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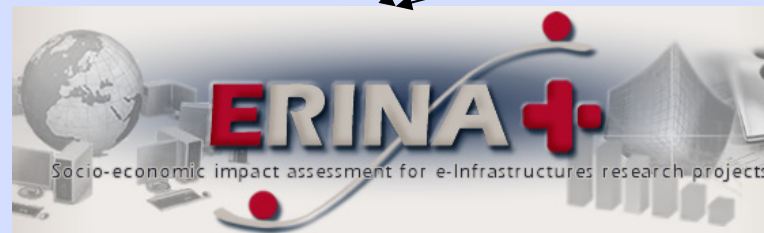
Summary

- ERINA+ original and current aims

- Reasons for adapting the methodology

- The enhanced process

- The tools for supporting the methodology adoption

- Collaborations and complementarities

Some background info

ERINA+ – in a Nutshell
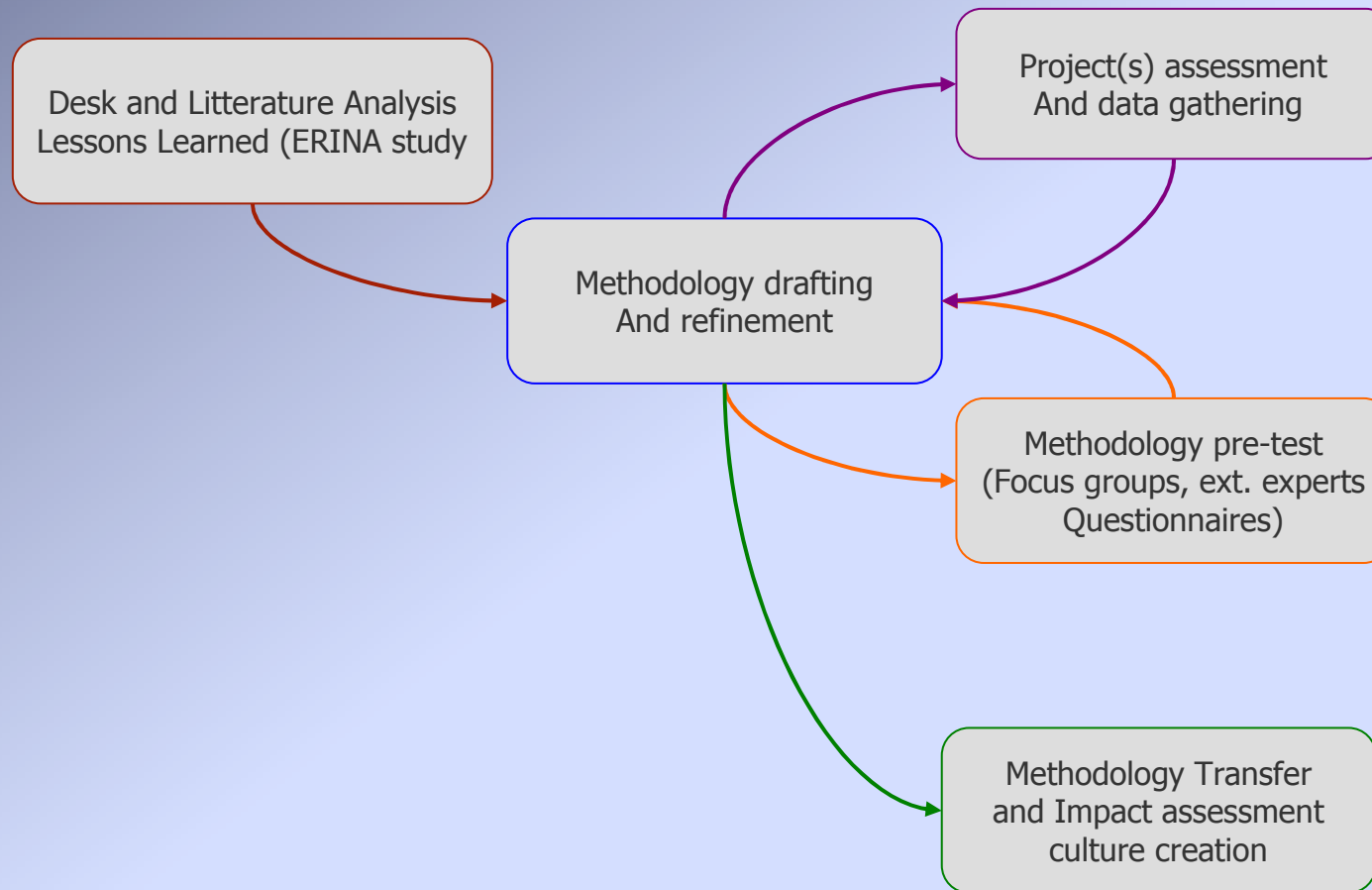
- To design a comprehensive evaluation framework
  - able to analyse how e-Infrastructures generate socio-economic benefits for researchers, European Research Area, European economy, society as a whole.
- To solve the lack of project data
  - by engaging with projects impact assessment, and
  - by contributing to the e-Infrastructures domain impact assessment awareness
- To derive implications on e-infrastructures impacts
  - e-Infrastructures projects <> e-Infrastructures

