Programma di Sviluppo Rurale dell'Emilia-Romagna 2007/2013

Nuovo slancio a una terra unica

DATA MANAGEMENT FOR MONITORING AND EVALUATION IN EMILIA-ROMAGNA RDP

Good practice workshop: Targeted data management for evidence-based evaluation in Rural Development

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RegioneEmilia-Romagna

Outline

1. Structure of Italian system
2. Data collection and management in Emilia-Romagna
    1. IT system for RDP
    2. Subjects involved
    3. Datawarehousing
    4. Main outputs
3. Comparison – links with National system
4. Use of monitoring data for evaluation
5. Preparing for ex-ante 2014-2020

IT system for RDP – Base informations

Farm data → register office informative system

- Fiscal data (Farm Unique Code, legal form, localization etc.)
- Holder → gender, age, young farmer
- Physical data
  - Land managed
  - Livestock
  - Quality productions → organic, PDO (Protected designation of origin), PGI (Protected Geographical Indication) ecc.

Geographical informations → GIS (part of IACS)

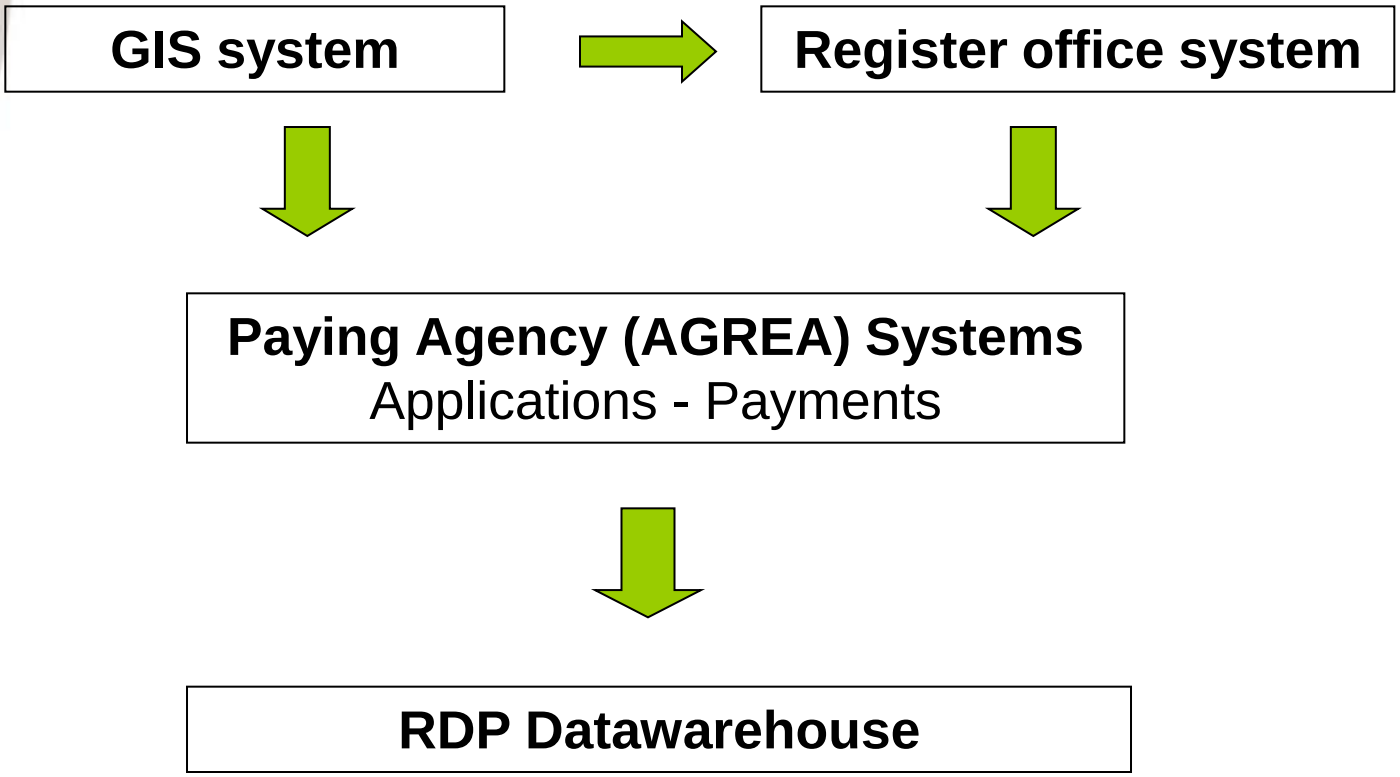
- Cadastral data
- Land use (from aerial photography - aggregated)
- Cartography used in RDP:
  - Natura 2000, Nitrate Vulnerable zones, Parks etc.
  - Cadastral parcel included in an area

