



Verso un supporto alle decisioni: framework, alberi decisionali, contratti tipo

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Nuove tipologie contrattuali per l'applicazione delle misure agro-climatico-ambientali nella PAC 2023-2027

Primi risultati del progetto europeo CONSOLE a supporto dei decisori per la scelta delle migliori tipologie contrattuali.

Regione Emilia Romagna, Bologna

29 Novembre 2021





Obiettivo

- Rendere i risultati utilizzabili da policy/makers e attori che partecipano a disegno e applicazione degli interventi
- Contribuire alle politiche e alle iniziative in corso e future





Rapporti con la Pac

- Dipende dai regolamenti/PSN->ma anche dalla opportunità/capacità di sfruttamento degli spazi di decisione locali
- Fine tuning della presentazione dei risultati man mano che abbiamo indicazioni sulla nuova PAC

Ma non solo PAC





Tipi di contratti studiati

- 1) prescrizioni ambientali collegate a contratti di affitto/uso
- 2) pagamenti a risultato
- 3) contratti ad implementazione collettiva
- 4) contratti legati alla catena del valore/filiera (es. contratti di produzione con prescrizioni ambientali)





Alcune lessons learned

- I nuovi strumenti sono fattibili, ma:
 - No ricette standard
 - Importante chiarezza su incentivi
 - Ogni strumento implica dei trade-off
 - Costi (incl. Costi di transazione)
 - Upscaling e replicabilità
 - Processo di apprendimento
 - Importanza del contesto legale (locale e internazionale)
 - Importanza degli aspetti tecnologici per monitoraggio e misura





Attenzione a forme ibride e soluzioni creative

- Pagamenti misti (pratiche+risultato)
- Pagamenti a risultato in contratti tra privati (ruolo policy)
- Pagamenti a risultato in contratti collettivi
- Ruolo filiera, cittadini e consumatori etc. in contratti collettivi
- Intermediari: banche, ONG, industria, distribuzione, consorzi di bonifica, etc.



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Showcase casi di studio

NOT VALIDATED BY THE INITIATIVE

Kromme Riin Collective management

in the Netherlands, the implementation of agri-environmental measures and nature conservation measures in farmland is partly arranged collectively, where local cooperatives arrange and execute measures. The Kromme Rijn is a region in the Dutch province of Utrecht, where such a cooperative is active. It executes agri-environmental management and there are a few volunteer groups e.g. involved in pollarding willows.

Collective implementation of agri-environmental management has been started up throughout the Netherlands since 2016. After individual management had proven to fail to deliver the desired agri-environmental-climate public goods (AECPGs), a larger-scale implementation of agri-environmental management was considered a more feasible and promising solution. In the central Dutch province of Utrecht, a wide variety of AECPGs is required by society and farmers. This includes improvement of water quality, enhancing and emphasizing the landscape diversity that supports recreation, and providing a habitat for species including bats and owls. In the eastern half of the province, the Kromme Rijn , the "Agrarisch Natuur Collectief Utrecht Oost" (agricultural nature collectiv Utrecht East) organizes the large-scale nature management. Land owners are members of the collective, which organizes payment for specific nature management actions performed by farmers, monitors, and brokers between land owners and organizations companies that implement some specific nature management actions, based on a common regional management plan. The collective is certified by the national certification institute for agri- environmental management and has its own quality assurance controllers.

ves are set by the provinces. In the case of Kromme Rijn, the province of Utrech targets in its annual nature management plan. Defined are targets for nature amphibians, including the great crested newt, for several owls, and Creating habitats for threatened species of extensive traditional





CONSOLE

COLLECTIVE

PUBLIC GOODS

The Humus-Program of the Ökoregion Kaindorf



RESULT-BASED

on a defined result

(stored CO₂ as humus

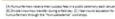
PUBLIC GOODS

co,

LOCATION

Summary

Okoregion Kaindorf" while emission trading is managed by an own Ltd.







