

Targeting resource efficiency through RDP: experiences&tips from Italy

Danilo Marandola, Maria Valentina Lasorella
Policy&Bioeconomy Centre of CREA (Rome)
Italy's National Rural Network Programme 2014-2020

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Autorità di gestione:

Ministero delle politiche agricole alimentari e forestali

Via XX Settembre, 20 – Roma

reterurale@politicheagricole.it

www.reterurale.it - @reterurale - www.facebook.com/reterurale



IT NRN thematic Project «PACA»

Support national/regional authorities
in the efficient implementation of
EU AEC (Agro-environmental-climate)
Policy -> M.10 AEC Payment and related measures

Focus on **Conservation agriculture** and
sustainability:

- ✓ NETWORKING stakeholders of different Italian regions
- ✓ P2P info sharing among farmers and decision makers
- ✓ Information&research actions
- ✓ Integration of measures (M.10 -> M.1-2-4-11-12-16)





Content layout

- ✓ AEC priorities and measures in IT RDPs
- ✓ How IT RDPs promote resource efficiency (soil&water)
- ✓ Case studies from regional RDPs
- ✓ Conclusions & tips

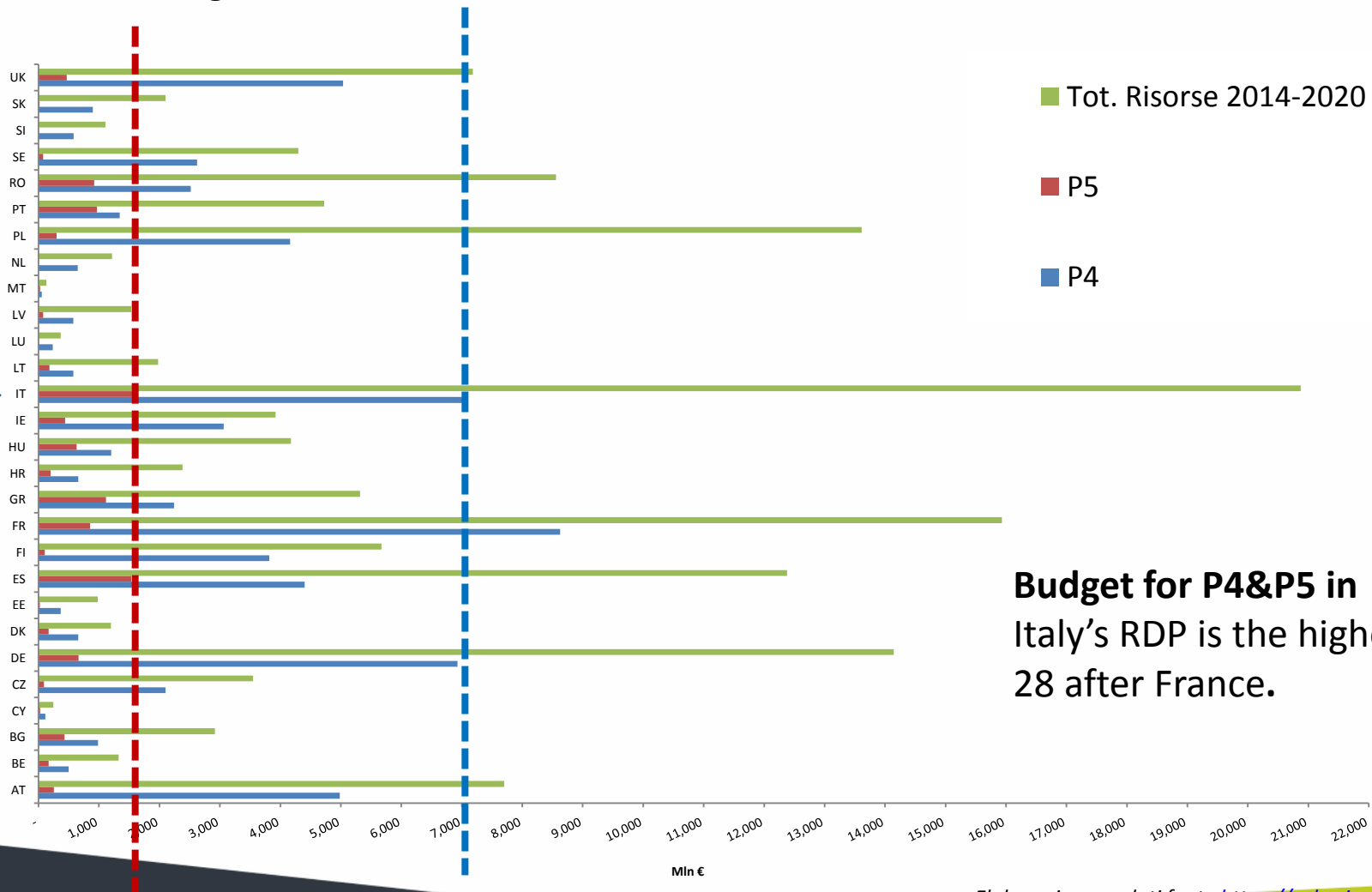


AEC priorities and measures in IT RDPs



AEC priorities in EU - IT

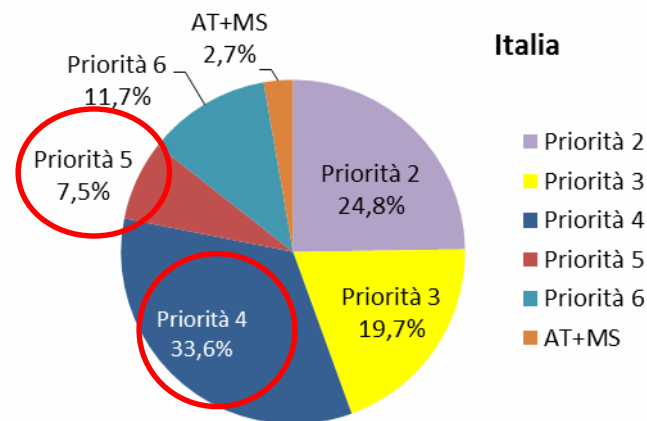
RDP Total budget for P4&P5



Budget for P4&P5 in Italy's RDP is the highest in EU 28 after France.

P4&P5 in RDP IT

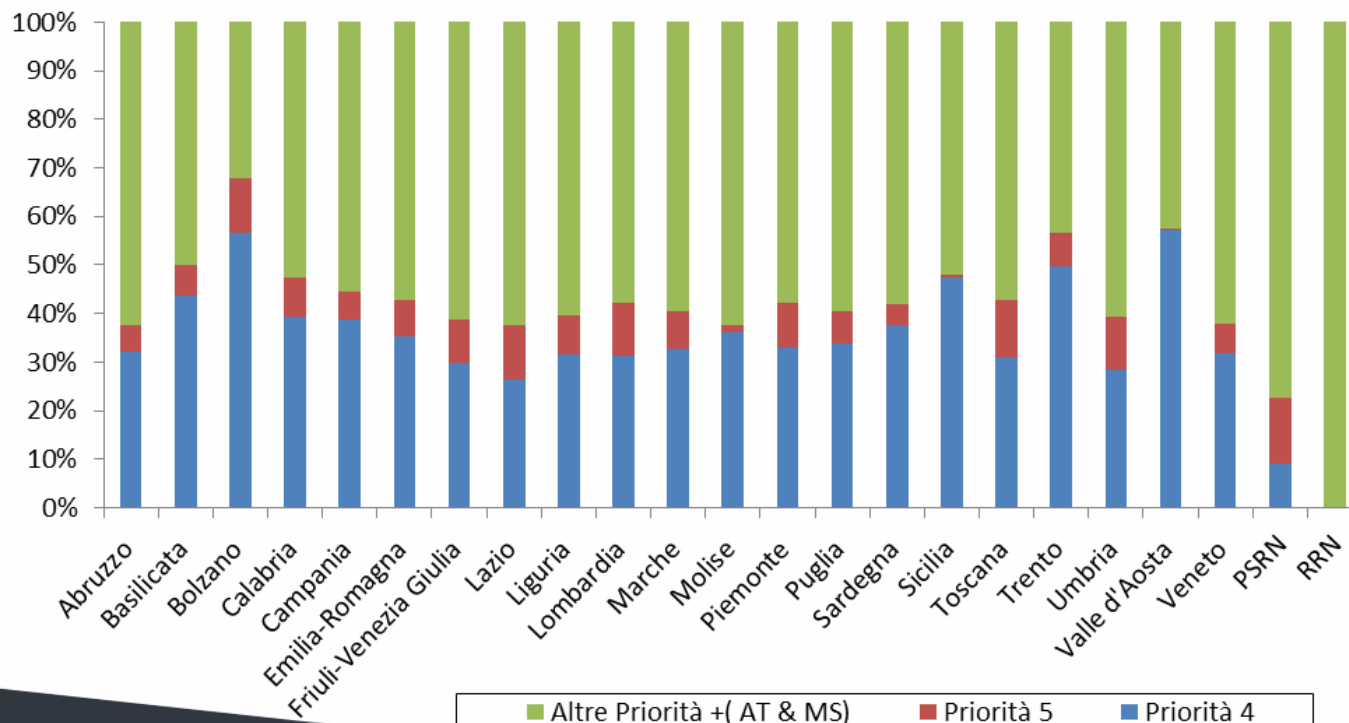
In Italy, more than 40% of total RDP budget is devoted to P4&P5 - 8.5 billion euro in 2014-2020



