

# Big Data Monitoring for European Funds: Tuscany Case Study (IT)



Targeted data management for evidence  
based evaluation of Rural Development  
Programmes 2014-20  
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# Contents : Case Study SIART



## Scenario: Monitoring 2007-2013 EU Agri Funds

- Strength & Weakness (IT as core business)
- Maturity model & business scorecard
- Lesson learned

Experience derived from implementing that Regulation shows that certain elements of the financing and monitoring mechanism need to be adjusted

## BI Monitoring 2014-2020 EU Agri Funds

- IT governance & management processes
- Business Case
- Technology for BI
- Implementation, Monitoring & KPI

Objective : Ready to answer to Evaluation & Information Needs!

# Strenght & Weakness



## IT as Core Business

- IT & Enterprise Governance Alignment
- All stakeholders involved in the main setting (Steering group, managing & monitoring Authority (ADG), evaluators, certification authorities, paying agency)
- Procedures for authorisation, validation and payment completely automated & integrated
- Extensive use of web services for immediate accessing to other DB sources
- Internal competencies and skills
- A large quantity of data
- Internal service level agreement
- Peaks and workload
- Urgency could lead to lack/weak analysis
- Reworks
- Training & skilled personnel

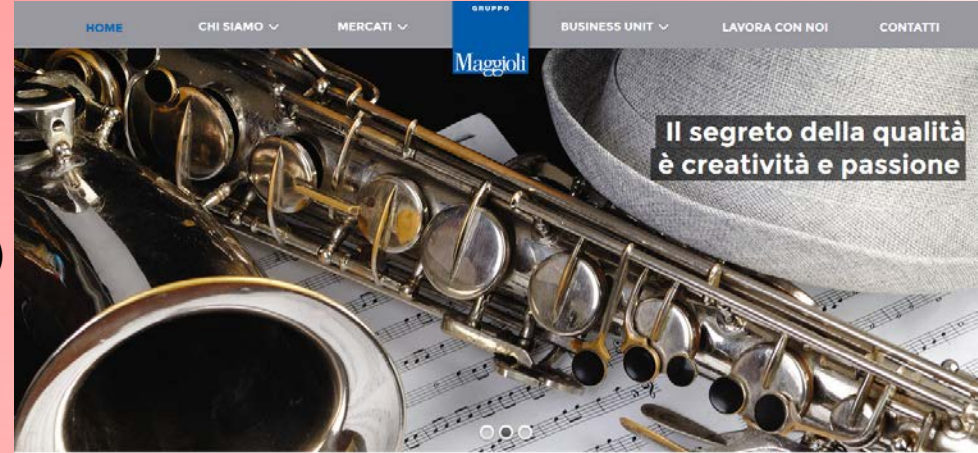


# Maturity Model



## External Assurance Provider Involvement to Evaluate IT Maturity

- Survey
- Interview to key users
- TeamWorks (Stakeholders Involvement)



Monitoring & Evaluation!