Participation in the open to all farmers

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ECO-METHANE - Rewarding dairy farmers for low GHG emissions in France



With the ECO-METHANE program, farmers commit to provide a monthly analysis of the fatty acid profile of their milk and to feed their cattle with rich-omega 3 feed intake (mainly through grass feed) and by doing so to decrease the methane emissions of their cattle. In 2019, 617 farmers were engaged in this result-based method.

The Eco-Methane program is a private-private result-based contractual solution. Methane emissions of dairy cows are estimated by frequent and regular infra-red analysis of their milk. Indeed, there is a correlation between an equilibrated feed ration, the composition of milk fatty acid and the emission of enteric gas (methane) by dairy cows. Farmers' payments depend on the difference in their methane emissions to a regional reference. They also depend on the donations by private companies to support their effort. Funds are collected by the Bleu-Blanc-Coeur fund for health-oriented agriculture and payments granted by the private association "Bleu-Blanc-Coeur" that also governs a food brand based on better animal nutrition for heathier human food. The Eco-Methane method has been recognized by the French Ministry of Ecology in 2011 and by the United Nations in 2012, as a specific methodology for projects of methane emissions reductions of digestive origin trough the feed of dairy ruminants

Objectives

- 1 Reduce GHG emissions
- Increase zootechnical performances of the dairy cattle



Problem description

Animal breeding contributes for 14,5% of global GHG emissions (FAO) and on a dairy farm, the methane emitted by cows represents more than 50% of the total GHG emissions of the farm. This contract solution was implemented in France with the initiative of a feed company and the association Bleu-Blanc-Coeur. Bleu-Blanc-Coeur is a label that focuses on the nutritional benefits of consuming products from animals fed with omega-3 rich feed ration. Furthermore, there is a correlation between an equilibrated feed ration, the composition of milk fatty acid and the emission of enteric gas (methane) by dairy cows. They have used would reduce their methane emissions. The Eco-Methane method has been in 2012, as a specific methodology for projects of methane emissions reductions of digestive origin trough the feed of dairy ruminants.

RESULT-BASED



Each farmer commits individually to provide each month its milk Bleu-Blanc-Coeur. The milk analysis provides the composition in fatty acid that can be directly linked to methane emissions.

The commitment to the Eco-Methane program forbids the use of adjuvants such as synthetic fatty acids. formalin caustic soda and of all sources of palm (oil and meal) or copra in the cows feed. It also encourages farmers to include in the dairy cows' feed ration a fraction of omega-3 throughout the year, mainly given from

PUBLIC GOODS



greenhouse gas emissions

Legal notice: The compilation of the information provided in the factsheets has been done to our best knowledge and is subject to further analysis. Neither

Result-based contract solution - farmers follow recommended measures to build up humus

(=soil organic matter) in soil, sequester CO, and receive a fee per ton of stored CO. Companies finance humus build-up and soil carbon storage by buying CO₂ certificates.

The Humus-Program of the "Okoregion Kaindorf" is a contract solution developed for voluntary trading of CO₂ certificates: Based on an initial soil sampling at the start of the contract (by a certified civil engineer and accredited national laboratory), farmers set own measures to increase the humus content in their soils. After a period of three to seven years (according to the farmers needs), humus content is determined again by a second soil sampling. An increase in humus content is converted into additional tons of CO₂ stored in soil. Farmers receive a success fee of 30€ per additional ton of CO₂ stored, which is financed by companies who voluntarily compensate their unavoidable CO, emissions. The amount of CO, purchased by the companies cannot be traded. After the payment, farmers must guarantee that the increased humus content remains in place for at least five years. This requirement is verified by a third soil sampling taken five years after the payment. Decreases in humus levels lead to partial or complete refunding of the success fee. Contracts and the carbon verification is organized and managed by the association "Verein

