



Food and Agriculture Organization
of the United Nations

Livestock Environmental Assessment and Performance (LEAP) Partnership



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LEAP Chair 2019, Director General, International Dairy Federation (IDF)

LEAP Plenary Meeting 2019
21 October 2019, Rome, Italy



The FAO LEAP Partnership is a multi-stakeholder initiative convened by FAO currently composed of 356 partners.



Steering Committee

- Governments: 21 countries, 1 associate member
- Private sector: IFIF, IDF, IMS, IEC, IPC, WFO, ICT, IWTO
- CSOs and NGOs: WAMIP, WWF, IUCN, IPCFS, World Vision

Secretariat

- Food and Agriculture Organization of the United Nations

Technical Advisory Groups

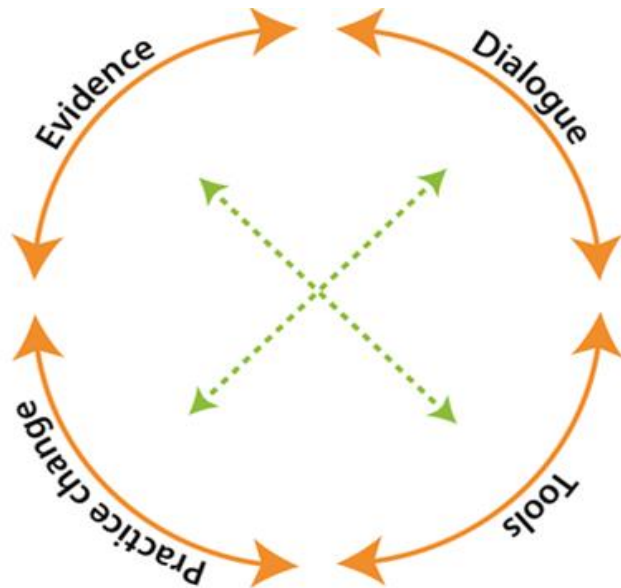
- 11 TAGs, 290 technical experts

Additional 30 participants

- International organizations, national agencies, private sector, CSOs, NGOs

FAO LEAP is an associate action network of the **Global Agenda for Sustainable Livestock (GASL)**

LEAP builds consensus on comprehensive guidance and methodology to assess the environmental footprint of feed and livestock production



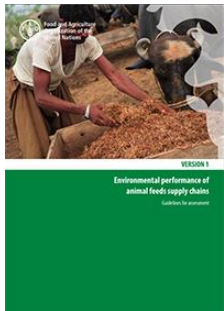
SUSTAINABLE DEVELOPMENT GOALS
17 GOALS TO TRANSFORM OUR WORLD



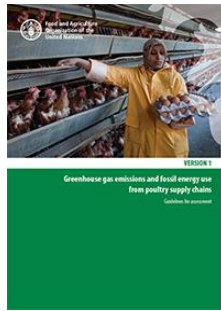
LEAP products are essential for feed and livestock sectors to accelerate the sustainable development