ERINA+ workplan

Desk and Litterature Analysis Lessons Learned (ERINA study

Methodology drafting And refinement

Project(s) assessment And data gathering

Methodology pre-test (Focus groups, ext. experts Questionnaires)

Methodology Transfer and Impact assessment culture creation

Issues, limitations and barriers

- Assessment Methodology
  - Initial approach suffered from statistical perspective → complemented with qualitative information
  - Cost-benefit analysis at project level revealed limitations on applicability → moved the costs on benefits obtained/expected
  - Lack of formalism in the derivation process (from projects to eInfrastructures) → developed a mapping exercise and a social network study
  - Missing external evaluation of project impact → introduce a Stakeholders Perception Analysis
- Data Gathering Process
  - Some benefits difficult or impossible to quantify → needed proxies
  - Projects interested but:
    - Impact assessment perceived as an extra activity
    - Questionnaires perceived as an extra review of project performances
    - Data provisioning sometimes complex and boring (not impossible)
    - → Introduced a Web tool for data gathering and analysis
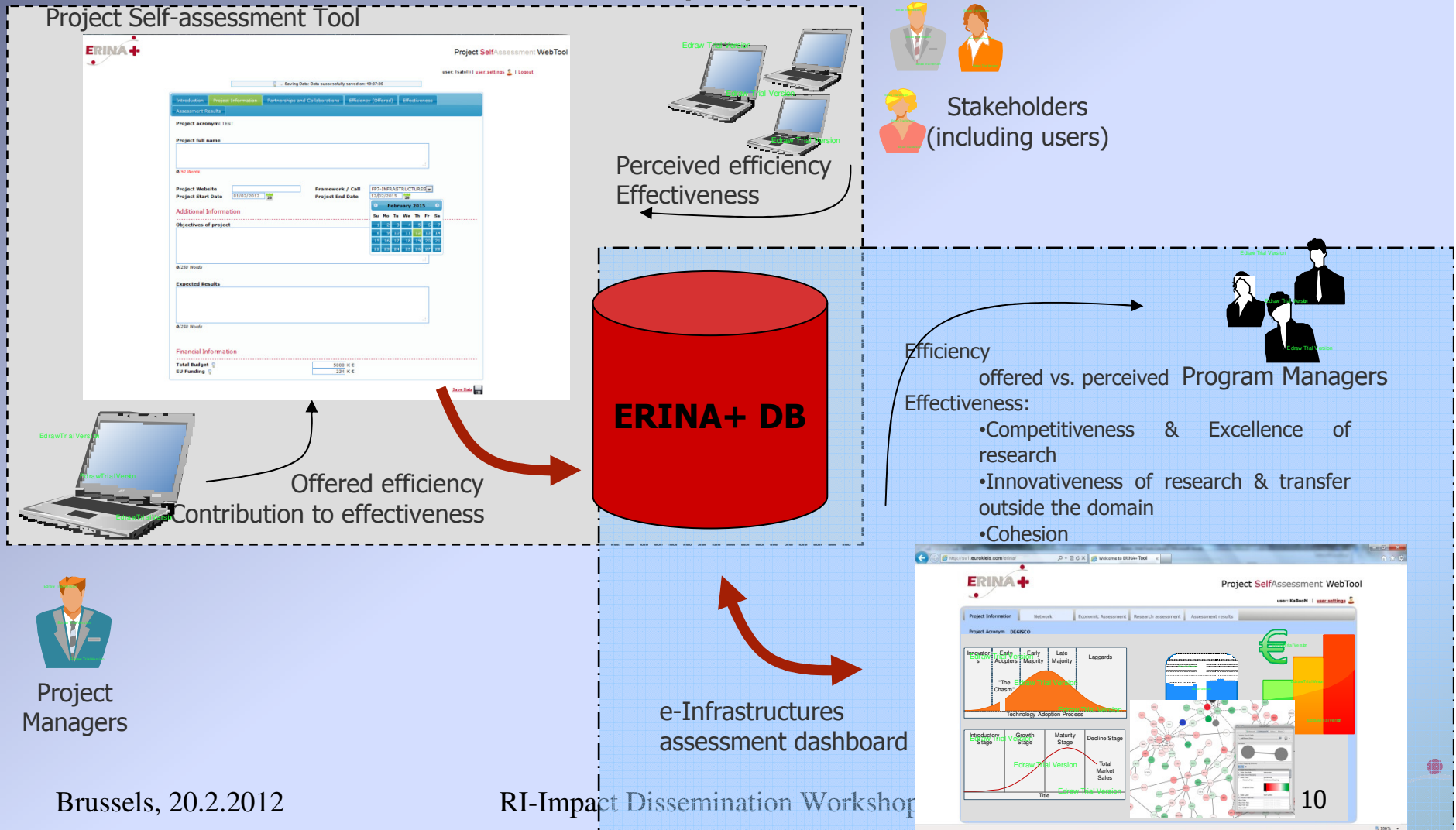
ERINA+ vs. RI-Impact

