

time² graze

The vision that drives us...



Santiago Fariña
15th September 2026

Objective

Improve grazing management decision-making for more productive, lower-emission livestock systems.

**time²
graze**



AGRICULTURE

PRIORITY ACTIONS



Improve
measurement and
accountability



Motivate win-
wins



Accelerate
R&D



Encourage
company action



Influence
public policy

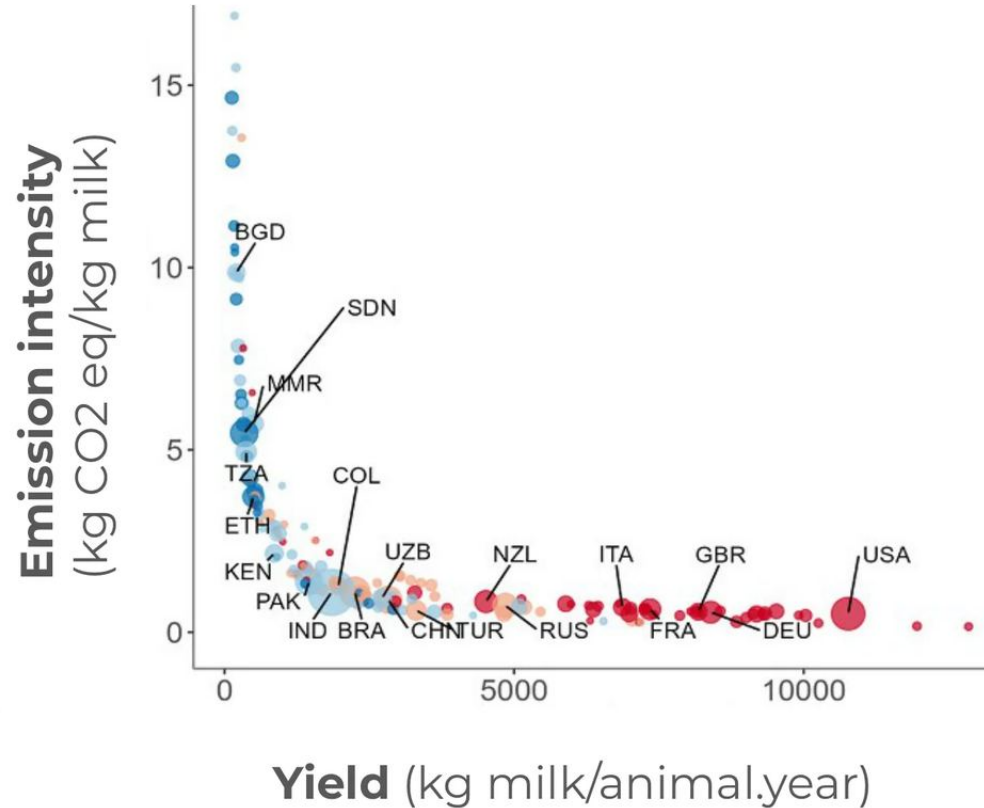


Catalyze finance
and investment

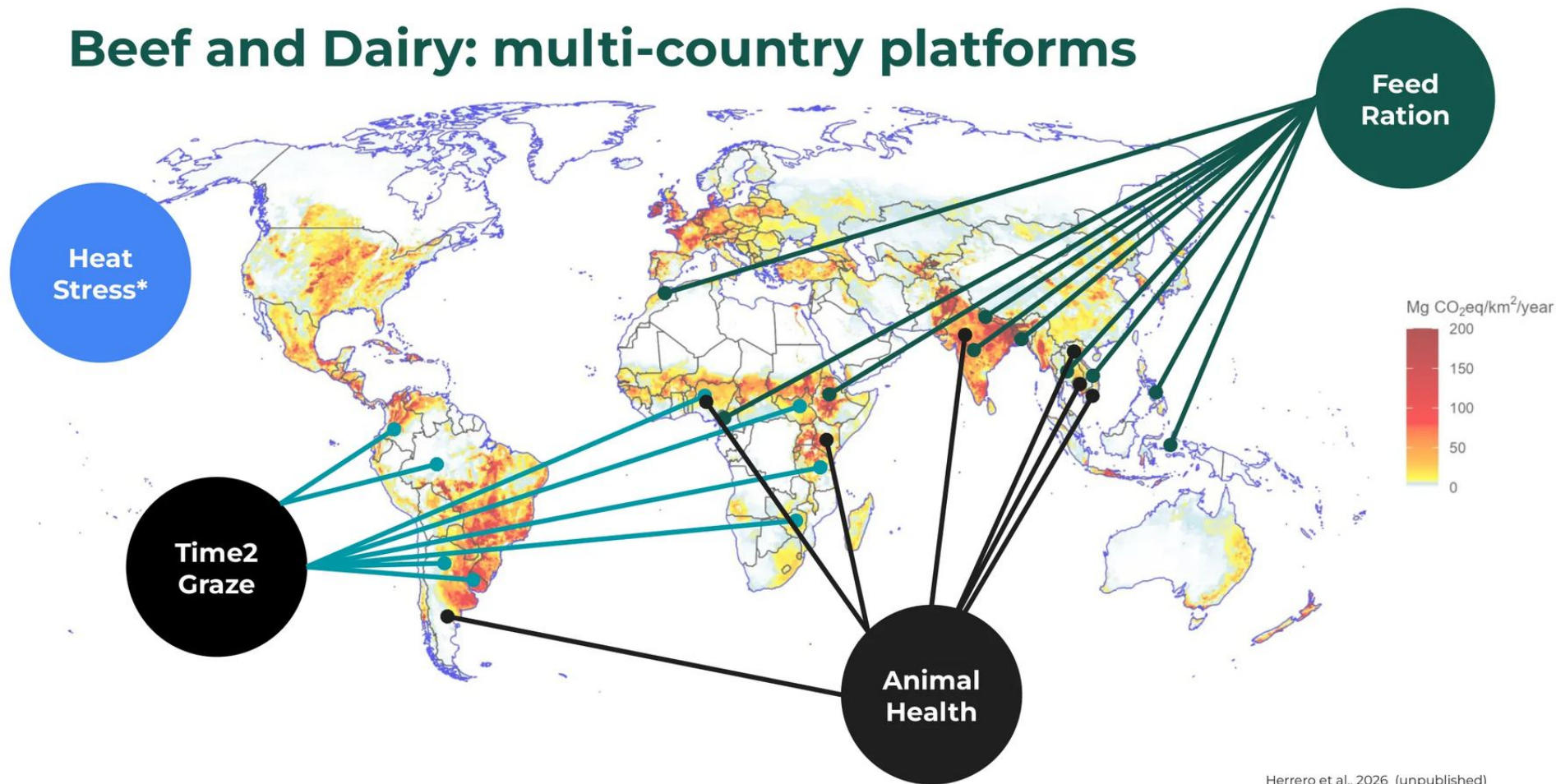




