

GLOBAL AGENDA FOR SUSTAINABLE LIVESTOCK

GLOBAL AGENDA FOR SUSTAINABLE LIVESTOCK 8th MSP meeting Ulaanbaatar, Mongolia, 11-15.06.2018

Livestock Environmental Assessment and Performance (LEAP) partnership - Achievements from 2012-2018

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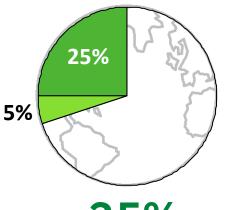








Why LEAP?









25% rangelands

14.5% GHG emissions

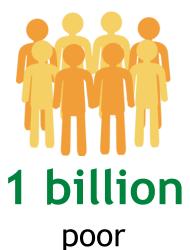
30% agric. water footprint

>10000 species lost

30% proteins



40% agric. GDP





Why LEAP?

Growing recognition of the importance of livestock for addressing sustainability

- 92 developing countries have included livestock in their NDCs
- Agriculture now explicitly addressed in the UNFCCC negotiation process, countries to submit their views on improved livestock management, soil carbon and fertility in grassland, nutrient use and manure management
- Livestock contributes to all SDGs

LEAP in a nutshell

LEAP is a multi-stakeholder partnership of Governments, Private Sector, NGOs and CSOs, and other stakeholders united by a shared commitment to the environmental management and sustainable development of the livestock sector

LEAP develops methodological guidance to assess the environmental performance of livestock supply chains and generate evidence for shaping policy measures and business strategies

LEAP structure



The steering committee provides funding and guidance for the activities



The **secretariat** hosted at FAO coordinates the activities



Technical Advisory Groups build methodological consensus and draft the guideline documents



✓ Steering Committee: equal say

✓ Secretariat hosted at FAO

 Participation is open and voluntary: members recognize the objective and principles of LEAP

The LEAP steering committee

Countries - Argentina (Observer status), Australia (Observer status), Brazil, China (Observer status), Canada, Costa Rica (Observer status), France, Hungary, India (Observer status), Ireland, Kenya, The Netherlands, Switzerland, New Zealand, Nigeria, Italy, Uruguay

Private sector - International Feed Industry Federation (IFIF), International Dairy Federation (IDF), International Meat Secretariat (IMS), International Egg Commission (IEC), International Poultry Council (IPC), International Wool and Textiles Organization (IWTO), International Council of Tanner (ICT)

NGOs/CSOs - World Wildlife Fund (WWF), World Vision International, World Alliance of Mobile Indigenous Peoples (WAMIP), International Planning Committee for food, sovereignty (IPC), International Union for Conservation of Nature (IUCN)

Advisors & networking - ISO, TU Berlin, Global Research Alliance, Joint Research Centre, European Commission, UN Environment, OIE, World Bank

Key principles underpinning LEAP Guidelines

- \checkmark Global, inclusive perspective, region specificities
- \checkmark Science-based approach
- ✓ Consensus
- ✓ Harmonization (starting from alignment with relevant international standards)
- ✓ Transparency
- \checkmark Continuous improvement and adoption

LEAP 1: 2012-2015

Developing reference environmental assessment tools

- 6 Technical Advisory Groups (TAGs)
- 300 experts from all world regions
- 6 Technical Guidance documents
- I Global database for the 5 main feed crops



Small Ruminants



Crop Burley RegionType FAO Region Western Country Austria	Lurope	Agro Ecological Zone Production System Production Practice	Temprate Jrigsted Minimal tillage	
Life Cycle Inventory (LCI)		GLEAM outpu	GLEAM output	
Seed rate	1851.3 kg / ha	Seed	37.03 kg CO2-eq / kg DM	
Organic fertilizer	5778.2 kg N / ha	Organic fertilisation	196.46 kg CO2-eq / kg DM	
Artificial fertilizer	2311.3 kg N / ha	Synthetic fertilisation	1178.75 kg CO2-eq / kg DM	
Urea 0.034 - AN Nitrate sol. 0.227 - CAN NPK 0.132 - AP Anh. NH ₄ 0.062 - AS	0.22 - 0.15 -	Energy use	61.63 kg CO ₂ -eq / kg DM	
Lime	577.8 kg / ha			
Phosphorous	1155.6 kg / ha			
Pesticides	11556.4 kg Al / ha	Crop protection	177.72 kg CO2-eq / kg DM	
	Mech Oxen Manual	1		
Ploughing	1 # / yr 0.2 0.8 0	Land work	318.96 kg CO2-eq / kg DM	
Seedbed preparation	1 # / yr 0.2 0.8 0			
Seeding	1 # / yr 0.2 0.8 0			
Organic fert. Application	1 # / yr 0.2 0.8 0			
Synthetic fert. Application	1 # / yr 0.2 0.8 0			
Pesticide spraying	2 # / yr 0.2 0.8 0			
Weeding	1 # / yr 0.2 0.8 0		1970.55 kg CO2-eq / kg DM	
Irrigation	3 # / yr 0.2 0.8 0			
Harvesting	1#/yr 0.2 0.8 0			
Yield	138676.7 kg DM / ha	Land use Land use change	0.22 kg CD2-eq / kg DM 0.24 kg CD2-eq / kg DM	