- RI Impact approach is valid and in line with assessment standards that ERINA+ also uses

- RI performs the assessment of the e-Infrastructure program looking at its characteristics (accessible, efficient, sustainable, innovative, transformative);

  - ERINA+ assess projects and e-Infra but not the program by itself; the characteristics analyzed (efficiency, competitiveness, innovativeness and transfer outside the domain and cohesion) are comparable and complementary as well as the indicators that derive from them

- in term of complementarities:

  - ERINA+ will reuse the data coming from the projects analyzed by RI

  - besides the data coming from projects we also collect feedbacks form users and projects/e-Infra stakeholders

  - ERINA+ platform could became the unique interactive repository and tool for the analysis of the e- Infrastructures

Level of collaborations

- Shared questionnaires and data gathering issues with RI-Impact and eNventory

- Learnt by eNventory on how to communicate program data

- Open discussion with eFiscal on how to calculates costs for e-Infrastructures

- Open discussion with OSIRIS on a comprehensive while computable notion of e-Infrastructure

The ERINA+(+) Framework

Project Self-assessment Tool

Perceived efficiency
Effectiveness

Stakeholders
(including users)

ERINA+ DB

Efficiency
offered vs. perceived   Program Managers
Effectiveness:
- Competitiveness & Excellence of research
- Innovativeness of research & transfer outside the domain
- Cohesion