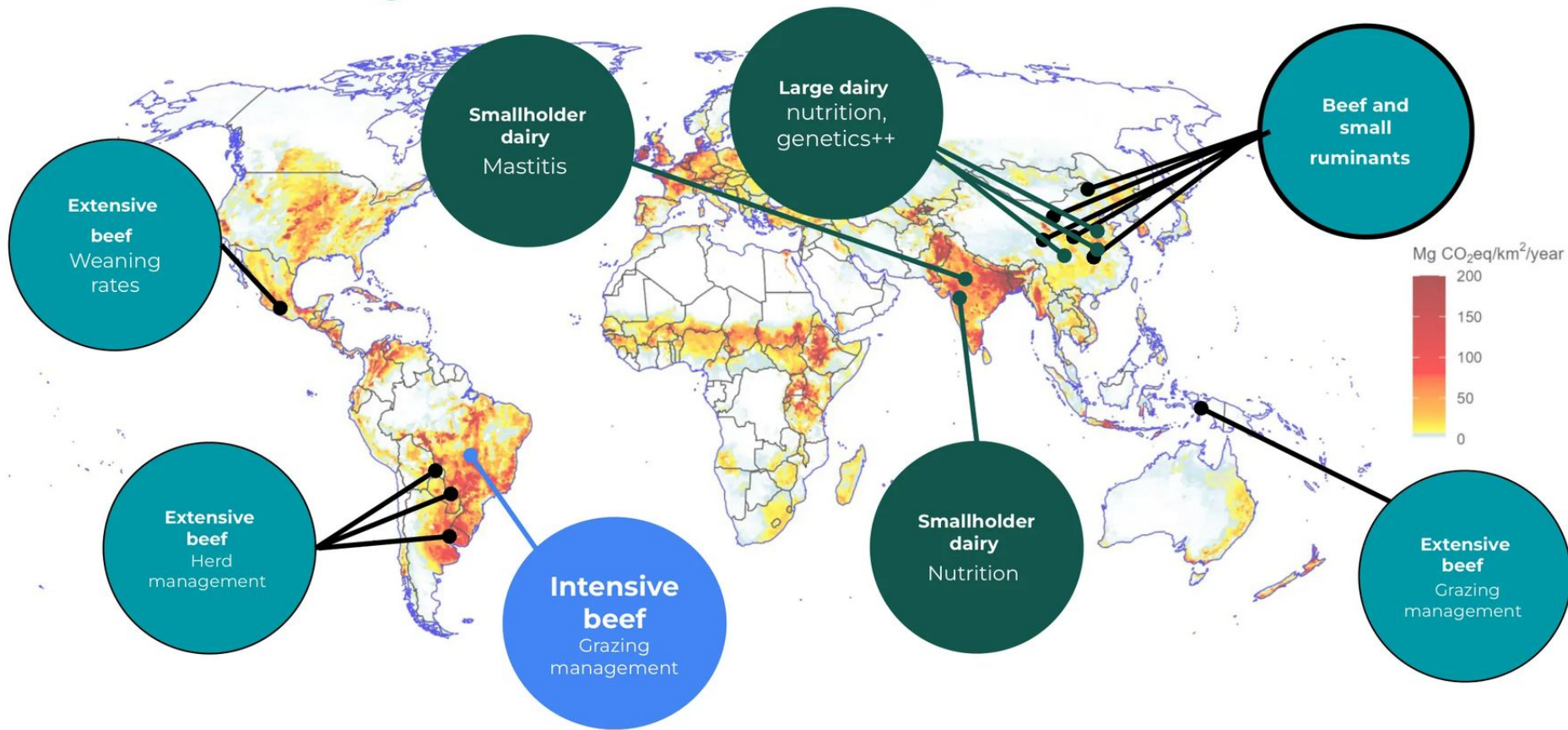
Opportunity to reduce methane intensity



Beef and Dairy: multi-country platforms



Beef and Dairy: subnational demonstration and MRV

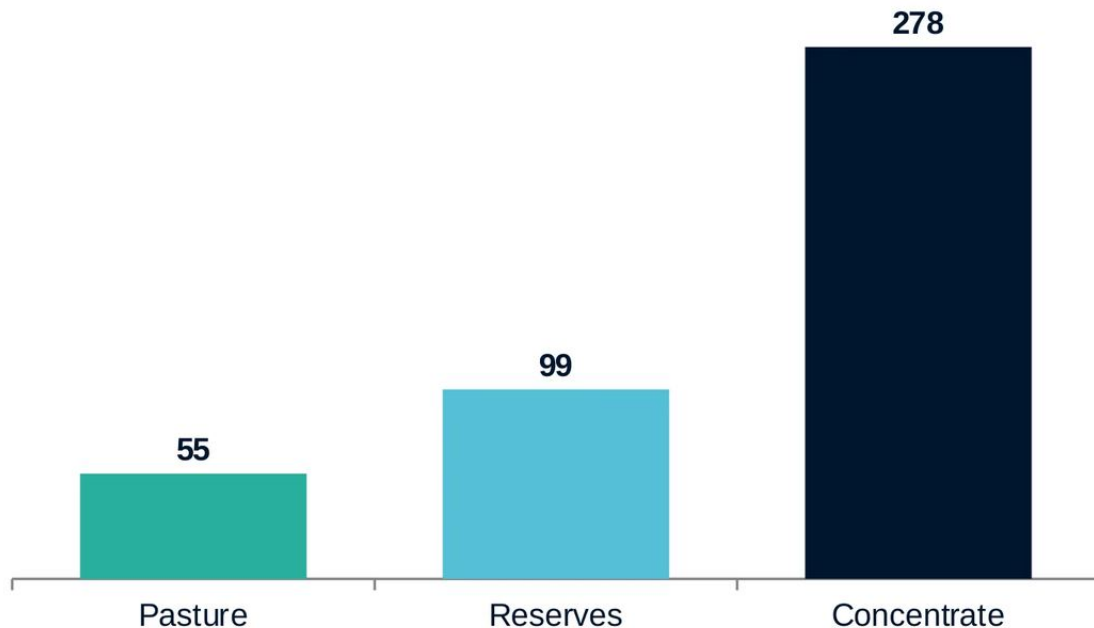


Our vision...