# Monitoring PSR 2007-2013

I pagamenti

Monitoraggio del PSR 2007-2013

PSR  
2000-2006

Ente

\*\*\*\* TUTTI \*\*\*\*

Misura

\*\*\*\* TUTTE \*\*\*\*

Anno

TUTTI

Visualizza importi

☒ o conteggio istanze

Visualizza tutto

☒ o filtra le voci

Ricerca

Aggregazioni

Totale istanze per ente

Aggregazioni

Glossario

Programmato

Assegnato per Anno Solare

Domande Pagamento Saldo

Riduzioni da controlli SIGC

Richiesto

Assegnato per competenza

Domande Revocate

Liquidato per Competenza

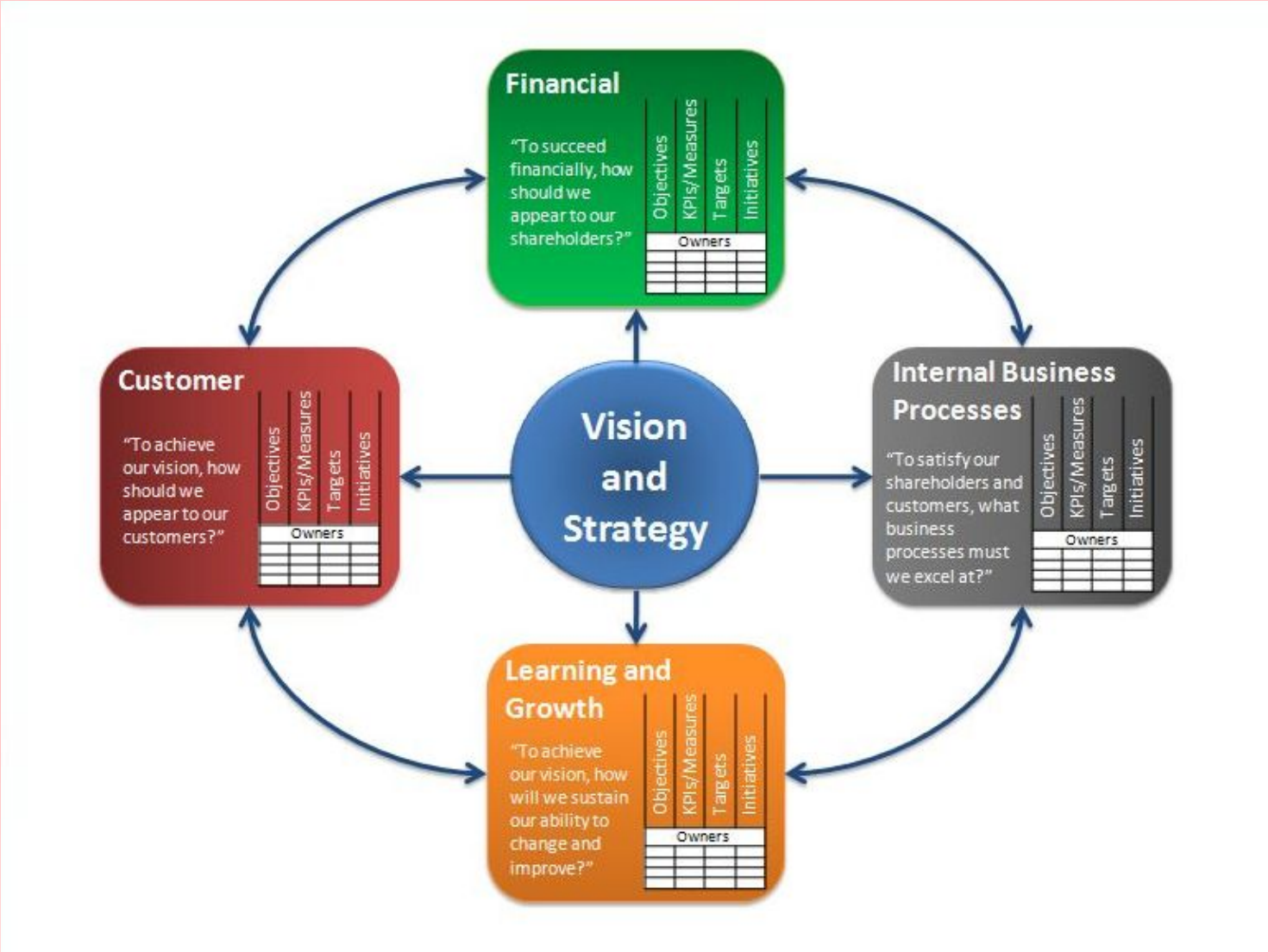
Domande Pagamento Rinnovi

Domande Pagamento Anticipo

In Istruttoria

Autorizzato

# Business Scorecard



# Lesson Learned



Objective : Answer to Evaluation Needs ?

