



# Item 03 – GRI Sector Standards Project for Agriculture and Fishing – Exposure draft for agriculture, aquaculture, and fishing

## For GSSB approval

Date	15 April 2021
Meeting	29 April 2021
Project	GRI Sector Standards Project for Agriculture and Fishing
Description	This document sets the GRI Agriculture, Aquaculture and Fishing exposure draft, including the explanatory memorandum. These are submitted for GSSB approval for public exposure.
	It also includes a background section for GSSB information, which provides more detail on the content development process.
	As per the project proposal, this Standard was intended to apply to the agriculture, aquaculture, and fishing sectors. The Agriculture and Fishing Working Group recommended the title of the Standard be changed to reflect this and ensure recognition by the aquaculture sector. This change is proposed to take effect in the exposure draft, subject to GSSB approval.
is doci	Please note: This Standard makes references to the GRI Universal Standards. As the Universal Standards are currently under revision, the references in this draft use the names of the Universal Standards as they were at the time of exposure. The names and other references, along with several figures in the introduction and the glossary terms will be updated to align with the version of the Universal Standards submitted to the GSSB for approval in May. This content will be update in this Standard prior to release for public exposure.

This document has been prepared by the GRI Standards Division and is made available to observers at meetings of the Global Sustainability Standards Board (GSSB). It does not represent an official position of the GSSB. Board positions are set out in the GRI Sustainability Reporting Standards. The GSSB is the independent standard setting body of GRI. For more information visit www.globalreporting.org.

## Background

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- 2 The GRI Sector Standards Project for Agriculture and Fishing commenced in December 2019. The
- 3 Agriculture and Fishing Working Group, which was appointed in April 2020, consists of 19 members
- 4 representing 14 countries across 6 regions, as well as a broad set of commodities and products
- 5 across agriculture, aquaculture, and fishing.
- 6 To date, the Working Group has been highly engaged, participating in a scoping survey, six full
- 7 working group meetings, as well as numerous structured sub-group discussions. As the second pilot
- 8 project for the Sector Program, a number of key learnings have been integrated into the approach to
- 9 developing the exposure draft for agriculture, aquaculture, and fishing. For example, one change was
- 10 an increased focus on scoping the likely material topics for the sectors with the Working Group prior
- 11 to drafting content.
- 12 In addition to the Working Group, in November 2020, an external peer review was undertaken to test
- 13 the proposed list of likely material topics, as well as the accuracy and detail of descriptions and
- 14 disclosures for select topics, with external experts and stakeholders.
- The peer reviewers were primarily selected from shortlisted candidates that applied to the Working
- 16 Group. Additional participants were also recommended by members of the Working Group and Global
- 17 Sustainability Standards Board.
- 18 29 participants attended a dedicated peer review session, with 16 written formal responses received
- 19 from peer reviewers. Peer reviewers validated the list of topics and did not flag any critical flaws.

## 20 Preliminary findings on topic and disclosure gaps

- 21 It was anticipated that projects for Sector Standards would generate insight on the feasibility of
- 22 developing reporting requirements, recommendations, and/or guidance for the sector. The work on
- 23 agriculture, aquaculture, and fishing to date has surfaced some reporting expectations that might
- result in recommendations to develop new GRI Topic Standards. Seven likely material topics included
- in the exposure draft include no Topic Standards disclosures, namely:
- Natural ecosystem conversion
- Soil health

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- Pesticides use
- Food security
- Animal health and welfare
  - Land and resource rights
- Living income
- 33 Some of these topics, such as animal health and welfare, living income, and land and resource rights
- 34 feature in multiple sector-specific and sector-agnostic global standards and frameworks and might
- 35 result in recommendations to revise existing Topic Standards or develop new ones at the completion
- 36 of the project.

## 37 Name of the Sector Standard

- 38 As per the project proposal, this Standard was intended to apply to the agriculture, aquaculture, and
- 39 fishing sectors, however it was initially proposed that name would be Sector Standard: Agriculture and
- 40 Fishing.
- 41 The Working Group recommends the title of the Standard be changed to reflect the inclusion of all
- 42 three sectors in order to ensure recognition by the aquaculture sector. As such, it is proposed that the
- 43 Standard be known as GRI Sector Standard: Agriculture, Aguaculture and Fishing and that this takes
- 44 effect in the exposure draft.



## **Public comment**

- The public comment period for the exposure draft of agriculture, aquaculture and fishing is proposed 46 to commence on 19 May and run until 30 July. This will run in conjunction with the public comment 47
- period for coal. 48

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- 49 The primary objective of the public comment period is to test the clarity, feasibility, completeness, and 50 relevancy of the content, including:
  - Whether the topics that have been identified as likely material for organizations in the agriculture, aquaculture, and fishing sectors, and the way they are described, accurately reflect the sectors' most significant impacts on the economy, environment, and people, including impacts on their human rights; and
  - That the list of disclosures from the GRI Topic Standards and other sources included for each likely material topics are relevant for organizations in the sectors to report information about their impacts and approach.
- Anis document does not represent an official position The public comment will engage stakeholders globally across GRI's key constituencies. All 58 59



## 60 Explanatory memorandum

- This explanatory memorandum sets out the objectives GRI Sector Standards Project for Agriculture,
- and Fishing for Agriculture, Aquaculture, and Fishing. It also includes the significant proposals
- resulting from this project and summarizes the Global Sustainability Standards Board (GSSB)'s
- involvement and views on development of the draft.

## Objectives for the project

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- The GRI Sector Standards Project for Agriculture, and Fishing commenced in December 2019. This is
   a pilot project for the GRI Sector Program.
- 68 This project aims to identify and describe the significant impacts and stakeholder concerns for the
- 69 agriculture, aquaculture, and fishing sectors from a sustainable development perspective, and provide
- 70 evidence and authoritative references for these. This will serve as a foundation for increased
- 71 transparency and more consistent reporting from organizations in the sectors.
- 72 As outlined in the GSSB's Due Process Protocol, a multi-stakeholder working group was established
- in April 2020 to contribute to the development of a Sector Standard.
- 74 The GRI Sector Standards Project for Agriculture, and Fishing applies to agriculture, aquaculture, and
- 75 fishing organizations. These three sectors are considered to have common characteristics as
- 76 producers of an essential societal need food, as well as to share similar impacts on people and
- 77 economy, and in part on environment. The working group recommended that the name of the
- 78 Standard reflect all three sectors it covers agriculture, aquaculture, and fishing.
- 79 For more information on the project, consult the <u>project proposal</u> and <u>terms of reference of the PWG</u>.
- 80 The GRI Universal Standards have simultaneously been under revision. The implementation model of
- 81 the Sector Standards will be incorporated into these revised Universal Standards. The final Universal
- 82 Standards are expected to be approved Q2 2021. For the purposes of this exposure draft, draft
- versions of the Universal Standards are used.

## 84 Significant proposals

- An exposure draft for agriculture, aquaculture, and fishing has been developed in line with the project objectives set out above. Notable inclusions in this exposure draft are summarized below:
  - 26 topics were identified as likely material for organizations in the agriculture, aquaculture and fishing sectors (see Table 1). For each likely material topic, the sectors' most significant impacts are described and disclosures to report information about the organization's impacts and approach in relation to the topic are listed.
  - Out of 26 likely material topics included in the exposure, 17 topics include disclosures from Topic Standards. In addition, two topics *Employment practices* and *Supply chain traceability* include reporting recommendations from the GRI Topic Standards, but do not include any disclosures from Topic Standards.
  - 7 topics do not include any disclosures nor recommendations from Topic Standards, these are: Natural ecosystem conversion, Soil health, Pesticides use, Food security, Animal health and welfare, Land and resource rights, Living income. Sector-specific reporting has been included for these topics.
  - Some topics list disclosures for only one sector, for example Water and Effluents and Waste include reporting on waste and effluents by MARPOL categories is for the fishing sector only.
  - While not all organization in the agriculture, aquaculture, and fishing sectors produce food for human consumption, the sectors' central role in food production has been recognized across topics and has resulted in inclusion of topics Food security and Food safety as well as expanded scope of the topic Waste and food loss.



Sector Profile section further outlines the sector's activities, business relationships, and its interactions with the global sustainable development agenda, including linkages to the UN Sustainable Development Goals. A mapping between the likely material topics and the relevant SDGs is included as part of the larger context in the section 1.2 The sectors and sustainable development, providing a starting point for organizations that seek to integrate the SDGs into their reporting.

Table 1: Likely material topics included in the draft Sector Standard: Agriculture, Aquaculture, and Fishing

Fishing		
Likely material topic	Disclosures from these GRI Topic Standards are included for reporting on the topic	Whether additional sector recommendations or disclosures are listed for the topic
1. Emissions	GRI 305: Emissions 2016	Additional sector recommendations included for:  • Disclosure 305-1 Direct (Scope 1) GHG emissions  • Disclosure 305-3 Other indirect (Scope 3) GHG emissions
2. Climate adaptation and resilience	GRI 201: Economic Performance 2016	Additional sector recommendations included for:  • Disclosure 201-2 Financial implications and other risks and opportunities due to climate change
3. Biodiversity	GRI 304: Biodiversity 2016	Additional sector disclosure identified for organizations in aquaculture and fishing.
4. Natural ecosystem conversion	- ,esen	Additional sector recommendations included for <i>Disclosure MT-3 Management of material topics</i>
5. Soil health	- 10, 100,	Additional sector recommendations included for:  • Disclosure MT-3 Management of material topics
6. Pesticides use	ē5 `	<ul> <li>Additional sector recommendations included for Disclosure MT-3 Management of material topics</li> <li>Additional sector disclosure</li> </ul>
7. Water and effluents	GRI 303: Water and Effluents 2018	Additional sector recommendations included for:  • Disclosure 303-4 Water discharge
8. Waste and food loss	GRI 306: Waste 2020	Additional sector recommendations included for:  • Disclosure MT-3 Management of material topics  • Disclosure 306-3 Waste generated
9. Food security	-	Additional sector recommendations included for <i>Disclosure MT-3 Management of material topics</i>
10. Food safety	GRI 416: Customer Health and Safety 2016	Additional sector recommendations included for



11. Animal health and welfare  12. Local communities  13. Land and resource rights  14. Rights of indigenous peoples  15. Non-discrimination and equal opportunity  16. Forced labor  17. Child labor  18. Freedom of association and collective bargaining  19. Occupational health and safety  20. Employment practices  21. Living income  22. Economic inclusion  13. Laptical for a first service and included for Disclosure MT-3 Management of material topics  24. Public policy and lobbying  25. Anti-competitive  26. Additional sector recommendation included for Disclosure MT-3 Management of material topics  26. Additional sector recommendation included for Disclosure MT-3 Management of material topics  27. Additional sector recommendation included for Disclosure MT-3 Management of material topics  28. Additional sector recommendation included for Disclosure MT-3 Management of material topics  29. Additional sector recommendation included for Disclosure MT-3 Management of material topics  29. Additional sector recommendation included for Disclosure MT-3 Management of material topics  29. Additional sector recommendation included for Disclosure MT-3 Management of material topics  29. Additional sector recommendation included for Disclosure MT-3 Management of material topics  29. Additional sector recommendation included for Disclosure MT-3 Management of material topics  29. Additional sector recommendation included for Disclosure MT-3 Management of material topics  20. Additional sector recommendation included for Disclosure MT-3 Management of material topics  20. Additional sector recommendation included for Disclosure MT-3 Management of material topics  20. Additional sector recommendation included for Disclosure MT-3 Management of material topics  20. Additional sector recommendation included for Disclosure MT-3 Management of material topics  20. Additional sector recommendation included for Disclosure MT-3 Management of material topics  20. Additional sector recommendations included for Disclosure MT-3 Management of m			Disalas was MT O Managarant
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## GSSB involvement and views on the development of this draft

- The GSSB appointed a subcommittee of three GSSB members for the Sector Program. The
- subcommittee was consulted on key conceptual issues on a regular basis.
- The GSSB confirmed its support for content of the exposure draft for agriculture, aquaculture, and
- fishing when it voted to approve the draft for public exposure at its meeting on 29 April 2021. The
- This document does not represent an official position of the Essella This document does not represent an official position of the Essella This document does not represent an official position of the Essella This document does not represent an official position of the Essella This document does not represent a contract of the Essella This document does not represent a contract of the Essella This document does not represent a contract of the Essella This document does not represent a contract of the Essella This document does not represent a contract of the Essella This document does not represent a contract of the Essella This document does not represent a contract of the Essella This document does not represent a contract of the Essella This document does not represent a contract of the Essella This document does not represent a contract of the Essella This document does not represent a contract of the Essella This document does not represent a contract of the Essella This document does not represent a contract of the Essella This document does not represent a contract of the Essella This document doc recording of the meetings can be accessed on the GSSB website. 119







GRI Sector Standards Project for Agriculture and Fishing – Exposure draft for agriculture, aquaculture, and fishing

This document has been prepared by the GRI Standards Division and is made available to observers at meetings of the Global Sustainability Standards Board (GSSB). It does not represent an official position of the GSSB. Board positions are set out in the GRI Sustainability Reporting Standards. The GSSB is the independent standard setting body of GRI. For more information visit www.globalreporting.org.

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## Introduction

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- 123 GRI Sector Standard: Agriculture, Aquaculture, and Fishing provides information for organizations in
- 124 the agriculture, aquaculture, and fishing sectors about their most likely material topics. These topics
- 125 have been identified as likely material for organizations in the agriculture, aquaculture, and fishing
- 126 sectors on the basis of the sectors' most significant impacts on the economy, environment, and
- people, including impacts on their <u>human rights</u>.
- 128 Sector Standard: Agriculture, Aquaculture, and Fishing also contains a list of disclosures from the GRI
- 129 Topic Standards and other sources for organizations in the agriculture, aquaculture, and fishing
- 130 sectors to report information about their impacts and approach in relation to each likely material topic.
- 131 Sector Standards are developed using multi-stakeholder expertise, authoritative intergovernmental
- instruments, and other relevant evidence.
- 133 This Standard is structured as follows:
- Section 1 provides a high-level overview of the sector, including its activities, business
   relationships, sustainability context, and the connections between the Sustainable Development
   Goals (SDGs) and the likely material topics for the sector.
- Section 2 outlines the topics that have been identified as likely material for organizations in the agriculture, aquaculture, and fishing sectors and therefore potentially merit reporting. For each likely material topic, the agriculture, aquaculture, and fishing sectors' most significant impacts are described and disclosures to report information about the organization's impacts and approach in relation to the topic are listed.
- Glossary contains defined terms with specific meaning when used in the GRI Standards.
- Bibliography lists the authoritative intergovernmental instruments and other sources used to develop each topic, as well as further resources that may be helpful for reporting on the topic.
- The rest of this Introduction section offers an overview of the sectors this Standard applies to, an overview of the system of GRI Standards, and further information on using this Standard.

## 147 Sectors this Standard applies to

- GRI Sector Standard: Agriculture, Aquaculture, and Fishing applies to organizations undertaking the following:
- Crop production
- Animal production
- Aquaculture
- 153 Fishing
- 154 This Standard can be used by agriculture, aquaculture and fishing organizations of any size or type in
- 155 any geographic location.
- 156 Not all topics listed in this Standard may be material for all organizations in the sectors. The
- organization will determine material topics based on its specific circumstances.
- 158 When identifying the applicable Sector Standards, the organization should consider its main sector. If
- the organization has substantial activities across more than one sector, it must use all applicable
- 160 Sector Standards.

161

## Sector classifications

- 162 Table1 list industry groupings relevant to the agriculture, aquaculture, and fishing sectors in the
- 163 Global Industry Classification System (GICS®, Industry Classification Benchmark (ICB), International
- 164 Standard Industrial Classification of All Economic Activities (ISIC), and Sustainable Industry



- 165 Classification System (SICS®). The table is intended to assist an organization in identifying whether
- the Sector Standard: Agriculture, Aquaculture and Fishing applies to it and is for reference only.
- Table 1. Industry groupings relevant to the agriculture, aquaculture, and fishing sectors in other classification
- 168 systems

Classification system	Classification number	Classification name
GICS®	30202010	Agricultural products
ICB	3573	Farming, fishing and plantations
ISIC	A1	Crop and animal production (excluding hunting)
	A3	Fishing and aquaculture
SICS®	FB-AG	Agricultural products
	FB-MP	Meat, poultry and dairy

## System of GRI Standards

- 170 This Standard is part of the GRI Sustainability Reporting Standards (GRI Standards). The GRI
- 171 Standards enable an organization to report information on its most significant impacts on the
- economy, environment, and people, including impacts on their human rights, and how it manages
- 173 these impacts.

169

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- 174 The GRI Standards are structured as a system of interrelated standards that are organized into three
- 175 series: Universal Standards, Sector Standards, and Topic Standards.

#### 176 Universal Standards: GRI 101, 102, and 103

- 177 Note: All references to the GRI Universal Standards in this Standard refer to [the drafts] that have
- been made available as part of the [review of the Universal Standards]. The GRI Sector Standards
- 179 will work in conjunction with the revised Universal Standards. The draft Universal Standards are
- subject to the approval of the Global Sustainability Standards Board and may change.
- 181 GRI 101: Using the GRI Standards sets out the requirements that the organization must comply with
- to report in accordance with the GRI Standards. The organization begins using the GRI Standards by
- 183 consulting GRI 101.
- 184 GRI 102: About the Organization contains disclosures that the organization uses to provide
- information about its reporting practices and other organizational details, such as activities,
- 186 governance, and policies.
- 187 GRI 103: Material Topics provides guidance on how to determine material topics. It also contains
- 188 disclosures that the organization uses to report information about its process to determine material
- topics, its list of material topics, and how it manages each topic.

#### Sector Standards

- 191 The Sector Standards provide information for organizations in a given sector about their most likely
- material topics. The organization uses the Sector Standards that apply to its sectors when
- 193 determining its material topics and when determining what to report for each material topic.