Offered efficiency
Contribution to effectiveness

Project
Managers

e-Infrastructures
assessment dashboard

eInfrastructure assessment challenges

- Attribution
  - identifying to which extent a particular piece of work has influenced a specific scientific results
- Time-lag
  - Between research completion and its potential impact
- Heterogeneity of e-Infrastructures domain
  - Impact variation by different types of EC initiatives
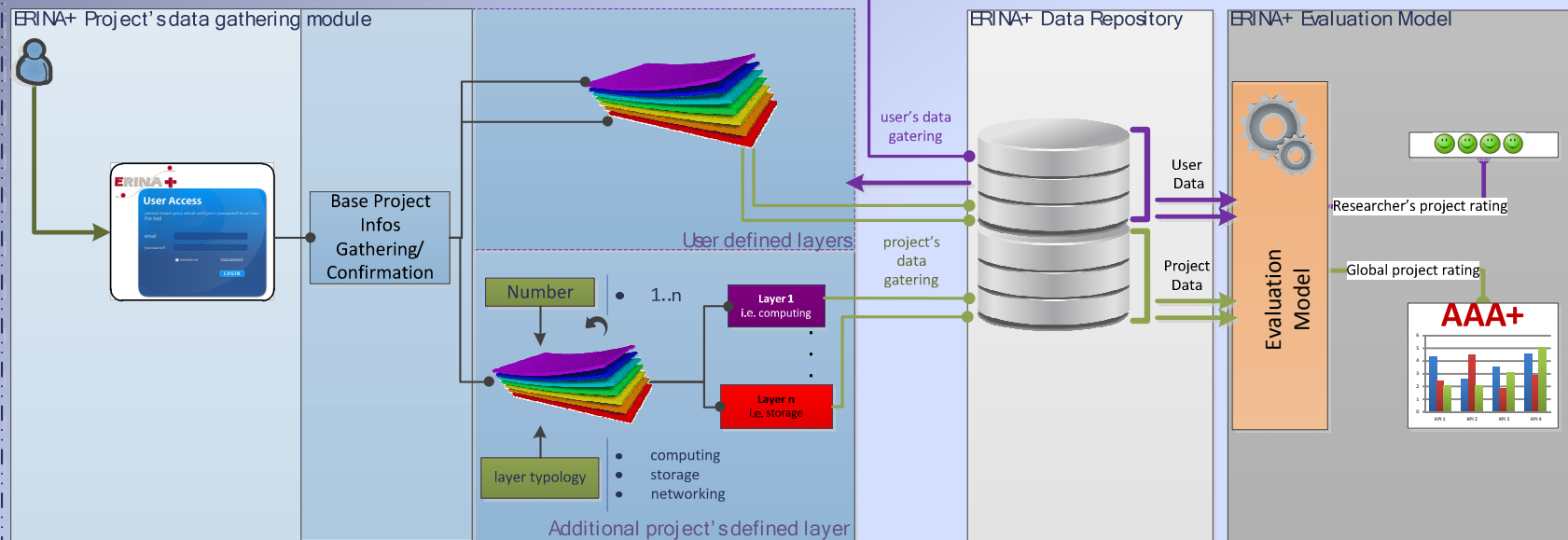 - Impact variation across various disciplines and sectors

The ERINA+(+) approach

- Identifying a common methodological framework
  - Data gathering from projects (Self-assessment tool as a win-win solution)
  - Mapping and networking analysis among e-Infrastructures and projects
  - Analyse stakeholders perception
- Impact Indicators:
  - Efficiency
    - offered vs. perceived
  - Effectiveness:
    - Competitiveness & Excellence of research
    - Innovativeness of research & transfer outside the domain
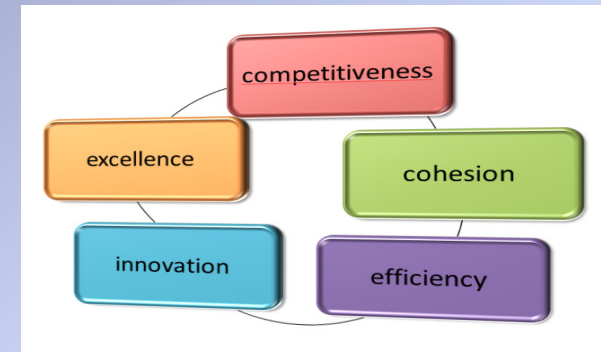   - Cohesion

ERINA+ self-assessment

ERINA+ user's data gathering module

- User profile
- E-Infrastructure/ Service Used
- Since how long and with which frequency
- Number of papers & Number of patents registered thanks to the service/e-infra usage
- Increase in number of new collaborations with researchers
- Savings on operational expenses due to the use of the service(s)
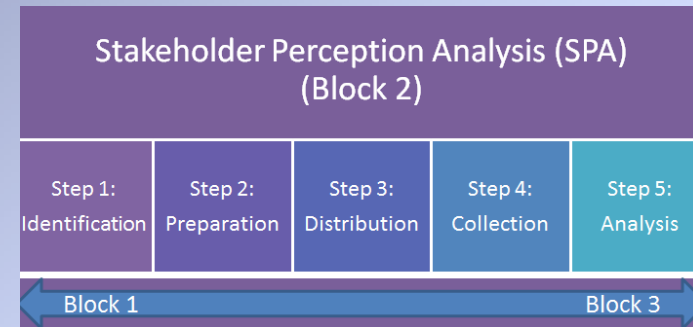- Working hours saved thanks to the use of the service(s)
- ... ...

