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MODULE 1 SUSTAINABLE AGRO-LIVESTOCK FARM AND ANIMAL WELFARE: METHOD, TECHNIQUE, AND EXPERIENCES

UNIT 1 Agricultural multifunctionality and sustainable farm

THE FOOD AND AGRICULTURE RELATED SUSTAINABLE DEVELOPMENT GOALS

Lesson 1

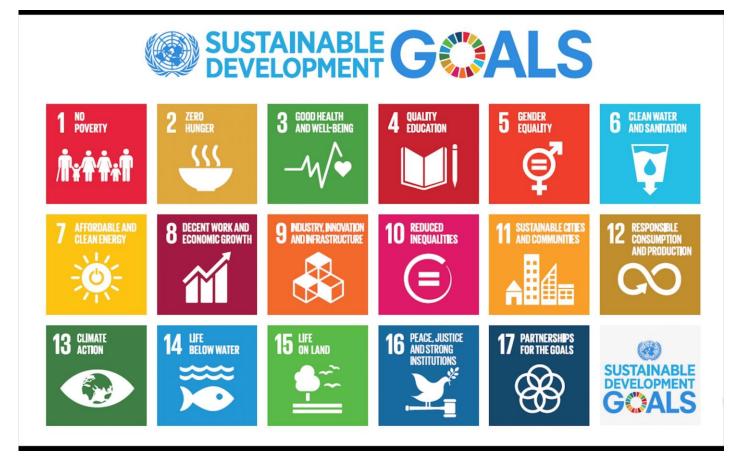
Giordano Stella, PhD Department of agricultural, food and environmental sciences Perugia University

Source: FAO. 2021. Tracking progress on food and agriculture-related SDG indicators 2021: A report on the indicators under FAO custodianship. Rome. https://doi.org/10.4060/cb6872en



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Food and agriculture-related SDG indicators







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1 NO POVERTY



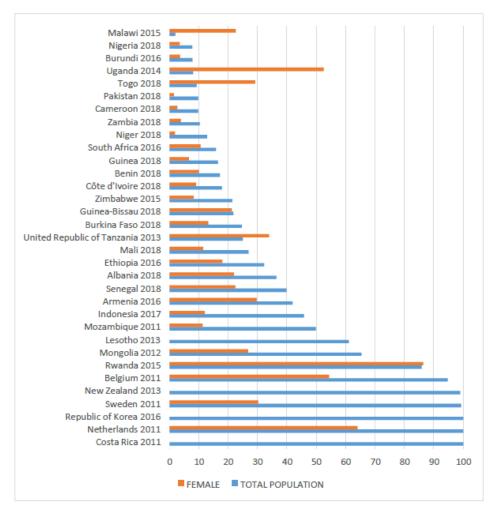


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SDG INDICATOR 1.4.2 Proportion of total adult population with secure tenure rights to land, (a) with legally recognized documentation, and (b) who perceive their rights to land as secure, by sex and type of tenure



SOURCE: UNSD Global Database, World Bank and UN-Habitat data, last accessed 8 June 2021.

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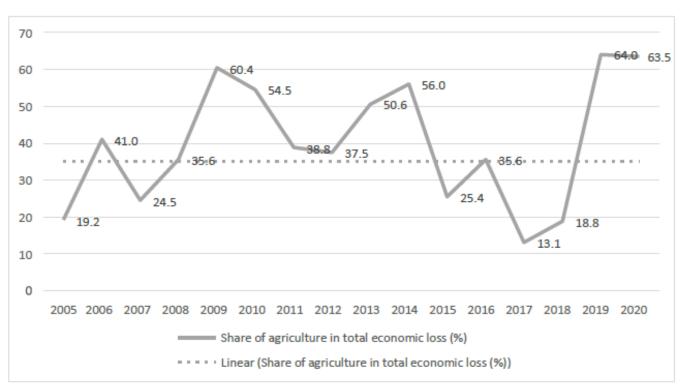


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SDG INDICATOR 1.5.2 Direct economic loss attributed to disasters in relation to global gross domestic product (GDP)



SOURCE: United Nations Office for Disaster Risk Reduction, 2021.



