

Innovations in Uruguay to address issues related to livestock climate and natural resources use

Global Agenda for Sustainable Livestock
Kansas, September 9th-13th, 2019

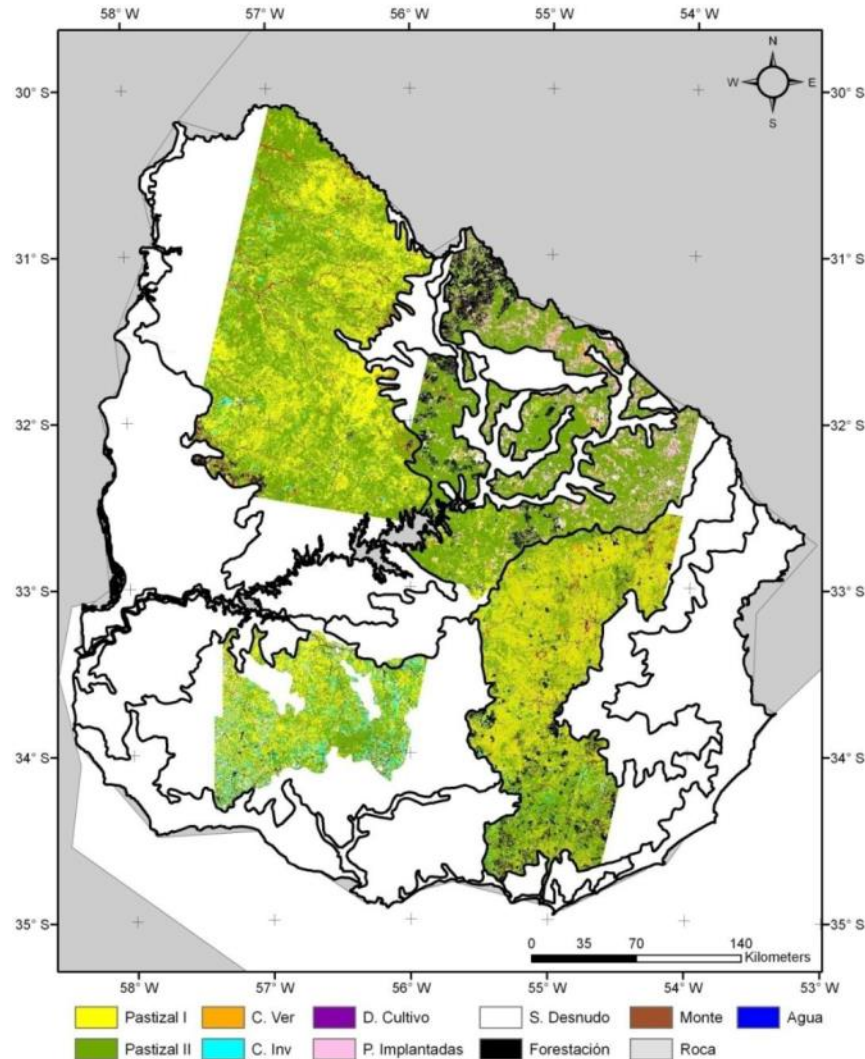
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A decorative graphic in the bottom right corner consisting of several overlapping, semi-transparent green triangles and polygons of various shades, creating a modern, abstract design.