- Structured Data
- Several type of data
- Data Dictionary
- Structured Reports
- Data Availability on Time
- Quality
- Automatic Tools

# Big Data



data sets

that are so large or complex

that traditional data processing applications are inadequate to deal with them.

Challenges include:

- analysis,
- capture,
- data curation,
- search,
- sharing,
- storage,
- transfer,
- visualization,
- querying,
- updating
- information privacy

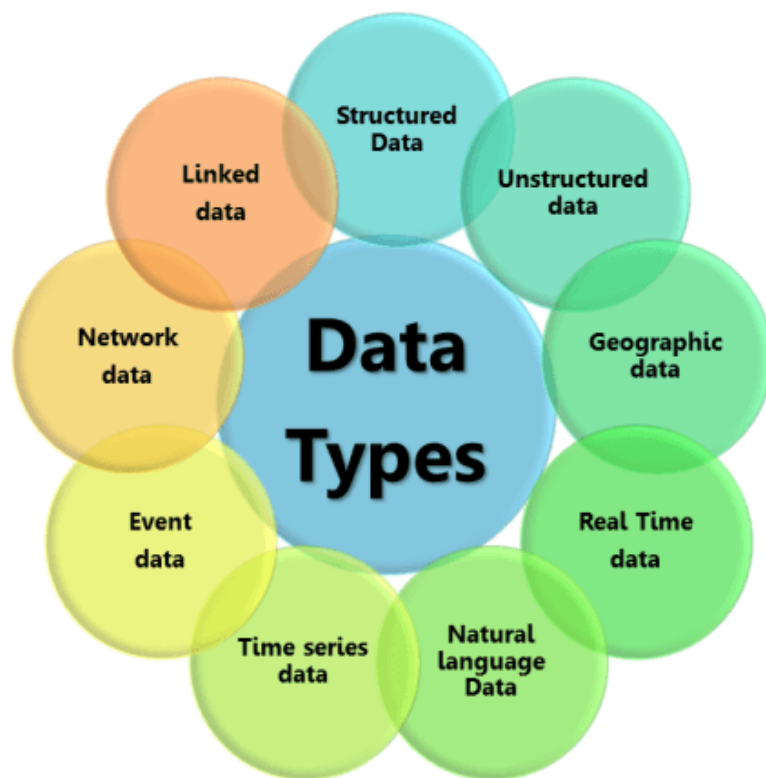
On time

plus

historical archives!