#### 194 Topic Standards

- 195 The Topic Standards contain disclosures that the organization uses to report information on its
- 196 impacts and approach in relation to particular topics. The organization uses the Topic Standards
- 197 according to the list of material topics it has determined using GRI 103.



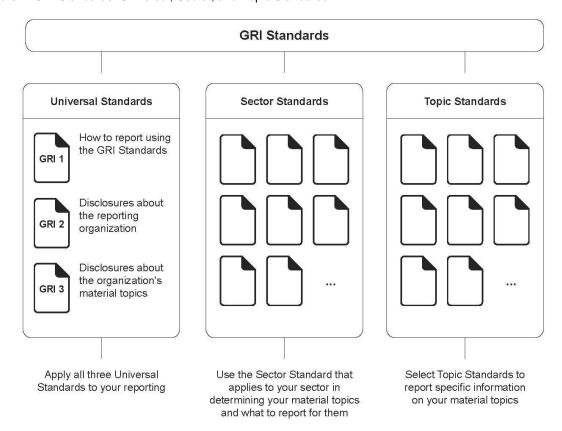
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## **Using this Standard**

An organization in the agriculture, aquaculture, and fishing sectors reporting in accordance with the GRI Standards is required to use this Standard when determining its material topics and when determining what information to report for the material topics.

## **Determining material topics**

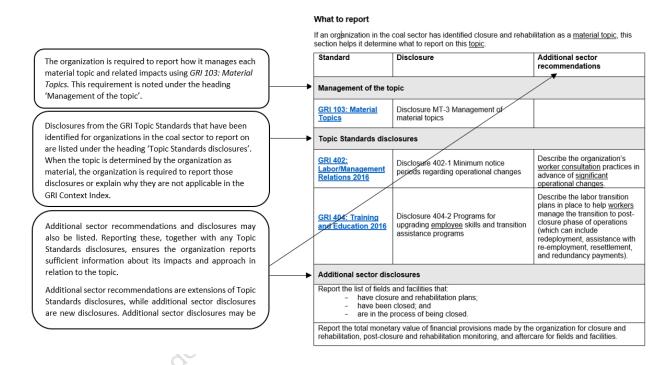
- Material topics are topics that represent the organization's most significant impacts on the economy, environment, and people, including impacts on their human rights.
- An organization in the agriculture, aquaculture, and fishing sectors is required to use this Standard when determining its material topics. The organization needs to review each topic described in Section 2 of this Standard and determine whether it is a material topic for the organization.
- This Standard helps the organization determine its material topics, but the organization still needs to determine its material topics based on its specific circumstances. The topics an organization identifies as material may vary according to specific circumstances, such as its business model; sector;
- geographic, cultural, and legal operating contexts; ownership structure; and the nature of its impacts.
- 213 GRI 103: Material Topics provides step-by-step guidance on how to determine material topics.
- Not all topics listed in this Standard may be material for all organizations in the sectors. If any of the topics that are included in this Standard have been determined by the organization as not material,
- the organization is required to list them in the GRI content index and explain why they are not material
- 217 (see Requirement 7 in Section 3 of GRI 101: Using the GRI Standards).
- See Requirement 3 in Section 3 of GRI 101: Using the GRI Standards and Box 1 in GRI 103: Material
- Topics for more information on using Sector Standards when determining material topics.



## **Determining what to report**

- When a topic included in this Standard is determined by the organization as material, the Standard
- helps the organization identify disclosures to report on its impacts and approach in relation to that
- 223 topic.

- 224 A what to report section is included for each topic in Section 2 of this Standard. What to report
- 225 sections list disclosures from the GRI Topic Standards. They may also list additional sector
- 226 recommendations and disclosures for the organization to report on, in cases where the Topic
- 227 Standards do not provide disclosures, or where the disclosures from the Topic Standards do not
- 228 provide sufficient information about an organization's impacts and approach in relation to a topic.
- Additional sector disclosures may be based on other sources.
- 230 Figure 2 illustrates how what to report sections are structured.
- 231 Figure 2. Structure of what to report sections



- For topics determined by the organization as material, the organization is required to report the
- 233 disclosures drawn from Topic Standards listed in the what to report section for that topic. If any
- disclosures listed are not relevant for reporting on the organization's impacts and approach in relation
- to the topic, then the organization is not required to report these but is required to list them in the GRI
- 236 Context Index, provide the 'not applicable' reason for omission and a brief explanation (see
- 237 Requirement 7 in Section 3 of GRI 101: Using the GRI Standards).
- 238 The additional sector recommendations and disclosures outline additional information that the
- organization should report on the topic. An organization should provide sufficient information about its
- 240 impacts and approach in relation to each material topic, so that information users can make informed
- 241 assessments and decisions about the organization. The additional sector disclosures and
- recommendations have been identified as relevant for organizations in the agriculture, aquaculture,
- and fishing sectors in relation to the topic. Reporting on these is encouraged, however, it is not a
- 244 requirement.
- When the organization reports the additional sector disclosures, it is required to list them in the GRI
- 246 content index.
- 247 See Requirement 5 in Section 3 of GRI 101: Using the GRI Standards for more information on using
- Sector Standards when identifying disclosures to report on.



## **Defined terms**

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- 250 Defined terms are underlined in the text of the GRI Standards and hyperlinked to their definitions in
- 25 I the Glossary. The organization is required to apply the definitions in the Glossary.

## References and resources

- 253 Each GRI Topic Standard includes a list of authoritative intergovernmental instruments and other
- 254 sources used in developing the Topic Standard, as well as additional resources that can be consulted
- 255 by organizations on the topic. Additional authoritative instruments and sources used to develop the
- 256 topics in this Standard, as well as further resources that may be helpful for understanding and
- This document does not represent an official position of the 257 reporting on the topic by organizations in the agriculture, aquaculture, and fishing sectors are listed at
- 258



## **1. Sector profile**

- The agriculture, aquaculture, and fishing sectors involve the cultivation, production, and capture of
- organisms that can be used as food for human consumption or animal feed, fibers, fuels, and other
- 262 products. Agriculture consists of crop and animal production; aquaculture encompasses the
- cultivation of live aquatic organisms; fishing entails capturing fish and other wild aquatic organisms.
- Agriculture, aquaculture, and fishing operations can be formally or informally organized as large-scale
- 265 or small-scale business enterprises, government institutions, or other organizations, including
- 266 households and cooperatives. These organizations can own or operate farms, mills, and hatcheries.
- Vertically integrated organizations can directly own or manage production, storage, processing, and
- 268 distribution.

269

## 1.1 Sector activities and business relationships

- When determining its material topics, the organization should consider both the impacts of its
- 271 activities and its business relationships. See GRI 103: Material Topics for more information on how to
- 272 determine material topics.

## 273 Activities

- 274 The impacts of an organization vary according to the types of activities it undertakes. The following list
- outlines some of the key activities of the agriculture, aquaculture, and fishing sectors. This list is not
- 276 exhaustive.

## 277 Crop production

- 278 Production: growing and harvesting seeds, trees for rubber and latex, and all crops, such as cereals,
- vegetables, fruits, fibers, and other types; gathering berries, nuts, mushrooms, and sap.
- 280 Primary processing:<sup>2</sup> cleaning, grading, hulling, pounding, and milling grains; soaking, heating, and
- 281 drying leaves; extracting and filtering oils.
- 282 Aggregation: amassing crop produce from multiple sources at farm level for sale to downstream
- 283 markets, which can involve transaction by intermediary organizations or single actors.
- 284 Storage: keeping crops in a way that preserves their quality and keeps them safe from, for example,
- 285 molds, yeasts, and rodents.
- 286 *Transportation:* using traditional or mechanized transportation to move crops.
- 287 Trading: buying and selling crops.

#### 288 Animal production

- 289 Production: breeding and rearing livestock and poultry; collecting live animal products, such as milk,
- eggs, honey, and wool; raising animals in captivity; operating animal farms.

<sup>&</sup>lt;sup>2</sup> Primary processing is processing in order to prepare agriculture, aquaculture, and fishing products for primary markets, as defined by the Food and Agriculture Organization (FAO), <u>Post-harvest processing</u>, accessed 9 February 2021.



<sup>&</sup>lt;sup>1</sup> Based on United Nations (UN) International Standard Industrial Classification of All Economic Activities.

- 291 Primary processing: cleaning and washing animal products; processing of milk; candling eggs;
- 292 slaughtering animals for meat; deboning, cutting, smoking, and freezing meat; separating fur, skins,
- 293 feathers, and down.
- 294 Aggregation: gathering live animals and animal products from multiple farms for sale to downstream
- 295 markets, which can involve transaction via intermediary organizations or single actors.
- 296 Storage: keeping animal products in a way that preserves their quality and keeps them safe from, for
- 297 example, harmful bacteria.
- 298 Transportation: using traditional or mechanized transportation to move live animals and animal
- 299 products.
- 300 *Trading:* buying and selling live animals and animal products.

#### 301 Aquaculture

- 302 Production: culturing or farming of aquatic organisms, such as fish, mollusks, and crustaceans, in
- 303 captive conditions that involve regular stocking, feeding, and protecting against predators; this
- 304 includes both capture-based aquaculture (CBA) and hatchery-based aquaculture (HBA) systems. It
- 305 also includes growing of laver and other seaweeds.
- 306 Primary processing: slaughtering fish, mollusks, and crustaceans; deshelling crustaceans;
- undertaking service activities incidental to the operation of fish hatcheries and fish farms.
- 308 Aggregation: amassing fish, mollusks, and crustaceans from multiple sources for sale to downstream
- markets, which can involve transaction via intermediaries or single actors.
- 310 Storage: keeping aquaculture products in a way that preserves their quality and keeps them safe
- 311 from, for example, harmful bacteria.
- 312 Transportation: using traditional or mechanized transportation to move aquaculture products.
- 313 Trading: buying and selling aquaculture products.

#### 314 Fishing

- 315 Fishing: capturing aquatic organisms, such as fish, mollusks, and crustaceans, by hand or fishing
- 316 gear, which can be conducted on the intertidal shoreline via shore-based netting, or by commercial
- fishing vessels in inshore, coastal waters, or offshore waters.
- 318 Primary processing: onboard handling of live wild aquatic organisms after capture and through to
- 319 point of landing.
- 320 Aggregation: amassing fish, mollusks, and crustaceans from multiple sources to downstream
- markets, which can involve intermediary organizations or single actors.
- 322 Storage: keeping fish and fish products in a way that preserves their quality and keeps them safe
- from, for example, harmful bacteria.
- 324 *Transportation*: using traditional or mechanized transportation to move fish and fish products.
- 325 *Trading:* buying and selling fish and fish products.

## 326 Business relationships

- 327 An organization's business relationships include relationships with business partners, entities in its
- value chain, (including entities those beyond the first tier), and any other entities directly linked to its
- 329 operations, products, or services. The following types of business relationships are of particular
- relevance when identifying the <u>impacts</u> of organizations in the agriculture, aquaculture, and fishing
- 331 sectors.
- 332 Primary producers: Agriculture, aquaculture, and fishing organizations can often buy their products
- from primary producers who actively farm or fish. Primary producers can be other organizations or
- persons, such as farmers and fishers, categorized as self-employed workers.



- 335 Aggregators: intermediary organizations or actors who bring products from multiple sources at farm,
- hatchery, or mill level for sale to downstream markets.
- 337 Animal or fish feed suppliers: organizations or persons that provide feed for animal production or
- 338 aquaculture.

339

## 1.2 The sectors and sustainable development

- 340 Agriculture, aquaculture, and fishing sectors are fundamental to supporting food systems and
- ensuring the right to food is enjoyed by all. The sectors also provide non-food products, such as
- 342 fibers, fuels, and rubber.
- In the context of sustainable development, significant impacts associated with these sectors' activities
- are linked to intensive use of natural resources, the location of operations in rural areas, the labor
- needed for production, as well as the need to meet food demands for the world's growing population
- while staying within the planetary environmental limits. Human rights impacts are associated with both
- the use of land and natural resources and the vulnerability of rural workers and communities.
- 348 Over 2.5 billion people living in rural areas depend on the agriculture, aquaculture, and fishing sectors
- for jobs and income. At the same time, agriculture, aquaculture, and fishing are among the sectors
- 350 with the highest informality rates in employment contracts, commercial transactions, and land tenure,
- 351 posing challenges to upholding labor and human rights. Many rural workers, including farmers and
- 352 fishers, live below the poverty line, needing better economic opportunities, access to technology and
- training. In addition, organizations' purchasing practices and prices offered for products are the major
- 354 source of impact on small producers.
- 355 Agriculture, aquaculture, and fishing organizations rely on land, water, and fishery resources for
- production, and have a substantial environmental footprint. For example, agriculture accounts for an
- 357 estimated 70% of freshwater withdrawals globally. Estimate show that the agriculture sector is the
- 358 second-largest source of greenhouse gas (GHG) emissions after the energy sector, while fishing
- accounts for at least 1.2% of the global oil consumption. Animal production is also associated with
- impacts on animal health and welfare and on human health through antimicrobial resistance and
- 361 zoonotic disease.

373

- 362 The agriculture sector has been responsible for 70% of losses in terrestrial biodiversity as a result of
- land conversion, deforestation, and impacts of pesticides. Fishing has had significant impacts on
- 364 global ocean biodiversity, with one third of fish stocks being overfished and about 60% fished at their
- maximum sustainable levels. Agriculture, aquaculture, and fishing production relies on natural
- 366 resources and hence on biodiversity. Implementing sustainable practices across the sectors is a
- fundamental condition for food security and nutrition.
- 368 Climate change poses major challenges for the agriculture, aquaculture, and fishing sectors. It can
- affect yields, disrupt production, and supply chains, jeopardizing food security. Impacts of climate
- change can also deepen poverty levels, displace people from their lands, and thus increase migration.
- 371 Agriculture, aquaculture, and fishing organizations can contribute to food security through facilitating
- adaptation and resilience, reducing food loss, and providing income and livelihoods.

## **Sustainable Development Goals**

- 374 The Sustainable Development Goals (SDGs), part of the 2030 Agenda for Sustainable Development
- adopted by the 193 United Nations member states, comprise the world's comprehensive plan to
- 376 achieving sustainable development.
- 377 Since the Sustainable Development Goals and the targets associated with them are integrated and
- indivisible, and so agriculture, aquaculture, and fishing organizations have the potential to impact all
- 379 SDGs by either enhancing their positive contributions or avoiding and mitigating negative impacts.
- Agriculture, aquaculture, and fishing are central to the 2030 Agenda. Providing food and helping reduce
- 381 poverty, the sectors are best positioned to contribute to the Goal 2: Zero Hunger. Agriculture,
- aquaculture, and fishing sectors are also the world's biggest employer and the largest economic sectors



for many countries, impacting directly on **Goal 1: No Poverty** and **Goal 8: Decent Work and Economic Growth**.

By sustainably managing and efficiently using natural resources (Goal 12: Responsible Consumption and Production), agriculture has the potential to revitalize rural landscapes, contributing to Goal 15: Life on land. Aquaculture and fishing sectors can contribute to healthy marine and aquatic ecosystems covered under the Goal 14: Life Below Water. By implementing resilient fishing and farming practices, agriculture, aquaculture, and fishing sectors can help increase productivity, and build the adaptive capacity to respond to climate change (Goal 13: Climate Action).

Table 2 highlights connections between the likely <u>material topics</u> for the agriculture, aquaculture, and fishing sectors and the SDGs. These linkages were identified based on an assessment of the impacts described in each likely material topic, the targets associated with each SDG, and existing mapping undertaken for the sectors. It is a starting point for organizations that seek to integrate the SDGs into their reporting.

Table 2: Linkages between the likely material topics for the Agriculture, aquaculture, and fishing sectors and the SDGs.