Italia

- Priorità 2
- Priorità 3
- Priorità 4
- Priorità 5
- Priorità 6
- AT+MS

Share of RDP budget devoted to P4&P5 in IT RDPs – regional programmes + national



TARGETS - P4&P5 in RDP IT

4B - Water management

- 16.5 % of agricultural land under management contracts to improve water management

4C – Soil erosion & management

- 15.8 % of agricultural land under management contracts to improve soil management and/or prevent soil erosion

5A – Water efficiency

- 1,5 % of irrigated land switching to more efficient irrigation system

5E – Carbon conservation & sequestration

- 6.5% of agricultural and forest land under management contracts contributing to carbon sequestration or conservation



MEASURES - P4&P5 in RDP IT

Priority 4

Priority 4 – Ecosystems management (4B+4C)

- M01 - Knowledge transfer and information actions
- M02 - Advisory services, farm management and farm relief services
- M04 - Investments in physical assets
- M07 - Basic services and village renewal in rural areas
- M08 - Forest investments
- M10 - Agri-environment-climate
- M11 - Organic farming
- M12 - Natura 2000 and Water Framework Directive payments
- M13 - Payments to areas facing natural or other specific constraints
- M16 - Co-operation

Priority 5

Focus Area 5E – Carbon conservation & sequestration

- M01 - Knowledge transfer and information actions
- M02 - Advisory services, farm management and farm relief services
- M04 - Investments in physical assets
- M08 - Forest investments
- M10 - Agri-environment-climate
- M16 - Co-operation