IT system for RDP – RDP informations

RDP Managing data → Paying agency informative system

- Structure: different modules for RDP measures - Procedural phase (presentation, commitment, payment etc.)
- Informations:
  - Specific data related to RDP measures → indicators
  - Detailed land use → crop-species and variety for every cadastral parcel
- All the informations needed (management and monitoring) → included in the system
  - No additional survey for monitoring data
  - Monitoring unit involved in the construction of application modules

IT system for RDP - links



Subjects involved

REGIONAL LEVEL

Managing authority – Regione

- Administrative management
- Direct management of some measures
- Coordination local – national levels
- Monitoring and evaluation
- Informative system management:

Regional Paying agency (AGREA)

- GIS, application and payments system management
- Payments administrative management
- Coordination with National paying agency (AGEA)

LOCAL LEVEL

Agricultural Assistance Centers

- Interface for farmers to
  - Update register office data
  - RDP applications presentation

Provinces

- 9 provinces
- Integrated rural local program →
  - local version of RDP
  - detailed selection criteria
- Responsible for commitments and controls

Local Action Groups

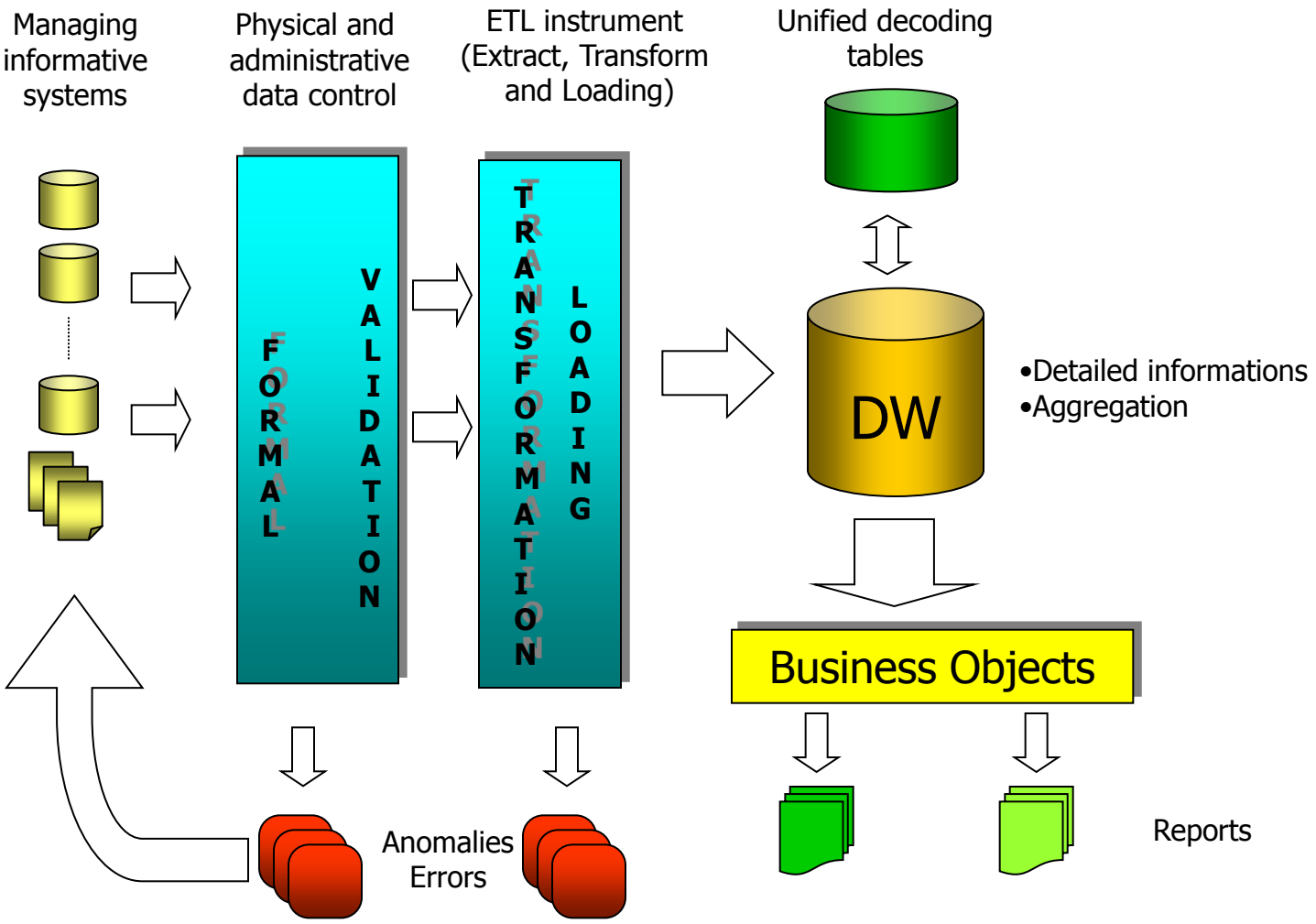
- 5 LAGs
- Responsible for commitments

Controls on monitoring data

Strategical issue to obtain reliable reports

- First control in acquiring informations → presentation – other procedural phases
- Commitments validation →
  - done by measures managers (Regione, Provinces and LAG)
  - under request of monitoring unit
- Correct management of procedural phases → support of monitoring unit to Paying agency
- DWH internal data controls → completeness - coherence

Monitoring data flow



DWH management

Time

- Dump from managing informative system: every month
- Publication of financial reports on web: every 3 months
- Annual reporting: every year

Reporting areas

1. **Financial** : N application committed, commitments (€), payments (€) for axis and measure, divided by year
2. **Physical**:
   - Indicators: N application, commitments (€), payments (€), area (ha) -
   - Measure, Action (sub-measures), indicators, type of investments, type of farm, etc.
   - Territorial reports: aggregation for municipality (all measures), disaggregation for parcel data (only area-based measures)
3. **Procedura**l: financial informations for procedural phase (presentation, commitment, payment etc.)
4. **Transversal**: main financial and physical informations
   - Measure – Application: all axis-measures, 80.000 committed applications,
   - Beneficiaries – farms: unique number of beneficiaries, 22.000 beneficiaries

DWH management

Reports extraction and publication

1. Business objects:
   - Business intelligence software: easy creation of reports from DWH
   - Overall management and customization → reports complete set