LEAP1&2 (2012-2018) | Achievements

Feed



Poultry



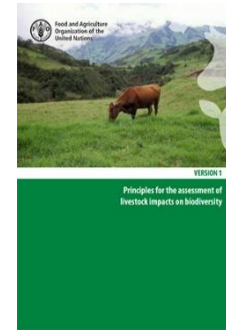
Small ruminants



Pigs



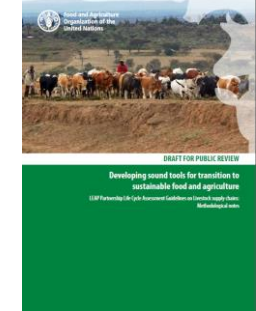
Biodiversity



Large ruminants



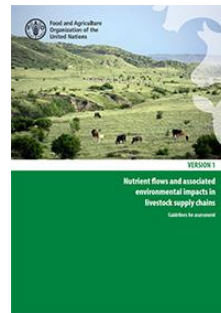
Methodological notes



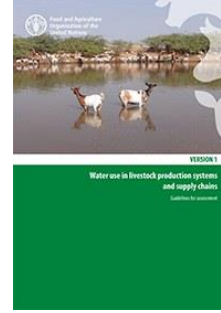
Soil Carbon



Nutrients cycle



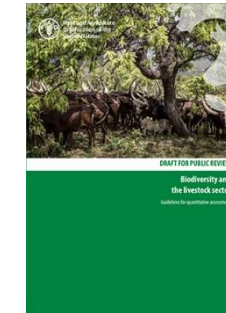
Water



Feed additives



Biodiversity



Feed crops database

Crop Region Type Country

Agro Ecological Zone Production System Production Practice

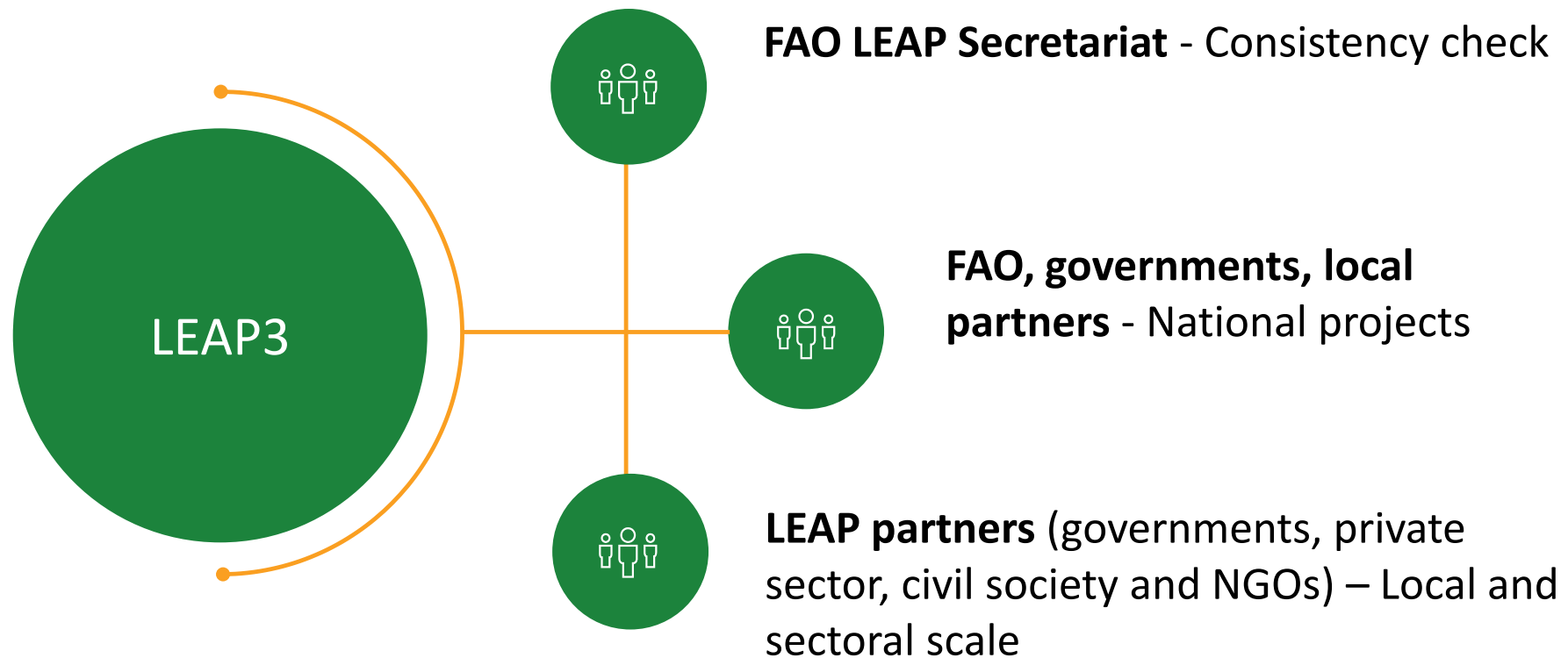
Life Cycle Inventory (LCI)

Item	Value	Unit
Seed rate	1815.3	kg / ha
Organic fertilizer	2778.2	kg N / ha
Artificial fertilizer	2311.2	kg N / ha
Urea	0.04	kg / ha
Mineral soil	0.227	kg / ha
NPK	0.332	kg / ha
Art. NPK	0.042	kg / ha
Lime	137.8	kg / ha
Phosphorus	131.5	kg / ha
Protein	1155.5	kg / ha
Planting	12	kg / ha
Seedbed preparation	12	kg / ha
Sowing	12	kg / ha
Organic fert. Application	12	kg / ha
Synthetic fert. Application	12	kg / ha
Phosphate spraying	12	kg / ha
Weeding	12	kg / ha
Irrigation	12	kg / ha
Harvesting	12	kg / ha
Yield	1580.75	kg DM / ha

GLEAM output

Item	Value	Unit
Seed	87.22	kg CO ₂ -eq / kg DM
Organic fertilization	190.46	kg CO ₂ -eq / kg DM
Synthetic fertilization	1178.73	kg CO ₂ -eq / kg DM
Energy use	61.83	kg CO ₂ -eq / kg DM
Crop protection	177.72	kg CO ₂ -eq / kg DM
Land work	318.36	kg CO ₂ -eq / kg DM
Total excl. 100/LUC	1970.13	kg CO ₂ -eq / kg DM
Land use	0.23	kg CO ₂ -eq / kg DM
Land use change	0.23	kg CO ₂ -eq / kg DM

LEAP3 (2019-2021) | Guidelines road testing



A leap towards low carbon livestock

LEAP Plenary Meeting

21 October | 13.00-17.00 | Sheikh Zayed Centre

#FAOLEAP

www.fao.org/webcast



Thank you