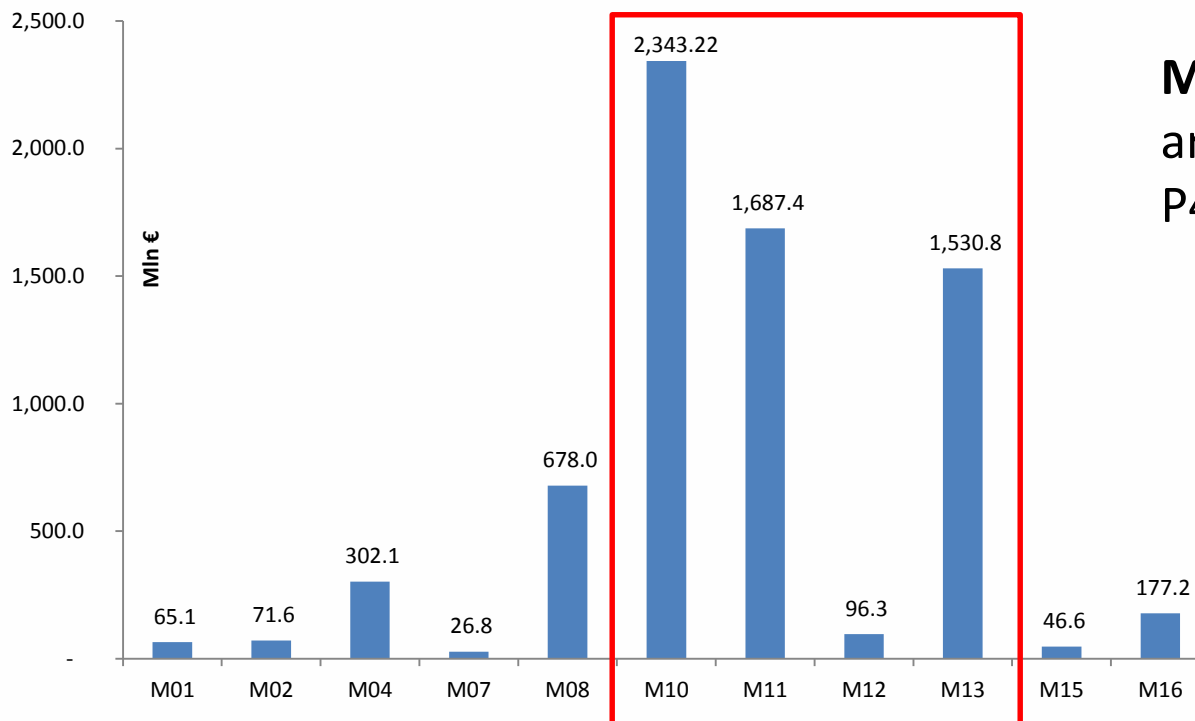
Focus Area 5A – Water use efficiency

- M01 - Knowledge transfer and information actions
- M02 - Advisory services, farm management and farm relief services
- M04 - Investments in physical assets
- M16 - Co-operation

