Why and How to Support the Supply of Non-Provisional Ecosystem Services by European Grasslands through the Common Agricultural Policy?

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Structure of the presentation

- Importance and diversity of grassland in the EU
- Disservices and services provided by European livestock
- A (very) brief history of the CAP
- How to efficiently regulate grassland through the CAP?
- Concluding remarks





Importance and diversity of grassland in the EU

- 50% of the EU's total are farmed (> 2 million km²)
- 34% of the EU's UAA is covered by Permanent Grassland (+ Temporary Grassland)
 - EC classification of PG (not included in the crop rotation for 5 years or more)
 - Large differences between MS (58% in Ireland, less than 6% in Finland and Sweden)
 - Declining trend that seems to have stopped in the most recent years (not in all MS): link with the current CAP greening requirement to maintain PG
 - Both PG and TG benefit from decoupled and coupled direct aids of the CAP
 - Issue from a public economics perspective (grassland types are not differentiated according to non-provisional ecosystem services they provide)
 - Provision that also depends on grassland management intensity: mowing frequency, fertilization practices, grazing pressure and management (Blüthgen et al., 2012; Estel et al., 2018)



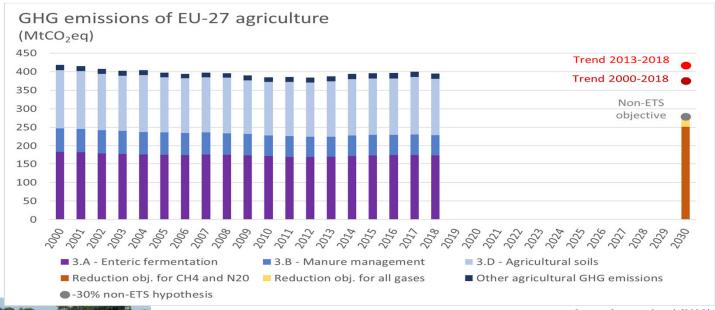


Disservices and services provided by European livestock [1]

Disservices...

29th GENERAL MEETING

 Increasing critics based on climate, environmental, animal welfare and health / nutrition arguments (Buckwell and Nadeu, 2018; Guyomard et al., 2021)





Disservices and services provided by European livestock [2]

... and services

- Economic, social and cultural importance of livestock production
 - 40% of European agricultural production
 - 50% of European holdings have farmed animals
 - 4 million direct jobs (ATF, 2010)
- Some livestock systems, notably grassland based extensive systems, provide climatic (carbon sequestration) and environmental (water and soil quality, biodiversity preservation, diversified open landscapes) benefits
- Farmed animals recycle biomass / protein that cannot be used as human food (Mottet et al., 2021)
- Proteins of high nutritional quality

Public intervention to minimize the disservices and maximize the services

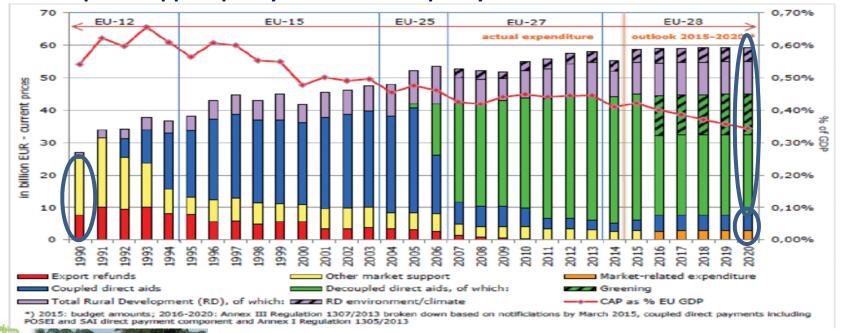
- Identification and measurement of disservices and services
- Design of most efficient instruments (Polluter-Pays and Provider-Gets Principles)
- Management of trade-offs





A (very) brief history of the CAP [1]

- Since 1992, 30 years of permanent reform: an unfinished business
- From a price support policy to a direct aid policy

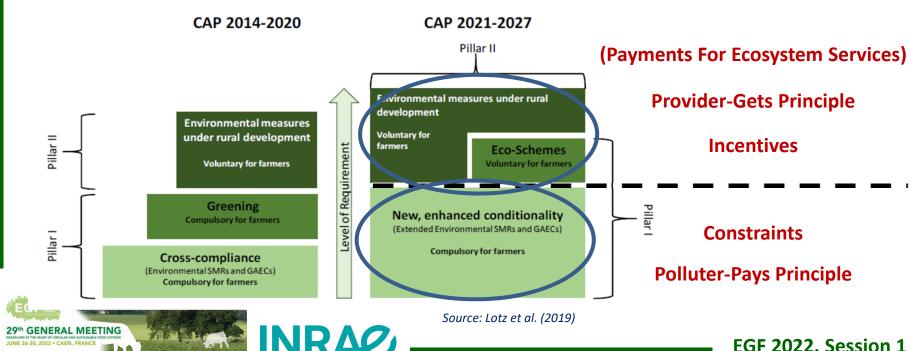






A (very) brief history of the CAP [2]