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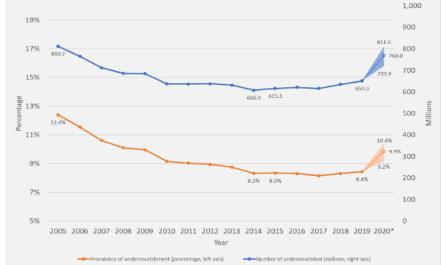






SDG INDICATOR 2.1.1 Prevalence of undernourishment (PoU)

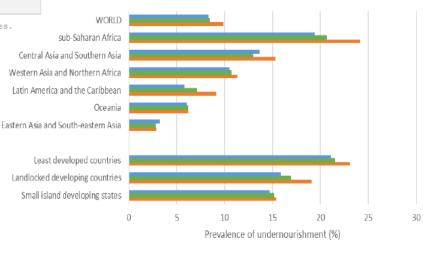
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NOTE: * Projected values for 2020 in the figure are illustrated by dotted lines. Shaded areas show lower and upper bounds of the estimated range. SOURCE: FAO. 2021c.

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2015 2019 2020*

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2 ZERO HUNGER

INDICATOR 2.1.2 Prevalence of moderate or severe food insecurity in the population, based on the Food Insecurity Experience Scale (FIES)

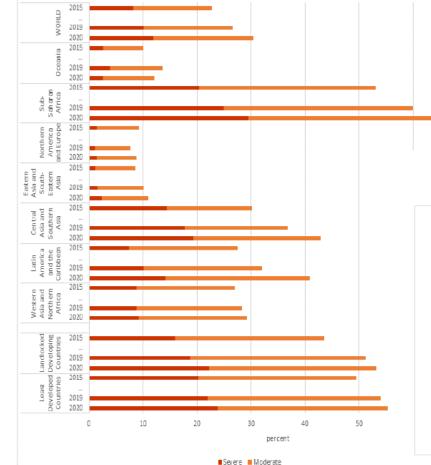
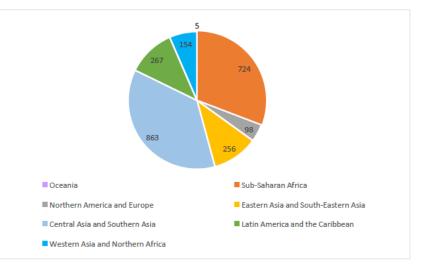


Figure 8: Regional distribution of the population affected by moderate or severe food insecurity, 2020 (millions)

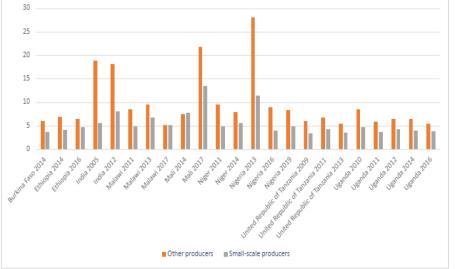


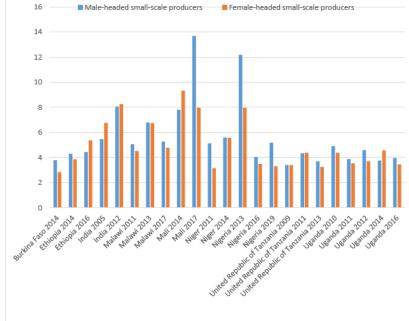


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SDG INDICATOR 2.3.2 Average income of smallscale food producers, by sex and indigenous status

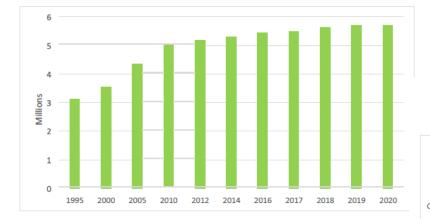


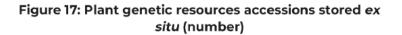
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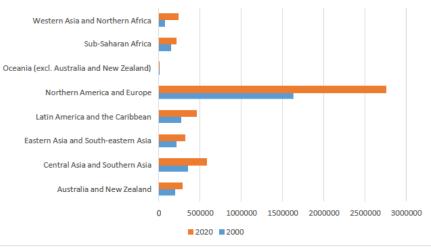




SDG INDICATOR 2.5.1.A Number of plant genetic resources for food and agriculture secured in medium-or long-term conservation facilities Figure 16: Number of accessions of plant genetic resources secured in medium- or long-term conservation facilities in the world, 1995–2020