Likely material topics	Corresponding SDGs		
	Goal 3: Good Health and Well-being		
	Goal 12: Responsible Consumption and Production		
1. Emissions	Goal 13: Climate Action		
	Goal 14: Life Below Water		
	Goal 15: Life on Land		
	Goal 1: No poverty		
Climate adaptation and resilience	Goal 2: Zero Hunger		
Toomorioo	Goal 13: Climate Action		
	Goal 2: Zero Hunger		
	Goal 6: Clean Water and Sanitation		
3. Biodiversity	Goal 12: Responsible Consumption and Production		
	Goal 14: Life Below Water		
	Goal 15: Life on Land		
	Goal 15: Life on Land		
Natural ecosystem conversion	Goal 13: Climate Action		
	Goal 14: Life Below Water		
5. Soil health	Goal 15: Life on Land		
	Goal 3: Good Health and Well-being		
	Goal 6: Clean Water and Sanitation		
6. Pesticides use	Goal 8: Decent Work and Economic Growth		
	Goal 12: Responsible Consumption and Production		
	Goal 15: Life on Land		
	Goal 6: Clean Water and Sanitation		
7. Water and effluents	Goal 12: Responsible Consumption and Production		
	Goal 14: Life Below Water		



O Wasta and facilities	Goal 2: Zero Hunger
8. Waste and food loss	Goal 12: Responsible Consumption and Production
	Goal 2: Zero Hunger
	Goal 14: Life Below Water
9. Food security	Goal 13: Climate Action
	Goal 15: Life on Land
	Goal 17: Partnerships for the Goals
	Goal 2: Zero Hunger
10. Food safety	Goal 3: Good Health and Well-being
11. Animal health and welfare	Goal 15: Life on Land
	Goal 1: No poverty
	Goal 2: Zero Hunger
	Goal 5: Gender Equality
12. Local communities	Goal 6: Clean Water and Sanitation
	Goal 13: Climate Action
	Goal 15: Life on Land
	Goal 16: Peace and Justice Strong Institutions
	Goal 1: No Poverty
	Goal 2: Zero Hunger
13. Land and resource rights	Goal 12: Responsible Consumption and Production
	Goal 15: Life on Land
	Goal 16: Peace and Justice Strong Institutions
	Goal 1: No Poverty
	Goal 2: Zero Hunger
14. Rights of indigenous	Goal 11: Sustainable Cities and Communities
peoples	Goal 13: Climate Action
	Goal 15: Life on Land
	Goal 16: Peace and Justice Strong Institutions
	Goal 5: Gender Equality
	Goal 8: Decent Work and Economic Growth
15. Non-discrimination and equal opportunity	Goal 10: Reduced Inequalities
σημαι ορροπαιτική	Goal 14: Life Below Water
	Goal 16: Peace and Justice Strong Institutions
	Goal 5: Gender Equality
16. Forced labor	Goal 8: Decent Work and Economic Growth
	Goal 16: Peace and Justice Strong Institutions
17. Child labor	Goal 1: No Poverty



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	Goal 8: Decent Work and Economic Growth
	Goal 16: Peace, Justice and Strong Institutions
18. Freedom of association	Goal 8: Decent Work and Economic Growth
and collective bargaining	Goal 16: Peace and Justice Strong Institutions
19. Occupational health and	Goal 3: Good Health and Well-being
safety	Goal 8: Decent Work and Economic Growth
	Goal 1: No Poverty
20. Employment practices	Goal 8: Decent Work and Economic Growth
	Goal 10: Reduced Inequalities
	Goal 1: No Poverty
	Goal 2: Zero Hunger
21. Living income	Goal 8: Decent Work and Economic Growth
	Goal 10: Reduced Inequalities
	Goal 1: No Poverty
	Goal 2: Zero Hunger
	Goal 8: Decent Work and Economic Growth
22. Economic inclusion	Goal 9: Industry, Innovation and Infrastructure
	Goal 11: Sustainable Cities and Communities
	Goal 14: Life Below Water
	Goal 12: Responsible Consumption and Production
23. Supply chain traceability	Goal 14: Life Below Water
	Goal 16: Peace, Justice and Strong Institutions
	Goal 2: Zero Hunger
	Goal 14: Life Below Water
24. Public policy and lobbying	Goal 15: Life on Land
	Goal 16: Peace and Justice Strong Institutions
25. Anti-competitive behavior	Goal 16: Peace and Justice Strong Institutions
26. Anti-corruption Goal 16: Peace and Justice Strong Institutions	



## 2. Likely material topics

- 399 The following section outlines the likely material topics for the Agriculture, Aquaculture, and Fishing
- 400 sectors. Each topic describes the most significant impacts related to the topic and lists disclosure that
- 401 have been identified as relevant for reporting on the topics by the sectors. The organization needs to
- review each topic in this section and determine whether it is material for it to report on.

## 2.1 Emissions

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- This topic addresses emissions into air, including greenhouse gas (GHG), ozone-depleting
- 405 substances (ODS), and nitrogen oxides (NOX) and sulfur oxides (SOX), among other
- 406 significant air emissions. Emissions can have negative impacts on air quality, ecosystems,
- and human and animal health. GHG emissions are a major contributor to climate change.
- 408 Agriculture is responsible for large portions of two of the most significant sources of greenhouse gas
- 409 (GHG) emissions: carbon dioxide (CO<sub>2</sub>) and methane (CH<sub>4</sub>). From 2007 to 2016, activities in the
- sector accounted for approximately 13% of CO<sub>2</sub>, 44% of CH<sub>4</sub>, and 82% of nitrous oxide (N<sub>2</sub>O)
- 411 emissions from human activities globally; these figures totaled 23% of total net anthropogenic
- 412 emissions of GHGs.
- 413 Crop production primarily produces GHG emissions through soil cultivation, with the largest
- 414 discharges coming from soil tillage, soil decomposition, and burning vegetation and crop residues
- 415 (see Soil health). Fertilizers, pesticides, and fossil fuels used to power machinery and vehicles also
- 416 release GHG emissions. Crop residue decomposition and burning plant biomass are other direct
- sources of emissions, including CO<sub>2</sub>, N<sub>2</sub>O, and particulate matter.
- 418 Ruminant livestock produce GHG emissions during their respiration and digestion processes. Animal
- manure also emits gases, such as CH<sub>4</sub>, N<sub>2</sub>O, and CO<sub>2</sub>. In 2014, livestock on managed pastures and
- 420 rangelands accounted for over half of total anthropogenic N₂O emissions from agriculture. GHGs can
- also be emitted from the use of fossil fuel to power machinery and vehicles in animal production.
- 422 Impacts associated with crop and animal production also include emissions arising from land use
- change, including the conversion of land from a natural ecosystem to use for agriculture or
- 424 aquaculture (see Natural ecosystem conversion). Land use changes can contribute to the release of
- large amounts of CO<sub>2</sub>, especially when mature forests or grasslands are cleared.
- 426 Land conversion for crops used as animal and fish feed is an additional source of emissions in animal
- 427 production and aquaculture; in aquaculture, it is the leading cause of other indirect (Scope 3)
- 428 <u>emissions</u>. Emissions are also associated with production, processing, and transportation of feed.
- 429 Land-based aquaculture farms can require high energy levels to regulate water temperature and
- 430 circulation, contributing to GHG emissions through combustion of fuel.
- 431 In fishing, emissions can be associated with burning diesel fuel, marine fuel oils, and intermediate fuel
- oils. Such fuel is used to power vessels, process fish on board, and freeze or refrigerate fish. Besides
- 433 contributing to GHG emissions, combustion of fuels produces localized air pollution. Use of
- refrigerants to store fish products can result in emissions of ozone-depleting substances.
- 435 Oceans have a high capacity to store anthropogenic carbon, and the largest storage pools are found
- in marine sediments. Trawls are one of the most commonly used types of fishing gear, with about a
- 437 quarter of marine fish caught by bottom trawls worldwide. Trawls that get dragged along the seabed
- 438 cause the release of CO<sub>2</sub> stored in sediments of the ocean floor. It is estimated that bottom trawling
- 439 causes one gigaton of emissions a year.



## What to report

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442 443 If the organization has identified emissions as a material topic, this section lists the disclosures that have been identified as relevant for reporting on the topic by the agriculture, aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the	topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	SSB
Topic Standards di	sclosures	
GRI 305: Emissions 2016	Disclosure 305-1 Direct (Scope 1) GHG emissions	When reporting on gross direct (Scope 1) GHG emissions in metric tons of CO <sub>2</sub> equivalent, include emissions associated with natural ecosystem conversion.
	Disclosure 305-2 Energy indirect (Scope 2) GHG emissions	al positile
	Disclosure 305-3 Other indirect (Scope 3) GHG emissions	When reporting on gross other indirect (Scope 3) GHG emissions in metric tons of CO <sub>2</sub> equivalent, include emissions associated with natural ecosystem conversion.
	Disclosure 305-4 GHG emissions intensity	
	Disclosure 305-5 Reduction of GHG emissions	
	Disclosure 305-6 Emissions of ozone-depleting substances (ODS)	
	Disclosure 305-7 Nitrogen oxides (NOx), sulfur oxides (SOx), and other significant air emissions	

#### 444 Resources and references

- GRI 305: Emissions 2016 lists authoritative intergovernmental instruments and other sources relevant 445 446 to reporting on this topic.
- 447 The additional intergovernmental instruments and references used to develop this topic description, 448 as well as further resources that may be helpful for understanding and reporting on the topic by the
- 449 agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 74.



## 2.2 Climate adaptation and resilience

- 451 Organizations contribute to climate change and are simultaneously affected by it. Climate
- 452 adaptation and resilience refers to how organizations are adjusting to current and anticipated
- climate-related risks, as well as contributing to the ability of societies and economies to
- 454 withstand impacts from climate change.
- 455 For organizations in the agriculture, aquaculture and fishing sectors, impacts related to climate
- 456 change include physical environmental impacts driven by acute events and long-term shifts in climate
- 457 patterns. Climate change has resulted in increased frequency, intensity, and duration of heat-related
- events, including more volatile weather systems in most world regions. Impacts of climate change cut
- 459 across environmental and socioeconomic systems.
- 460 In recent decades, climate change has caused a negative impact on crop yields and suitability. The
- 461 warmer winters related to climate change pose a risk to harvests, specifically affecting fruits and
- 462 vegetables that need a period of colder weather to produce viable harvests. According to the
- 463 Intergovernmental Panel on Climate Change (IPCC), between 34 and 600 million more people could
- suffer from hunger by 2080, depending on how climate change scenarios unfold.
- A major concern for the agriculture sector is the exacerbation of land degradation caused by global
- 466 warming. This can lead to increased rainfall intensity, flooding, drought frequency and severity, pest
- prevalence, diseases, heat stress, dry spells, wind, sea-level rise, wave action, and permafrost thaw.
- 468 Aquaculture and fishing operations are likely to be affected by negative impacts such as water
- 469 temperature increase, oxygen deficit, sea-level rise, decreased pH levels, and changes in productivity
- 470 patterns. Small-scale fishers in tropical, less developed, and poor regions are particularly vulnerable
- 471 to climate change impacts. Aquaculture and inland fishing are threatened by changes in precipitation
- 472 and water management, increased stress on freshwater resources, and frequency and intensity of
- 473 extreme climate events.
- 474 An organization's failure to adapt to climate change-related impacts can lead to disruptions in
- 475 operations, loss of livelihood for people, and increased occupational health and safety impacts. This
- 476 can affect an organization's workers, suppliers, customers, and shareholders as well as smallholder
- farmers, indigenous people, and local communities. Disruptions in operations can leave demands for
- 478 agriculture, aquaculture, and fishing products unfulfilled, in turn causing negative impacts on food
- 479 security.

488

450

- 480 In addition to their key role in climate change mitigation (see *Emissions*), organizations can take
- action to adapt to climate change and build resilience. One broadly identified adaptation option for the
- agriculture, aquaculture, and fishing sectors is diversification in production, including reliance on wider
- 483 genetic base and genetic improvements for tolerance to heat and drought. Mitigating food loss is also
- a form of climate adaptation as less lost food means less land is needed for the same output.
- Preservation of indigenous and local knowledge of biodiversity is also recognized as a contributing
- 486 factor to enhancing climate resilience, as it focuses on preserving ecosystems and offers adaptive
- 487 strategies to cope with unfavorable climatic conditions in local areas.

## What to report

- 489 If the organization has identified climate adaptation and resilience as a material topic, this section lists
- the disclosures that have been identified as relevant for reporting on the topic by the agriculture,
- 491 aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations	
Management of the	Management of the topic		
GRI 103: Material Disclosure MT-3 Management of material topics			
Topic Standards disclosures			



GRI 201: Economic Performance 2016	Disclosure 201-2 Financial implications and other risks and opportunities due to climate change	Describe the climate change-related scenarios used for identifying the risks and opportunities posed by climate change that have the potential to generate substantive changes in
		operations, revenue, or expenditure.

#### Resources and references

- 493 *GRI 201: Economic Performance 2016* lists authoritative intergovernmental instruments and other
   494 sources relevant to reporting on this topic.
- 495 The additional intergovernmental instruments and references used to develop this topic description, on the age 75.

  Age 75.

  This document does not represent an official position of the present and the present 496 as well as further resources that may be helpful for understanding and reporting on the topic by the agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 75. 497



## 2.3 Biodiversity

- 499 Biodiversity not only has intrinsic value, but is also vital to climate, human and cultural health
- and well-being, food security and economic prosperity. This topic covers impacts on
- 501 biodiversity, including on plant and animal species, and genetic diversity.
- 502 Biodiversity is essential for food production and the supply of a wide range of ecosystem services.
- 503 80% of terrestrial biodiversity is found in indigenous peoples' lands and forests. Respecting
- 504 indigenous peoples' rights to land and natural resources is key to biodiversity conservation.
- 505 According to the International Union for Conservation of Nature (IUCN), major threats to biodiversity
- 506 include habitat loss and degradation, overexploitation of biological resources, pollution, climate
- 507 change, and introduced invasive species.
- 508 Impacts from agriculture, aquaculture, and fishing on biodiversity include air, soil, and water
- 509 contamination, deforestation, soil erosion, and sedimentation of waterways. Other impacts involving
- 510 species include increased mortality rates, habitat fragmentation, and the introduction of invasive
- 511 species and pathogens leading to species loss or extinction.
- 512 Biodiversity generally declines as agriculture, aquaculture, or fishing activities intensify. This is driven
- 513 by natural ecosystem conversion and a change of habitat (see *Natural ecosystem conversion*).
- Biodiversity can be further impacted by monoculture, also known as monocropping, whereby the
- same crops or animal species are grown or bred year after year. While this practice may increase
- 516 production or reduce emissions, it decreases agrobiodiversity on farms and plantations and
- 517 biodiversity in adjacent environments.
- 518 Continuous monocropping in agriculture can result in a buildup of pests and diseases. Monocultures
- usually require high pesticides use, which can be toxic to many non-target species, including
- 520 pollinators insects or animals that carry pollen from one plant or plant part to another. Pollination is
- a crucial ecosystem service, especially within agriculture, as 75% of global food crops rely on it.
- 522 Agriculture and aquaculture operations can also impact species that exist in natural ecosystems'
- 523 surrounding areas. For example, animal production can be a major source of surplus nitrogen and
- 524 phosphorous pollution, which can lead to eutrophication in adjacent lakes and rivers, rendering them
- 525 uninhabitable for aquatic biodiversity (see *Water and effluents*). This can impact the right to food and
- other human rights of <u>local communities</u>. A similar impact can be caused by aquaculture activities due
- 527 to a buildup of fish excrement in waterbodies. Aquaculture can also result in impacts on local
- 528 biodiversity through escapes from aquaculture farms, which in turn can establish themselves to
- 529 compete with the area's native biodiversity.
- 530 Fishing is one of the most significant drivers of declining ocean biodiversity, due to overfishing, by-
- 531 catch, illegal, unreported, and unregulated fishing (IUU), and introduction of non-locally adapted
- species. Overfishing leads to impacts on the biodiversity of marine ecosystems by altering the
- 533 population size and body-size composition of targeted species as well as non-targeted species.
- These alterations result in impacts on predator-prey relationships and cause shifts in trophic
- structures (see *Natural ecosystem conversion*). Overfishing can also be driven by capture-based
- aquaculture, which relies on wild fish stocks for feed. In 2017, 34.2% of the world's marine fish stocks
- 537 were classified as overfished, and the proportion of world marine fish stocks within biologically
- sustainable levels had declined to 65.8% from 90% in 1974.
- In addition, in fishing lost or discarded fishing gear, known as ghost gear, continues to trap species, a
- 540 phenomenon known as ghost fishing. This can pose a threat to both target and non-target species,
- 541 potentially killing endangered and protected species and damaging underwater habitats. Ghost gear
- contributes to marine pollution (see *Waste and food loss*).



## What to report

543

544

545 546 If the organization has identified biodiversity as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the <u>topic</u> by the agriculture, aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the	e topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	SSB
Topic Standards d	isclosures	
GRI 304: Biodiversity 2016	Disclosure 304-1 Operational sites owned, leased, managed in, or adjacent to, protected areas and areas of high biodiversity value outside protected areas	i illo
	Disclosure 304-2 Significant impacts of activities, products, and services on biodiversity	· al Post
	Disclosure 304-3 Habitats protected or restored	Kicit
	Disclosure 304-4 IUCN Red List species and national conservation list species with habitats in areas affected by operations	
Additional sector disclosures		

The following additional sector disclosures are for organizations in the aquaculture and fishing sectors:

Report the volume in metric tons of aquatic organisms caught or harvested by species scientific name, fishing or farming method, and location of origin.

## 547 Resources and references

- 548 *GRI 304: Biodiversity 2016* lists authoritative intergovernmental instruments and other sources relevant to reporting on this topic.
- 550 The additional intergovernmental instruments and references used to develop this topic description,
- as well as further resources that may be helpful for understanding and reporting on the topic by the
- agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 75.



## 2.4 Natural ecosystem conversion

- Natural ecosystem conversion refers to the changing of a natural ecosystem to another use or
- 555 the profound change in a natural ecosystem's species composition, structure, or function.
- 556 This topic covers impacts related to natural ecosystem conversion, including impacts related
- 557 to discrete incidents of land clearance as well as severe degradation or introduction of
- 558 management practices that lead to substantial and sustained change in natural ecosystems.
- 559 Natural ecosystems perform important services, including absorbing and storing vast quantities of
- carbon dioxide (CO<sub>2</sub>). When natural ecosystems are converted to other uses, stored carbon can be
- released into the atmosphere, contributing to greenhouse gas (GHG) emissions and climate change
- 562 (see Emissions and Climate adaptation and resilience). Estimates show that the loss of primary
- tropical forest in 2019 resulted in the release of more than 2 billion tons of CO2.
- In the agriculture and aquaculture sectors, natural ecosystem conversion can be the result of using
- land and aquatic environments for animal breeding, grazing, crop production, aquaculture production,
- and ancillary activities. This can occur rapidly, with a large change taking place in a short time, or
- gradually, with incremental changes over a long time.
- Terrestrial ecosystem conversion, in particular, can occur as crop or animal production expands. It
- can include deforestation as well as conversion of other ecosystems, such as grasslands, woodlands,
- or savannas. Deforestation occurs when primary and secondary forests are cleared, often by burning.
- 571 Aguatic ecosystem conversion happens as the result of reclamation of coastal, lake, river, wetland,
- 572 peatland, or benthic ecosystems. Conversion of aquatic environments by aquaculture operations can
- 573 include the clearing of arable land, mangroves, salt marshes, and wetlands or sustained changes to
- 574 lake and river ecosystems to make them fit for aquatic farming sites. Aquaculture also relies heavily
- on crops for fish feed and can contribute to the conversion of terrestrial ecosystems.
- 576 In fishing, bottom trawling causes impacts on the seabed's physical structure, affecting bottom plants,
- 577 corals, sponges, fish, and other animals. This can profoundly change how natural benthic ecosystems
- 578 function or lead to their destruction, causing impacts on biodiversity and CO₂ emissions (see
- 579 Emissions).

