



Webinar: "Data and information management and sharing in the Decade: why, who, what and how?"



Digital innovation Hand-in-Hand with fisheries and ecosystems scientific monitoring; the FAO Fisheries & Environmental Atlas

by Marc Taconet, alternate focal point SDG Indicator 14.4.1



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with contributions from NFISI team: Anton Ellenbroek, Aureliano Gentile, Tamsin Vicary, Emmanuel Blondel, Yann Laurent; and Gianpaolo Coro (CNR-ISTI)



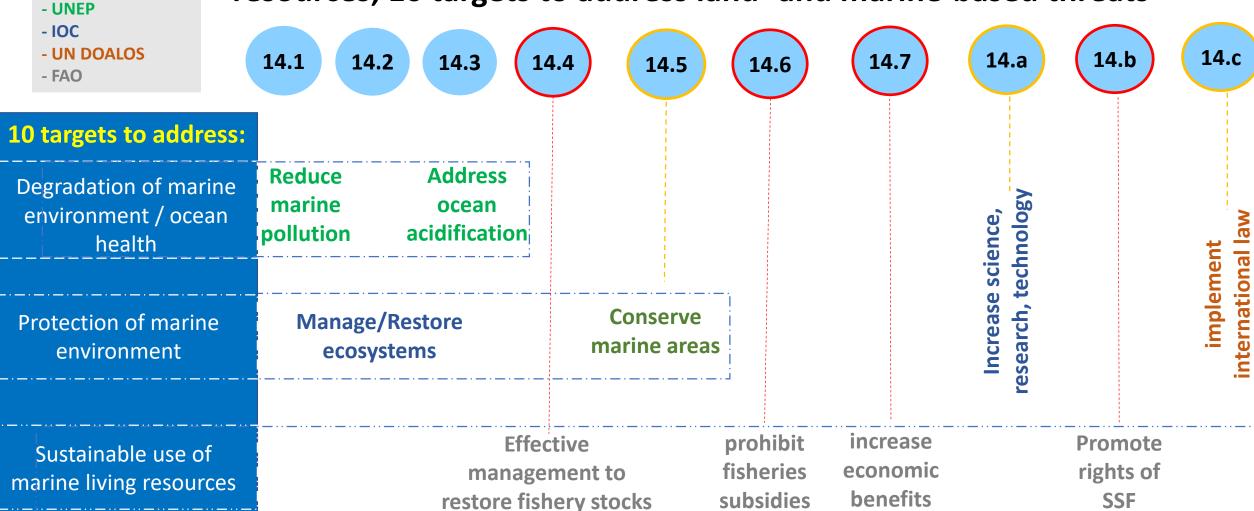


Overview of the Goal 14



Custodian agencies

Goal 14 is to conserve and sustainably use the oceans, seas and marine resources; 10 targets to address land- and marine-based threats



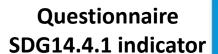


POLICY

Food and Agriculture Organization of the Scope of intervention — Catch and Effort data from field data collection to policy

Global inventories of Stocks

Global State of stocks

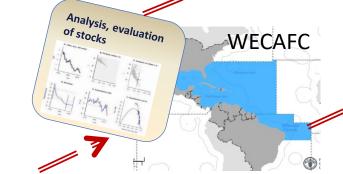












Regional databases and shared stocks assessment



Blue-Cloud

GRSF

Global catch statistics



National fisheries information systems



Broad partnerships for FAIR implementation and data sharing













New technologies and platforms

Data and statistical standards

Partnerships for data/information sharing



































National technology institutes

GLOBAL



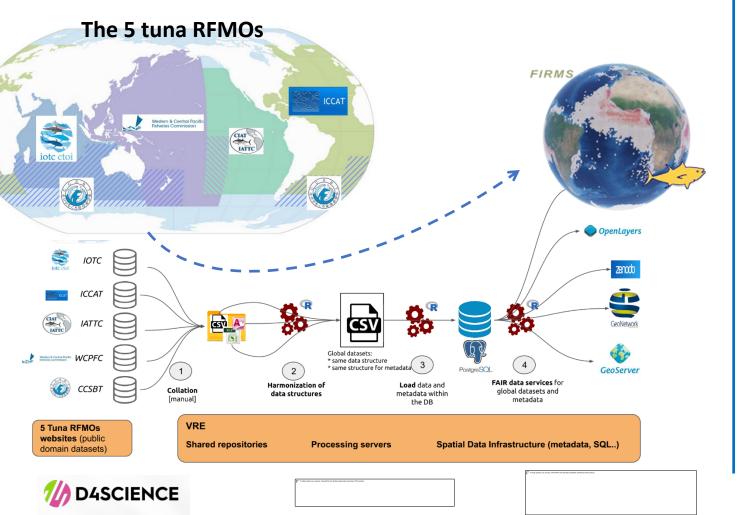
FAIR data flows along the data value chain

Accessible Interoperable





- ex. the FIRMS Tuna Atlas [fisheries Atlas]





Discovery metadata Dols



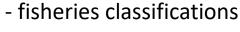


Map viewer, Well known standard data formats and protocols





Implement standards in different domains:





- Data Cite









Rich usage metadata **DOIS** R for OpenScience





FAO custodian agency – a key role for capacity building

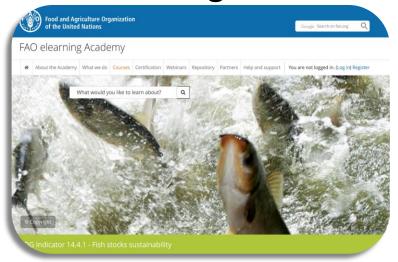
regions where the greatest fisheries

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management support is required.