- ▶ Uruguay is a country with an economy strongly based on the livestock sector



Half of the territory is covered with high biodiversity Pampa's rangelands



Uruguay's Beef Sector

Mostly grass-fed beef



Mandatory individual traceability system



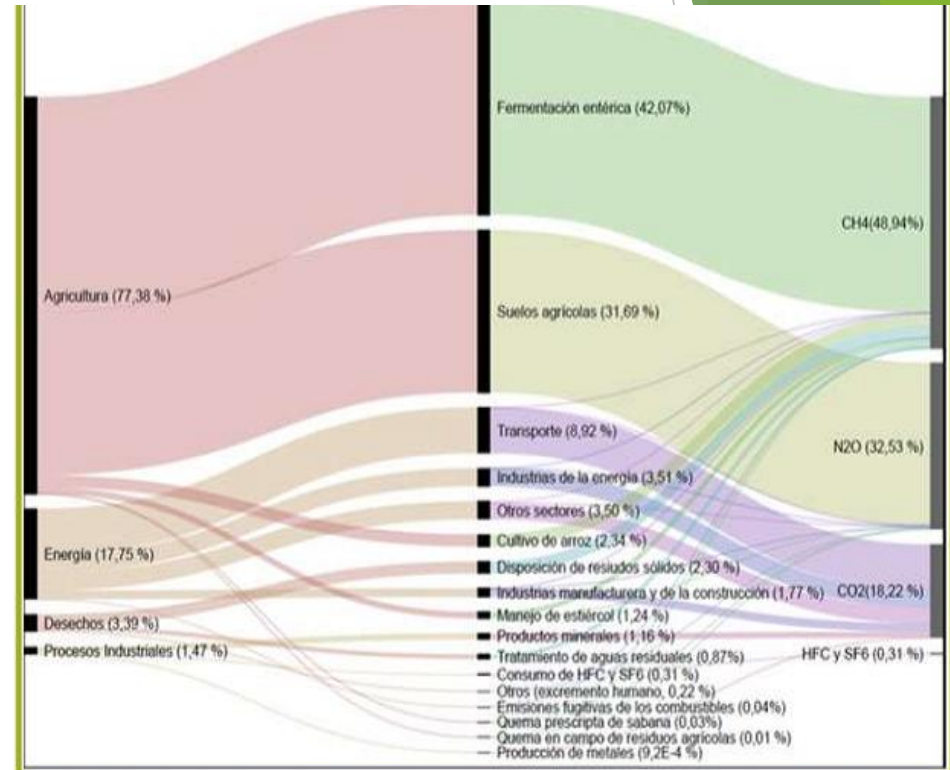
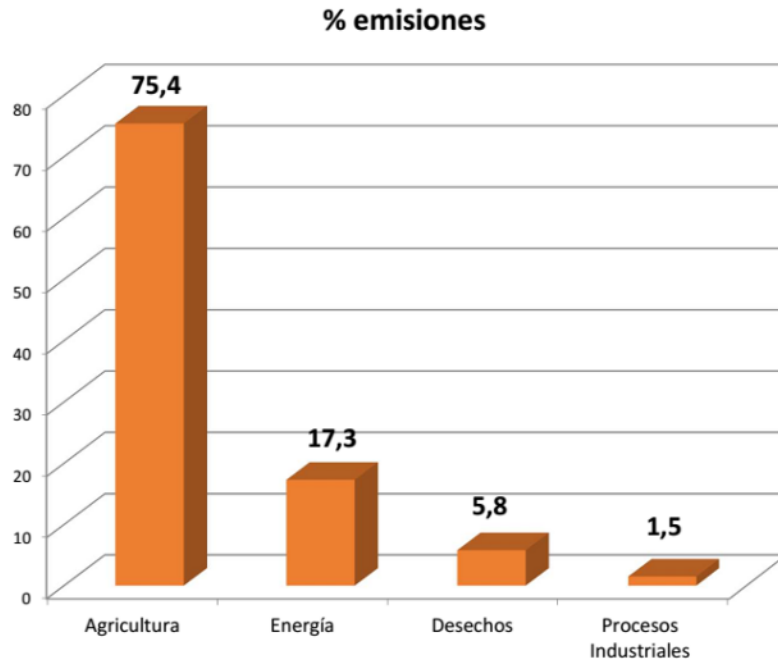
Growth
promoters are
prohibited by
law



From farm to
export product

Zero
deforestation

Importance of GHG emissions of livestock in Uruguay



Gráfica 2.4: Distribución de emisiones nacionales por sector y categoría con métrica GWP, 2010

► Key sector in NDCs, NAMAs and NAP

Policies have set simultaneous targets to be achieved

1. More food and fibers.
2. Less environmental footprint.
3. Mitigation and adaptation of/to CC.



A new paradigm to guide the transformational change of livestock in Uruguay:

**in search of higher social
and environmental value
added**

Approach: co-benefits (What?) & Co-innovation (How?)



Co-benefits

Productivity
Económico
Social
Welfare
Biodiversity
Soil fertility
Ecosystem services