ERINA+ Project's data gathering module

User Access
please insert your email and your password to access the tool
email
password
LOGIN

Base Project Infos Gathering/ Confirmation

User defined layers

Number

1..n

Additional project's defined layer

layer typology

- computing
- storage
- networking

Layer 1
i.e. computing

Layer n
i.e. storage

ERINA+ Data Repository

user's data gatering

project's data gatering

User Data

Project Data

ERINA+ Evaluation Model

Evaluation Model

Researcher's project rating

Global project rating

AAA+

ERINA+ SELF ASSESSMENT TOOL

Stakeholder Perception Analysis (SPA)


… aims at support and evaluation of facts provided by other methodological blocks (1,3,4)

… driven by complexity of activities in e-Infrastructures domain

… uses framework of questions addressing major impact areas of e-infrastructures perceived by providers, projects and users (VCRs)

… analyses catalysts and barriers with respect to social impact areas using quantitative and qualitative techniques

Stakeholder Perception Analysis (SPA)

Stakeholder Perception Analysis (SPA) (Block 2)

| Step 1: Identification	Step 2: Preparation	Step 3: Distribution	Step 4: Collection	Step 5: Analysis

Block 1 ← → Block 3

- Choosing impact areas and characteristics used within the logic of ERINA+ methodology (including effiiency and efficacy characteristics of impact areas)
- Identifying and approaching key stakeholders
  - E-Infrastructures providers (supported by Block 1)
  - Projects in the e-Infrastructures domaons (supporting Block 3)