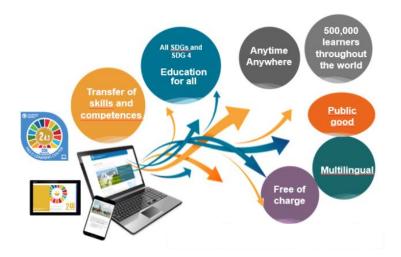
(40 minutes

FAO eLearning ACADEMY

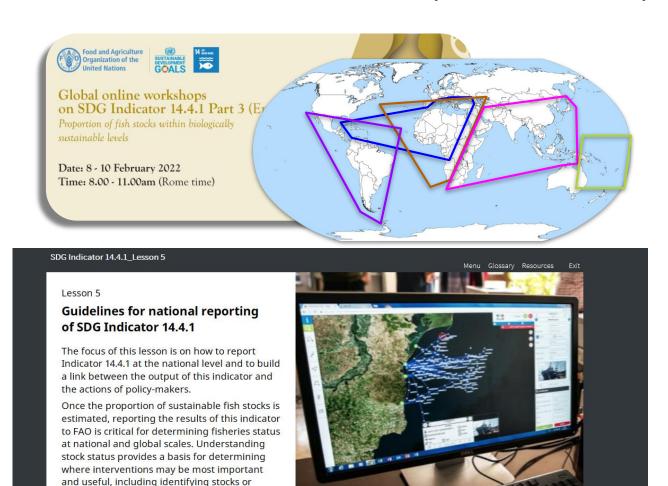


eLearning course (EN, FR, ES, RU):

https://elearning.fao.org/course/view.php?id=502



SDG 14.4.1 indicator - online and in person workshops



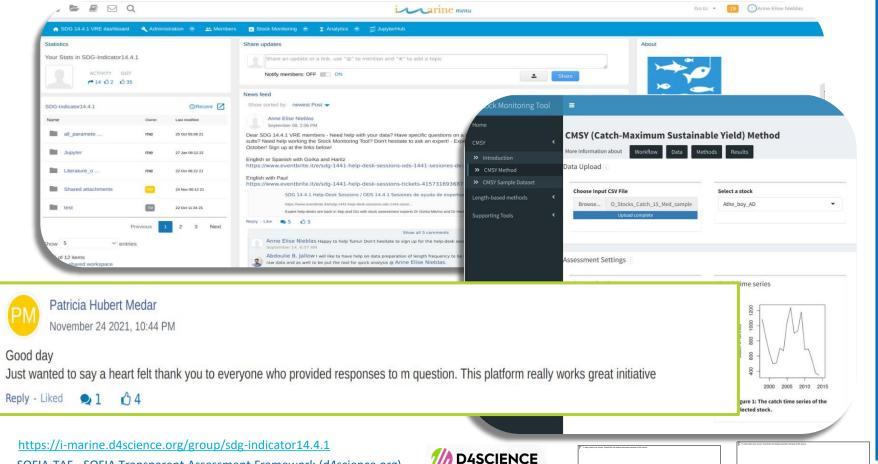
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Digital innovation in support to capacity building

i-marine Virtual Research Environments (VREs) for hands-on training:

- R shiny SDG 14.4.1 **Stock Monitoring Tool** to explore data-limited methods
- SOFIA-Transparent Assessment Framework VRE with online Rstudio hosting SRA+
- community dashboard of >1000 participants worldwide for > 100 countries



Help desk support with stock assessment experts



Dr Anne-Elise Nieblas, FAO (English, French)



Dr Andrea Dell'Amico, CNR (English, Italian)



Dr Paul Tuda, ZMT/FAO (English)



Dr Gorka Merino, AZT (English/Spanish)



Dr Haritz Arrizabalaga, AZTI (English/Spanish)



Dr Youen Vermard, Ifremer (English/French)

SOFIA-TAF - SOFIA Transparent Assessment Framework (d4science.org)