- The unresolved issue of CAP support distribution (between MS, productions, holdings)
- The progressive integration of climate and environment objectives and instruments: not up to the challenge (past, current and future policy) [Guyomard et al., 2020; Runge et al., 2022]



How to efficiently regulate grassland through the CAP? [1]

- Constraints vs incentives: the issue of the sharing line between the PPP and the PGP
 - No backsliding
 - No exemption/exception (to cover the whole UAA including PG and TG)
 - Increasing requirements over time
- Grassland and conditionality
 - GAEC#1
 - Maintenance of PG based on a ratio of PG on UAA at national, regional, sub-regional or holding level with a tolerance of -5%
 - = PG greening measure of the current CAP that has been highly criticized (ECA, 2017)
 - Recommendations:
 - Implementation of the farm level
 - Reduced tolerance threshold (-2%)
 - No update of the reference period
 - > Supplemented by an ecoscheme measure targeted on PG (cf. infra)





How to efficiently regulate grassland through the CAP? [2]

GAEC#9

- No ploughing of PG in protected sensitive areas
- Mainly Natura 2000 areas
- Recommendations:
 - Starting from the areas currently protected,
 progressively increase the surfaces over the 2023-2027 period (based on an action plan)
 - > Supplemented by an ecoscheme measure targeted on PG (cf. infra)

GAEC#8

- Protection of non-productive areas and elements dedicated to biodiversity preservation for arable farms and lands
- Recommendations:

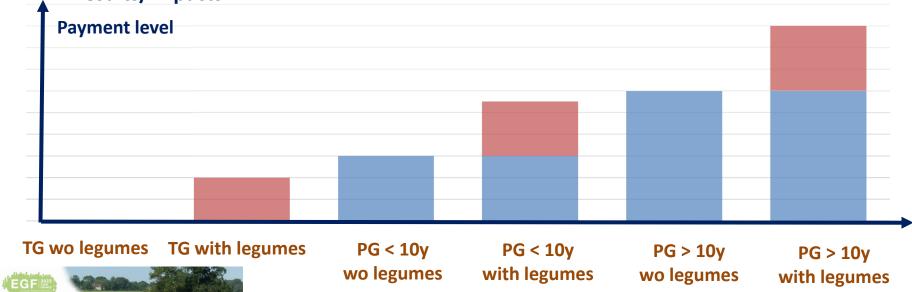


- ➤ Generalization to all types of farms and lands (including PG)
- ➤ New equivalence coef. in line with ecosystem services (Pe'er et al., 2022)

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How to efficiently regulate grassland through the CAP? [3]

- Grassland and incentives
 - Six grassland types corresponding to increasing levels of non-provisioning services
 - Demonstrators to progressively shift from an obligation of means to an obligation of results/impacts







Concluding remarks [1]

- Trade-offs between climate/environment and economic performances
 - A pretext for the status quo (future CAP!)
 - Action levers to alleviate the trade-off
 - Length of the transition
 - All productivity gains including genetic selection and precision farming
 - Vertical (actors in the food chains) and horizontal (actors in the territories) solidarities
 - Willingness to Pay (WTP) of some consumers
 - Payments for ecosystem services funded by both the taxpayer and the private user (thanks to an obligation of results / impacts)
 - Depollution and health savings to compensate both farmers and the poorest households (food access equality)





Concluding remarks [2]

Compatibility with the European Green Deal (a)



Carbon neutrality by 2050

Low-carbon and sustainable growth

Implementation through various strategies, including

The Climate Plan and Law

The Farm to Fork Strategy (F2F)

The EU Biodiversity Strategy in 2030

Quantitative targets for agriculture by 2030

No explicit quantitative targets for the food sector and for diets (except for food waste and losses)

Quantitative targets

- •GHG emissions: -35% for non-CO₂ gases from a 2015 refrence
- Pesticides' use and risk: -50%
- •Nutrients (N & P): -50% for losses ->
- -20% for use
- Antimicrobials: -50%
- Organic Farming: 25% of UAA
- High diversity landscape features: 10% of UAA
- Food waste and losses: -50%

But aspirational targets only!





Concluding remarks [3]

- Compatibility with the European Green Deal (b)
 - Welcome whole food chain approach
 - Supply instruments (CAP)...
 - And other policies defined in a consistent way: food/nutrition, competition policy, trade policy, research and innovation policy...
 - Consistent approach aiming at reducing disservices (climate, biodiversity, health / nutrition) and maximizing services
 - Consistent with our recommendations aimed at regulating / supporting grassland





Concluding remarks [4]

- War in Ukraine
 - Calls to "free European agricultural production" (cultivation of fallow land) are not the solutions
 - Food availability in not threatened in the EU
 - Rather than growing fallow land, reducing plant products used for biofuels and feed (much larger quantities that are immediately available)
 - · Addressing distortions at the source
 - Direct aids to farmers (feed cost) and the poorest households (food stamps)
 - Less dependency to imports (energy, animal feed) to increase the resilience of European agricultural / food systems to political shocks
 - Obviously, very different situation in net food importing low-income countries (price and quantity effects)





Thank you for your attention