553

- 580 Conversion of natural ecosystems can also lead to other environmental impacts, such as loss of
- biodiversity (see Biodiversity), acceleration of soil erosion (see Soil health), and increased run-off and
- effluent pollution (see Water and effluents).
- People can be displaced due to physical changes to the landscapes surrounding their communities or
- degradation or depletion of natural resources or ecosystem services that the community relies on (see
- 585 Local communities and Land and resource rights). Loss of natural ecosystems and resources can
- 586 cause food insecurity. For indigenous peoples, it can result in loss of cultural and spiritual heritage
- and livelihoods. Natural ecosystem conversion also causes impacts on the rights of indigenous
- 588 people and local communities to self-determination and self-governance (see *Rights of indigenous*
- 589 peoples).

590

## What to report

- If the organization has identified natural ecosystem conversion as a <u>material topic</u>, this section lists
- the disclosures that have been identified as relevant for reporting on the topic by the agriculture,
- aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the	topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	Describe policies or commitments to reduce or eliminate natural ecosystem conversion from production in the



- organization's activities, including target and cut-off dates;<sup>3</sup>
- Report multi-stakeholder or sectoral initiatives intended to reduce or eliminate natural ecosystem conversion the organization participates in;
- Describe how the organization ensures that its <u>suppliers</u> comply with its natural ecosystem conversion policies and commitments, including through sourcing policies and contracts:
- Describe the tools and systems used for monitoring natural ecosystem conversion in the organization's own activities, business relationships, and sourcing locations.

#### **Additional sector disclosures**

Report the percentage of the total production from own activities and suppliers that has not caused or contributed to natural ecosystem conversion and methods for determining that, for example, certification, sourcing from low-risk jurisdictions, or sourcing from verified suppliers.

Report the percentage of the total production from own activities and suppliers, for which it is unknown whether it has caused or contributed to natural ecosystem conversion, and actions being taken to improve traceability.

Report the size in hectares, location, and <u>type</u> of the natural ecosystem on the land owned, leased, or managed by the organization, which has been converted since the appropriate cut-off date. *Note: Natural ecosystem type can be characterized by biome, vegetation type, and/or high conservation value status as relevant to region and regulatory context.* 

Size in hectares, location, and type of the natural ecosystem converted by suppliers or in sourcing areas since the appropriate cut-off date.

#### 594 Resources and references

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The intergovernmental instruments and references used to develop this topic description, as well as further resources that may be helpful for understanding and reporting on the topic by the agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 76.

**Note:** Appropriate cut-off dates may be selected based on cut-off dates of organization's policies, certification programs, sectoral/regional cut-off dates, legislation, and/or on availability of monitoring data. If an organization has not identified an appropriate cut-off date, then one should be calculated for the past five years.



<sup>&</sup>lt;sup>3</sup> A cut-off date is the past starting date of the period for which the organization reports on conversion, conversion after the cut-off date renders a product non-compliant with commitments and policies on natural ecosystem conversion.

## 2.5 Soil health

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- Soil health is the capacity of soil to function as a living ecosystem and to sustain plant and animal productivity, maintain or enhance water and air quality, and promote plant and animal
- 601 health. This topic covers impacts on soil health, including soil erosion, reduction in soil
- 602 fertility, salinization, and waterlogging.
- 603 Recent estimates suggest that 80% of land used for agriculture suffers from moderate to severe
- erosion. Although a naturally occurring process, soil erosion can accelerate greatly through
- agricultural activities, including removal of vegetation cover, tillage, soil compaction, and overgrazing
- by livestock, particularly when these practices are conducted on steep slopes in areas subjected to
- intense rainstorms or wind events.
- 608 In agriculture, original vegetation cover is removed to make land available for crop production or
- animal grazing. Agricultural crops rarely hold onto the topsoil as well as the original vegetation cover,
- 610 increasing soil erosion and potentially reducing soil fertility over time. Estimates show that half of the
- topsoil globally has been lost in the last 150 years.
- Soil erosion can also be accelerated by tillage. Conventional tillage inverts and breaks up the soil,
- destroys the soil structure, and buries crop residues. Minimum till or no-till methods reduce tillage
- area and/or tillage depth, as practiced in regenerative agriculture. Rates of soil erosion from
- agricultural fields exceed rates of soil formation at an estimate currently ranging between 10 to 20
- times higher when there is no tillage to over 100 times higher when conventional tillage is used.
- Tillage can also increase the soil's sensitivity to compaction, which can lead to impacts on soil
- 618 biodiversity. Tilled soils have less capacity to support loads applied to the ground and are
- 619 consequently more sensitive to compaction caused by agricultural machinery. A reduction in soil
- 620 carrying capacity can also come from overgrazing. Grazing livestock can cause impacts on soil
- structure through excessive defoliation, defecation, and trampling.
- 622 Fertilizers, both organic and inorganic, as well as pesticides have an impact on soil health (see
- Pesticides use). Excessive use of fertilizer can increase soil acidity levels. Pesticides use can impact
- 624 soil communities by influencing the performance of soil biota or modifying it. This can affect the entire
- 625 soil food web in terms of abundance and composition. Incorrect fertilizer and pesticide application
- 626 results in runoff to water, which can affect local communities, including indigenous peoples, and their
- human rights to health, food, clean water, and livelihoods.

## What to report

- If the organization has identified soil health as a <u>material topic</u>, this section lists the disclosures that
- have been identified as relevant for reporting on the topic by the agriculture, aquaculture, and fishing
- 631 sectors.

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Standard	Disclosure	Additional sector recommendations
Management of the	topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	Describe the soil management plan of the organization, including the approach to fertilizer application.

#### Resources and references

- The intergovernmental instruments and references used to develop this topic description, as well as
- further resources that may be helpful for understanding and reporting on the topic by the agriculture,
- aguaculture and fishing sectors are listed in the Bibliography on page 75.



## 2.6 Pesticides use

- 637 Pesticides are chemical or biological substances intended for repelling, destroying, or
- 638 controlling any pest or regulating plant growth. Pesticides include herbicides, insecticides,
- fungicides, nematicides, and rodenticides. This topic covers the impacts of pesticides use,
- including major impact of toxicity to target and non-target organisms.
- Pesticides can be used in crop, animal, and aquaculture production. Because pesticides are toxic,
- inadequately applying or managing them can induce health effects in humans, including on
- reproduction, immune, and nervous systems, as well as threaten food security and livelihoods.
- Toxicity depends on the pesticide's function and other factors, such as how it is used and disposed.
- Pesticides, usually with high toxicity, can be unregistered or banned in some countries but available in
- others. Pesticides with high toxicity can stay in soil and water for years, with long-term impacts on
- 647 <u>local communities</u>, including <u>indigenous peoples</u>, and the local environment. (see Waste and food
- 648 loss).

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- Pesticides can have negative impacts on biodiversity, for example, those targeting insects or weeds
- can be toxic to birds, fish, and non-targeted plants and insects (see *Biodiversity*). Pesticides also have
- the potential to contribute to greenhouse gas (GHG) emissions (see *Emissions*).
- 652 People at risk of being most affected are workers applying pesticides and others in the immediate
- area during or right after pesticides are spread. Exposure to pesticides of certain vulnerable groups,
- such as women and children, can be particularly dangerous. In some world regions, pregnant and
- 655 breastfeeding women may themselves be tasked with applying pesticides (see Occupational health
- 656 and safety and Local communities). General populations can be exposed to pesticide residue through
- 657 food and water (see Water and effluents and Food safety).
- In crop production, pesticides are widely used to protect or increase yields and the number of times
- 659 per year a crop can be grown on the same land. The Food and Agriculture Organization (FAO)
- estimates that in developing countries, 80% of the projected increase in food production needed to
- keep pace with population growth are projected to come from greater crop yields. This could trigger
- further intensification of pesticides use in an attempt to generate higher yields.
- In animal production, pesticides are used to control weeds and various pests, such as parasites. In
- aquaculture, pesticides are used to treat pests, such as lice, that can cause infections in fish.
- 665 Pesticides are usually administered via fish feed and water, which can have impacts on non-targeted
- species, such as crustaceans, resulting in biodiversity loss. Water contamination and accumulation of
- chemicals in fish targeted for human consumption can result in public health impacts. Even low levels
- of pesticide residue in water can cause chronic disease in humans.

#### What to report

- 670 If the organization has identified pesticides use as a material topic, this section lists the disclosures
- that have been identified as relevant for reporting on the topic by the agriculture, aquaculture, and
- 672 fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the	topic	



GRI 103: Material Topics	Disclosure MT-3 Management of material topics	-	Describe the pest management plan of the organization, including the rationale for the selection of chemicals and any other techniques of pest control.  Describe the training provided to workers on pest management and the application of pesticides.
Additional sector d	isclosures		<u> </u>

Report the volume and intensity of pesticides used, by type.

#### **Resources and references**

- This document does not represent an official position of the present and the p The intergovernmental instruments and references used to develop this topic description, as well as 674
- further resources that may be helpful for understanding and reporting on the topic by the agriculture, 675
- 676



## 2.7 Water and effluents

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- Recognized by the United Nations as a human right, access to freshwater is essential for human life and wellbeing. The amount of water withdrawn and consumed by an organization and the quality of its discharges can have impacts on ecosystems and people.
- The agriculture sector accounts for an estimated 70% of total water withdrawn globally. Withdrawn water is primarily used to irrigate land for crops. Water is also used for pesticide and fertilizer application, crop cooling, and frost control. In animal production, water is used for animal hydration and to clean animal housing and machinery, including milking equipment.
- Water has critical importance to agricultural productivity irrigated agriculture land is, on average, twice as productive per unit as non-irrigated land. Irrigation can be achieved through different methods, including surface irrigation, using gravity flow, sprinkler application, or subsurface irrigation. Water can be withdrawn from groundwater or surface water, such as lakes and reservoirs, or be in the form of treated wastewater or desalinated water. Intensive water withdrawal can decrease aquifer levels, which reduces the long-term sustainability of water resources and increases access cost for all users (see Local communities).
- Pesticide residues are frequently found in water bodies. Animal <u>effluents</u>, together with agricultural fertilizer and pesticide effluents, can contribute to pollution of surface and groundwater as well as lead to eutrophication and acidification of water, causing negative <u>impacts</u> on biodiversity. Water contamination can have impacts on the right to water and other human rights of people, including those of <u>local communities</u> and indigenous people, affecting their access to natural resources, health, and livelihoods.
- Impacts from aquaculture production include nutrient buildup in water bodies surrounding fish farms as a result of <u>discharges</u>. In high-density farms, high quantities of fish waste are discharged to water, potentially depleting oxygen levels and creating algal blooms that can lead to eutrophication.
- In fishing operations, wastewater can be discharged to sea from fishing vessels. This includes water used to store fish aboard the vessel, which can contain fish waste from fish gutting and bleeding as well as materials and coating from the hold itself and onboard refrigeration systems. Wastewater could also come from cleaning holds and machinery, containing detergents, and disinfectants.

## What to report

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If the organization has identified water and effluents as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the <u>topic</u> by the agriculture, aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the	topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	
Topic Standards di	sclosures	
GRI 303: Water and Effluents 2018	Disclosure 303-1 Interactions with water as a shared resource	
	Disclosure 303-2 Management of water discharge-related impacts	
	Disclosure 303-3 Water withdrawal	



Disclosure 303-4 Water discharge	The following additional sector recommendation is for organizations in the fishing sector:  Report total volume of water and effluents discharged by MARPOL categories and describe how these are disposed.
Disclosure 303-5 Water consumption	

#### **Resources and references** 709

- 710 GRI 303: Water and Effluents 2018 lists authoritative intergovernmental instruments and other sources relevant to reporting on this topic. 711
- The additional intergovernmental instruments and references used to develop this topic description, 712
- epc aphy on an arrival position of the present an official position of the present and the present 713 as well as further resources that may be helpful for understanding and reporting on the topic by the 714 agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 77.



## 2.8 Waste and food loss

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- 716 Waste refers to anything a holder discards, intends to discard, or is required to discard. When
- 717 inadequately managed, waste can have significant negative impacts on the environment and
- human health, extending beyond locations where waste is generated and discarded. This topic
- 719 covers impacts from waste, including products originally intended for human consumption as food.
- 721 Waste from organizations in the agriculture, aquaculture, and fishing sectors can include organic by-
- products, such as crop waste, animal waste and manure, animal carcasses, fish feces; and inorganic
- waste such as plastics; hazardous waste, and toxic waste, including pesticides and their containers;
- and materials from animal health products.
- 725 Organic by-products, including animal manure, have potential to be used as an energy source as
- 726 biomass or for animal feed, contributing to circularity measures. For example, by-products of
- 727 aguaculture and fishing operations can be turned into fishmeal and oil. Manure can be used as an
- 728 organic fertilizer, improving soil health. However, intensive animal production can often result in
- 729 output of more manure than a local area can absorb. If incinerated without energy recovery or
- 730 directed to landfill, organic by-products can turn into waste and cause significant environmental
- 731 <u>impacts</u>, including greenhouse gas (GHG) emissions, water pollution, and for terrestrial animals –
- impacts on soil health (see Water and effluents, Emissions and Soil health).
- 733 Organic waste from animals may contain microorganisms and parasite eggs. These pathogens can
- 734 spread in receiving environments and cause ill health and disease in humans. In aquaculture
- operations, fish feed and feces can long settle at the bottom of ponds or in inactive zones of raceways
- 736 as liquid or solid organic waste. Antimicrobial compounds can also be found in manure. Fish feces
- 737 may reach water bodies. A key way to minimize pollution and waste impacts from fish feces and
- 738 settleable solids is through water management (see Water and effluents).

#### **FOOD LOSS**

- In agriculture, aquaculture, and fishing production, organic waste streams that contain products originally intended as food for human consumption are categorized as food loss. The Food and Agriculture Organization (FAO) of the United Nations estimates that 13.8% of food, from harvest to retail, was lost globally in 2016.
- Food loss can be caused by inefficiencies at different stages of the supply chain. At the farm level,
- 745 they can be due to inadequate harvesting time, climatic conditions, harvest and handling practices,
- and challenges related to selling products. Losses during post-harvest activities and losses of by-
- 747 product can also be considered food loss, which can be accompanied by loss of resources including
- water, land, energy, labor, and capital and can contribute to greenhouse gas (GHG) emissions.
- 749 Measures to prevent food loss include adequate storage temperatures and conditions; sound
- 750 infrastructure; and efficient transportation and logistics. Primary processing conditions and packaging
- can play a role in preserving agriculture, aquaculture, and fishing products.
- 752 Aquaculture activities generate considerable amounts of plastic waste. Plastics are widely used for
- 753 equipment, including disposable gloves, and packaging various inputs, such as feed sacks and
- 754 wrapped consumables. Plastic can also be used in pond liners, harvest nets, pipework, buoys, ropes,
- 755 incubation jars, and containers. Discarded or abandoned plastic waste can contaminate the
- 756 surrounding environments and get into the ocean.
- 757 In fishing, plastics are used to make various marine tools, including floats, fishing nets and lines,
- 758 strapping bands, wire ropes, sails, and other manufactured items. Fish and marine animals
- 759 sometimes mistake plastic waste for food and get trapped in items, such as ropes, nets, and bags.
- 760 Lost or discarded fishing gear, known as ghost gear, can continue capturing species, contributing to
- overfishing and damaging benthic ecosystems. (see *Biodiversity*).
- 762 Incorrectly disposed inorganic materials, such as plastic waste, used bottles, and packages can have
- 763 lasting impacts on receiving environments. For example, chemical residue in packaging may leak into
- soil and water, causing long-term contamination. Contamination of agricultural land and natural



resources causes negative impacts on the health and safety of <u>local communities</u> and can impact the safety of food produced (see *Local communities*, *Rights of indigenous peoples*, and *Food safety*).

## What to report

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769 770 If the organization has identified waste and food loss as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the <u>topic</u> by the agriculture, aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the	e topic	1.7.7
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	Describe the policies and commitments to address food loss in the supply chain.
Topic Standards di	isclosures	
GRI 306: Waste 2020	Disclosure 306-1 Waste generation and significant waste-related impacts	5
	Disclosure 306-2 Management of significant waste-related impacts	
	Disclosure 306-3 Waste generated	The following additional sector recommendation is for organizations in the fishing sector:
	es not	<ul> <li>Report total volume of <u>waste</u> by MARPOL categories and how these are <u>disposed</u>.</li> </ul>
	Disclosure 306-4 Waste diverted from disposal	
	Disclosure 306-5 Waste directed to disposal	
Additional sector of	lisclosures	

# Resources and references

the methodology used for this calculation.4

GRI 306: Waste 2020 lists authoritative intergovernmental instruments and other sources relevant to reporting on this topic.

<sup>&</sup>lt;sup>4</sup> Further details and guidance on food loss percentage are available in Food and Agriculture Organization (FAO), <u>SDG 12.3.1: Global Food Loss Index</u>, 2018.



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The additional intergovernmental instruments and references used to develop this topic description, as well as further resources that may be helpful for understanding and reporting on the topic by the 776 agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 78.