- g the groundwater clean soils rich in humus can fix more nitrate and
- Climate change mitigation through CO₂ fixation soil organic matter contains about 60% carbon, hence building up soil humus removes CO₂ from the







from the European Union's Horizon 2020 research and innovation

Un quadro di riferimento concettuale (ma non solo)

System features State of environment. ecosystems and public goods Agricultural, forestry, food production tn components Technology Policy conditions Legal conditions Market situation Other actors __ institutions, governance Market situation institutions, governance

AECPG Contract features:

Specific

- · Tenure-related Land tenure
- Reference parameter for payment Result-based
- High degree of cooperation among farmers/actors Collective
- Full connection with private goods provision Value-chain General
- Object of contract solution: AECPG type and others
- Actors/parties involved
- Payment characteristics
- Length of the contract
- Information/ training as a part of the scheme/role
- Monitoring
- Sanctions
- Flexibility
- Eligibility/Conditions of participation

Mechanisms/processes leading to impact:

- Costs/Benefits
- Asymmetric information and contract incompleteness
- Behavior related to longevity
- Acceptability
- Preferences for contract attributes
- Other behavioral issues and nudging
- Governance

Performance Evaluation:

- Effectiveness
- Longevity
- Acceptance
- Targeting
- Flexibility
- Equity/fairness
- Compatibility
- Profitability
- Social/cultural capital
- Feasibility
- Trust





Parametri del contratto

- Prescrizioni legate al possesso del terreno
- Riferimento per il pagamento
- Livello e tipo di cooperazione
- Collegamento con la produzione di beni privati

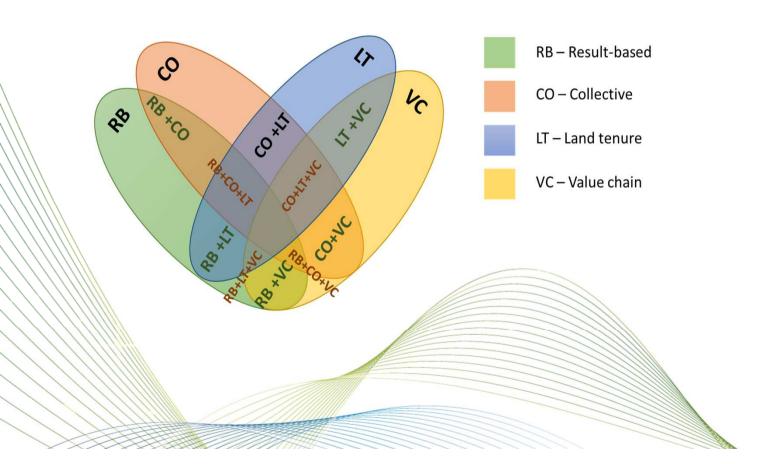
produrre

- Attori coinvolti nel contratto
- (altre) Caratteristiche del pagamento
- Lunghezza del contratto
- Informazione/formazione/suppor to previsti dal contratto
- Monitoraggio
- Sanzioni
- Flessibilità
- Eligibilità per la partecipazione
- •





Forme ibride



- In realtà quasi tutti i casi reali sono in qualche modo ibridi
- Importante pensare i diversi accorgimenti come soluzioni che possono essere combinate





Contratti-tipo

RB

AECPG Type

Actors involved

Payment type and characteristics

Length of contract and renewal

Information, advisory, or training in scheme

Funding

Monitoring

Sanctions

Flexibility

Conditions of participation

Biodiversity, Climate regulation, landscape & scenery

Farmers, NGOs, market players, gov. bodies, consumers, banks, etc.

emission certifications, Incentive payments, Payment for product

Short-term to long term, renewal

free by public body, private experts, NGOs, etc.