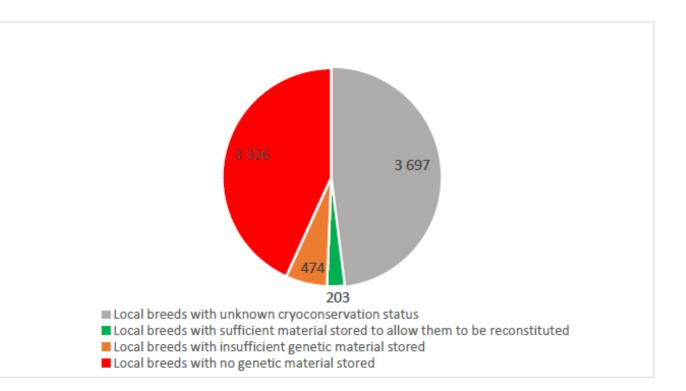




SDG INDICATOR 2.5.1.B Number of animal genetic resources for food and agriculture secured in medium-or long-term conservation facilities The Food and Agriculture related Sustainable Development Goals Co-funded by the Erasmus+ Programme of the European Union



Figure 19: Proportions of local breeds (including extinct ones) with sufficient, insufficient and no genetic material stored, 2020



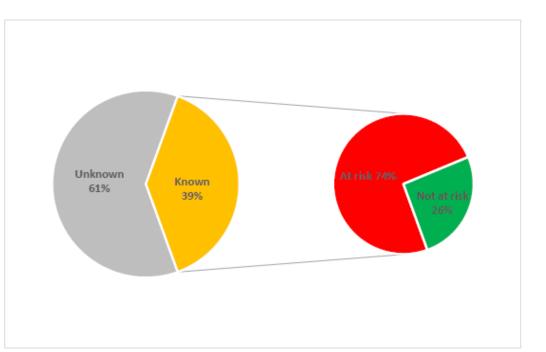




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Figure 20: Proportion of local livestock breeds around the world by risk status, 2020



SDG INDICATOR 2.5.2 Proportion of local breeds classified as being at risk of extinction

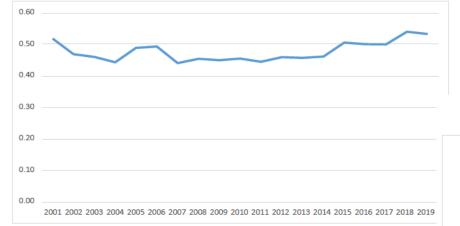


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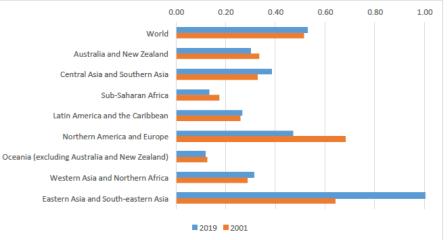


SDG INDICATOR 2.A.1 Agriculture orientation index for government expenditure Figure 22: Agricultural orientation index: Share of Government Expenditure in Agriculture in relation to Agriculture share of GDP, 2000–2019



SOURCE: FAO, 2021c.

Figure 23: Agricultural orientation index by SDG sub-regions







SDG INDICATOR 2.C.1 Indicator of food price anomalies

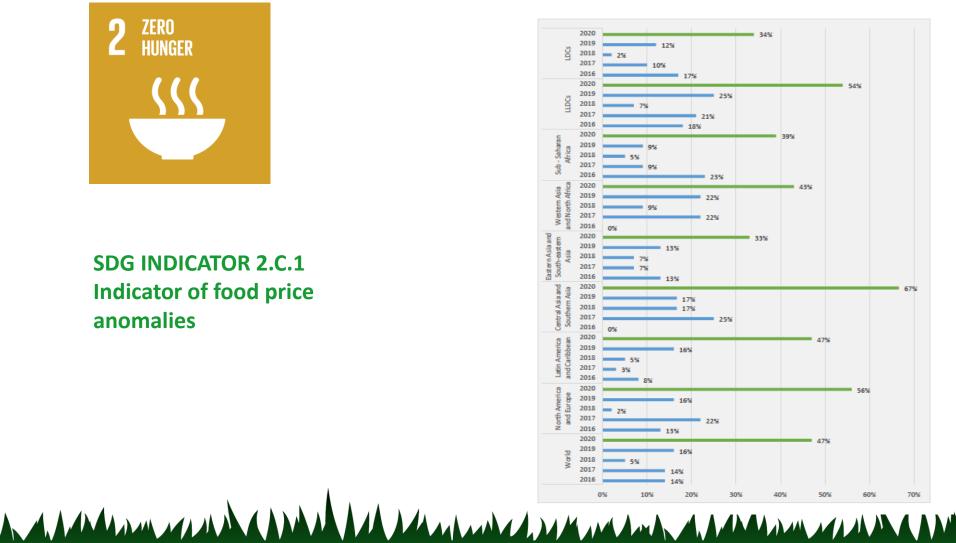
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Figure 25: Proportion of countries by region affected by high or moderately high food prices in (2016-2020)