Large ruminants



Environmental performance of large ruminant supply chains





Greenhouse gas emissions and fossil energy use from small ruminant supply chains Guidelines for assessment

Feed



Environmental performance of animal feeds supply chains

Biodiversity



Principles for the assessment of livestock impacts on biodiversity



Pigs

Poultry

DRAFT FOR PUBLIC REVIEW

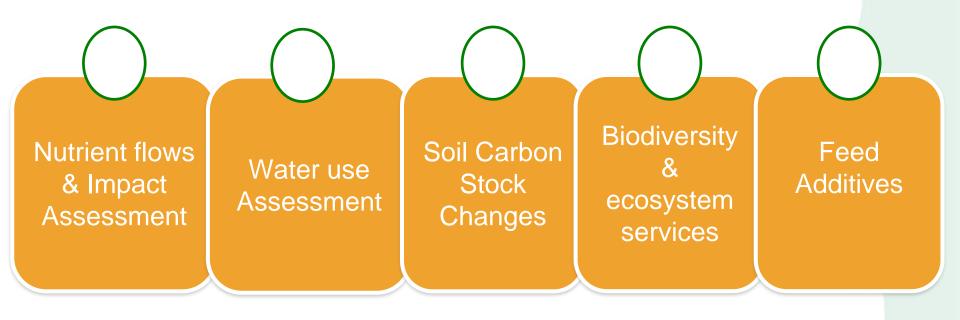
VERSION 1

Greenhouse gas emissions and fossil energy use

from poultry supply chains

Environmental performance of pig supply chains Guidelines for assessment

LEAP+ (2015-2018): broadening the scope



Nutrient tag TAG

- Public review over
- Revisions done by end of April
- Under edition
- Publication by July 2017



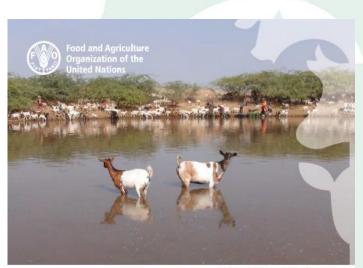
DRAFT FOR PUBLIC REVIEW

Guidelines for environmental quantification of nutrient flows and impact assessment in livestock supply chains

Water TAG

- Release for public review in May
- Final publication in October



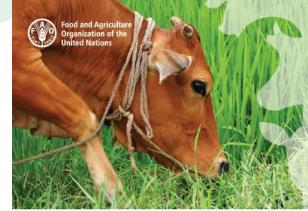


DRAFT FOR PUBLIC REVIEW

Water use of livestock production systems and supply chains Guidelines for assessment

Soil carbon TAG

- Release for public review until 21st August 2018
- Final publication in November
- Implementation in GLEAM from September in collaboration with INRA-France



DRAFT FOR PUBLIC REVIEW

Measuring and modelling soil carbon stocks and stock changes in livestock production systems Guidelines for assessment



Biodiversity TAG

- 2nd face-to-face meeting in January 2018
- 1st draft for technical review expected in June 2018
- Public Review in August 2018
- Publication in November 2018



Feed additives

- 1st face-to-face meeting in February 2018
- 2nd face-to-face meeting in July 2018
- 1st draft ready by August 2018
- Public review by October 2018
- Publication in December 2018



LEAP1 and LEAP+ achievements

LEAP guidelines have contributed to various initiatives

- EU Product Environmental footprint
- IDF Guide on Biodiversity for the Dairy Sector
- Cool Farm Tool
- Task Force for Reactive Nitrogen