Public funding (incl. from EU) + private funding

Monitoring by public & private

Non-compliance leads to termination or payment reduction

High degree of flexibility

Some do not allow farmers to participate in other AES

Biodiversity, water-related, resilience to natural hazards, landscape

Farmers, landowners' association, govt & private bodies

Compensation, incentive & product

Short-term to long term, renewable

available within collectives or cooperatives

Public funding

monitored by government or private

non-compliance can lead to termination of contract

High flexibility to collectives, unless it is a hybrid.

A minimum number of farmers need to participate

Environmental benefits, quality and security of products, water-related

Private companies, citizens or consumers, Non-profit organisations, govt bodies

Payment for brand, product, online donations

Short- to medium-term, renewable

provided for free by private actors

Private funding

Strict monitoring, by processors or private bodies

non-compliance can lead to prohibition of the brand use

Higher flexibility of management practices, Low flexibility for quality of the product

Conditions for using brand name & exclusivity

Biodiversity & habitats, Landscape & scenery

NGOs, private organizations, Government bodies, Landowner association etc

paid by rate per area, length, or quantity, Land lease

Medium-to long-term

By land managers, project stakeholders, etc.

Private funding

No controls or only self-monitoring by landowners.

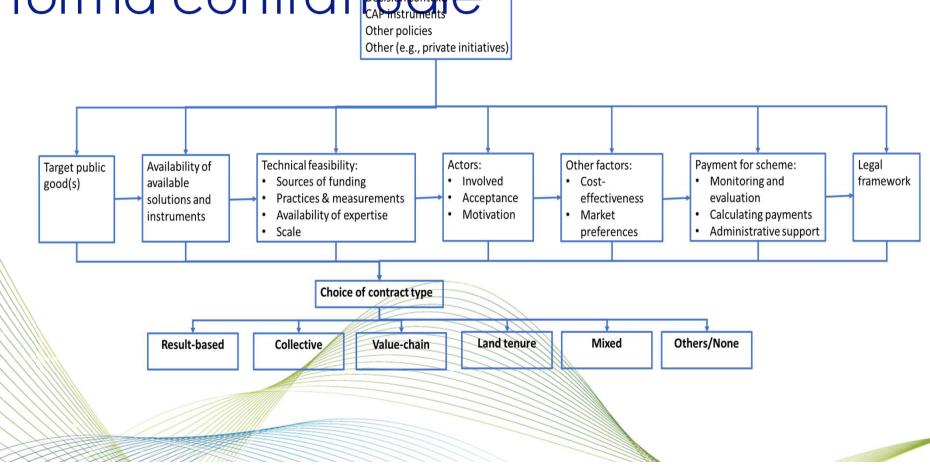
High flexibility, no strict conditions for participation

Some contracts require farmers to participate for fixed duration





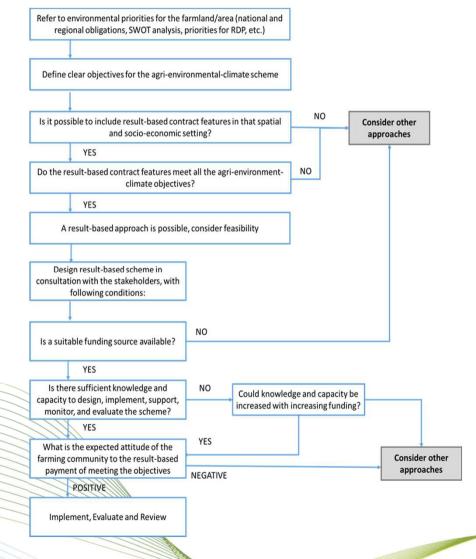
Alberi decisionali per la scelta della forma contrativime





Albero decisionale per il disegno del contratto (resultbased)









Prossimi passi

- Il materiale odierno sarà disponibile on line
- Faremo circolare anche la bozza del framework e delle linee guida per la progettazione (contratti-tipo, albero decisionali) per commenti o input (o per vostro uso...)
- Prossime attività (wp3.4 e 2022)





Grazie

For further information:

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www. console-project.eu



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