Atlases in support to Science



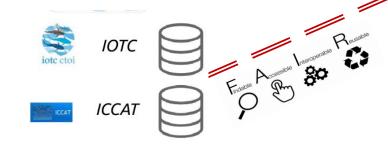
Calipseo



National fisheries information systems



Regional databases support to shared stock assessment





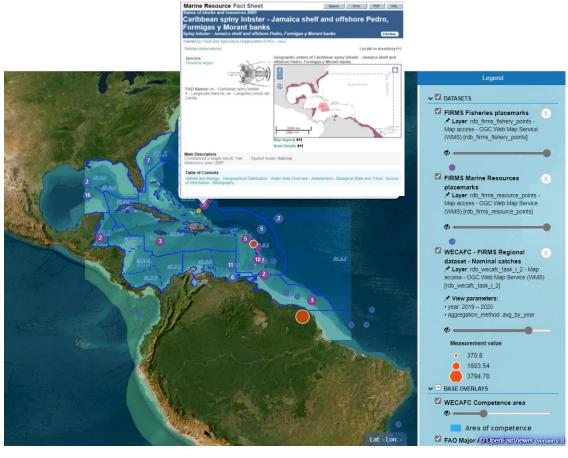


AO - Fisheries and Aquaculture Information and Statistics Branch - 23/09/2019



Atlases in support to Science-to-Policy interface

Fact sheets on stock status



WECAFIS - https://www.fao.org/wecafc/data/wecafis/en/

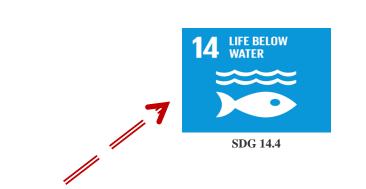
Regional database in support to management policies

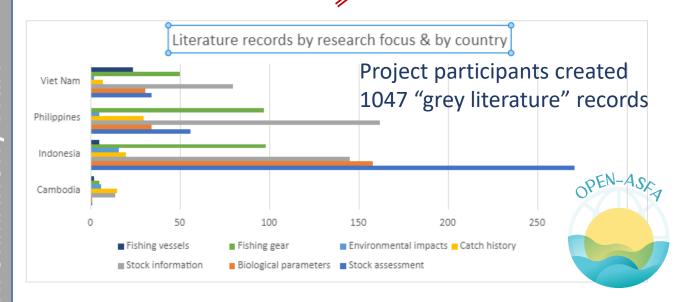


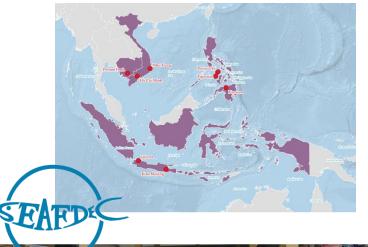


Digging up local / non accessible information – OpenASFA

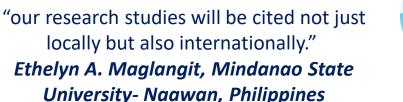












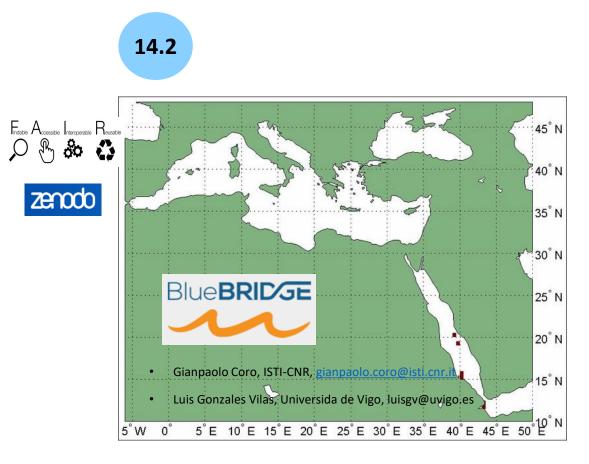


FAO-ASFA-SEAFDEC report





On contributions for mainstreaming biodiversity in fisheries



Predictions of spread of invasive species – case of Puffer fish *Lagocephalus sceleratus* in the Mediterranean

Distributions of 1508 species living in European seas and their projections for 2050 and 2100 https://zenodo.org/records/7898942



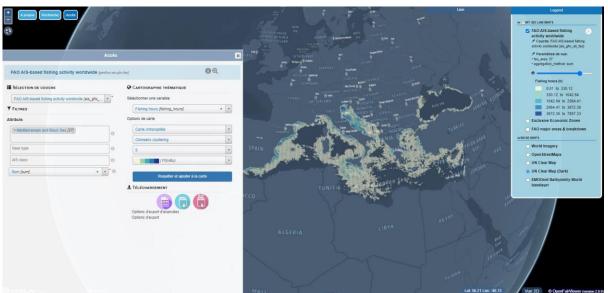


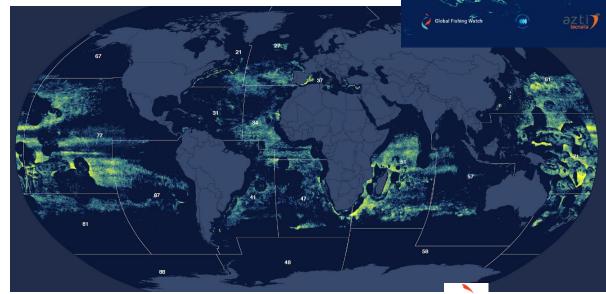
Possible candidate for the reporting of Other Effective Conservation Measures (OECMs) in marine fisheries, under Target 3 of Kunming-Montreal Global Biodiversity Framework



Thank you for your attention

Looking forward to the discussion













WATCH

Global Atla

Challenges and opportunities

of AIS-based

fishing activity