   - 4 users - monitoring and evaluation unit
2. Web reporting:
   - Open source software for report construction – publication
   - Financial - procedural reporting with limited choices (year, dates, measures)
   - Access with username-password: 150 users – measures managers
3. Web site:
   - Open consultation on www.ermesagricoltura.it
   - Pdf financial reports updated every 3 months
   - Annual implementation report

Role of the monitoring system in 2012

Institutional (requested by CMEF): indicators – annual report

Managing authority needs

- Update commitments and payments → follow the progress, reallocation of resources
- Answer to policy needs: specific territories - type of action
- Quick reaction to changing: Health Check - New measures - Earthquake
- Support to other subjects involved:
  - Main issue: with the same question every subject extract different data
  - Solution: the monitoring unit extract reports for ALL the subjects involved

Organization remarks

- Importance of a functioning system → human and technical resources dedicated
- Good relationships with other subjects involved
- Continuty of management and technical construction: dealing with complex objects

Comparison with national system

Structure (2012)

- 8 regions with regional Paying agencies
- 12 regions with national Paying agency

Connections between regional and national systems

- Every regional PA manage its own informative system
- All the PA (national-regional) share a part of informations via web-services (mainly for controls at national level)
  - Farm data file
  - Parcels - land use
  - Payments

Comparison with national system

Common issues

- Informative systems of PA are quite similar → same objects-informations and measures but differences for local specificities
- Data return to Managing authority → critical point, depending from organization and relationships

Strengths of regional system

- Closeness to local specificities → reduced costs for system management
  - measures not activated - crops not present
  - easier management of some measures (E-R: 10 agri-environmental measures)

Weaknesses of regional system

- Regions with national PA: problems in obtain data - content metadata
- Forced to build parallel systems
- Local sectors: at national level need of specific functioning system → problems for priorities
- Risk of cost duplication in overlays from regional-national levels

Use of monitoring data for evaluation

Evaluation specific reporting

- General (RDP level)
  - Transversal and financial : overall progress – farms carachterization
  - Sheet with full data for every application
  - Procedural reports: effects of selection criteria
- Specific (measure level)
  - Sampling universe definition: specific reports with detailed informations
  - Area measures: contracts divided by type of action, parcels and crops
  - Integration of different measures: crop chain contracts with applications linked