Knowledge – Investments - Compensation

Main measures to target AEC priorities

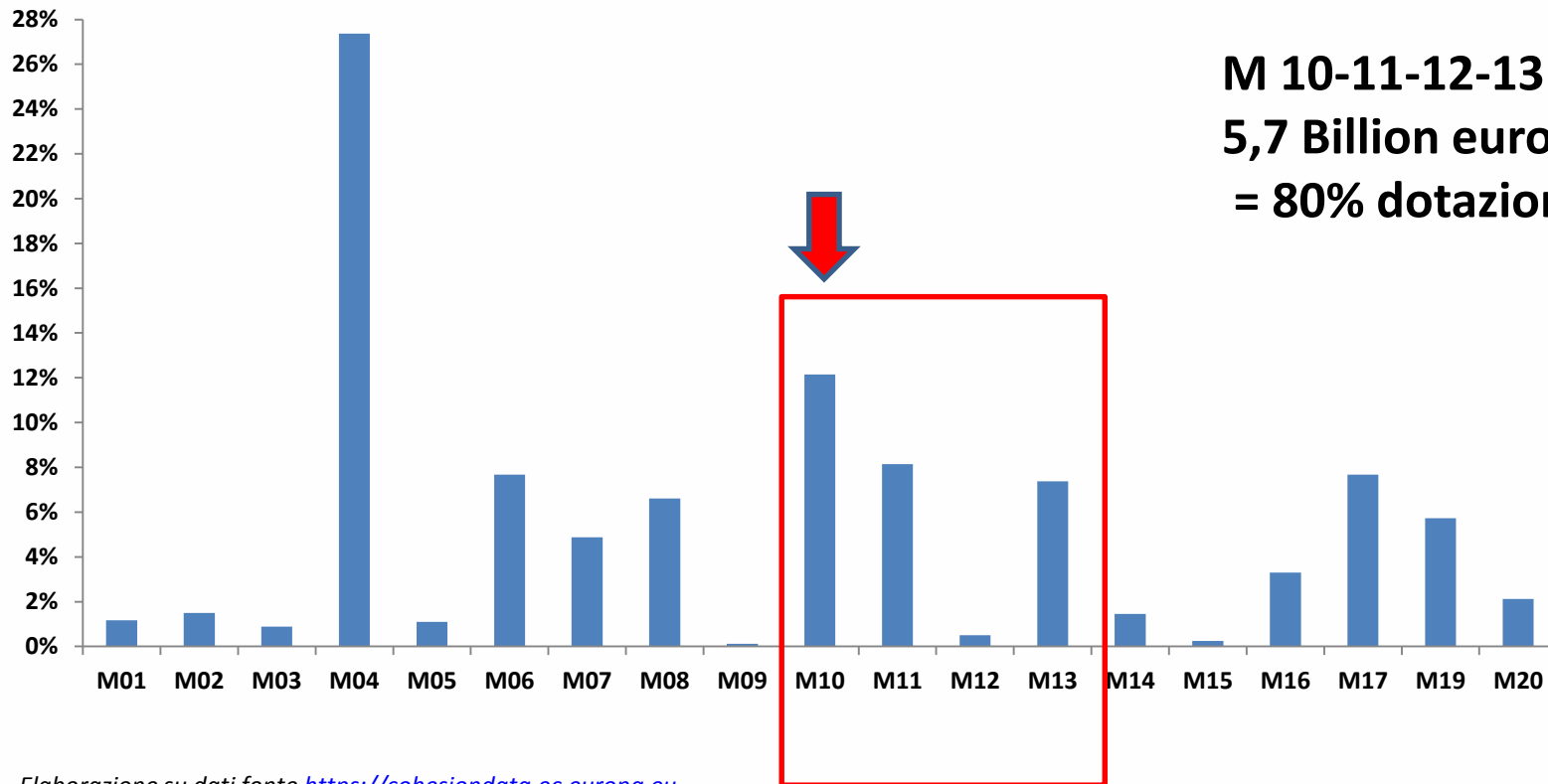
Total RDP Budget devoted to P4&P5 in IT



M.10-11-12-13
are the most relevant to
P4.

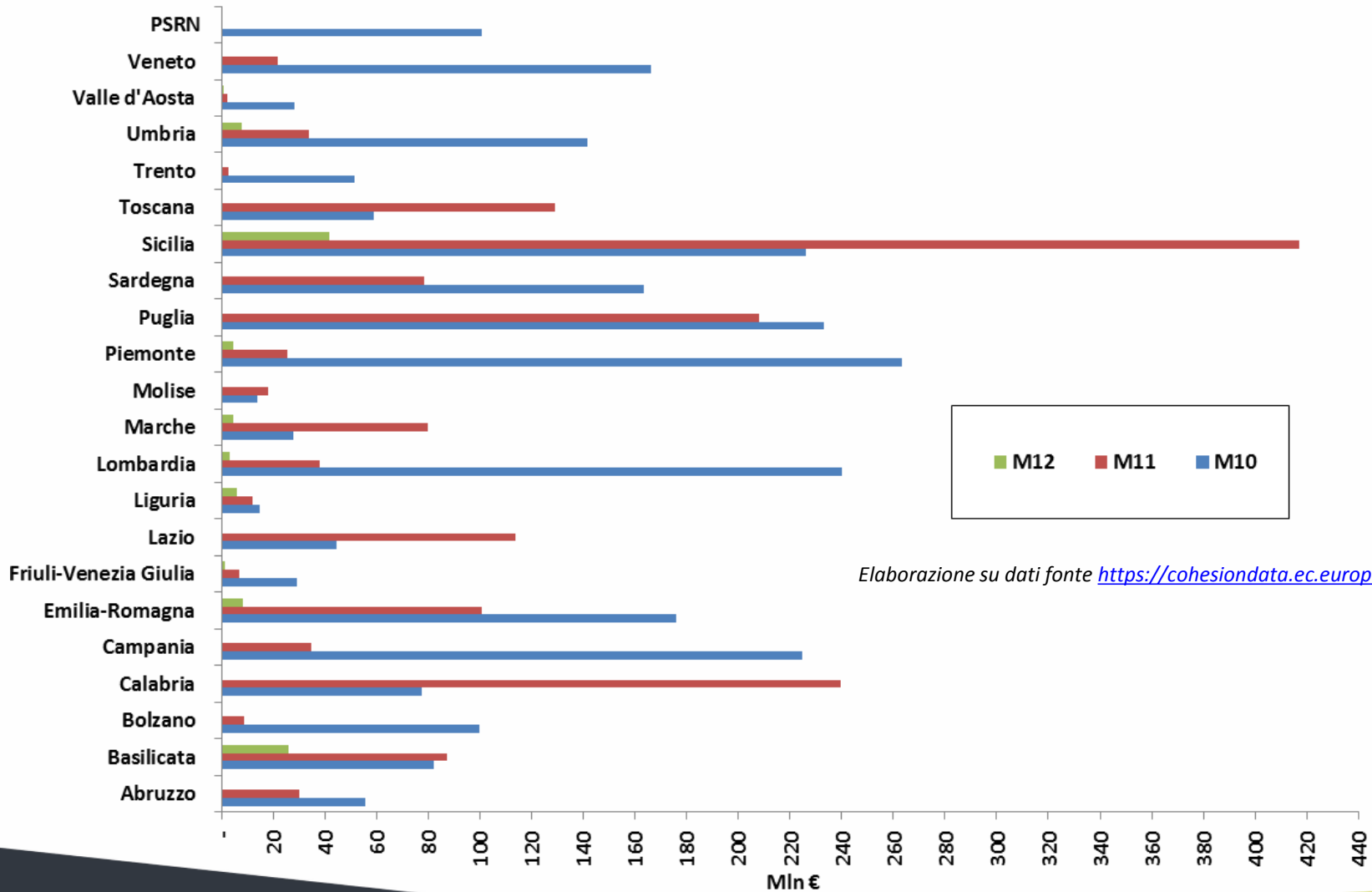
Elaborazione su dati fonte <https://cohesiondata.ec.europa.eu>

