http://www.remics.eu/

Leire Orue-Echevarria Arrieta
Leire.Orue-Echevarria@tecnalia.com
TECNALIA
Technology Migration

Old systems not appealing or problematic
Moving as-it-is?
Objective

Objective: to develop advanced model-driven methodology and tools for REuse and Migration of legacy applications to Interoperable Cloud Services.

- Start: 09/2010
- Finish: 08/2013
Barriers for Migration

- ROI and payback.
- Not Every day’s work.
- Expertise not inside.
- Providers lock in.

Organisational
- Requirements in legacy
- New requirements appear

Requirements
- Different procedures
- Demanding provisioning
- New withdrawal procedures
- Dependency management

Cloud Challenges
- Lack of SOA support
- Lack of support of SaaS
- Multiple GUI
- Lack of SaaS validation
- Lack of MD(r)E support

Procedures
- Architecture changes
- Not “one size fits all”
- Unpredictable performance

Architectural
Barriers for Migration

Methodology

Organisational

requirements

Cloud

Challenges

Architectural

Technological

Procedures

Tools

• Different procedures
• Demanding provisioning
• New withdrawal procedures
• Dependency management
• Architecture changes
• Not “one size fits all”
• Unpredictable performance

• Lack of SOA support
• Lack of support of SaaS
• Multiple GUI
• Lack of SaaS validation
• Lack of MD(r)E support

• Requirements in legacy
• New requirements appear
• Complex interconnections
• Overlapping systems
• Requirements for the cloud
Methodology

- Agile
- Tool supported

Modernization
Sprint [1..n]

Initiation → Requir → Exploitation → Withdrawal

Supervision

http://methodology.remics.eu/
Tools

- Supporting the methodology
- Interoperable among them based on standards
Achievements

- Tool supported agile migration methodology
  - http://methodology.remics.eu/

- Enhanced tools for recovery, migration, interoperability and testing

- 4 successful case studies (Tourism, banking, science, management)

- More than 50 dissemination actions
Relevant Standard Contributed

- Cloud Modelling
  - CloudML (for automation) & PIM4Cloud (for developers)
- Recovery
  - KDM
- Testing
  - UML Testing profile & Software Metrics Metamodel (SMM)
- Models@Runtime
  - FUML
- Methodology
  - ESSENCE
Future plans

- Technical ->
  - Improve the feasibility analysis
  - Consider the application architectural implications of moving to the cloud
  - Support the business model and organizational process migration

- Mature the outcomes and jointly face the following target groups
  - Legacy system owners
  - Tool providers
  - IT consultancy professionals