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Lesson 2

Giordano Stella, PhD Department of agricultural, food and environmental sciences Perugia University

Source: FAO. 2021. Tracking progress on food and agriculture-related SDG indicators 2021: A report on the indicators under FAO custodianship. Rome. https://doi.org/10.4060/cb6872en



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GENDER

EOUALITY

SDG INDICATOR 5.A.1

type of tenure

Proportion of total agricultural

population with ownership or

secure rights over agricultural

land, by sex; and (b) share of

women among owners or rights-

bearers of agricultural land, by

H

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Figure 27: Share of women among owners or right holders

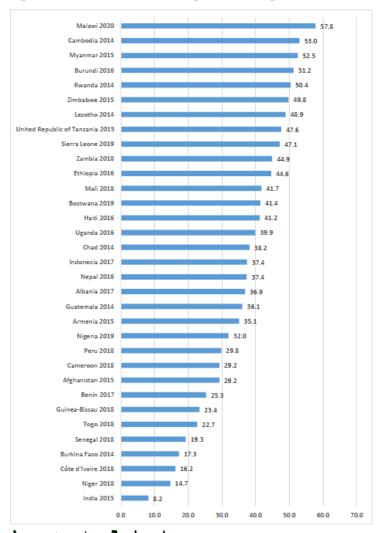
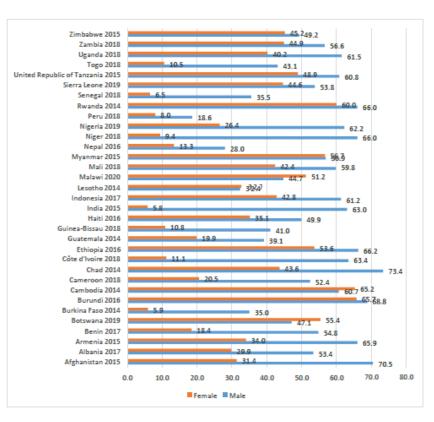


Figure 26: Share of women and men in the adult agricultural population with ownership or secure rights over agricultural land







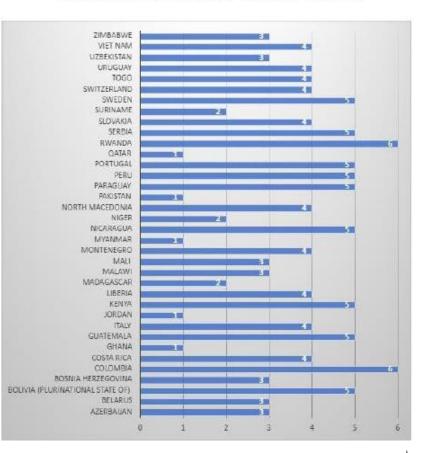
INDICATOR 5.A.2 Proportion of countries where the legal framework (including customary law) guarantees women's equal rights to land ownership and/or control

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Figure 28: Degree to which the legal framework (including customary law) guarantees women's equal rights to land ownership and/or control [1=lowest; 6=highest]