Share of RDP budget/measures



M 10-11-12-13
5,7 Billion euro
= 80% dotazione ACA

BUDGET FOR M.10-11-12 IN ITALY'S regional + national RDPs



Elaborazione su dati fonte <https://cohesiondata.ec.europa.eu>



How IT RDPs promote resource efficiency (soil&water)

M.10 for the sustainable use of SOIL

Combating soil erosion and degradation

- No Tillage
- Minimum tillage
- Strip tillage
- Cover crops in tree plantations

Increasing soil Organic matter

- Organic matter inputs
- Green fallow
- Cover crops in arable land

Promoting Integrated crop management

- Integrated management of soil conditions

M.10 for the sustainable use of WATER

Reducing water loss

• Conservation agriculture

**Improving irrigation techniques
and efficiency**

• Advanced irrigation schemes based
on advice

**Promoting Integrated crop
management**

• Adoption of more efficient irrigation
methods

RDP actions to promote soil conservation in ITALY

Italy's RDPs budget to support soil conservation actions is
3,5 billion Euros
targeting **2,5 Mha** of agr/forest land



M.10 for soil conservation

16 RDPs

1. *Piemonte*
2. *Lombardia*
3. *Veneto*
4. *Friuli*
5. *Emilia Romagna*
6. *Toscana*
7. *Umbria*
8. *Lazio*
9. *Abruzzo*
10. *Molise*
11. *Campania*
12. *Basilicata*
13. *Puglia*
14. *Calabria*
15. *Sicilia*
16. *Sardegna*

DEDICATED SUPPORT TO
`NO TILL` FARMING AND
CONSERVATION
AGRICULTURE

480 M. Euro
330.000 ha of target surface

Target:

- Soil erosion
- Carbon sequestration



M.10 for Integrated crop management

Budget: 1 billion Euro

Target 700 000 ha

Support to farmers who undertake voluntary commitments of integrated crop management according to guidelines (DPI) provided by regional authorities

Commitments for efficient water & soil management



SISTEMA DI QUALITÀ NAZIONALE
PRODUZIONE INTEGRATA

Measure 4 – productive a non-productive investments

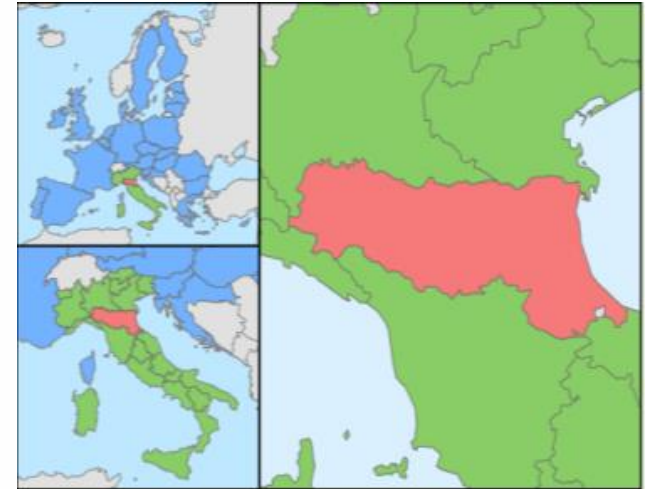
- Innovative irrigation technologies
- Artificial basins for water storage
- Water recycling systems
- Machineries for conservation agriculture and precision farming