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# 2.9 Food security

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- Food security means that people have physical and economic access to sufficient, safe, and nutritious food that is acceptable within a given culture, meets people's dietary needs, and food preferences for an active and healthy life. The right to adequate food is a human right and is crucial to the enjoyment of all rights. This topic covers impacts on the key dimensions of food security.
- People around the world face moderate to severe food insecurity, being unable to afford food or forced to consume insufficient or low-quality food. More than 820 million people already face hunger, and with population growth will come the growth of global food needs. Since 2014, undernourishment and food insecurity have increased worldwide, risking the achievement of SDG 2: Zero Hunger.
- The Food and Agriculture Organization (FAO) identifies multiple dimensions to food security: food availability, access, use, and stability; agency, understood as the capacity of individuals or groups to make their own decisions about what food they eat and how that food is produced; and sustainability.
  Organizations in the agriculture, aquaculture, and fishing sectors can have <u>impacts</u> on all of these dimensions, thus contributing to or undermining food security.<sup>5</sup>
- 792 Governments are moving to regulate food production with the objective of having a lower 793 environmental footprint and providing for more balanced, nutritious diets. This includes making 794 essential and nutritious foods more accessible and affordable, especially in low-income countries. 795 Agriculture, aquaculture, and fishing organizations can make decisions that ensure efficient use of resources while providing more food to people. Achieving food security is likely to involve trade-offs 796 797 related to land use and choices concerning diets being provided for. Organizations are more and 798 more expected to engage with governments and other stakeholders, including consumers about their 799 food production concerns.
- Globally, the amount of land used for agriculture is estimated at 38% of the total land surface. Some regions have constraints associated with using more land to expand food production (see *Natural* ecosystem conversion). To lessen the need to convert more land for agriculture use, organizations can improve management of cropland and grazing lands already in use.
- Maize, rice, and wheat serve as a basis of human diets globally, providing almost half of the world's calorie supply. However, competing demands for land, cultivation costs, and low margins could push out these essential crops. Climate change and adverse weather events can also cause impacts on yields, potentially increasing food losses and prices of critical crops (see *Climate adaptation and resilience*). Agriculture, aquaculture, and fishing organizations can have a role in ensuring stability of supply of essential foods.
- Many crops and fish <u>products</u> are used for animal and fish feed, though most of the time, these products are suitable for human consumption as food. The quarter of wild catch fish that the aquaculture sector uses as feed is deemed suitable for humans. Much of world's crops are used as feed for animal production, especially livestock.
- Compared with livestock products, aquaculture and fishing products are more efficient in terms of edible yields, proportion of an animal that can be used for human consumption, and feed conversion rates, measure of feed converted into animal weight gain, which in turn determines the use of natural

<sup>&</sup>lt;sup>5</sup> The World Food Summit Plan of Action of 1996 was adopted by 112 heads or deputy heads of state and government who committed to "implement policies aimed at eradicating poverty and inequality and improving physical and economic access by all, at all times, to sufficient, nutritionally adequate and safe food and its effective utilisation; and pursue participatory and sustainable food, agriculture, fisheries, forestry and rural development policies and practices in high and low potential areas, which are essential to adequate and reliable food supplies at the household, national, regional and global levels."



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resources, and the volume of food produced. About 70% of Earth is covered by ocean, providing space for operations involving aquaculture and fishing products, both of which are a source of protein and essential micronutrients. However, only about 2% of global food supply comes from the sea, indicating the potential to fill gaps in nutrition and food security.

Quantity, quality, and accessibility of food also depend on farming and fishing practices. While intensive crop and animal production can result in increased availability of food in the short term, it is associated with negative impacts on the environment and has a potential impact on the availability of food in the longer term. In many agricultural systems in the world, soil nutrients are currently depleting more quickly than they are formed, undermining the sustainability dimension of food security (see *Soil health*).

Regenerative and organic practices, such as rotating crops, planting at optimal times, and applying manure instead of nonorganic fertilizers, are considered to have a potential to contribute to greater soil health and productivity and resilience of food production.

#### What to report

If the organization has identified food security as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the <u>topic</u> by the agriculture, aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the	topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	<ul> <li>Describe commitments to ensure that the organization's operations contribute to food security or nutrition;</li> <li>Describe the actions and programs of the organization on food security and nutrition, including an explanation of their relevance to local, regional, national, or global food security and the effectiveness of these actions and programs;</li> <li>Report partnerships which the organization is part of that address food security or nutrition, including engagement with governments.</li> </ul>

#### Resources and references

The intergovernmental instruments and references used to develop this topic description, as well as further resources that may be helpful for understanding and reporting on the topic by the agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 78.



## 2.10 Food safety

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Food safety concerns the production, primary processing, storage and transportation of food and feed products in a way that prevents food-borne illness. This topic addresses an organization's efforts to prevent contamination and ensure safety of food, including through

adherence to food safety regulations and voluntary codes.

According to the World Health Organization (WHO), an estimated 600 million people worldwide fall ill after eating contaminated food each year, resulting in 420,000 deaths. Besides threatening public health and wellbeing, food safety <u>impacts</u> can have consequences on <u>local communities</u> (see *Local communities*). These, in turn, can have impacts on the economy, the environment, or people, including outcomes on local and global scales through loss of economic activity.

Environmental contamination is a driver of food safety impacts. Main sources of contamination from agriculture, aquaculture, and fishing activities include pollution in water, soil, or air used by crops or animals. Contamination can also be caused by inadequate management of crops or animals during their growth, harvest, catch, or <u>products'</u> primary processing and storage. Contamination can lead to food containing harmful bacteria, such as salmonella, listeriosis, and campylobacter, viruses, parasites, or chemical substances, which can cause ill health in humans.

Substances used in agriculture and aquaculture that can impact food safety are antimicrobials, pesticides, heavy metals, microplastics, and other micropollutants (see Pesticides use and Animal health and welfare). Globally, antimicrobials, such as chemicals and antibiotics, are widely used in terrestrial and aquatic animal production to address animal health and animal welfare, sometimes to enhance animal growth rates and productivity. Demands on global food systems has led into an increase in the use of antimicrobials to improve food production. These high volumes can contribute to the development of antimicrobial-resistant bacteria, particularly in settings of intensive animal production. The WHO identifies antimicrobial resistance as one of today's biggest threats to global health, food safety, and human development. Addressing antimicrobial resistance requires adequate animal health and welfare standards and biosecurity controls.

Because food and feed products grown or caught in one world region can supply customers in another, impacts on food safety can emerge as local issues but then evolve into global issues, such as contamination or an outbreak of foodborne illness. This highlights the importance of effective and compelling food safety requirements and standards (see *Supply chain traceability*).

#### What to report

If the organization has identified food safety as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the <u>topic</u> by the agriculture, aquaculture, and fishing <u>sectors</u>.

Standard	Disclosure	Additional sector recommendations
Management of the	topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	<ul> <li>Describe the use and commitments to use of food certification and assurance schemes that define standards for food safety.</li> <li>Report compliance with national and international standards in relation to food safety.</li> </ul>
Topic Standards disclosures		
GRI 416: Customer Health and Safety 2016	Disclosure 416-1 Assessment of the health and safety impacts of product and service categories	



Disclosure 416-2 Incidents of noncompliance concerning the health and safety impacts of products and services

#### Additional sector disclosures

Report the percentage of products sourced from <u>suppliers</u> certified by Global Food Safety Initiative (GFSI) or a recognized food safety certification programs.

Report the number of GFSI audits passed.

Report the number of recalls issued for food safety reasons and total volume of product recalled.

#### 872 Resources and references

873 *GRI 416: Customer Health and Safety 2016* lists authoritative intergovernmental instruments and other sources relevant to reporting on this topic.

The additional intergovernmental instruments and references used to develop this topic description, as well as further resources that may be helpful for understanding and reporting on the topic by the agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 79.



## 2.11 Animal health and welfare

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- Animal health and welfare refers to the physical and mental state of an animal in relation to the conditions in which it lives and dies. The 'Five Freedoms' of animal welfare are freedom from hunger and thirst; freedom from discomfort; freedom from pain, freedom injury, and disease; freedom to express normal behavior; and freedom from fear and distress.
- Each year over 60 billion terrestrial animals are reared worldwide. That figure is set to double by 2050 due to potential increases in consumption of animal protein. Aquaculture farms produce 52 million tons of aquatic animals, which now represent half of all seafood consumed by humans worldwide.

  Animal health and welfare is crucial for agriculture, aquaculture, and fishing not only for ethical reasons, but also to ensure productivity. Activities that have significant impacts on animal health and welfare include breeding, rearing or catching, feeding, and grazing; harvesting eggs, milking; transporting; and slaughtering.
- Animal health management focuses on controlling potential impacts on health and preventing disease. This can include use of antibiotics, anti-inflammatory and hormone treatments. To avoid negative impacts on animal and human health, these substances should be applied with prudence and only when necessary.
- On-farm husbandry practices such as dehorning, hot-iron branding, castration, tail docking, and debeaking have been associated with pain and distress. Slaughter practices can also be major sources of pain, discomfort, and stress. Many countries require pre-slaughter stunning to render an animal unconscious. Slaughter methods can also vary according to cultural, social, and religious influences.
- Negative impacts on animal health and welfare can be caused by conditions animals are kept in. For example, terrestrial animals can be confined to small spaces, cages, and crates, or left untreated for disease or injuries, preventing movement, and making them unable to express normal behavior.
- In aquaculture, water quality, stock density, and rearing environment can have impacts on fish health and welfare. In both aquaculture and fishing, the most prevalent slaughter methods are asphyxiation, carbon dioxide stunning, and ice chilling. According to the World Organisation for Animal Health (OIE), these methods lead to poor fish welfare, failing to meet standards set out in its terrestrial and aquatic animal health codes.
- Genetic modification can be performed on terrestrial and aquatic animals to ensure their fast growth and greater productivity. However, genetic modification must be undertaken in a manner that prevents negative impacts on animal health and welfare
- Inadequate animal health and welfare practices can increase spread of zoonotic diseases, such as salmonellosis, swine flu, and bird flu. This can occur through, for example, movement and trade of animals and animal <u>products</u> without proper controls. Animal health issues can cause impacts on food safety through the presence of infected animal products or residues of substances used on animals, including antimicrobials and pesticides (See *Pesticides use* and *Food safety*).

## What to report

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916 If the organization has identified animal health and welfare as a <u>material topic</u>, this section lists the 917 disclosures that have been identified as relevant for reporting on the <u>topic</u> by the agriculture, 918 aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the topic		
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	When reporting on the management of animal health and welfare, the organization should report:



- Describe the policies regarding processing of animal products, animal transportation, handling, and slaughter;
- Describe the approach to animal health planning and involvement of veterinarians, including the approach to using anesthetic, antibiotic, antiinflammatory hormone, and growthpromotion treatments for each species and breed produced by the organization.
- List the animal health and welfare certifications or schemes implemented.
- Describe the assessments and audits of animal health and welfare.

#### Additional sector disclosures

Report the veterinary care record outlining the total volume of anesthetic, antibiotic, antiinflammatory, hormone, and/or growth-promotion treatments administered, by species and breed.

#### 919 Resources and references

- The intergovernmental instruments and references used to develop this topic description, as well as
- 921 further resources that may be helpful for understanding and reporting on the topic by the agriculture,
- aquaculture and fishing sectors are listed in the Bibliography on page 79.



#### 2.12 Local communities

- 924 Local communities can comprise individuals or groups of individuals living or working in areas that are affected or that could be affected by an organization's activities. An organization 925 is expected to conduct community engagement to understand the vulnerabilities of local 926 communities and how they may be affected by the organization's activities. This topic covers
- 927 928 socioeconomic, cultural, health, and human rights impacts on local communities.
- 929 Agriculture, aquaculture, and fishing organization can have various actual and potential impacts on 930 local communities. Among significant impact sources is non-recognition of their land and resource 931 rights (see Land and resource rights). Land use by organizations in the agriculture, aquaculture, and
- 932 fishing sectors can restrict communities' access to land and natural resources, and cause
- 933 displacement. Communities can be resettled to other areas, which are not always equivalent in terms 934 of soil quality, suitability for agriculture, access to services, or cultural and social significance. In cases
- 935 of lost access to areas for cultural, economic, or leisure purposes, compensation may be provided but 936 it is not always adequate.
- 937 Local communities can also experience significant economic and environmental impacts from the 938 extensive use of groundwater for irrigation in agriculture operations. Groundwater depletion can 939 create a need for deepening wells, which in turn increases the energy that adjacent areas need to
- 940 pump water to the surface for irrigating crops and individual purposes. Communities might then face 941 depleted water sources or need to import water (see Water and effluents).
- Inadequate management or disposal of hazardous substances, such as pesticides, can impact the 942
- environment, food safety, and health of communities living in proximity to operations, such as 943
- plantations, Cases of acute pesticide poisoning (APP) account for significant mortality worldwide, 944
- 945 especially in developing countries (see Pesticides use).6
- 946 Gases released from manure and organic waste contribute to air pollution and odors, causing
- 947 negative impacts on local communities near agriculture and aquaculture operations (see Emissions
- 948 and Waste and food loss). Related unpleasant odors and poor air quality can induce higher stress
- 949 levels and negative health effects in people.
- Although organizations in these sectors are often major employers in rural areas, creating jobs and 950
- 951 providing income for communities, the majority of those who suffer from food insecurity and poverty
- 952 live in these rural areas. Lack of income and negative impacts on land, water, and biodiversity can
- 953 cause vulnerability or compel rural communities to migrate to urban areas (see Economic inclusion
- 954 and Living income).
- 955 Within local communities, vulnerable groups such as women, children, migrant workers, and their
- families can be disproportionately affected by agriculture, aquaculture, and fishing operations. Such 956
- groups often lack a voice as they can be regularly discriminated against and be a minority in decision-957
- making and planning, with can increase the likelihood of negative impacts on their rights. 958
- 959 To minimize negative impacts on human rights, agriculture, aguaculture, and fishing organizations are
- 960 expected to account for the heterogeneity of local communities and take specific action to identify and
- 961 engage with vulnerable groups (see Rights of indigenous peoples and Non-discrimination and equal
- opportunity). Community engagement, consultations, and grievance mechanisms can play important 962
- 963 roles in mitigating negative impacts.

<sup>6</sup> WHO estimates that worldwide exposure to pesticides causes an annual 20,000 deaths and at least 3 million cases of acute poisoning. World Health Organization, Acute pesticide poisoning: a proposed classification tool, 2008.



## What to report

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If the organization has identified local communities as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the <u>topic</u> by the agriculture, aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations	
Management of the	topic		
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	SSB	
Topic Standards di	Topic Standards disclosures		
GRI 413: Local Communities 2016	Disclosure 413-1 Operations with local community engagement, impact assessments, and development programs		
	Disclosure 413-2 Operations with significant actual and potential negative impacts on local communities	ialpositi	

#### Resources and references

- 969 *GRI 413: Local Communities 2016* lists authoritative intergovernmental instruments and other sources 770 relevant to reporting on this topic.
- The additional intergovernmental instruments and references used to develop this topic description, as well as further resources that may be helpful for understanding and reporting on the topic by the agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 80.



# 2.13 Land and resource rights

- Land and resource rights encompass the rights to use, manage and control land, fisheries,
   forests, and other natural resources. Organizations can have impacts on the availability and
   accessibility of these to local communities and other users. This topic covers impacts from an
   organization's use of land and natural resources on human rights and tenure rights.
- The process by which individuals, communities, and organizations acquire rights and associated duties to use and control lands, fisheries, forests, and other natural resources varies according to national jurisdictions' governance of land tenure and natural resources. Forms of tenure can include
- 982 public, private, communal, collective, indigenous, and customary tenure. In some countries, informal
- tenure can amount to 80 to 90% of total land, which means those living on this land might lack formal rights and legal protection.
- According to the Committee on World Food Security's Voluntary Guidelines on Tenure of Land,
  Fisheries and Forests (VGGT), human rights including people's civil, political, economic, social and
  cultural rights are associated with access to and use of land, fisheries, and forests. Agriculture,
  aquaculture, and fishing organizations can be granted land concessions over territories; if they accept
  them without undertaking impact assessment and prior consultation, organizations may infringe on
- human rights. Restrictions and physical barriers imposed on access to land and resources through
- 991 fencing, landscape engineering, roads, and drainage works that block or divert routes also can cause
- 992 negative impacts on people's rights.
- 993 Lack of recognition of customary claim to lands, territories, and fishing resources whether or not
- they are formally titled or legally registered is a common cause of land and natural resource
- 995 conflicts. Rights holders who are most commonly affected by these conflicts include farmers and
- 996 fishers and their organizations, forest users, pastoralists, indigenous peoples, local communities, and
- 997 civil society representatives defending land rights (see *Rights of indigenous people* and *Local*
- 998 communities).

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## **HUMAN RIGHTS OF LAND RIGHTS DEFENDERS**

- Situations of conflict can jeopardize the rights of those who defend the rights related to land and fisheries, including those of indigenous peoples. More and more land rights defenders, smallholder farmers, indigenous community leaders, media, and civil society representative active on these issues have become victims of violence or prosecution. United Nations bodies including special rapporteurs on human rights defenders, on the right to food, and on indigenous peoples have reported on violations of defenders' rights. In some cases, these violations are related to disputed land acquisitions through commercial agriculture.
- Unlike in aquaculture, fish captured in the wild is usually a common property resource. Fishery
- resource rights concern access to ports, waters, high seas, and catch quotas; coastal fishing rights concern access to fish and other aquatic animals in coastal areas where they are captured, the
- 1010 quantity of catch, and how long these rights are applicable. Commercial fishing vessels, illegally
- 1011 accessing fishing zones that are reserved for small-scale fishers, can displace small boats or destroy
- 1012 fish breeding habitats, forcing the fish to migrate.
- 1013 Fishers and fishing communities are legitimate rights holders when it comes to the use of fishery
- 1014 resources and entire ecosystem. Fishing organizations are expected to duly engage fishers in fishery
- 1015 management.
- 1016 Agriculture, aquaculture, and fishing organizations are expected to identify legitimate rights holders
- 1017 through their own assessments and ensure independent verification of assessment results. These
- 1018 organizations can also have a positive impact when it comes to securing land tenure and access to
- natural resources by requiring their suppliers to respect such rights.

#### What to report

- If the organization has identified land and resource rights as a material topic, this section lists the
- 1022 disclosures that have been identified as relevant for reporting on the topic by the agriculture,
- 1023 aquaculture, and fishing sectors.