  - E-Infrastructures users (VCRs, ERA, exchange with Block 4)
- Providing Framework of questions addressing efficiency and efficacy issues
  - By semi-structured interviews
  - Online, telephone, face-to-face
- Analysing feedback collected (twofold):
  - By integration of results within ERINA+ plattform on self assessment methodologiy
  - By using qualitative techniques (e.g. MaxQDA) for providing input to white paper development
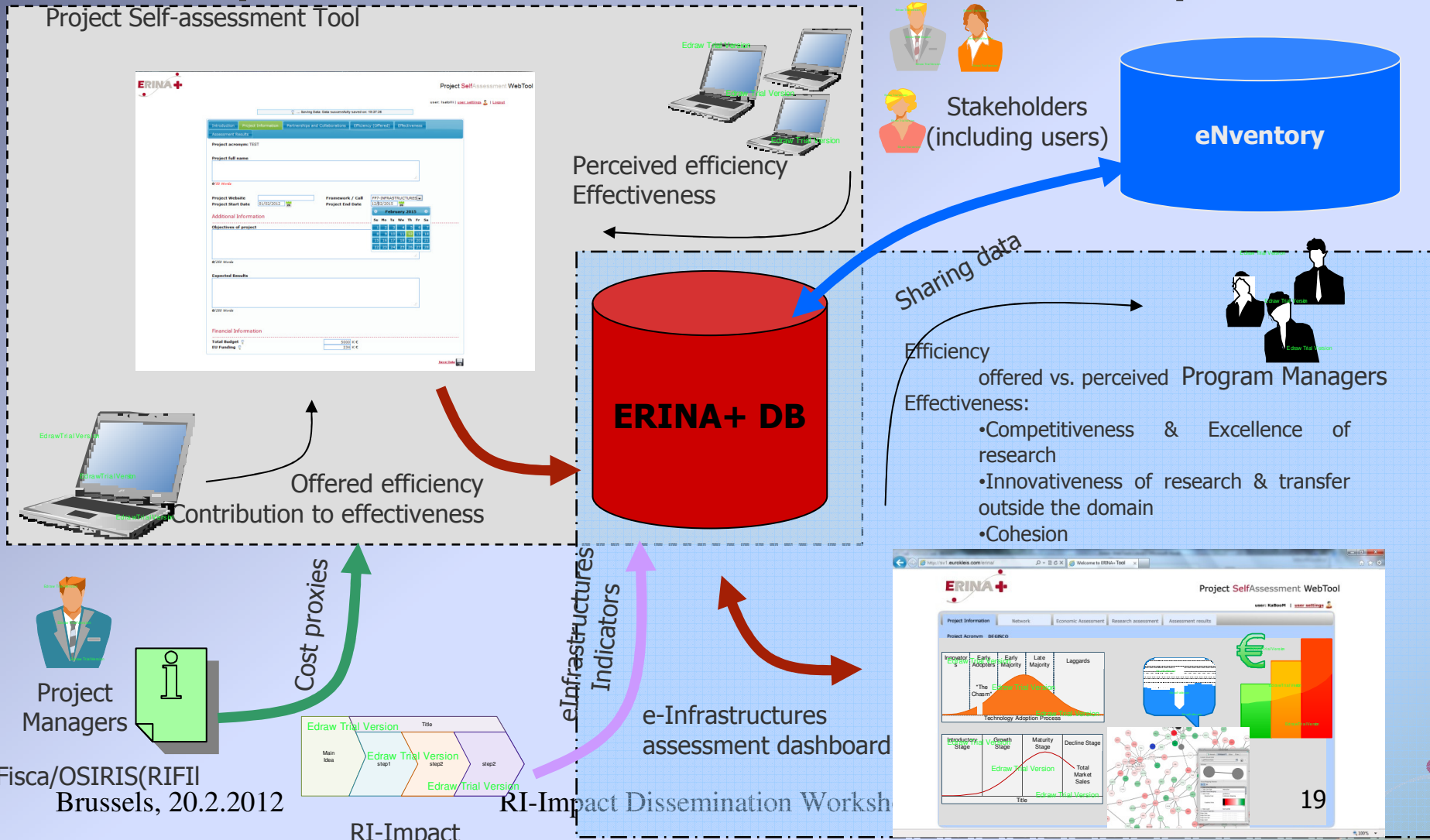
Why mapping?
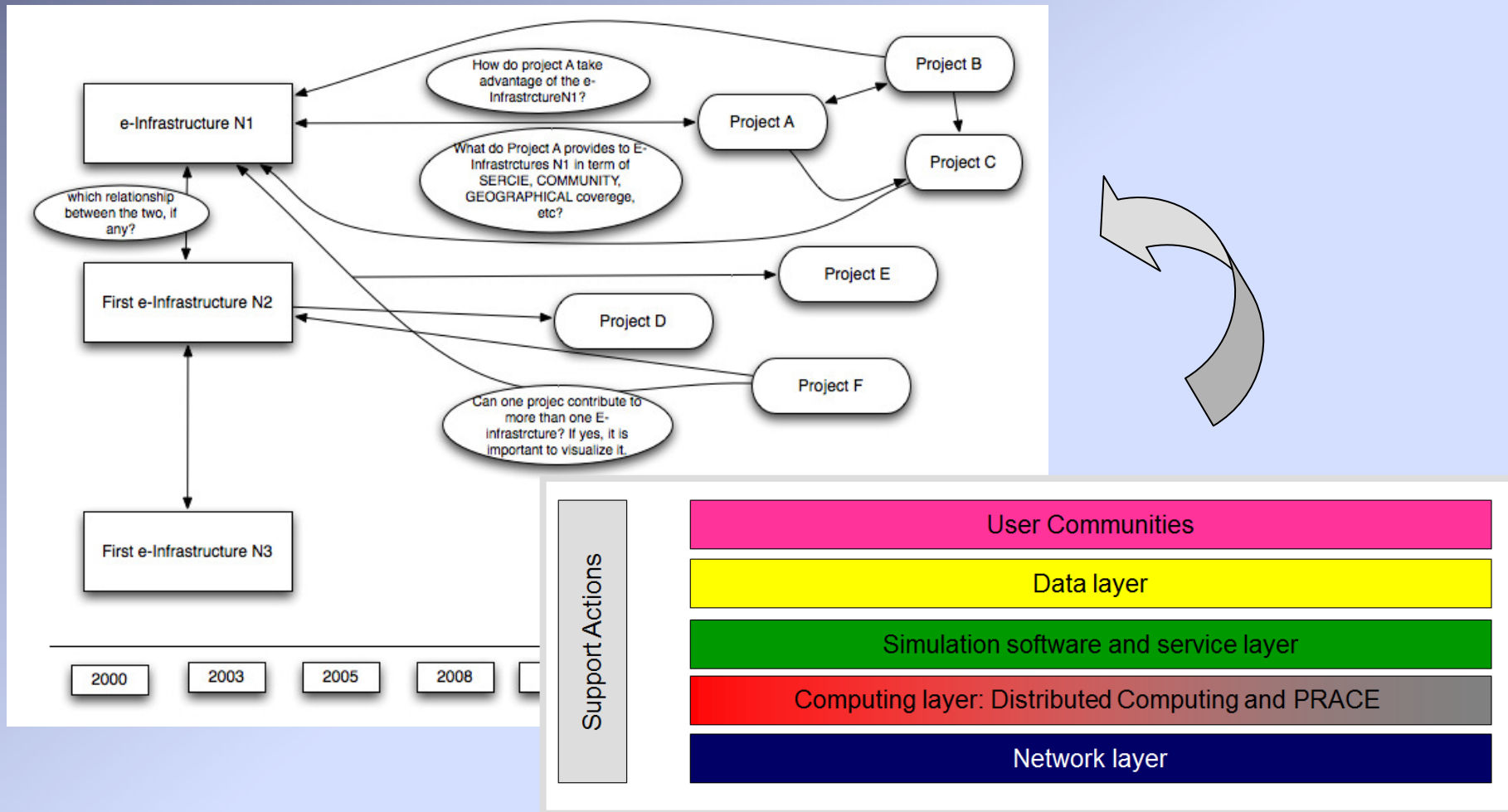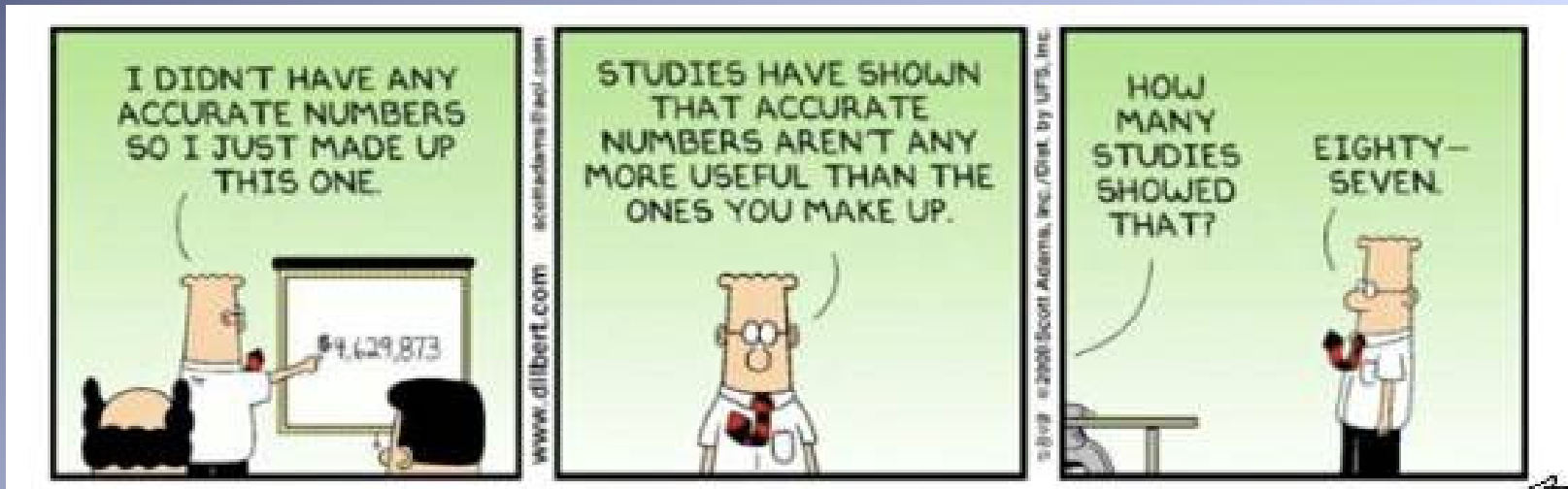
E-Infrastructures network(s)
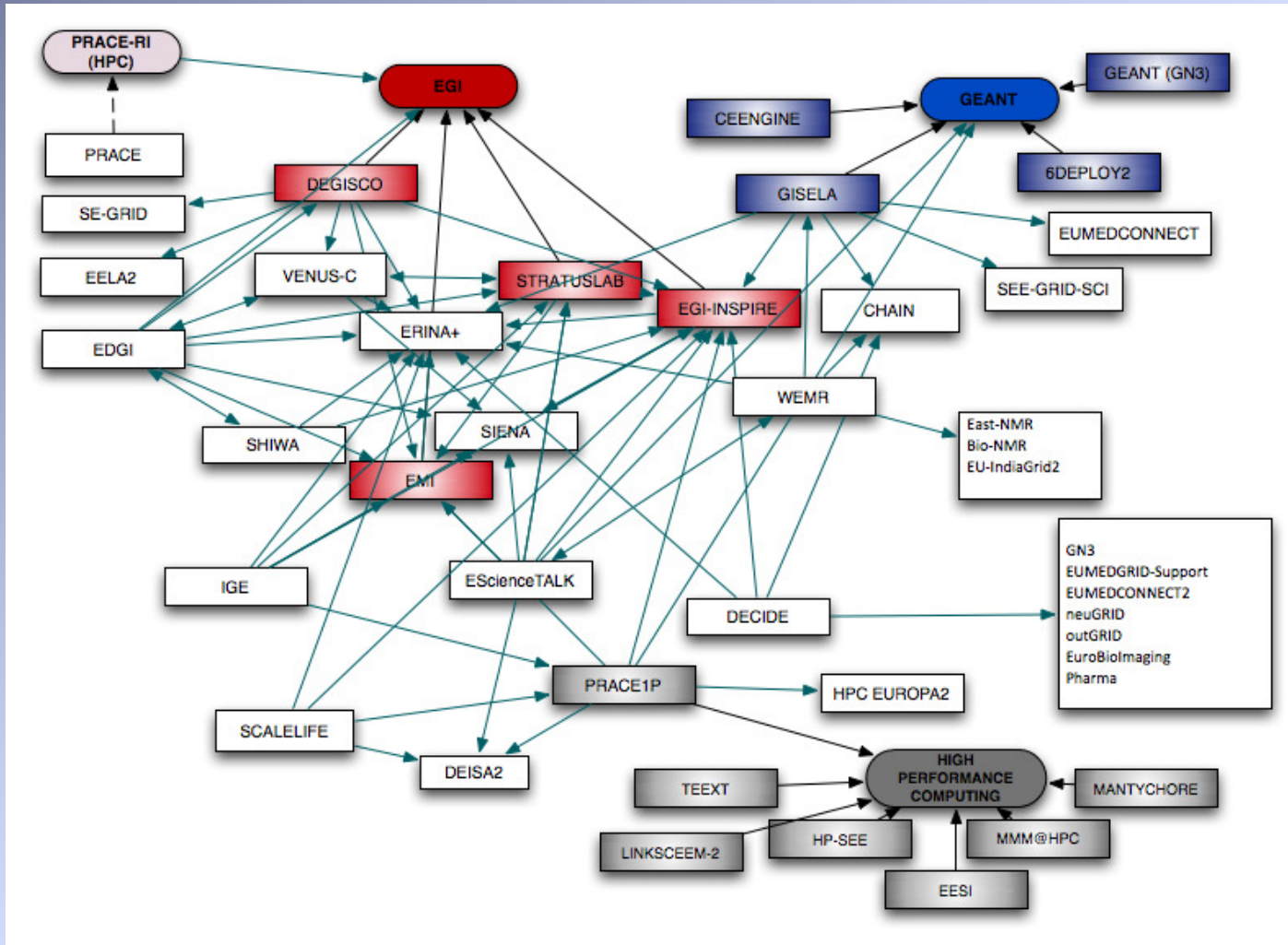
Impact on ERA

- Understanding impact by
  - Analysing data collected from other blocks using Social Networks Analysis (SNA), no genuine data collection
  - Visualizing synergies
  - Quantifying network characteristics (using SNA indices, i.e. density, centrality, etc)

Impact Assessment landscape

Project Self-assessment Tool

Perceived efficiency
Effectiveness

Stakeholders
(including users)

eNventory

Sharing data

ERINA+ DB

Efficiency
offered vs. perceived Program Managers
Effectiveness:
•Competitiveness & Excellence of research
•Innovativeness of research & transfer outside the domain
•Cohesion

Offered efficiency
Contribution to effectiveness

Cost proxies

eInfrastructures Indicators

e-Infrastructures assessment dashboard

Project Managers

eFisca/OSIRIS(RIFIl
Brussels, 20.2.2012

RI-Impact

RI-Impact Dissemination Workshop

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Thank you for your attention!

www.erinaplus.eu

info@erinaplus.eu