Case studies from regional RDPs

Emilia-Romagna



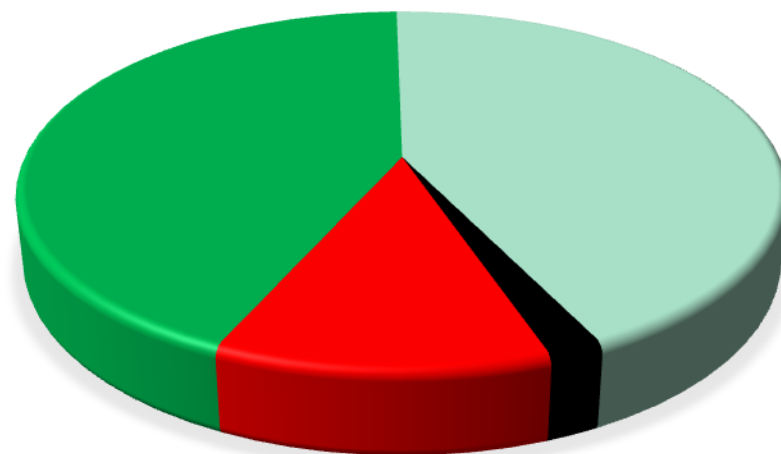
- Regional territory occupies about 22.500 Km², and it is about **48% plain, 27% hilly and 25% mountainous**
- Rural areas cover 60% (47% UAA) and the majority of population lives in rural municipalities (76.7%)
- Average farm size is 15 ha (7.9 ha Italian average)
- Agriculture represents 3.8% of the regional GDP

Intervention needs

Total RDP budget: 1,200 m Euro

- **Obiettivi generali**
 - **Farm competitiveness (43%)**
 - **AEC (43%)**
 - **Social inclusion (12%)**
 - **TA (2%)**
- **Tools:**
 - **11 measures - 66 operations**

MACROTEMI PSR





- ✓ **Integrated approach among measures and regional policies**
- ✓ **Relevant RDP budget of AEC priorities**
 - Irrigated area is 24% of the UAA
 - 22% of the forests area is affected by landslides, water erosion, flooding, landslides
 - 42,1 % of UAA classified as HNV farming and 6% of UAA classified as Natura 2000
 - VNZ cover the 28%
 - high concentration of nitrates and phosphorus in freshwater and groundwater
 - soil erosion around 6 t/ha/year

Tools for SOIL&WATER Efficiency

- Conservation agriculture and integrated crop management M10
- Investments for new machineries and technologies [M.4](#)
- OGI for soil & water efficiency [Misura 16](#)
- Training/coaching - [M.1-2](#)
- Support service [Technical Assistance](#)
- Dedicated thematic projects - Emilia blu
- LIFE projects



Emilia Romagna approach



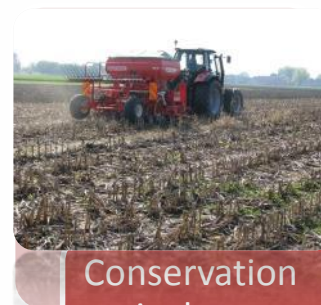
Integrated crop management

- 4300 farms
- 124 000 ha
- 12% UAA



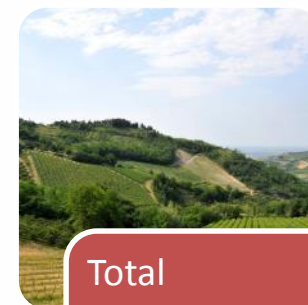
Organic farming

- 3983 farms
- 117000 ha
- 11% UAA



Conservation agriculture

- 37 farms
- 941 ha
- 2% UAA

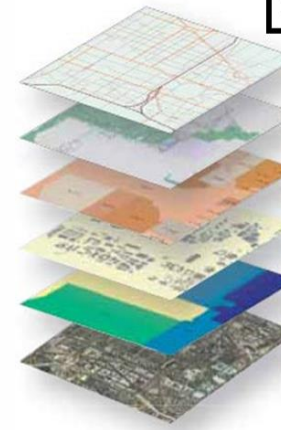


Total

- 8320 farms
- 241941 ha
- 25% UAA

Water efficiency

- M10 payment for farmers who implement irrigation scheme provided by the regional monitoring system IRRINET