Standard	Disclosure	Additional sector recommendations
Management of the	topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	<ul> <li>Describe the commitments of the organization to respect communities' and indigenous peoples' land rights, including traditional, customary, and use rights, and report the extent to which the commitments apply to the organization's activities and to its business relationships.</li> <li>Describe whether and how the organization's commitments to respect communities' and indigenous peoples' land rights are implemented with suppliers.</li> </ul>
		The following additional sector recommendation is for organizations in the fishing sector:
		<ul> <li>Describe the consultation process on fishery management with legitimate representatives of fishing communities concerned with the use of fishery resources.</li> </ul>

#### Additional sector disclosures

Describe the criteria used to determine operations where land tenure and access to natural resources cannot be assured or are at risk and the countries identified that meet the criteria.

List the operations and suppliers whose rights associated with land tenure and access to natural resource cannot be assured or are at risk.

List affected and potentially affected rights holders due to the organization's use of land and natural resources (e.g., indigenous peoples, local communities, and types of workers in or around the organization's locations of operation).

Report the number, size, and percentage of operational sites owned, leased, and managed where violations of any tenure rights, including customary, collective, and informal tenure rights, occurred.

#### Resources and references

The additional intergovernmental instruments and references used to develop this topic description, as well as further resources that may be helpful for understanding and reporting on the topic by the

1027 agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 81.



# 2.14 Rights of indigenous peoples

- 1029 Indigenous peoples have both collective and individual rights, as set out in UN Declaration on
- the Rights of Indigenous Peoples and other international human rights instruments. 1030
- 1031 Indigenous peoples are considered a vulnerable group that could experience negative impacts 1032 as a result of an organization's activities more severely than the general population. This topic
- 1033 covers impacts on the rights of indigenous peoples.
- 1034 Fundamental rights of self-determination and non-discrimination mandate equal respect for
- 1035 indigenous peoples' collective rights, including those concerning property, as well as their individual
- 1036 rights. Indigenous peoples find deep cultural and spiritual value in their lands and territories, and often
- depend on natural resources for subsistence. These communities frequently lack formal collective 1037
- 1038 ownership rights over the land and resources they customarily own, occupy, or use. Their customary
- 1039 land, territory, and resource rights are communal and collective, meaning they independently govern
- 1040 their lands, fisheries, and forests through collective communal participation. Customary rights - a
- 1041 cornerstone of the rights of indigenous peoples under international law – are frequently not
- 1042 recognized in practice, leading to rights violations.
- Many indigenous fishing communities also face challenges because their rights to use fishery 1043
- 1044 resources are of a customary or traditional nature. These communities consume several times more
- 1045 fish than average because they rely on it as their main source of food. Fish also has a central role in
- 1046 their cultures and traditional practices. Degradation of local aquatic and coastal natural ecosystems,
- 1047 overfishing, stocks depletion, competition for catch, and impacts on access to fish associated with
- commercial fishing operations can threaten indigenous peoples' livelihoods and traditional fishing 1048
- 1049 practices.

- 1050 When agriculture, aquaculture, and fishing operations expand into indigenous peoples' territories
- 1051 without obtaining free, prior, and informed consent, their rights to land and natural resources and their
- 1052 human rights are violated. Indigenous communities may be forcibly removed from their homes, farms,
- 1053 and forests to clear space for sectors' activities. Conflicts involving indigenous peoples and 1054
- organizations in the agriculture, aquaculture, and fishing sectors are on the rise, leading to 1055
- discrimination, displacement, loss of livelihood, income insecurity. In extreme cases, such conflicts
- have led to threats, intimidation, violence, and loss of life. 1056
- 1057 When disputes take place, indigenous communities regularly lack legal support and access to
- 1058 remedy. This can lead to unfair compensation for lost land access and natural resources, income
- 1059 insecurity, marginalization of indigenous communities, and other severe impacts on human rights.
- 1060 Natural ecosystem conversion can irreversibly damage traditional activities, such as hunting, fishing,
- 1061 and farming, thus threatening indigenous peoples' livelihoods and survival. Water impacts caused by
- agriculture and aquaculture organizations can jeopardize their ability to practice traditional agriculture 1062
- 1063 and limit indigenous people's water access and use. Impacts from waste, including hazardous waste
- 1064 from pesticides, can lead to pollution and contamination of indigenous land and natural resources.
- negatively affecting the right to health and food security. 1065
- 1066 Because of the close relationship with environment and dependence on natural resources, indigenous
- 1067 peoples are particularly affected by climate change. They are forced adapt their farming and fishing
- practices and lifestyles to extreme weather events, change in availability of traditional food sources, 1068
- 1069 and decreased crop yields. Climate change can further exacerbate the vulnerability of indigenous 1070 communities and impacts on their human rights (see Biodiversity and Climate adaptation and
- 1071 resilience).



## What to report

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If the organization has identified rights of indigenous peoples as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the <u>topic</u> by the agriculture, aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the	topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	Describe the approach to free, prior, and informed consent and the other rights as set out in the UN Declaration on the Rights of Indigenous Peoples and the International Labour Organization Convention 169 'Indigenous and Tribal Peoples'.
Topic Standards disclosures		
GRI 411: Rights of Indigenous People 2016	Disclosure 411-1 Incidents of violations involving rights of indigenous peoples	, oosilile

## 1076 Resources and references

1077 GRI 411: Rights of Indigenous People 2016 lists authoritative intergovernmental instruments and
 1078 other sources relevant to reporting on this topic.

The additional intergovernmental instruments and references used to develop this topic description, as well as further resources that may be helpful for understanding and reporting on the topic by the agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 81.



# 2.15 Non-discrimination and equal opportunity

- Freedom from discrimination is a human right and a fundamental right at work. Discrimination can impose unequal burdens on individuals or deny them opportunities instead of treating them fairly and on the basis of individual merit. Discrimination can occur on the grounds of race, color, sex, religion, political opinion, national extraction, social origin, age, disability, migrant status, and/or gender. This topic covers impacts from discrimination and an organization's practices related to equal opportunity.
- Many agriculture, aquaculture, and fishing workers are self-employed, informally employed, and do not have job security. These categories of workers often lack adequate labor standards and face discrimination. For example, seasonal and casual workers might not enjoy the same rights or treatment when it comes to work of equal value, benefits, and paid leave.
- The agriculture, aquaculture, and fishing sectors commonly use migrant labor, including temporary migrant labor. Because of their migrant status, migrant workers and their families may face discriminatory practices when it comes to <u>remuneration</u>, provision of healthcare, and employment protection. In fishing, vessel crews are typically subject to discriminatory pay based on nationality. Undocumented migrant workers can be even more vulnerable to labor abuses (see *Forced labor* and *Employment practices*).
- For indigenous workers, characteristics that deviate from the majority group's social practices, such as what languages they speak or what clothing they wear, can lead to employment discrimination in the sectors. Indigenous women can face discrimination on the grounds of both ethnicity and gender.
- In many countries, people living in rural areas including smallholder farmers, landless workers, and communities living from traditional agriculture, aquaculture, and fishing activities can experience discriminatory treatment. For example, they may inherit historic inequality in accessing land or be pushed to remote and less fertile lands, thus lacking opportunities to provide for themselves. As a consequence, people form these groups can be more vulnerable to labor exploitation and human rights violations.
- Gender discrimination often disadvantages women working in agriculture, aquaculture, and fishing. 1108 1109 Discrimination may be reflected in women's poorer working conditions, unequal opportunities, and lower wages than those of men. Women are more frequently involved in lower-paid or less secure 1110  $\Pi\Pi\Pi$ forms of employment, such as seasonal, casual, or part-time. Women are also likelier to perform what 1112 sectors may characterize as 'light work', such as spraying pesticides in agriculture, which is deemed work of lower value. In fishing, women play crucial roles throughout the value chain, working for both 1113 1114 commercial and small-scale fisheries, though in most of the world, women are less involved in 1115 offshore and long-distance capture fishing, which usually pays more.
- Women rarely get to be involved in cooperatives and farmer organizations. This means that their access to processing facilities, improved technologies, and agricultural inputs, such as seeds, fertilizers, and machinery, can be much more limited than that of men. Women may then receive lower earnings and have smaller yields despite working more hours per year than men.
- Discrimination against women in the agriculture, aquaculture, and fishing sectors can also include gender-based violence and harassment. Seasonal work and informal work arrangements can render women even more vulnerable to sexual violence and other abuses.

#### **WOMEN'S RIGHTS**

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- The majority of economically active women in low-income countries work in agriculture. In many countries, women do not have the same rights as men or, even if they do legally, the rights go unrecognized. These include rights to buy, sell, or inherit land; to open a savings account or borrow money; to sign a contract; and to sell their produce.
- Traditional gender roles can restrict women's freedom of movement and prevent them from bringing their produce to market or leaving their villages without the permission of male relatives. Social conventions and gender norms often regard women's work activities and output as part of their traditional caretaking role rather than as participation in the market economy, thus underestimating
- their economic contribution. Women in these situations do not enjoy the right to the same decent standard of living as men.



Women can also be denied their rights when it comes to maternity protection. Benefits such as maternity leave and childcare allowance might be inaccessible for women in the agriculture, aquaculture, and fishing sectors. As a result, they might be pressed to hide or terminate their pregnancies.

## 1138 What to report

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If the organization has identified non-discrimination and equal opportunity as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the <u>topic</u> by the agriculture, aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the	topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	OF HITE
Topic Standards di	sclosures	
GRI 405: Diversity and Equal	Disclosure 405-1 Diversity of governance bodies and employees	ositi
Opportunity 2016	Disclosure 405-2 Ratio of basic salary and remuneration of women to men	Report the ratio of <u>basic salary</u> and <u>remuneration</u> of women to men for workers (excluding employees).
GRI 406: Non- discrimination 2016	Disclosure 406-1 Incidents of discrimination and corrective actions taken	

#### Resources and references

I 143 GRI 405: Diversity and Equal Opportunity 2016 and GRI 406: Non-discrimination 2016 list
 I 144 authoritative intergovernmental instruments and other sources relevant to reporting on this topic.

The additional intergovernmental instruments and references used to develop this topic description,

as well as further resources that may be helpful for understanding and reporting on the topic by the

1147 agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 82.



## 2.16 Forced labor

- 1149 Forced labor is work or service which is exacted under the menace of penalty and for which a
- 1150 person has not offered themselves voluntarily. Freedom from forced labor is a fundamental
- 1151 right at work.

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- The International Labour Organization (ILO) has identified the agriculture, aquaculture, and fishing
- 1153 sectors as highly susceptible to forced labor. Forced labor has been documented in the supply chains
- 1154 of most agricultural products. The sector is labor-intensive and has increased demand for seasonal
- 1155 workers, often filled by recruitment agencies.
- 1156 Agriculture, aquaculture, and fishing workers are unlikely to be unionized, often earn less, and have
- 1157 fewer skills than workers in other sectors. National labor laws do not always extend labor protections
- 1158 to smallholder agricultural workers, small-scale fishers, or the seasonal and casual workers commonly
- 1159 employed in the sector, leaving them vulnerable to forced labor (see *Employment practices*). These
- 1160 workers can face abusive labor practices, non-payment or late payment of wages, restrictions on the
- 1161 freedom of movement, violence, threats, and human trafficking.
- Forced labor in crop and animal production can take place on plantations and farms, which are often
- located in low-income rural areas, exacerbating the likelihood of forced labor. Agriculture,
- 1164 aquaculture, and fishing workers can become indebted to their employers due to fees owed for job
- access or getting accommodations; additionally, employers can use debt bondage to prevent workers
- 1166 from leaving.
- Migrant workers, who often fill the need for labor in the sectors, are likelier to work under conditions of
- 1168 coercion and involuntariness. They may have their passports or identification documents taken away
- 1169 from them. Undocumented migrant workers can also be forced or coerced into illegal farming or
- 1170 fishing operations, carrying high risks for their health and safety.
- Eliminating forced labor and enforcing workers' rights can require additional effort in the fishing sector,
- because fishing vessels regularly operate offshore or under the flag of a country far removed from
- 1173 where they are fishing. Fishing workers may be migrants from lower-income countries and can often
- be working without an employment contract. The fishing sector also regularly relies on recruitment
- agencies to procure workers, often operating with little oversight from regulatory bodies.
- Fishing operations increasingly serve the global market. The pressure to deliver higher volumes of
- 1177 product while keeping labor costs low can contribute to the likelihood of abusive labor practices and
- 1178 forced labor.

#### What to report

- If the organization has identified forced labor as a material topic, this section lists the disclosures that
- 1181 have been identified as relevant for reporting on the topic by the agriculture, aquaculture, and fishing
- 1182 sectors.

Standard	Disclosure	Additional sector recommendations	
Management of the	topic		
GRI 103: Material Topics	Disclosure MT-3 Management of material topics		
Topic Standards di	Topic Standards disclosures		
GRI 409: Forced or Compulsory Labor 2016	Disclosure 409-1 Operations and suppliers at significant risk for incidents of forced or compulsory labor		



#### Resources and references

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1184 GRI 409: Forced or Compulsory Labor 2016 lists authoritative intergovernmental instruments and other sources relevant to reporting on this topic. 1185

The additional intergovernmental instruments and references used to develop this topic description, 1186 as well as further resources that may be helpful for understanding and reporting on the topic by the 1187

agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 82.

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## 2.17 Child labor

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- Child labor is work that 'deprives children of their childhood, their potential and their dignity, and that is harmful to their physical or mental development including by interfering with their
- education. Freedom from child labor is a fundamental human right.
- Across all <u>sectors</u>, agriculture, aquaculture, and fishing have the highest share of <u>child</u> labor. More
- than two thirds of the world's child workers are in the agriculture, aquaculture, and fishing sectors;
- among those aged five to 11, this share is even higher. Most children work unpaid in family farming,
- less than one third are paid workers. In some parts of the world, child labor may be socially
- 1197 acceptable or expected, contributing to the propagation of the practice.
- In low-income countries families might rely on the income of a working child. Families can also involve
- 1199 their children in work when they cannot afford the cost of hiring additional labor. This does little to lift a
- 1200 family out of poverty and can have negative impacts on the child's potential to grow and develop.
- Large parts of the agriculture, aquaculture, and fishing sectors involve informal work, which increases
- the likelihood of child labor and the ease with which children are hired. Child workers are paid less
- than adults but might have higher productivity, which some employers find financially advantageous.
- 1204 Seasonal migration presents additional risks of child labor. Seasonal workers and migrant families
- 1205 may bring their children with them to work. The nature of seasonal work in agriculture, particularly
- 1206 harvesting, raises the likelihood of children being removed from school in order to work, which
- 1207 threatens their right to education. If schooling is interrupted or even if children have access to
- schooling at their destination, it can be difficult for them to rejoin their formal education system upon
- return from work. Education is an important means to keep children out of child labor, especially in
- 1210 rural areas.
- 1211 Children working in agriculture, aquaculture, and fishing frequently perform tasks suited only for
- adults. These tasks and other forms of hazardous work are likely to put their health or development at
- risk. In the agriculture sector, for example, child workers can be tasked with applying pesticides.
- 1214 Pesticides can be extremely dangerous for children, as their bodies are highly vulnerable to toxins;
- 1215 chronic exposure to pesticides can lead to childhood cancers, poor cognitive processes, and
- development issues. Children may also have to operate dangerous tools, for example, when working
- 1217 as sugarcane cutters.
- 1218 In animal production, children may be designated to take care of animals and perform labor-intensive
- 1219 tasks. Because animal production activities are ongoing involving cleaning animals and their
- 1220 housing, collecting water, feeding, and milking children can rarely combine this type of work with
- 1221 schooling.
- In aquaculture and fishing, children are engaged to work throughout the supply chain, catching fish
- and sea products, processing, and selling. Fishing communities often have few sources of income,

<sup>7</sup> U.S. Department of Labor. A 2018 List of Goods Produced by Child Labor or Forced Labor. 2018, p.11-14: Child labor in crop production has been documented in cases involving bananas in Belize, Brazil, Ecuador, Nicaragua, and the Philippines; beans in Mexico and Paraguay; citrus in Belize and Turkey; cocoa in Brazil, Cameroon, Ghana, Guinea, and Sierra Leone; coffee in Brazil, Colombia, Costa Rica, Dominican Republic, El Salvador, Guatemala, Guinea, Honduras, Kenya, Mexico, Nicaragua, Panama, Sierra Leone, Tanzania, Uganda, and Vietnam; rice in Brazil, Dominican Republic, Kenya, the Philippines, Uganda, and Vietnam. Child labor in animal production has been documented in cases involving beef in Brazil; cattle in Chad, Costa Rica, El Salvador, Ethiopia, Lesotho, Mauritania, Namibia, Uganda, and Zambia. Child labor in aquaculture has been documented in cases involving fish in Brazil, Cambodia, Kenya, Paraguay, Peru, Philippines, Uganda, Vietnam, and Yemen; and shellfish in El Salvador and Nicaragua; and shrimp in Bangladesh and Cambodia.



- and child labor is frequently used to provide subsistence. Children might be subjected to the common
- 1225 hazardous working conditions in these sector, including working long hours and nightshifts.
- 1226 A quarter of child workers fall victim to forced labor (see Forced labor). This can happen when, for
- 1227 example, labor brokers recruit and force them to travel far from home. In cases of debt bondage to an
- 1228 employer, parents might have their children work alongside themselves. The International Labour
- 1229 Organization (ILO) identifies hazardous child labor and forced child labor as worst forms of child labor.

## What to report

- 1231 If the organization has identified child labor as a <u>material topic</u>, this section lists the disclosures that
- have been identified as relevant for reporting on the topic by the agriculture, aquaculture, and fishing
- 1233 sectors.

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Standard	Disclosure	Additional sector recommendations	
Management of the	e topic		
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	ition	
Topic Standards di	Topic Standards disclosures		
GRI 408: Child Labor 2016	Disclosure 408-1 Operations and suppliers at significant risk for incidents of child labor	Hicial	

#### Resources and references

- 1235 GRI 408: Child Labor 2016 lists authoritative intergovernmental instruments and other sources
- relevant to reporting on this topic.
- 1237 The additional intergovernmental instruments and references used to develop this topic description,
- 1238 as well as further resources that may be helpful for understanding and reporting on the topic by the
- agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 83.