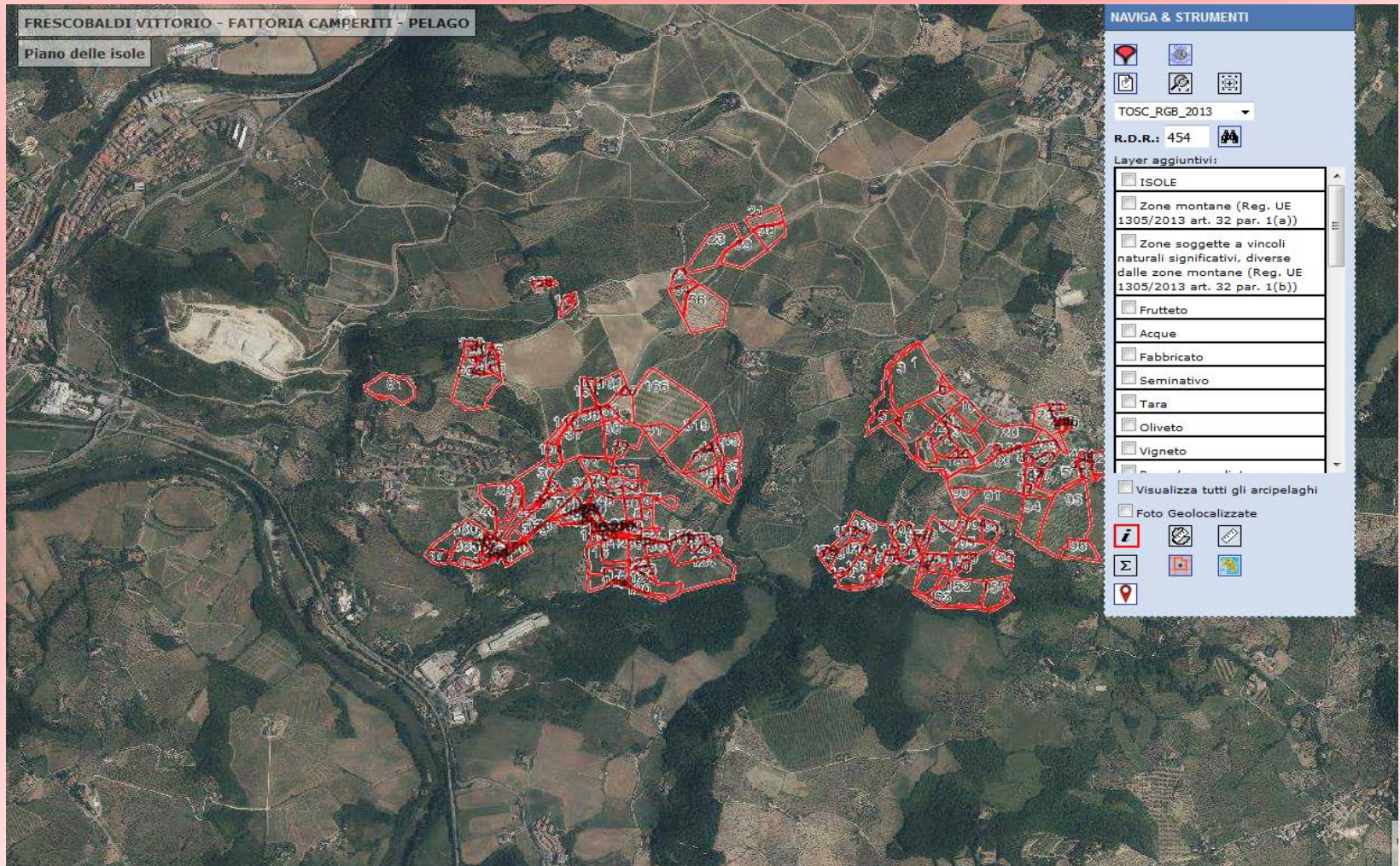
# Available Big Data Types



Geographic data!



# Geographic data (cultivation plan) gathered since applications





# BI Developing Process

## Value Governance

- VG1: Establish informed and committed leadership.
- VG2: Define and implement processes.
- VG3: Define portfolio characteristics.
- VG4: Align and integrate value management with enterprise financial planning.
- VG5: Establish effective governance monitoring.
- VG6: Continuously improve value management practices.