Use of monitoring data for evaluation

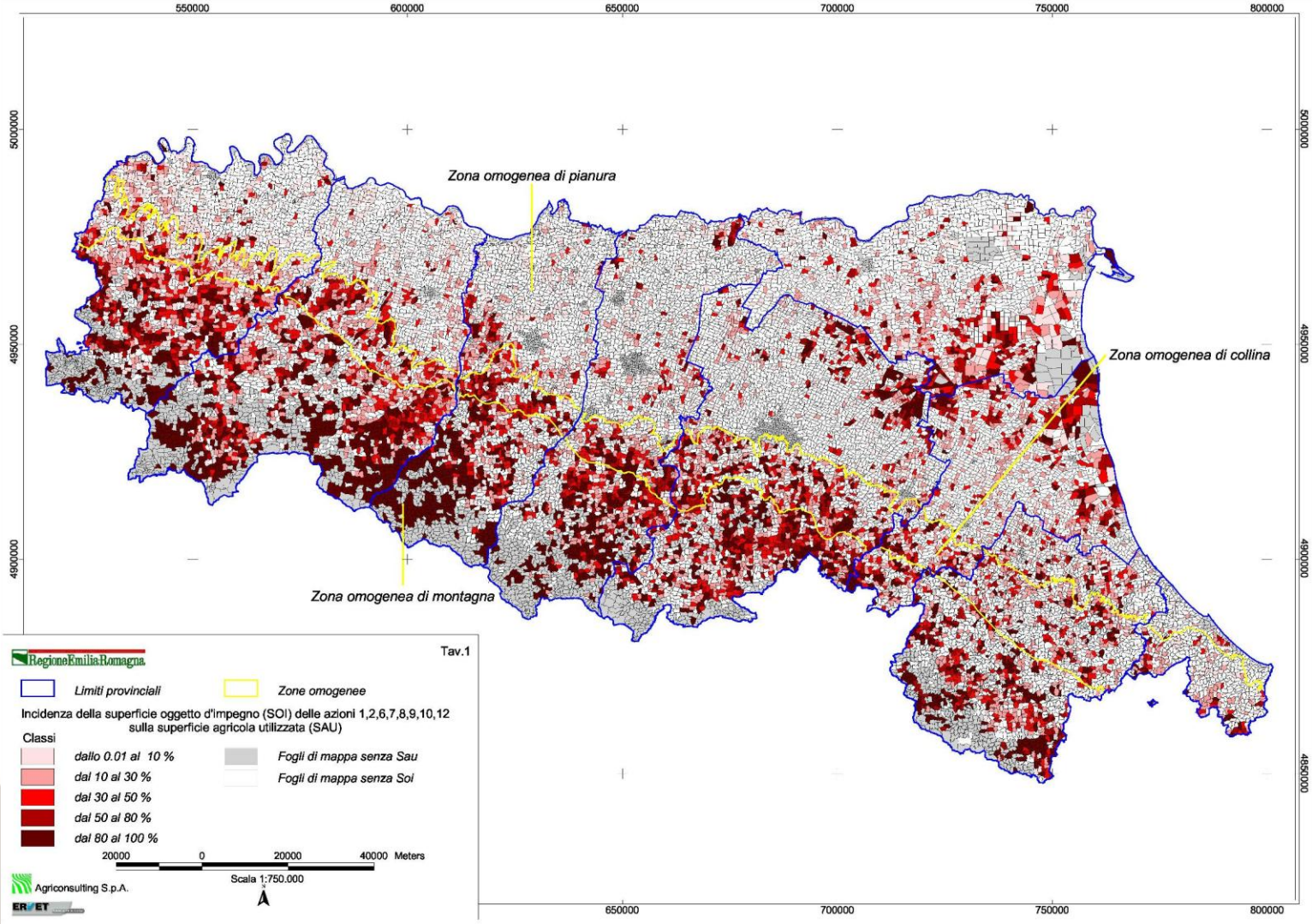
Area under successful land management - Result indicator n 6: report detail

- Specific annual reporting based on contracts divided by type of action, parcels and crops
- Base report used in almost all indicators for area based measures → R6, FBI, HNV, soil erosion, water quality, selection criteria analysis etc.
- Possibility to georeference informations at cadastral sheet level
- Manage overlay of different measures on the same physical area (i.e. 211 and 214)
- Integration with other sources → shape files from measures 226 – 227 (non productive investments)

Agri-environmental application mapping

Territorial unit: cadastral sheet (100 ha)

Indicator: area under contract / UAA - calculated for every sheet



Context data DB
Preparing for ex-ante 2014-2020

Needs

- Cover lackness in land use – statistical data
  - Non agricultural areas (forest – natural – urban) not managed in Paying agency systems
  - UAA in main environmental areas i.e. Natura 2000
- Detailed territorial data and time series
- Extend RDP DWH approach → good quality data on 25% of farms

Solution (in progress):

Alphanumeric - cartography geodatawarehouse

- Aggregator of different DB containing context data
- Input data for all farms - full regional cadastral cover - all measures first and second pillar
- 3 modules: Land use (parcel and crop) - Regional cartography - Farm data
- Updated once a year
- Integration of datawarehouse and GIS properties
- Outputs: tables, charts and maps

THANK YOU FOR YOUR ATTENTION

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