Cost of feed driving the livestock business

USD per tonne of dry matter — Conaprole benchmark, Mar–Apr 2020

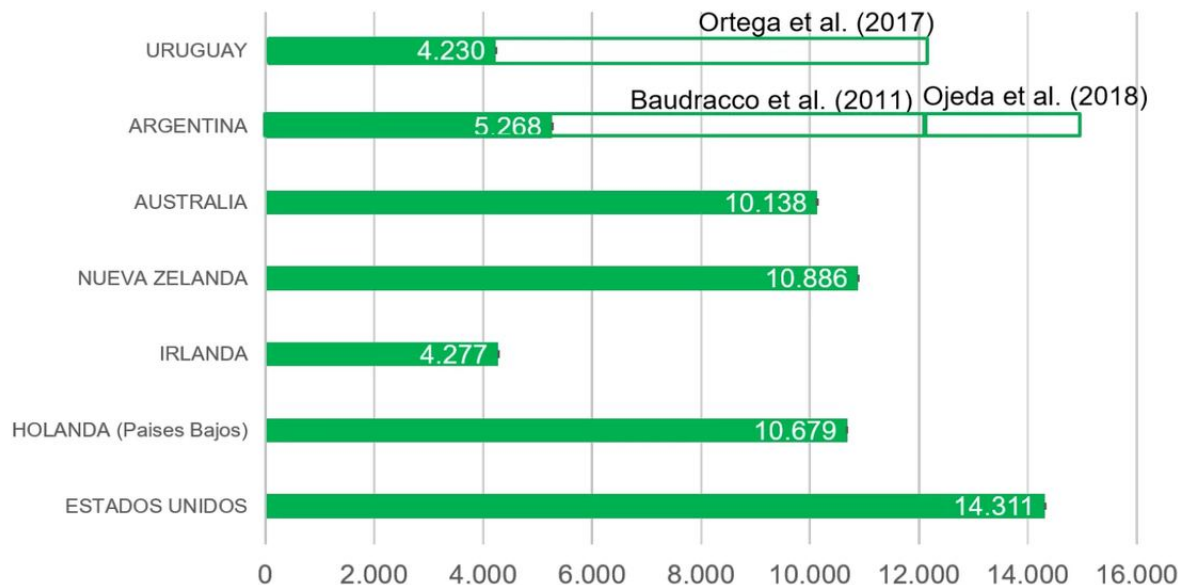


5×

Grazed pasture costs about
5× less than concentrate
feed

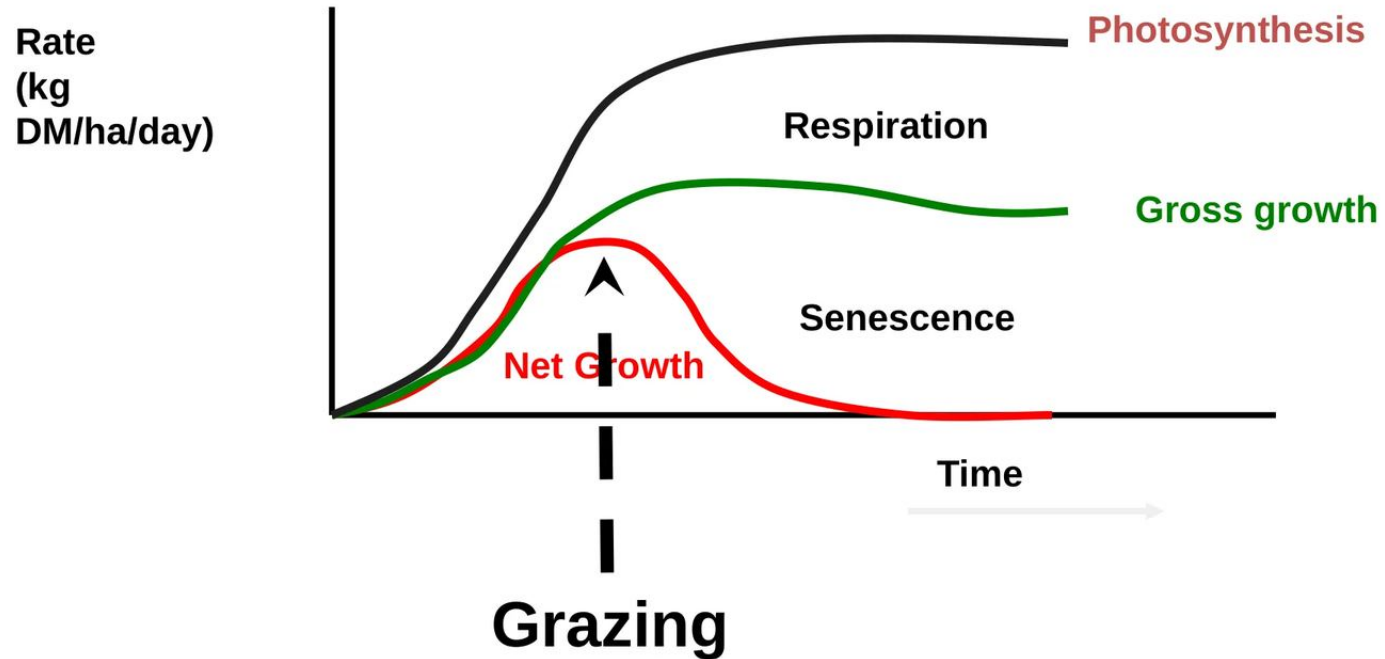
Forage Consumed per Hectare

Uruguay lags far behind global grazing benchmarks



Satellite monitoring has tracked Uruguay's pasture growth since 2011 — the data was available for farmer but late and without a decision support system.

The growth of grass



Pre-Grazing Availability



Affects forage quality



Affects production through senescence



Caps consumption via bite size



Determines persistence through reserves

Post-Grazing Availability: Leaving Enough Behind

The residual left behind sets the pace of the next regrowth cycle.