# 2.18 Freedom of association and collective bargaining

- Freedom of association and collective bargaining include the rights of employers and workers 1241
- to form, join, and run their own organizations without prior authorization or interference as 1242
- well as the right of workers to collectively negotiate working conditions and terms of 1243
- 1244 employment. Freedom of association and collective bargaining are fundamental rights at work.
- 1245 Many agriculture, aquaculture, and fishing workers' rights to freedom of association and collective
- bargaining remain at risk. In many countries, workers in these sectors are still denied their rights to 1246
- 1247 organize and bargain collectively.

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- 1248 Low income, informal employment, family labor, migrant, seasonal, and casual work as well as
- 1249 asymmetric power of employees - all of which are common in the agriculture, aquaculture, and fishing
- sectors create barriers to exercising the right to freedom of association and collective bargaining. 1250
- This can exacerbate impacts on workers who already face increased work-related vulnerabilities and 1251
- 1252 isolation (see Employment practices).
- 1253 While it is more common for workers in large commercial agriculture, aquaculture, and fishing
- 1254 operations to be represented by trade unions and covered by collective agreements, still only a small
- 1255 percentage of workers in these sectors are organized. Trade unions have reported restrictions being
- placed on temporary workers or workers employed by their suppliers to effectively access the same 1256
- rights as employees. Organizations preventing unionization of workers in the sectors is a recurring 1257
- issue. Other negative impacts on unions include their members' exposure to intimidation, violence, 1258
- 1259 and assassination of leaders.
- 1260 Seasonal workers might find it hard to join unions due to their short-term employment. In some cases,
- 1261 trade union leaders have reported that organizations purposely hire workers on short-term contracts
- 1262 or outsource jobs so the workers are unable to join trade unions. Migrant workers can be even more
- vulnerable in this regard, as they can be explicitly banned from joining national unions of countries 1263
- 1264 where they work.
- According to the International Labour Organization (ILO), all workers including self-employed 1265
- persons, smallholder farmers, small-scale fishers, and those working in the informal economy -1266
- should enjoy the right to freedom of association and collective bargaining. 1267

#### What to report 1268

1269 If the organization has identified freedom of association and collective bargaining as a material topic, 1270

this section lists the disclosures that have been identified as relevant for reporting on the topic by the

1271 agriculture, aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations	
Management of the	topic		
GRI 103: Material Topics	Disclosure MT-3 Management of material topics		
Topic Standards di	Topic Standards disclosures		
GRI 407: Freedom of Association and Collective Bargaining 2016	Disclosure 407-1 Operations and suppliers in which the right to freedom of association and collective bargaining may be at risk		

#### Resources and references

GRI 407: Freedom of Association and Collective Bargaining 2016 lists authoritative intergovernmental

1274 instruments and other sources relevant to reporting on this topic.



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The additional intergovernmental instruments and references used to develop this topic description, as well as further resources that may be helpful for understanding and reporting on the topic by the agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 84.





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## 2.19 Occupational health and safety

- Healthy and safe work conditions are recognized as a human right. Occupational health and safety include prevention of physical and mental harm and promotion of workers' health. This
- 1281 topic covers impacts related to workers' health and safety.
- 1282 Agriculture, aquaculture, and fishing are considered two of the most hazardous <u>sectors</u>, with high
- 1283 numbers of work-related accidents and ill health each year. Aquaculture workers also regularly
- 1284 contend with hazardous working conditions. Work-related hazards associated with agriculture,
- 1285 aquaculture, and fishing include:

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- 1286 handling dangerous machinery, tools, and vehicles;
  - working in close proximity to people and/or animals, which can heighten risk of <u>exposure</u> to infectious diseases;
  - exposure to excessive noise and vibration causing hearing and other sensory problems;
- 1290 slips, trips, and falls from heights;
  - working with animals considerably heavier than the worker; lifting heavy weights; and other work giving rise to musculoskeletal disorders;
  - exposure to dust and potentially harmful organic substances, chemicals, and infectious agents;
  - exposure to extreme temperatures and inclement weather, which can cause hypothermia;
  - falls overboard, drowning;
- 1297 attacks by wild animals.
- 1298 Because workers in agriculture, aquaculture, and fishing often live where they work, occupational
- 1299 health and safety impacts can also be associated with workers' living conditions. Adequate working
- 1300 and living conditions in the context of agriculture, aquaculture and fishing concern access to potable
- drinking water, quantity and quality of food provision, hygiene, sanitation, and appropriate
- 1302 accommodations and sleeping quarters. The right to sanitation entitles workers have safe, hygienic,
- 1303 and socially acceptable access to sanitation.
- In the agriculture sector, farmers may work long hours and many consecutive days, especially when
- 1305 harvesting crops. Workers may lack personal protection equipment, which is not always available in
- 1306 all countries. Lack of access to sanitation and hygiene facilities can increase the risk of contracting
- infectious diseases for workers and their children who often accompany them.
- 1308 Workers and their families can be exposed to pesticides and other chemical substances used in
- 1309 agriculture (see Local communities). Exposure to pesticides by children living on farms and
- plantations can be more dangerous than for adults. If children work alongside their families, they can
- also be exposed to pesticides directly (see Child labor and Pesticides use).
- In many countries, injury and fatality rates in the fishing sector are much higher than average. Fishing,
- 1313 particularly far offshore, is considered one of the most dangerous occupations. Vessel disasters and
- falls overboard pose the greatest safety risks and are the sector's leading causes of fatalities.
- 1315 Vessel safety risks vary, and can be linked to weather, lack of weather warning systems, or loss of
- power due to engine failure or inadequate maintenance levels. In some cases, fishing management
- 1317 can involve strategies, such as putting limits on fishing time and area, that could lead to fishers taking
- 1318 more risks. Most fishing vessels fall outside of size parameters prescribed by international safety
- 1319 regulations. Small-scale fishers operate millions of fishing vessels that vary in degree of
- 1320 sophistication. Frequently, small-scale fishing vessels prove unsuitable for the conditions in which
- they are used, such as for carrying considerable amounts of fish, or for sailing far offshore.
- Vessel safety standards address risks related to general safety, such as fire safety, lighting, and
- 1323 ventilation as well as personal safety, vessel stability, and survival at sea. Safety training specific to
- 1324 vessel safety can help prevent vessel disasters, while compliance with safety standards can help
- prevent loss of life. Insurance schemes can be used to protect fishers, considering the high level and
- many types of risks associated with fishing, such as death, work-related accidents, and ill health.
- 1327 Catching, sorting, and storing fish also often require manipulation of dangerous tools, such as knives
- 1328 and hooks. When fish are manually beheaded, gutted, skinned, or filleted, it is common for workers to



- experience cuts and loss of fingers. Bites, stings, and tail kicks by fish and other marine animals can also lead to injuries. In the case of illness or injury offshore, professional medical care might be
- unavailable or difficult to access or medical evacuation may not be an option.
- 1332 Fishing can involve long hours at sea, far offshore. Workers on fishing vessels can also be subjected
- to lack of rest due to understaffing onboard, which can pose additional health and safety risks.
- 1334 Because workers can reside aboard fishing vessels for long periods of time, any living condition
- issues can also have impacts on them when they are off shift. Levels of crewing and daily and weekly
- rest can also affect their health and safety. Sometimes fishers can face difficulties in taking shore
- leave, being unable to get off their vessels at foreign ports.
- Fishers as a category of seafarers can be at risk of being abandoned without pay or repatriation by
- 1339 vessel owners (see Employment practices). Abandoned fishers may remain aboard vessels without
- 1340 pay, regular food supplies, and medical care. Documented cases show some abandonment lasting for
- 1341 many months. Abandonment can have health and safety impacts, including harm to mental health
- caused by keeping people in a state of high uncertainty.
- 1343 Illegal fishing operations can also impact worker health and safety due to lack of safety norms and
- 1344 inspection. Operating in contested waters can pose additional risks. Addressing illegal, unreported,
- 1345 and unregulated (IUU) fishing in supply chains can help eliminate factors leading to compromised
- health and safety standards (see Supply chain traceability).

#### What to report

- 1348 If the organization has identified occupational health and safety as a <u>material topic</u>, this section lists
- 1349 the disclosures that have been identified as relevant for reporting on the topic by the agriculture,
- 1350 aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the	topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	
Topic Standards di	sclosures	
GRI 403: Occupational	Disclosure 403-1 Occupational health and safety management system	
Health and Safety 2018	Disclosure 403-2 Hazard identification, risk assessment, and incident investigation	
c.UMP	Disclosure 403-3 Occupational health services	
This docum.	Disclosure 403-4 Worker participation, consultation, and communication on occupational health and safety	
	Disclosure 403-5 Worker training on occupational health and safety	
	Disclosure 403-6 Promotion of worker health	
	Disclosure 403-7 Prevention and mitigation of occupational health and safety impacts directly linked by business relationships	
	Disclosure 403-8 Workers covered by an occupational health and safety management system	



Disclosure 403-9 Work-related injuries	
Disclosure 403-10 Work-related ill health	

#### 1351 **Resources and references**

- 1352 GRI 403: Occupational Health and Safety 2018 lists authoritative intergovernmental instruments and 1353 other sources relevant to reporting on this topic.
- capte by the present an afficial position of the capte sent and the capte 1354 The additional intergovernmental instruments and references used to develop this topic description,
- as well as further resources that may be helpful for understanding and reporting on the topic by the 1355
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## 2.20 Employment practices

- 1358 Employment practices refer to an organization's approach to job creation, terms of
- 1359 employment and working conditions for its workers. This topic also covers the employment
- 1360 and working conditions in an organization's supply chain.
- 1361 An employment relationship is a legal relationship between a worker and an organization that confers
- rights and obligations to both parties. In the agriculture, aquaculture, and fishing sectors, informal 1362
- employment, when work is performed without a signed agreement, is a common practice. Many 1363
- workers do not have an employment contract, and their working time and other terms of employment 1364
- are not defined, leading to work going undeclared. Undeclared work is an illegitimate labor practice, 1365
- 1366 which violates labor and tax laws and may leave workers without legal protection and employment
- 1367 benefits.

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- Where formal arrangements exist, a lack of transparency can still surround daily hours, pay rates, and 1368
- 1369 working conditions. For example, workers in the fishing sector can face unspecified, unjustified, or
- 1370 nontransparent deductions from their pay; employers might withhold a portion of pay to cover various
- 1371 costs, such as for recruitment fees, food supplies and water, accommodations, taking leave to rest, or
- 1372 transferring pay to workers' families. Workers can also be employed via temporary or daily contracts
- 1373 on an ongoing basis, which denies their due benefits.
- 1374 Employment arrangements in these sectors and related supply chains can be complex and involve a
- 1375 wide range of actors. Agriculture, aquaculture, and fishing organizations may rely on workers who are
- engaged directly, through recruitment agencies, and/or by suppliers. While recruitment agencies fulfill 1376
- the sectors' demands, documented cases show that fundamental principles and rights at work are 1377
- regularly violated. Workers can face unjustified recruitment fees, unlawful employment conditions, and 1378
- 1379 restrictions on terminating their engagement. Unethical employment and recruitment practices in the
- 1380 sectors can also increase worker vulnerability and lead to exploitation.
- 1381 Fair or ethical recruitment means hiring workers lawfully and in a fair, transparent manner that
- respects their dignity and human rights. Ethical recruitment is characterized by: 1382
- 1383 recruitment fees being borne by the employer;
- respect for freedom of movement; 1384
  - transparent employment terms and conditions;
- 1386 confidentiality and data protection;
- 1387 access to remedy.

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- 1388 Migrant workers often fill the need for labor in agriculture, aquaculture, and fishing. Migrant workers
- 1389 can be in a full-time, seasonal, or temporary employment relationship. Migrant status, language, and
- 1390 communication barriers commonly leave migrant workers disadvantaged in terms of remuneration,
- 1391 housing, and social and medical protection.

## **MIGRANT WORKERS**

- 1393 Migrant workers can be particularly vulnerable to unethical practices and abuse. They are likelier to
- 1394 face pay discrimination and worse employment terms because they depend on employers or
- 1395 recruitment agencies for job and work permits.
- 1396 Migrant workers can be made to pay a fee to access jobs in the agriculture, aquaculture, and fishing
- 1397 sectors and to hand over identity documents, which prevents them from leaving employers. Such
- 1398 practices make migrant workers fall victim to bonded or forced labor, labor exploitation as well as
- 1399 human trafficking (see Forced labor).
- 1400 Ethical recruitment practices imply a fee-free model of recruitment and reimbursement of fees to
- 1401 migrant workers if not employed directly. Transparent employment terms and conditions for migrant
- workers also provide for the accessibility of an employment contract, for example, by translating it into 1402
- a local language understood by workers. 1403
- 1404 International labor standards expect workers in the agriculture, aquaculture, and fishing sectors to
- 1405 have decent conditions of work, including accommodations, food, transportation to and from
- 1406 workplace, and accident insurance, where applicable. For fishers, international labor and maritime



standards specify the right to repatriation in case of abandonment, including an insurance that should be part of employment terms.

## What to report

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If the organization has identified employment practices as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the <u>topic</u> by the agriculture, aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations
		- (h)
Management of the	topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	<ul> <li>Describe the policies on ethical recruitment, including if these policies require that no fees or other charges for recruitment or placement be borne directly or indirectly, in whole or in part, by the worker.</li> </ul>
		<ul> <li>Report the recommendations included in clause 1.2 in GRI 401: Employment 2016.</li> </ul>

#### Resources and references

1414 *GRI 401: Employment 2016* lists authoritative intergovernmental instruments and other sources
 1415 relevant to reporting on this topic.

The additional intergovernmental instruments and references used to develop this topic description, as well as further resources that may be helpful for understanding and reporting on the topic by the agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 85.



# 2.21 Living income

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- 1420 Living income refers to an income sufficient to afford a decent standard of living for all
- household members, including a nutritious diet, clean water, decent housing, education,
- 1422 healthcare, among other essential needs, plus extra funds for emergencies and saving. This
- topic covers the organization's approaches to worker compensation in the context of whether
- 1424 it provides for living income.
- 1425 As recognized by the Universal Declaration of Human Rights, all workers have a right to just and
- 1426 favorable <u>remuneration</u> that ensures, for themselves and their families, an existence worthy of human
- dignity. Lack of living income can lead to poverty, malnutrition, limited access to basic services, and
- marginalization. Ensuring living income for workers includes paying self-employed farmers and fishers
- a fair price for their produce so they can afford a decent standard of living and/or paying a living wage
- 1430 to workers employed directly.
- Workers in agriculture, aquaculture, and fishing are more than four times likelier to be in poverty than
- 1432 those in other sectors. For wage workers, a legally set minimum wage can sometimes be used as a
- 1433 proxy for living income, however living income is calculated based on requirements for a decent
- standard of living and can be higher than the minimum wage. In many countries, workers in the
- 1435 agriculture, aquaculture, and fishing sectors fall outside of national minimum wage regulations or are
- subject to sector-specific minimum wage rates, lower than those applied to other categories of
- 1437 workers. A high spread of informal employment in these sectors also poses a major barrier for the
- 1438 enforcement of wage norms.
- 1439 Workers in agriculture, aquaculture, and fishing can be compensated in various ways for example,
- 1440 in-kind payment of a share of their catch or harvest or through bonuses and piece rates which can
- 1441 make them more vulnerable to under-compensation. While international labor standards do not set a
- specific threshold for in-kind payments, many national jurisdictions prohibit them above a certain
- threshold. The International Labour Organization (ILO) has also questioned the value and fairness of
- in-kind payments exceeding 50% of wages, considering this practice to limit workers' financial
- 1445 income.8

- Many fishers and farmers are categorized as self-employed workers because they receive wages but
- 1447 are compensated according to their supply of production. Protections specifically for this type of
- 1448 worker might not exist. Their incomes can be contingent on the individuals' negotiating power,
- 1449 production levels, and prices, which may be subject to volatile or unfavorable market forces. These
- 1450 prices can be set without accounting for possible losses in produce due to weather events, plant and
- animal diseases, or any other unforeseen circumstances that reduce production. Organizations can
- also cause impacts on their suppliers through procurement practices, including the lead times they
- specify, which may be overly restrictive.
- Lack of living income can lead to numerous environmental and social impacts. For example, farmers
- 1455 facing economic pressures may apply high levels of fertilizers or pesticides in an attempt to increase
- 1456 yields. Farmers and fishers can also be pressed to cut production costs by lowering their workers'
- 1457 wages or relying on poor labor practices such as exploitation, illegal migrant labor, or child labor. Lack
- of living income also limits the ability of producers to invest in more efficient or sustainable production
- methods, which can further impact their access to markets, income, and livelihoods. In some cases,
- this can be conducive to illegal clearing of forests or illicit farming or fishing activities.

<sup>&</sup>lt;sup>8</sup> 'While no conventions or recommendations fix a specific threshold for payments in kind, the ILO Committee of Experts has expressed doubt concerning payment in kind that exceeds 50% of the wage', <u>Chapter 1: What is a minimum wage: 1.6 Payment in kind - ILO</u>, see also International Labour Conference, 9Ist Session, 2003, <u>Protection of Wages</u>, 2003.



## What to report

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If the organization has identified living income as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the <u>topic</u> by the agriculture, aquaculture, and fishing sectors.

Disclosure	Additional sector recommendations
;	
Disclosure MT-3 Management of naterial topics	<ul> <li>Describe the commitments of the organization related to providing a living income or paying a living wage.</li> <li>Describe the methodology used for defining living income or living wage at significant locations of operation and if this has involved a consultation with and participation of local stakeholders, including trade unions and employer organizations.</li> <li>Describe the approach to in-kind payments, including the maximum percentage of remuneration paid in kind per location of operation.</li> <li>Describe how sourcing, pricing, and remuneration policies take living income or living wage into account, including how living income is considered when commodity prices</li> </ul>
)i	_

#### Additional sector disclosures

Report the percentage of <u>employees</u> and other workers covered by collective bargaining agreements in place that have terms related to wage levels and frequency of wage payments at significant locations of operation.

