



Food and Agriculture
Organization of the
United Nations

17-21 October 2022

FAO SCIENCE AND INNOVATION FORUM

Harnessing science, technology
and innovation for transforming
our agrifood systems

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SIDE EVENT

10:00 - 11:00 | VIRTUAL

13
October
2022

Livestock and greenhouse gas emissions: Launch of the GLEAM Dashboard to access updated data

FAO's Global Livestock Environmental Assessment Model (GLEAM) provides a wealth of high-resolution greenhouse gas (GHG) emission data relating to livestock systems globally. These estimates are used by diverse stakeholders – including the private sector, countries and international organizations – to understand the nature and origins of GHG emissions from livestock systems, and so to help design and plan effective climate action in the sector. This event will mark the release of the latest estimates of livestock's GHG emissions from an updated version of the model and launch the GLEAM Dashboard, an interactive web platform to visualize and analyze livestock emissions with a high level of detail.

REGISTER

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Side event organized by

Food and Agriculture Organization of the United Nations

Background and rationale

For more than 15 years, FAO's Global Livestock Environmental Assessment Model (GLEAM) has been a key resource for data related to greenhouse gas (GHG) emissions from livestock systems. GLEAM estimates are based on a life cycle assessment along the entire production chain whereby emissions of carbon dioxide (CO₂), methane (CH₄) and nitrous oxide (N₂O) are allocated to animal-source foods (meat, milk, and eggs) both as total emissions and as emission per unit of produce. These detailed data are crucial to understanding the nature of GHG emissions in diverse regions and systems, and in planning GHG mitigation actions in the context of achieving sustainable development objectives.

The GLEAM Dashboard provides a highly interactive web interface to these data through a set of online visualization and analysis tools as well as web mapping technologies from FAO's Hand-in-Hand geospatial platform. The GLEAM Dashboard can help livestock stakeholders, including farmers, countries, researchers, donors and international development agencies, as well as the general public, to better understand the sector's impact and to make informed decisions regarding livestock emissions.

During the event, the GLEAM Dashboard will be officially launched with a live demonstration of its key features and the latest (2015) estimates of GHG emissions, in relation to the upcoming IPCC Assessment. Representatives of key stakeholders and GLEAM collaborators from the private sector, countries, and organisations concerned with greenhouse gas emissions will highlight case studies that have used results from GLEAM to understand emissions and design mitigation projects.

AGENDA

10:00

OPENING

Opening remarks

Thanawat Tiensin, NSA Director (moderator)

Welcome statement

Maria Helena Semedo, FAO Deputy Director General

10:15

THE GLEAM DASHBOARD

Presentation and launch of the dashboard with GLEAM v3 data

Dominik Wisser, Livestock Policy Officer, FAO

Keynote speech: GLEAM data for the Pathways to Dairy Net Zero

Donald Moore, Executive Director, Global Dairy Platform

Examples for the use of GLEAM data to inform policy debates

Bernard Kimoro, Kenya State Department for Livestock**Mirella Salvatore, FAO's Office of Climate Change, Biodiversity and Environment****Andrew Bisson, United States Agency for International Development****Martina Otto, Secretariat of the Climate and Clean Air Coalition**

10:45

Q&A

11:00

CLOSING

Closing remarks

Thanawat Tiensin, NSA Director