Affects forage quality



Affects pasture production



Caps intake via bite size

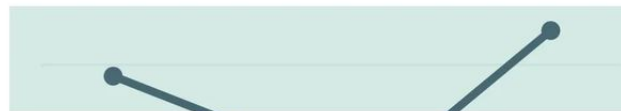


Affects regrowth and persistence

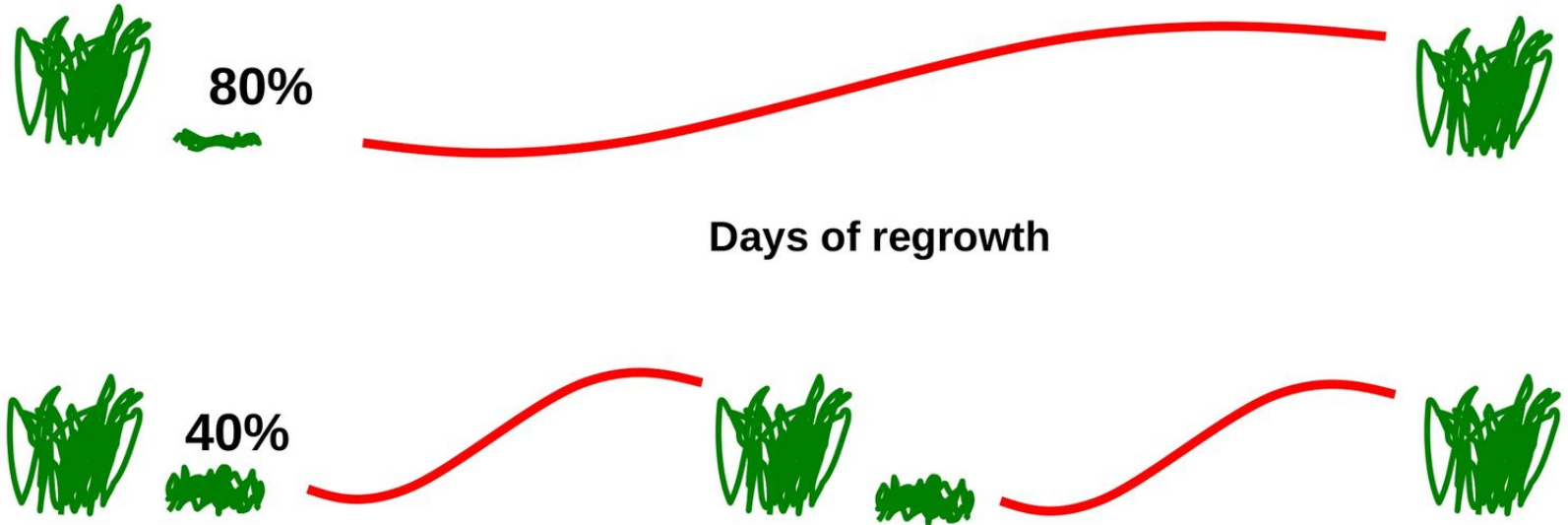
kg DM/ha

Optimal range

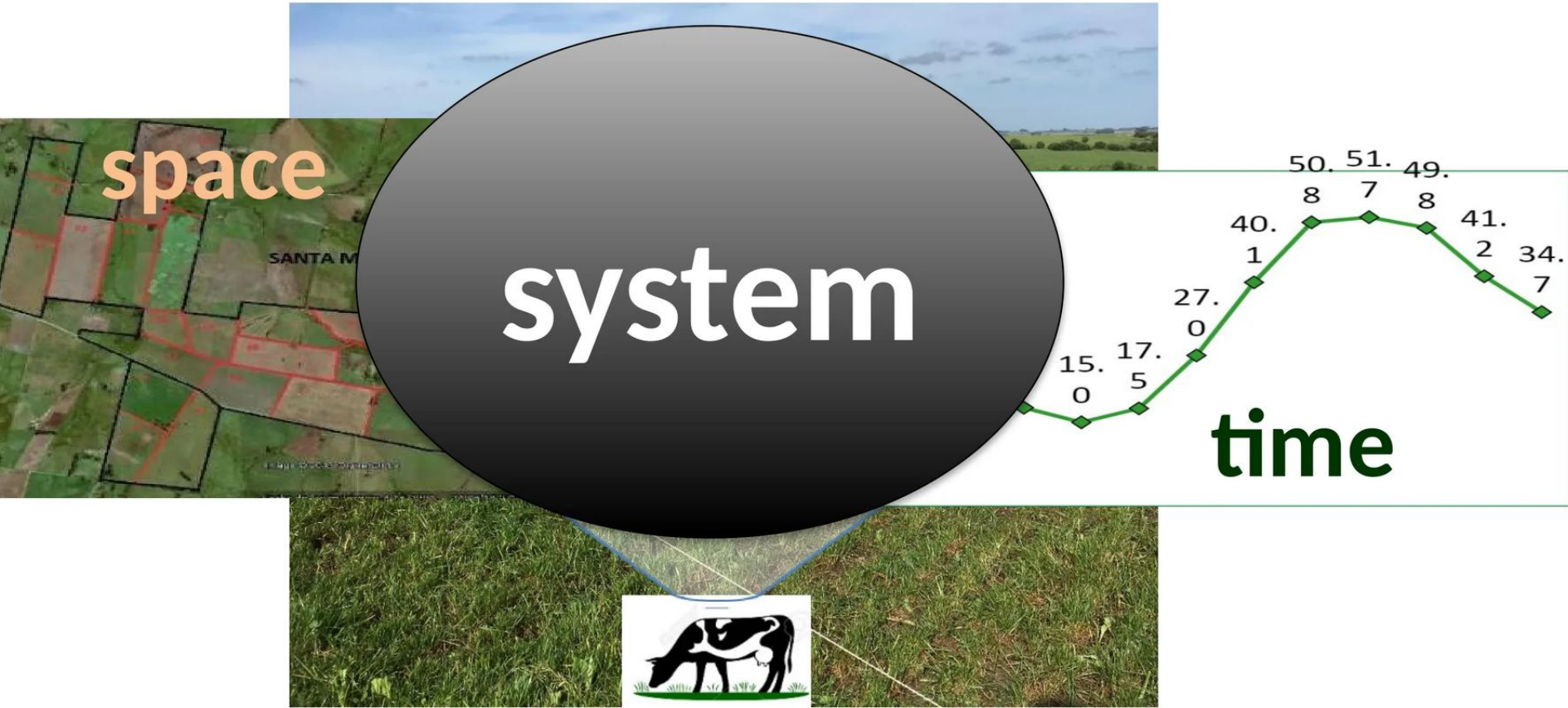
Summer Fall Winter Spring



Debunking a Myth: 'High' Harvest Efficiency



Why Aren't Simple Entry/Exit Rules Adopted?



The Key to Grazing Management



**Pasture
Growth Rate**

(kg DM/ha/day)

**PASTURE AVAILABILITY
(STOCK)**

$\approx 1,000 \text{ kg DM/ha} \pm \text{range}$

balances quality, intake, and regrowth

**Pasture
Consumption Rate**

(kg DM/ha/day)

The stock only holds steady when growth and consumption stay in balance.



<http://www.globo.inia.uy/digital/bitstream/item/722/1/161515-2017.pdf>

Dashboard of 3R-WEB - (41 farms self-uploading data)



Selección de fechas:

13/05/2020

10/10/2023



Video instructivo

Tasa de crecimiento promedio

19

KgMS/ha/día

Stock de forraje promedio

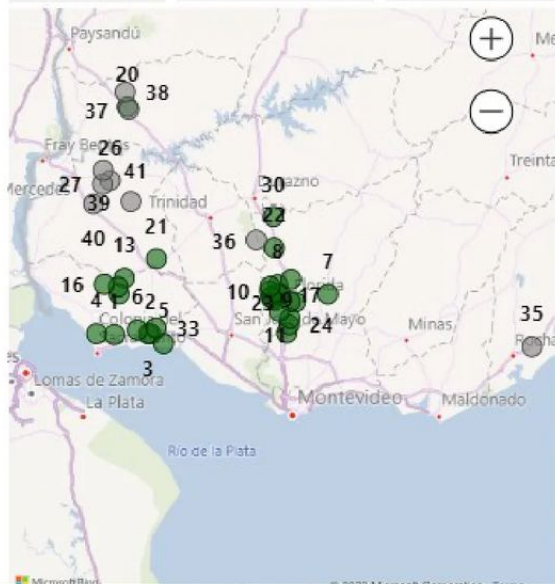
876

KgMS/ha

Remanente promedio

519

KgMS/ha



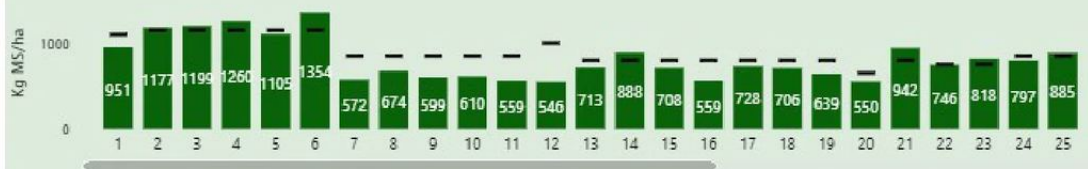
Tasa de crecimiento

● Ganaderos ● Lecheros — TC Promedio



Stock de forraje

● Ganaderos ● Lecheros — Stock Objetivo



Remanente

● Ganaderos ● Lecheros — Remanente promedio



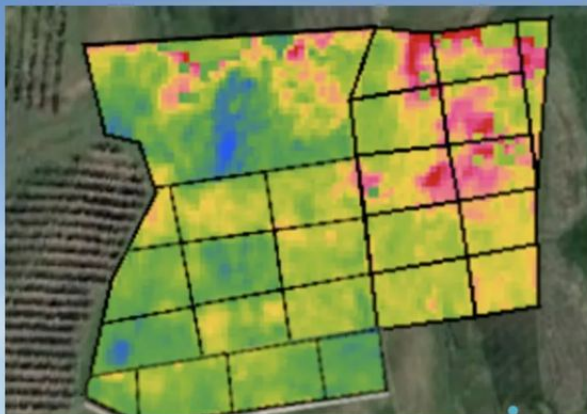
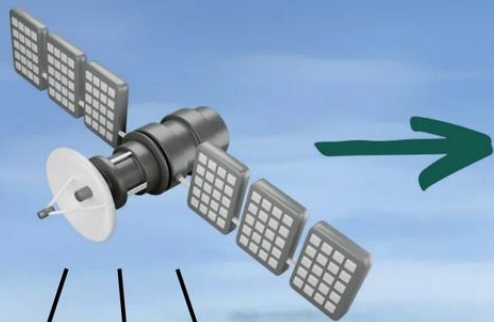
What about direct estimations?

14 km

Platometer

C-DAX





10m x 10m biomass
information
every 5 days



Standing Biomass
key information for
decision-making

The Logic Behind Time2Graze

Why grazing management is the lever for lower-emission beef and dairy

- 1 Sustainable grazing systems are the goal.
- 2 Economic sustainability is the first driver of change.
- 3 Feed is what controls beef and dairy profitability.
- 4 Grazed pasture is consistently the cheapest quality feed available.
- 5 Poor utilization is an endemic problem across Uruguay and Argentina.
- 6 Every biome has clear grazing principles — e.g., temperate systems have defined pre- and post-grazing targets.
- 7 Principles only translate into results inside a management system.
- 8 Standing biomass is the most tangible indicator for producers — but direct estimation is slow. Satellite imagery with ground-truthing solves that.
- 9 Methane only falls when productivity shifts — and that shift starts with better grazing decisions.



Thank you