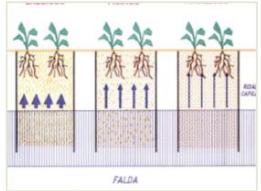
DATI DISTRETTO IRRIGUO



dati meteo

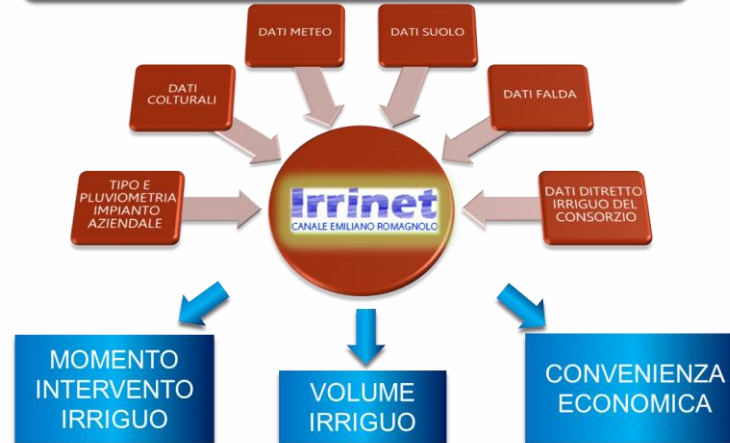


dati falda ipodermica



- 4054 Farmers
- 13000 Fields
- 60000 ha UAA
- Water savings 40-50 million m³

INPUT E OUTPUT DEL SERVIZIO



dati suolo



Operational groups for Water efficiency

Water in fruit production



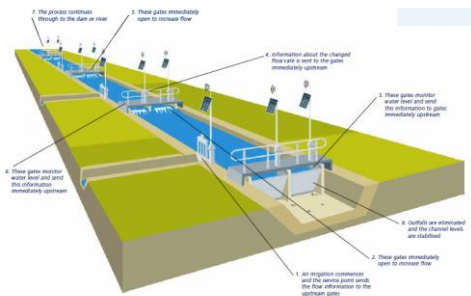
Information and demonstration



Improving IRRINET



Smart infrastructures



4b - FERTIRRINET



Groundwater



Synergies with other EU Funds and programmes

CLIMATE



CHANGE-R

RIDUZIONE DELLE EMISSIONI DI GAS EFFETTO SERRA DA PARTE DEI SISTEMI AGRICOLI DELLA REGIONE EMILIA-ROMAGNA

Barilla
The Italian Food Company Since 1877

coop

arpae
Agenzia provinciale ambiente energia Emilia-Romagna



CSO
CENTRO SERVIZI OLEOPICTORI



INALCA
GRUPPO UNIPEG

apo conerpo

GRANAROLO



Reduction of climatic emissions up to 46% by lower use of fertilizers and pesticides

- Minimum or reduced tillage
- Rational water management
- New feeding and nesting modes

Life HelpSoil

Coordinatore del progetto



Beneficiari associati



Cofinanziatore



- To implement innovative and improved management plans for agricultural land management
- Monitor environmental agri-environmental indicators and evaluate the improvements achieved
- Promoting conservative agriculture in the Po valley



Recycling water for agricultural use





Conclusions&tips

....to make RPDs contribution to resource efficiency more effective

Motivation GAP

- Agri-environmental payments received by beneficiaries as income support more than support for sustainability
- More intensive farmers are entrepreneurs and tend to make low-risk choice to save their income -> «sustainability is not profitability»
- Soil&Water efficiency measure envisage risky commitments for income

Knowledge GAP

- Soil&Water efficiency measure require know how and support/advice
- Soil&Water efficiency measure can become a tool for competitiveness -> but more knowledge needed!
- Demonstration and P2P experience sharing is needed

Policy GAP

- Bureaucracy and need of integration with Pillar I and other EU/national policies
- Compensation measure do not attract «already sustainable farmers» neither convince new adopters -> compensation is not enough to promote resource efficiency -> more motivation is needed
- Integration of measures and more effective support by M1-2-16

What RDPs must do to make support to resource efficiency more effective

- ✓ Dedicated and oriented information and support actions -> M1-2
- ✓ More tailored AEC payments -> improved negotiation with beneficiaries, ex-ante analysis, more sensitive indicators for guiding&evaluating policies
- ✓ Strengthen links with research and innovation -> M16
- ✓ Strengthen links with other measures to create indirect support -> M.3-4
- ✓ Strengthen links with other EU Funds and Programmes -> Life
- ✓ More networking between stakeholders of different policy



Thank you for your attention!

Danilo Marandola

danilo.marandola@crea.gov.it

Maria Valentina Lasorella

mvalentina.lasorella@crea.gov.it