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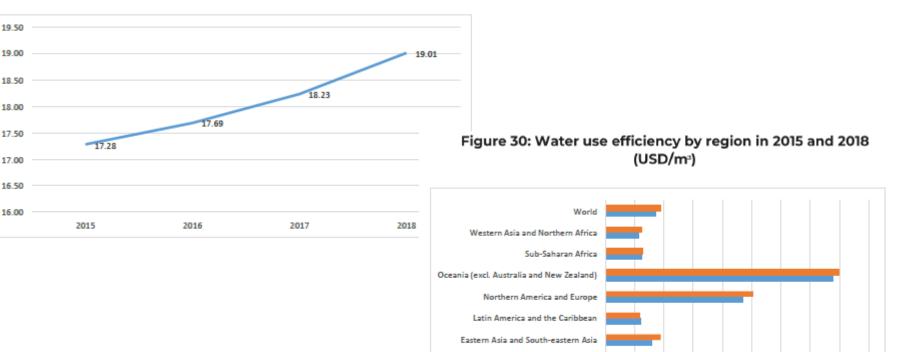
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SDG INDICATOR 6.4.1 Change in water-use efficiency over time





Central Asia and Southern Asia Australia and New Zealand

0

10

20

2018 2015

30

40

50

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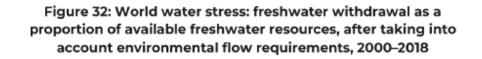


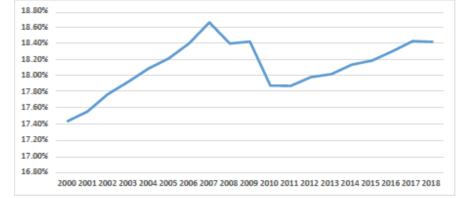
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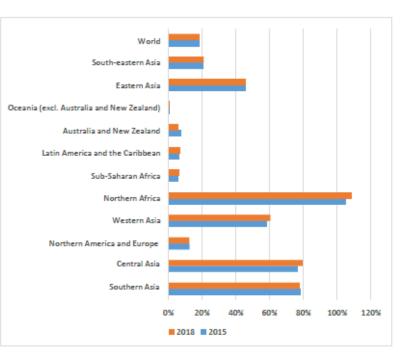


SDG INDICATOR 6.4.2 Level of water stress: freshwater withdrawal as a proportion of available freshwater resources











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SDG INDICATOR 10.A.1 Proportion of tariff lines applied to imports from Least Developed Countries (LDCs) and developing countries with zero-tariff Figure 34: Proportion imports from Least Developed Countries (LDCs) and developing countries with zero-tariff in international markets

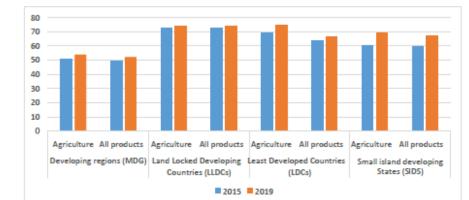
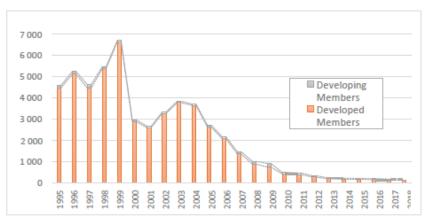


Figure 35: Export subsidies budgetary outlays (USD million), 1995– 2018





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RESPONSIBLE CONSUMPTION AND PRODUCTION

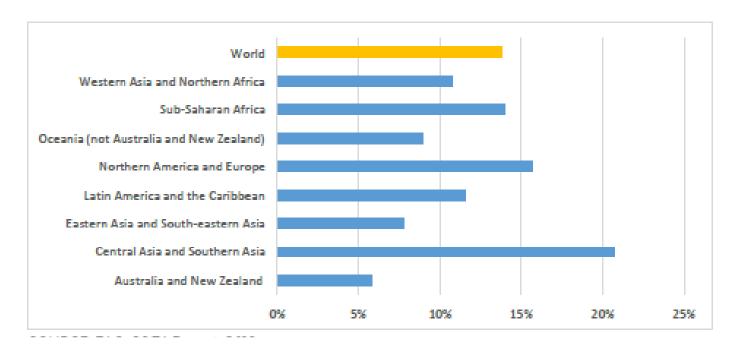
SDG INDICATOR 12.3.1.A

Food loss index

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Figure 36: Percentage of food loss by region, 2016





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SDG INDICATOR 14.4.1 Proportion of fish stocks within biologically sustainable levels

Figure 37: SDG indicator 14.4.1 Proportion of fish stocks within biologically sustainable levels across the world