Report the percentage of employees and other workers paid above living wage, with a breakdown by gender.

Describe the tools and systems used to monitor wages paid by suppliers.

## Resources and references

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The intergovernmental instruments and references used to develop this topic description, as well as further resources that may be helpful for understanding and reporting on the topic by the agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 86.



## 2.22 Economic inclusion

Economic inclusion concerns an organization's impacts on the productive potential of workers and suppliers. By supporting rural workers and suppliers, an organization can contribute to economic development in rural areas. This topic covers ways that organizations can contribute to economic inclusion, which can include supporting small or medium-sized suppliers, their productivity and access to markets.

The agriculture <u>sector</u> includes 500 million smallholder farmers, producing up to 80% of all agricultural <u>products</u> in some regions. Small fishing vessels represent over 80% of the world's total fishing fleet and provide employment to nearly two thirds of the total workforce of the sector in some countries. At the same time, as much as 80% of the world's poor live and work in rural areas because of poor <u>infrastructure</u>, lack of knowledge and technology, limited capacity to produce, or limited access to markets and financial <u>services</u>.

Agriculture, aquaculture, and fishing organizations can improve the economic inclusion of small producers from whom they source their products through creating sustained demand, providing capital, building skills and knowledge, and strengthening access to markets. For example, contract farming – when an organization enters into forward agreements with farmers to purchase their products – can enhance the productive capacity and market access of small producers. In such agreements, organizations can commit to providing inputs, such as seeds, fertilizers, capital, and knowhow. Contract farming agreements need to be executed in a way that avoids leaving producers in debt or dependency.

Agriculture, aquaculture, and fishing organizations can contribute to enabling farmers and fishers to access financial services or provide support to rural financial institutions. Organizations can facilitate formalizing enterprises by farmers and fishers through arrangements that encourage collective benefits, such as developing cooperatives.

Agriculture, aquaculture, and fishing organizations can also contribute to economic inclusion through developing infrastructure, building roads, ports, or canals in areas otherwise unserved. The <u>impacts</u> of infrastructure investment can extend beyond the organization's scope and facilitate access to transportation, energy, sanitation, and other services for people living and working in rural areas.

#### What to report

If the organization has identified economic inclusion as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the <u>topic</u> by the agriculture, aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations		
Management of the	Management of the topic			
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	Describe the actions taken to identify and adjust the procurement practices of the organization that cause or contribute to negative impacts in the <a href="supply chain">supply chain</a> including:		
		<ul> <li>how engagement with <u>suppliers</u> is used to identify procurement practices that cause or contribute to negative impacts in the supply chain;</li> </ul>		
		<ul> <li>actions taken to adjust payment policies and procedures.</li> </ul>		
		Describe policies and practices used to promote economic inclusion when		



		selecting and engaging with workers and suppliers.
		Note: These recommendations are based on the guidance to clause 1.1 in GRI 204: Procurement Practices 2016.
Topic Standards di	sclosures	
GRI 203: Indirect Economic Impacts	Disclosure 203-1 Infrastructure investments and services supported	
	Disclosure 203-2 Significant indirect economic impacts	

#### **Resources and references**

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The intergovernmental instruments and references used to develop this topic description, as well as Par Joseph an Official position of the present an Official position of the present and official position of the present an further resources that may be helpful for understanding and reporting on the topic by the agriculture, 1504 aquaculture and fishing sectors are listed in the Bibliography on page 87.



# 2.23 Supply chain traceability

- 1507 Traceability is the ability to trace the source, origin, or production conditions of raw materials
- and production inputs purchased. Traceability provides a way to identify and avoid potential
- 1509 negative impacts associated with an organization's products as well as to demonstrate
- 1510 adherence to organizations' sustainability commitments.
- 1511 Agriculture, aquaculture, and fishing organizations may source their <u>products</u> and procure animal feed
- from multiple farms, mills, plantations, waters, or hatcheries. The sectors' supply chains can be
- 1513 complex, crossing international borders. Production conditions can differ highly across countries,
- 1514 causing diverse impacts on the economy, environment, and people, including impacts on their human
- rights. Production in the sectors can also involve informal operations, where impacts often go
- 1516 undocumented. Supply chain mapping allows to identify the actors in an organization's supply chain
- and the relationships among them, offering a basis for traceability.
- 1518 Traceability mechanisms enable organizations to know the origins of their products and identify
- 1519 impacts they may be involved with via their business relationships. These mechanisms serve to
- 1520 protect public health and ensure compliance with food safety policies by, for example, mitigating
- 1521 negative impacts in cases of urgent product recalls over food safety concerns and outbreaks of
- 1522 disease in animals.

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- 1523 Organizations in animal production and aquaculture can have significant impacts associated with
- 1524 animal and fish feed they source and are thus expected to trace feed ingredients. Feed in
- 1525 aguaculture can come from fish caught in the wild, contributing to overfishing. Plant-based feed
- includes wheat, rice, and soy; almost 80% of the world's soybean crop is used as animal feed, and in
- 1527 many areas, it is associated with deforestation and conversion. 10
- 1528 Eliminating or reducing deforestation or other forms of natural ecosystem conversion in the value
- 1529 <u>chain</u> requires tracing the origin of products to farms, plantations, or smallholder organizations,
- 1530 notably in jurisdictions with deforestation or conversion risks and in the absence of other supply chain
- 1531 control mechanisms, such audits or certification. In the fishing sector, traceability is required to ensure
- sustainability of fishery resources and legality of fishing operations.

#### ILLEGAL, UNREPORTED, AND UNREGULATED FISHING

- Some estimates indicate that up to 30% of fish sourced globally comes from illegal, unreported, and
- unregulated (IUU) fishing. IUU fishing includes fishing without a license, exceeding fishing quotas,
- 1536 capturing undersized fish or endangered species, using unauthorized fishing gear, fishing in restricted
- or protected marine areas or inshore waters reserved for local artisanal fishers, and unauthorized
- transfer of catch from one vessel to another.
- 1539 IUU fishing is a threat to marine ecosystems and biodiversity because of its potential impacts on the
- 1540 sustainability of fishing stocks. Traceability is a fundamental tool against IUU fishing. Certified
- fisheries, fisheries improvement projects, or robust monitoring, control, and surveillance (MCS)
- measures can also provide some level of assurance against IUU fishing.
- 1543 Traceability also facilitates transparency of value created at each stage of the value chain and how
- 1544 the value is distributed among producers. Knowing this information is relevant for establishing
- purchasing prices for agriculture, aquaculture, and fishing products that provide for living income to
- workers, farmers, and fishers (see *Living income*).

<sup>&</sup>lt;sup>10</sup> To illustrate, only 19% of the soy consumed in the European Union can be traced to producers who do not increase deforestation; IDH The Sustainable Trade Initiative, <u>European Soy Monitor</u>, 2020.



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<sup>&</sup>lt;sup>9</sup> The definition is based on the GRI 204: Procurement practices 2016.

Tracing the origins of products can be challenging, and traceability across the agriculture, fishing, and aquaculture sectors is unevenly implemented. Organizations that source agriculture, aquaculture, or fishing products might, depending on the product, be able to trace each to its original source or a certain geographic area. Suppliers may also have certifications and assurance schemes that link products to production sites with known environmental, economic, and social performance records, known as low-risk jurisdictions. While some certification mechanisms might support traceability, traceability remains the responsibility of the organization.

## What to report

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If the organization has identified supply chain traceability as a <u>material topic</u>, this section lists the disclosures that have been identified as relevant for reporting on the <u>topic</u> by the agriculture, aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the	topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	Describe the rationale and methodology for tracing the source, origin, or production conditions of raw materials and production inputs purchased.
		Note: These recommendations are based on the guidance to clause 1.1 in GRI 204: Procurement Practices 2016.
	and on the	The following additional sector recommendations are for organizations in the fishing sector:
	does not represe	<ul> <li>Describe the policies, assurance, and risk assessment processes of the organization related to risks of illegal, unreported, and unregulated (IUU) fishing;</li> <li>List collaborations intended to help address illegal, unreported, and unregulated (IUU) fishing that the organization participates in.</li> </ul>

#### Additional sector disclosures

Describe the level of traceability in place for each product the organization sources, for example, if the product can be traced to the national, regional, or local level or a specific point of origin.

Report the percentage of suppliers in the organization's supply chain that are certified or undergoing improvement projects or assessment.

Report the percentage of products verified as being in accordance with credible internationally recognized responsible production standards, according to standard or product.

- For organizations in the fishing sector, describe whether this includes chain of custody certification and complies with the Global Sustainable Seafood Initiative (GSSI);
- For organizations in the agriculture and aquaculture sectors, describe whether certification includes farms, hatcheries, and feed mill levels.



## Resources and references

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The intergovernmental instruments and references used to develop this topic description, as well as further resources that may be helpful for understanding and reporting on the topic by the agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 87.

This document does not represent an official position of the East Part of the Cast Part of



# 2.24 Public policy and lobbying

- 1563 An organization can participate in public policy development, directly or through an
- 1564 intermediary organization, by means of lobbying and making financial or in-kind contributions
- to political parties, politicians, or causes. This topic covers an organization's approach to
- public policy participation, and the impacts that can result from the influence an organization
- 1567 exerts in such participation.
- 1568 Agriculture, aquaculture, and fishing organizations can be involved in public policy development –
- 1569 concerning environmental regulations, access to natural resources, labor laws, food safety, public
- 1570 health, and animal welfare on local, national, or international scales and, in doing so, potentially
- 1571 exert significant influence. Transparency around lobbying activities and political contributions is crucial
- for understanding agriculture, aquaculture, and fishing organizations' impacts related to public policy
- 1573 and lobbying.

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- 1574 Agriculture, aquaculture, and fishing products can be subject to government price setting and
- 1575 subsidies or be affected by mandatory quotas, which can prompt organizations to lobby. In
- 1576 agriculture, documented cases show how large agricultural organizations may lobby to postpone legal
- 1577 requirements for rotating crops and to prevent penalties for inadequate use of land. Agriculture lobby
- 1578 activities can also target approvals of genetically modified organisms (GMOs) and pesticides.
- 1579 Lobbying activities can have an impact on farmers' access to technology and genetic resources, such
- 1580 as seeds from genetically heterogeneous varieties, including traditional crops.
- In animal production, lobbying can inhibit public policy development that deals with livestock's
- 1582 negative impacts on the environment. In many countries, livestock products particularly dairy and
- 1583 beef are heavily subsidized due to the influence that livestock organizations exert. These subsidies
- can facilitate supply of animal products at prices that do not cover costs to the environment but are
- enabled expressly through lobbying. Lobbying can also prevent stricter standards of animal welfare.
- In fishing, organizations can influence allowable catch and quota regulations, including international
- 1587 trade negotiations and inter-country agreements on fishing quotas. Locally, lobbying can sway
- 1588 attempts to limit catch in order to preserve fishing stocks (see *Anti-corruption*).

#### What to report

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- 1590 If the organization has identified public policy and lobbying as a material topic, this section lists the
- disclosures that have been identified as relevant for reporting on the topic by the agriculture,
- 1592 aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the top	ic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	
Topic Standards disclosures		
GRI 415: Public Policy 2016	Disclosure 415-1 Political contributions.	

#### Resources and references

- 1594 GRI 415: Public Policy 2016 lists authoritative intergovernmental instruments and other sources
- relevant to reporting on this topic.
- 1596 The additional intergovernmental instruments and references used to develop this topic description,
- as well as further resources that may be helpful for understanding and reporting on the topic by the
- 1598 agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 88.



# 2.25 Anti-competitive behavior

- 1600 Anti-competitive behavior refers to actions that can result in collusion with potential
- 1601 competitors, with the purpose of limiting the effects of market competition. This can include
- 1602 fixing prices or coordinating bids, creating market or output restrictions, imposing geographic
- 1603 quotas, and allocating customers, suppliers, geographic areas, or product lines. This topic
- 1604 covers impacts as a result of anti-competitive behavior.
- 1605 Many agriculture, aquaculture, and fishing <u>products</u> are purchased from producers and traded by only
- 1606 a limited number of organizations. In situations of limited market options, traders and buyers can exert
- 1607 significant market power.

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- 1608 Anti-competitive agreements between agriculture, aquaculture, and fishing organizations can lead to
- 1609 setting purchasing prices for products below those in a competitive market as well as restrictions on
- 1610 the product volumes. Many producers in agriculture, aquaculture, and fishing sectors are smallholder
- 1611 farmers and small-scale fishers, often working in the informal sector and facing substantial barriers to
- 1612 access markets (see Economic inclusion). Large organizations that source supplies from small
- 1613 producers can take advantage of information asymmetry and market fragmentation to limit their
- 1614 choices of whom to supply.
- 1615 Anti-competitive practices may render small producers in these sectors unable to cover their costs,
- 1616 achieve living income, or pay wages to their workers, resulting in economic exclusion and risk to
- livelihoods. Other actions that purposely limit effects of market competition can also cause small
- 1618 producers to lose their independence and be pressured into becoming subsidiaries of large
- 1619 multinational organizations. In some parts of the sectors, cartels have caused exclusion of small
- 1620 producers from international markets.
- 1621 Cooperatives or organizations with mandatory membership can affect market competition by requiring
- farmers and fishers to sell their products exclusively through them. While such arrangements can
- 1623 benefit producers, they can also pose anti-competitive concerns as limiting consumer's choices, if
- cooperatives represent a major share of the sector's productive capacity.

#### What to report

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- 1626 If the organization has identified <u>anti-competitive behavior</u> as a <u>material topic</u>, this section lists the
- disclosures that have been identified as relevant for reporting on the topic by the agriculture,
- 1628 aquaculture, and fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the	topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	
Additional sector d	lisclosures	
GRI 206: Anti- competitive Behavior 2016	Disclosure 206-1 Legal actions for anti-competitive behavior, anti-trust, and monopoly practices	

#### Resources and references

- 1630 GRI 206: Anti-competitive Behavior 2016 lists authoritative intergovernmental instruments and other
- 1631 sources relevant to reporting on this topic.
- The additional intergovernmental instruments and references used to develop this topic description.
- as well as further resources that may be helpful for understanding and reporting on the topic by the
- 1634 agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 88.



# 2.26 Anti-corruption

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- Anti-corruption refers to how an organization manages the potential of being involved in
- 1637 corruption. Corruption refers to practices such as bribery, facilitation payments, fraud,
- extortion, collusion, money laundering, and the offer or receipt of an inducement to do
- something that is dishonest or illegal.
- 1640 <u>Corruption</u> in the agriculture, aquaculture, and fishing <u>sectors</u> can erode the capacity of governments
- to limit practices, such as deforestation and overfishing, increase the potential for impacts on workers
- and communities, and reduce government revenues. Organizations that engage in corruption can
- have an unfair advantage in competitive markets.
- 1644 Corruption in the agriculture, aquaculture, and fishing sector may be related to the use of land and
- other natural resources regulated by government agencies. It can take the form of, for example,
- l 646 bribes paid to officials to register land, acquire land information, or obtain permits to establish an
- operation (see Land and resource rights). This can affect rights holders and lead to the displacement
- of communities, particularly in areas without secure land tenure.
- 1649 Corruption can also involve unduly benefiting from political reforms and land transactions, such as
- privatization of state-owned land, approval of zoning plans, and land expropriation, while ignoring
- legal mechanisms and causing impacts on people and ecosystems.
- 1652 Other examples of corruption in the sectors may include inducing officials to ignore illegal farming or
- 1653 fishing operations. Illegal farming operations can lead to loss of natural ecosystems when land is
- 1654 cleared. Corrupt practices in fishing can facilitate access agreements between organizations and
- officials of countries rich in fishery resources.
- 1656 Corrupt practices can also make illegal, unreported, and unregulated fishing (IUU) and exceeding
- 1657 quotas possible, which undermines sustainability of stocks. Fishers themselves might be involved in
- 1658 corruption in an attempt to get more catch. Records of type or volume of catch may be falsified or
- authorities may be bribed to ignore or certify false records.
- Operating fishing vessels under flag of convenience or an unknown flag can also be associated with
- 1661 corruption when it is done with a view to bypass countries' legal restrictions.

#### 1662 What to report

- 1663 If the organization has identified anti-corruption as a material topic, this section lists the disclosures
- 1664 that have been identified as relevant for reporting on the topic by the agriculture, aquaculture, and
- 1665 fishing sectors.

Standard	Disclosure	Additional sector recommendations
Management of the	e topic	
GRI 103: Material Topics	Disclosure MT-3 Management of material topics	
Topic Standards d	isclosures	
GRI 205: Anti- corruption 2016	Disclosure 205-1 Operations assessed for risks related to corruption	
	Disclosure 205-2 Communication and training about anti-corruption policies and procedures	
	Disclosure 205-3 Confirmed incidents of corruption and actions taken	



#### Resources and references

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1667 GRI 205: Anti-corruption 2016 lists authoritative intergovernmental instruments and other sources relevant to reporting on this topic. 1668

1669 The additional intergovernmental instruments and references used to develop this topic description, as well as further resources that may be helpful for understanding and reporting on the topic by the 1670 1671

agriculture, aquaculture and fishing sectors are listed in the Bibliography on page 89.





# **Glossary**

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673	Note to the GSSB: A number of defined terms are being revised as part of the review of the
674	GRI Universal Standards. To facilitate consistency, this glossary section will be completed
675	prior to public exposure based on the drafts of Universal Standards submitted to the GSSB for
676	approval. No new defined terms are proposed to be added as a result of the development of
677	this Standard.

1678 Some definitions included in this glossary contain terms that are further defined in the complete GRI Jhis document does not represent an official position of the less than official positi 1679 Standards Glossary. All defined terms are underlined. If a term is not defined in this glossary or the 1680 complete GRI Standards Glossary, definitions that are commonly used and understood apply.



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