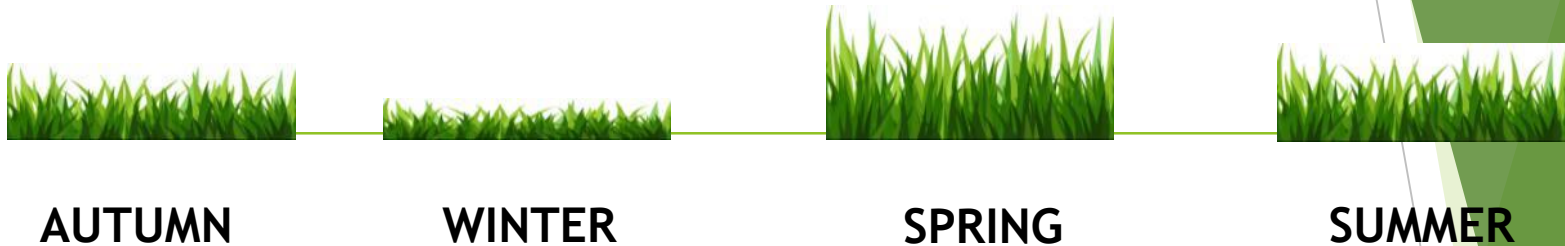


Co-innovation

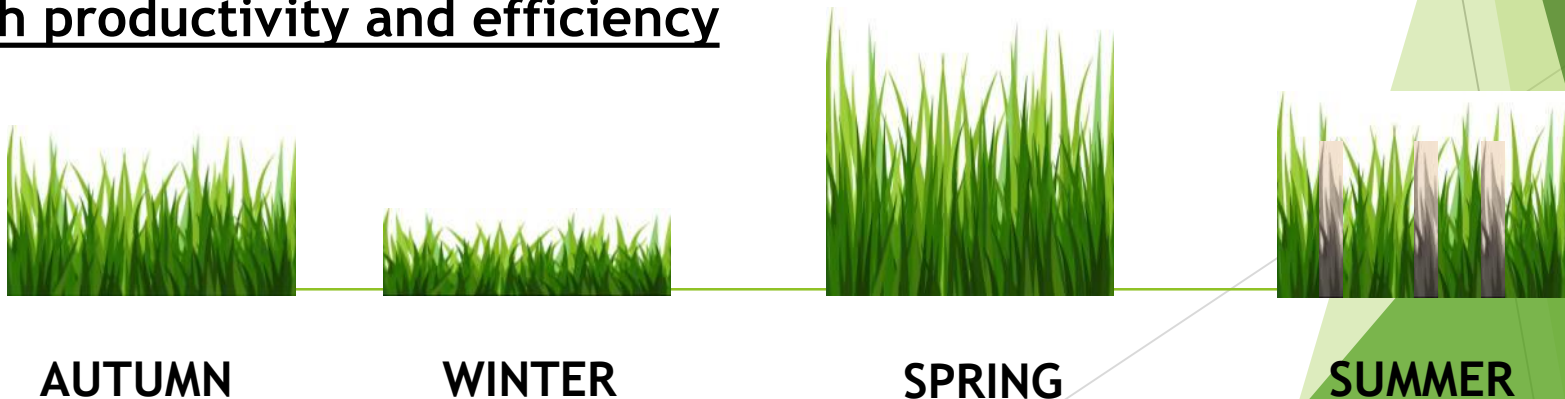
Farmer <-> Adviser <->
Institutions
Learning <-> Planning
Systemic vision of the farm
and the value chain

Innovations in grazing management: “Working with more grass”

Baseline: overgrazing, low NPP and low forage supply;
low productivity and low efficiency



Alternative: high leaf area and high NPP, high forage supply;
high productivity and efficiency

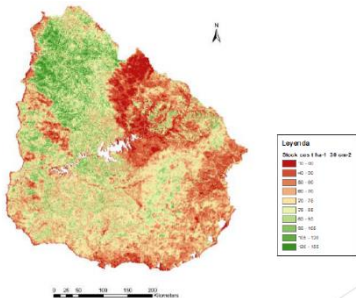


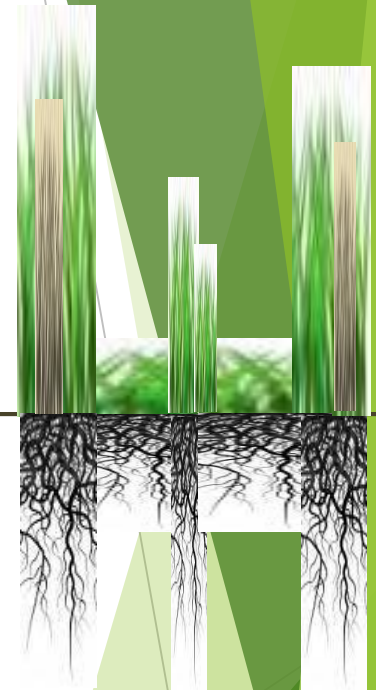
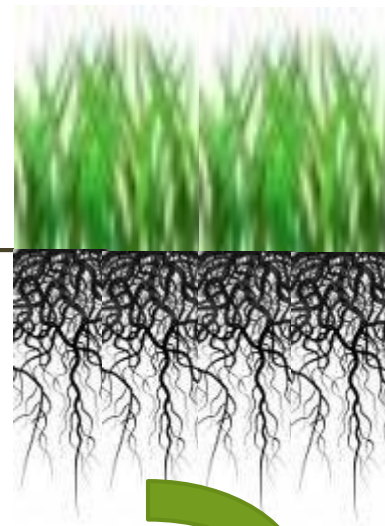
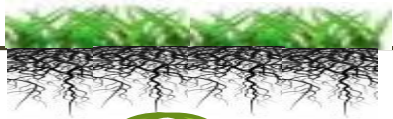
Innovations in herd management to increase efficiency and productivity

- Improve body condition of cows at birth
- Temporary and early weaning
- Flushing
- Reduce age of heifers at first mating
- Increase weaning rate
- Decrease slaughter age

C sequestration in soils and biomass can play a key role in sustainability and climate action

The challenge of transparent and sound monitoring. GHG inventories are a key piece.





Less SOC



+ C
y + N

Rebuilding SOC



Uruguay's NDC: first developing country to set mitigation targets in terms of emissions intensity in the beef sector (per kg beef)

	2030 vs. 1990 inconditional	2030 vs 1990 with MOI
CH₄	33% less	46% less
N₂O	31% less	41% less

Finally, co-innovation should let us

- ▶ Use animals better for what they are good for.
- ▶ Make better use the one third of terrestrial surface covered with grasslands.
- ▶ Increase recycling of residues/by products of cropping and other activities contributing to a circular bioeconomy.
- ▶ Recognize the multiple values of nature contributions to people via animal husbandry (meat & ecosystem services): environmental value added.
- ▶ Minimize trade-offs.
- ▶ Innovation requires re-design production systems based on socio-ecological principles

¡Thank you!

