Carbon standards and sustainable agriculture

Addressing the risk of fragmentation

Clara Frezal, OECD Trade and Agriculture Directorate





Food systems exert important pressures on the environment

Land use

50%

of all ice- and desert-free land is used for agriculture

Deforestation

73%

of tropical and sub-tropical deforestation (2000-10)

Biodiversity loss

80%

of threatened land species are in danger due to habitat loss driven by agriculture

Water use

70%

of global freshwater use Water pollution

78%

of global eutrophication

Climate change

34%

of man-made GHG emissions



Proliferation of carbon footprint initiatives

Measurement

- Product level GHG accounting standards and guidelines (e.g., LCA)
 - ISO
 - GHG Protocol
 - FAO LEAP
 - International Dairy Federation guidance
- Firm level GHG accounting standards and guidelines
 - GHG Protocol Agricultural guidance
 - US dairy guidance
- GHG calculation tools
 - The Cool Farm Tool
 - Farm ES (US dairy)
 - COMET Farm (USDA)

Communication

- Product level carbon footprint labels and claims
 - Eco score
 - Eco impact
 - Carbon trust
 - Carbon cloud
 - ...
- Firm level carbon disclosure (scope 1, 2 & 3 emissions)
 - Carbon Disclosure Project
 - ...





Fast and fu CAR

The IDF globar carbon

Footprint standard for

the dairy sector











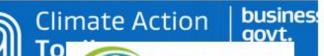














RESEARCH ARTICLE SUSTAINABILITY SO





Estimating the environmental impacts of artious roughly

Origin

Green IRELAND develop.

cutrophication potential. Using the approach on 57,000 products in the United Kingom and Ireland shows food types have low (e.g., sugary beverages, fruits, breads), to g., many desserts, pastries), to high environmental impacts (e.





estimates of the environmental







CARBON

TRUST

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CARBON TRANSPARENCY









Opportunities and challenges

- Opportunities: growing awareness and actions
 - Could help speed up the transition towards more sustainable agriculture
- Challenges: risk of fragmentation
 - High transactions costs
 - Barrier to trade
 - Limited environmental benefit
- > Need for international cooperation



OECD initiatives for cooperation

- Global Forum on Agriculture: Carbon footprint in food systems (25th April 2023)
 - 291 delegates and 20 experts (public and private)
 - Drivers
 - Standards, conformity assessment and communication
 - Trade implications
 - Role for the OECD
- Food Chain Analysis Network: Measuring and communicating environmental impacts of food products (22-23rd June 2023)
 - Stocktaking of countries' initiatives (public mainly)
 - Identify key issues and ways of addressing them
 - Focus first on carbon, then on other environmental impacts





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