## Portfolio Management

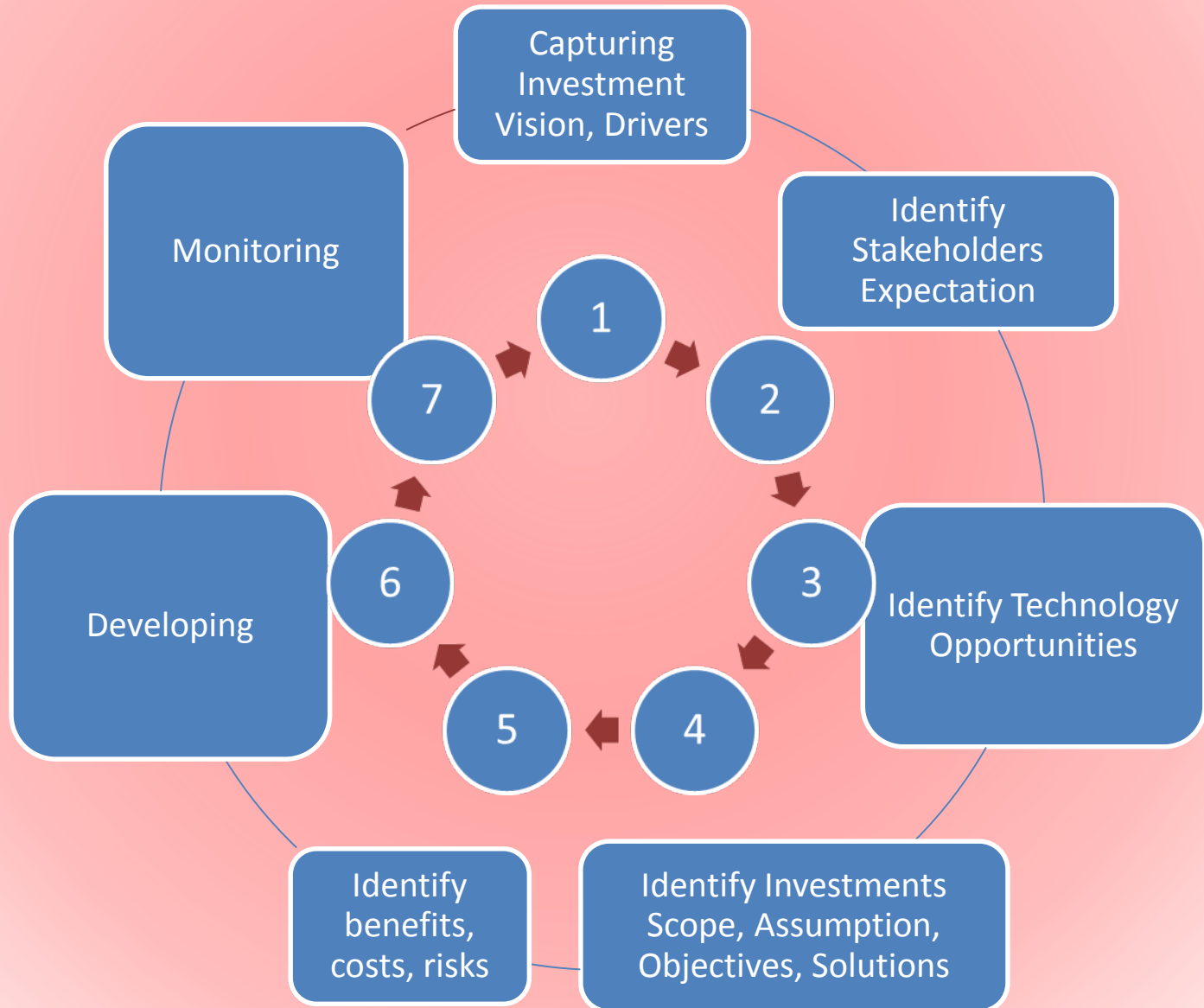
- PM1: Establish strategic direction and target investment mix.
- PM2: Determine the availability and sources of funds.
- PM3: Manage the availability of human resources.
- PM4: Evaluate and select programmes to fund.
- PM5: Monitor and report on investment portfolio performance.
- PM6: Optimise portfolio performance.

## Investment Management

- IM1: Develop and evaluate the initial programme concept business case.
- IM2: Understand the candidate programme and implementation options.
- IM3: Develop the programme plan.
- IM4: Develop full life-cycle costs and benefits.
- IM5: Develop the detailed candidate programme business case.
- IM6: Launch and manage the programme.
- IM7: Update operational IT portfolios.
- IM8: Update the business case.
- IM9: Monitor and report on the programme.
- IM10: Retire the programme.

Source : ISACA VAL IT

# Business Case for BI on EU Agricultural Funds





# BI Tools

Reports and KPI !

**Performance &  
Conformance**



# Conclusion : Future Issues & Next Steps

Do we need efficiency and economical improvement on controls processes ... why don't we use drones?



*Thanks!*