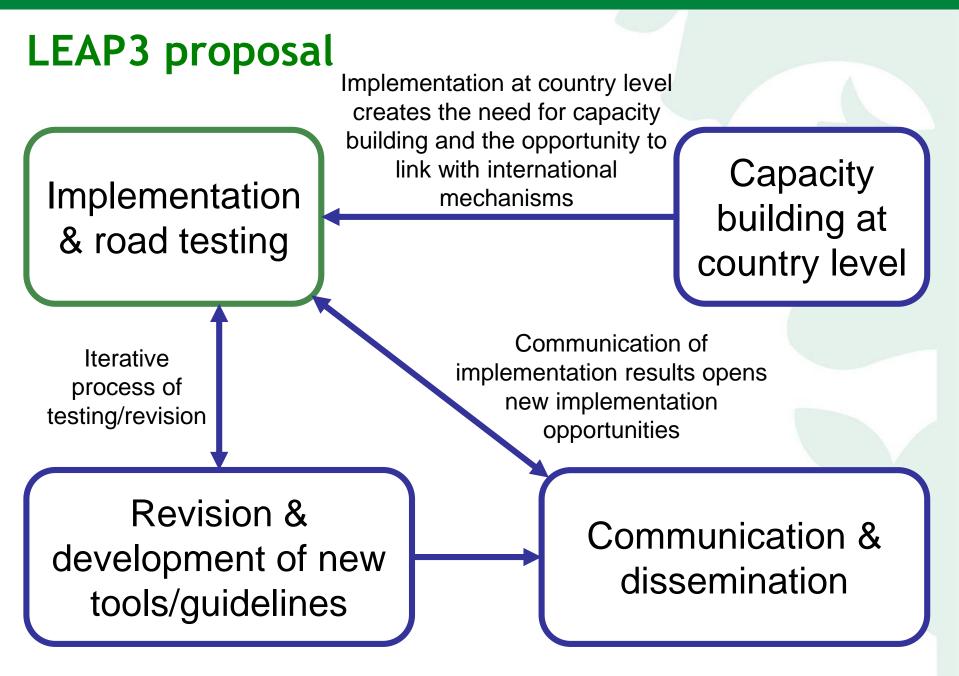
Road Testing

To evaluate the applicability of LEAP guidelines

To get feedback on the clarity of recommendations

To identify gaps in recommendations and barriers preventing application and endorsement

LEAP 3 proposal



Implementation & road testing

- LEAP guidelines are intended to be relevant at the global scale to the diversity of existing livestock production systems
- There is a need to test the global relevance and applicability of the guidelines - especially in developing countries and smallholder production systems
- There is a need to understand how the guidelines are used and how they can be improved

Outputs

- Technical support for road testing
- Database compiling all applications of LEAP guidelines, to facilitate knowledge exchange between users and collection of feedback for revision of the guidelines

Revision & development of new tools

- LEAP keeps setting a high standard for science of livestock environmental assessments and follows the latest methodological developments
- Road testing allows to tailor revised/new products to the users' needs so they reach their maximal potential
- Efforts are made towards multi-criteria assessments and integration of the different LEAP guidelines
- Tools support road testing by simplifying the application of the guidelines for the user

Outputs

- Revised versions of LEAP guidelines
- User-friendly tools integrating several LEAP guidelines and providing default data
- New LEAP guidelines on priority topics (e.g. eco-toxicity, ex-ante scenario assessment, ecosystem services)

Capacity building at country level

- Implementation at country level creates the need for capacity building and the opportunity to link with international mechanisms
- For national inventories and reporting progress towards UNFCCC targets, LEAP guidelines could fill the gap of assessment tools
- The Paris Agreement recognize the key role of the private sector and LEAP in an excellent position to build on synergies between stakeholder

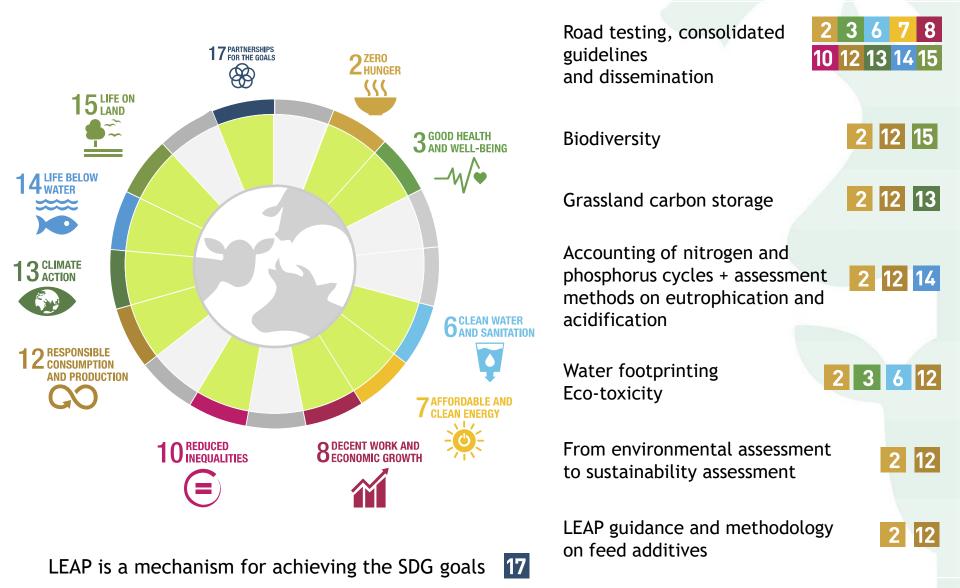
Outputs

- Workshops, training course, webinars and on-line courses for capacity building of national technical services
- LEAP products are used in the context of international mechanisms (e.g., UNFCCC, CBD, IPCC)

Communication & dissemination

- Guidelines are disseminated to ensures their implementation
- In turn, communication of implementation results opens new implementation opportunities
- Communication around the frequent publication of revised version supports the testing/revision iterative process
- Synergies with the current SC task force on communication
- Outputs
- Communication plan (synergies with the current SC task force on communication)
- Communication material

LEAP & Sustainable Development Goals



Getting involved in LEAP

- Participate to the development of guideline documents by applying as an expert in Technical Advisory Groups
- Review the draft guidelines document before their final publication
- Use or road test the guidelines to ensure their applicability and representativeness

http://www.fao.org/partnerships/leap/en/ Livestock-partnership@fao.org



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THANK YOU



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