

LIFE+_Climate changE-R

“Reduction of greenhouse gases from
agricultural systems of Emilia-Romagna”
(LIFE12/ENV/IT/404)

LIFE+ NEW LIFE 1st Conference



NEW LIFE

PIACENZA May 19th-20th, 2016

What is Climate changE-R?

Climate changE-R is a demonstrative project granted by the LIFE programme. It's oriented to the application and dissemination of methods useful to obtain a reduction of the GHG emission from the agriculture systems of Emilia-Romagna

- ☐ Total cost 1.853.900 €
- ☐ EU support 891.950 € (48,11%)
- ☐ Start 1st July 2013
- ☐ Conclusion 31st December 2016

The Project Partnership

1 Coordinating Beneficiary
(Emilia-Romagna Region)

10 Associated beneficiaries
(APO Conerpo, ARPA E-R, Barilla, Coop italia, CRPA, CRPV, CSO, Granarolo, Parmareggio, UNIPEG), Parmigiano - Reggiano Consortium (as Co-financer)

This Partnership includes the Public authority for rural development programming, Research and Innovation Institutes and very important Holdings in agrofood.

The project background

- World and European important strategy about climatic change (Europe 2020, Cop21)
- Increasing attention by citizens, consumers and enterprises (our project's partner are experienced on this topic) on environment and sustainable production systems
- Land is a limited good and Food demand is increasing
- We need more food with less environment impact

Why Climate changE-R

It arises from the need to:

- ☐ Give answers to the new environmental challenge of the EU policies: climate change
- ☐ Capitalize the huge experience in promoting sustainable agriculture policies
- ☐ Enhance the experience that the Holdings of our country have already taken
- ☐ Develop new tools to be integrated into the 2014-2020 Rural development programming

The Project Objectives

- ❑ **Toward Mitigation:** To reduce Emilia-Romagna's overall agriculture-related emissions of N_2O , CH_4 and CO_2 by 0,2M tons CO_2 equivalent over a 3 year period in the crops for food (tomato, green bean and wheat), fruit (peaches and pears), beef and milk (both fresh and for the cheese production).
- ❑ **Toward Policies:** proposing effective and efficient **Best Practices** that don't reduce productivity (both in terms of quality and quantity) by a stakeholders and policy makers assessment through an **open governance process** aimed to defining regional agricultural policies that enhance climate change mitigation.

Project actions

- ☐ Study of the application of the LCA methodology in the agricultural system of Emilia-Romagna from the cradle to the farm gate
- ☐ Collecting data, calculating, evaluating and reporting.
- ☐ Monitoring of the impact of the project actions including evaluation of the socio-economic aspects
- ☐ Dissemination and adoption of Best practices by a strong information and demonstration action toward the operators, citizens and consumers
- ☐ Networking and dissemination after the end of the project to support climate change mitigation

The Best Practices for crops and fruit production

- **Seeding/rotation:** crop rotation of min 3 crops in 5 years, reseeding of same crop not permitted
- **Fertilisation:** based on crop uptake and soil content availability, specific rules for organic fertilisers **enhancing the value of manure** (soil analysis)
- **Soil management:** precision farming e minimum tillage
- **Plant protection and weed control:** treatment applied only if necessary and with correct timing (forecasting models, bulletins, based on lower impact)
- **Irrigation:** distribution based on crop uptake/meteo data and soil texture

The Best Practices for livestock

- Feed and fodder production with application of Best Practices
- Feed and fodder analysis
- Advanced management techniques to calculate the livestock diet (decreasing Nitrogen emissions)
- Advanced management techniques for livestock manure management

Networking

- ❑ The technical actions have been guided step-by-step by the sharing of results and methodologies among the partners, groups, stakeholders and experts.
- ❑ A specific action of networking is leaded with the support of one “European Orientation Group” (EOG) of experts, through periodic assessment of the proposed methodologies and related results

Demonstration Activities

16 demonstration days involving more than 320 technicians and farmers



Thank you for your attention

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