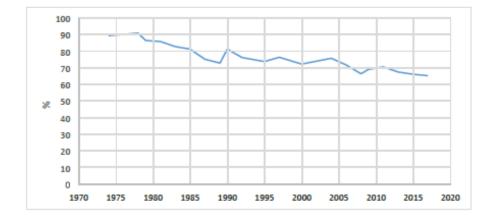
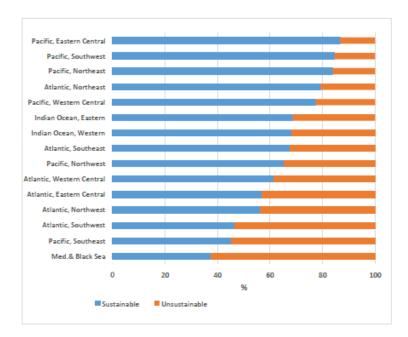


Figure 38: Fish stock sustainability status across major fishing areas





14 LIFE BELOW WATER SDG INDICATOR 14.6.1 Degree of implementation of international

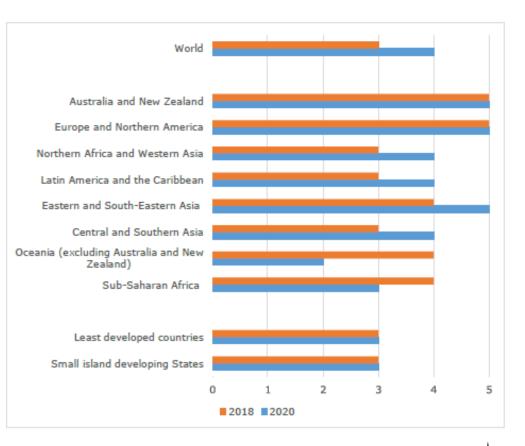
instruments aiming to combat Illegal, unreported and unregulated (IUU) fishing

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Figure 41: Progress in degree of implementation of IUU instruments, 2018–2020





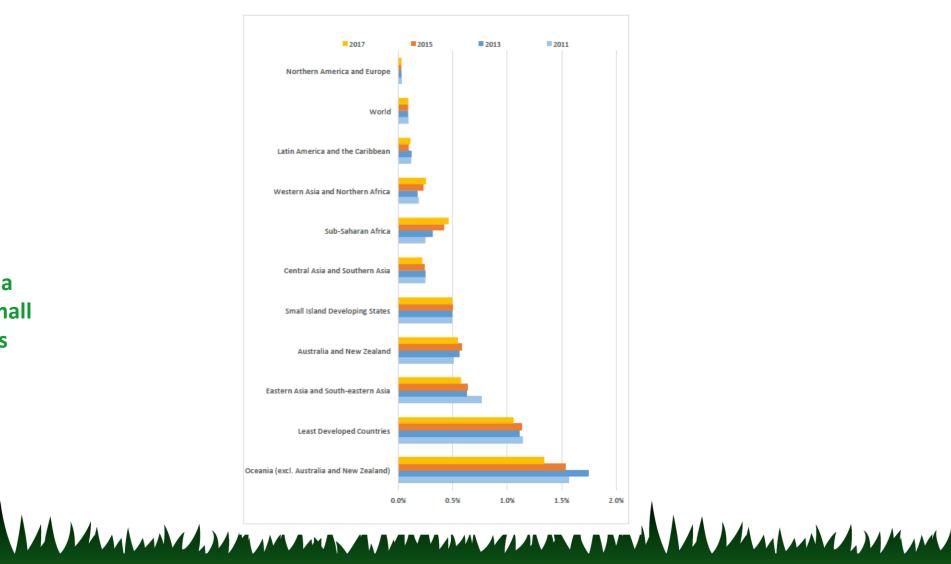
4 LIFE BELOW WATER

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Figure 44: Sustainable Fisheries as a percentage of GDP



SDG INDICATOR 14.7.1 Sustainable fisheries as a proportion of GDP in Small Island Developing States (SIDS), Least Developed Countries (LDCs) and all countries





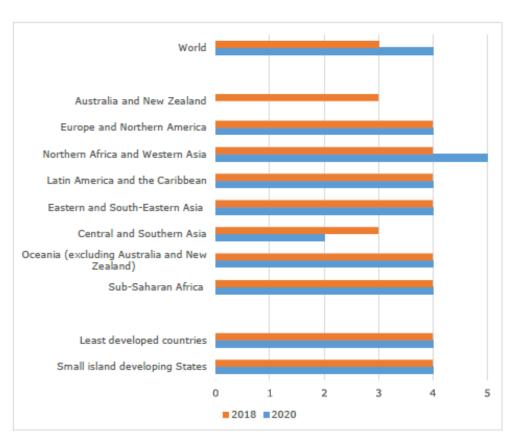
SDG INDICATOR 14.B.1 Degree of application of a legal/regulatory/ policy/institutional framework which recognizes and protects access rights for small-scale fisheries

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Figure 46: Progress in degree of implementation of international instruments to promote and protect small-scale fisheries, 2018–2020





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SDG INDICATOR 15.1.1 Forest area as a proportion of total land area

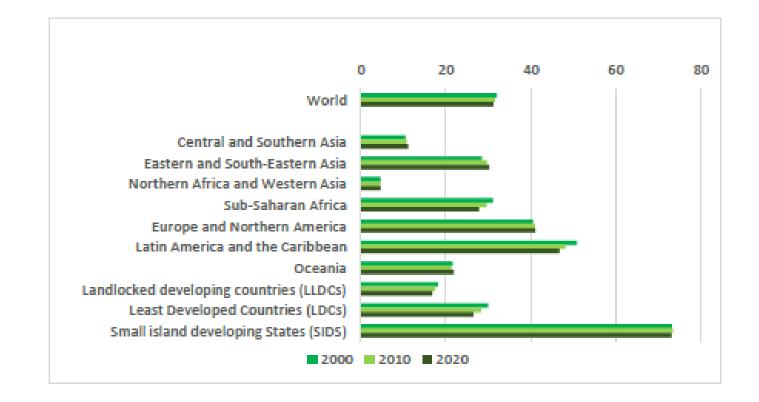
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Figure 49: SDG indicator 15.1.1 - Forest area as proportion of total land area (percent)



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15 LIFE ON LAND

SDG INDICATOR 15.2.1

Progress towards

sustainable forest

management

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15.2.1. Dashboard for SDG sub-indicators



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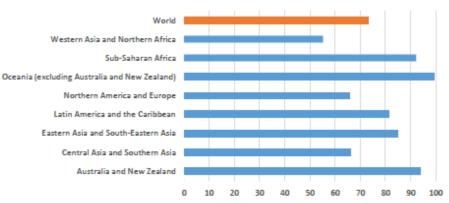
SDG INDICATOR 15.4.2 Mountain Green Cover Index

land cover type

Simplified Kapos elevation scale

Figure 51: Global mountain cover, disaggregated by elevation and

Figure 52: Mountain green cover index by region, 2018







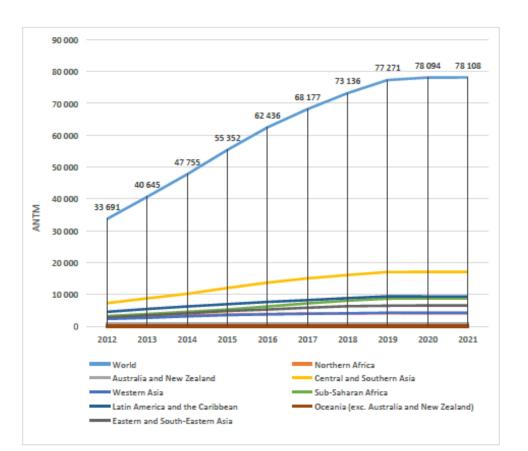
SDG INDICATOR 15.6.1 Number of countries that have adopted legislative, administrative, and policy frameworks to ensure fair and equitable sharing of benefits

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Figure 54: Number of Standard Material Transfer Agreements (SMTAs) transferring plant genetic resources for food and agriculture in the world, 2012–2021







- 1. FAO (2021). *Guidance on core indicators for agrifood systems. Measuring the private sector's contribution to the Sustainable Development Goals*. Food and Agriculture Organization of the United Nations, Rome.
- FAO (2021). Tracking progress on food and agriculture-related SDG indicators 2021. A report on the indicators under FAO custodianship. Food and Agriculture Organization of the United Nations, Rome.





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Presenter' bio

Giordano Stella

- MSc in Sustainable Agriculture at the University of Perugia (Italy) in 2013
- PhD in Energy and sustainable development in 2017
- Temporary research assistant at University of Perugia
- My researches are focused on agro-economics, Food Sovereignty, Alternative Food Networks, organic agriculture and agroecology

