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Technology Migration

Old systems not appealing or problematic



Moving as-it-is?



Objective

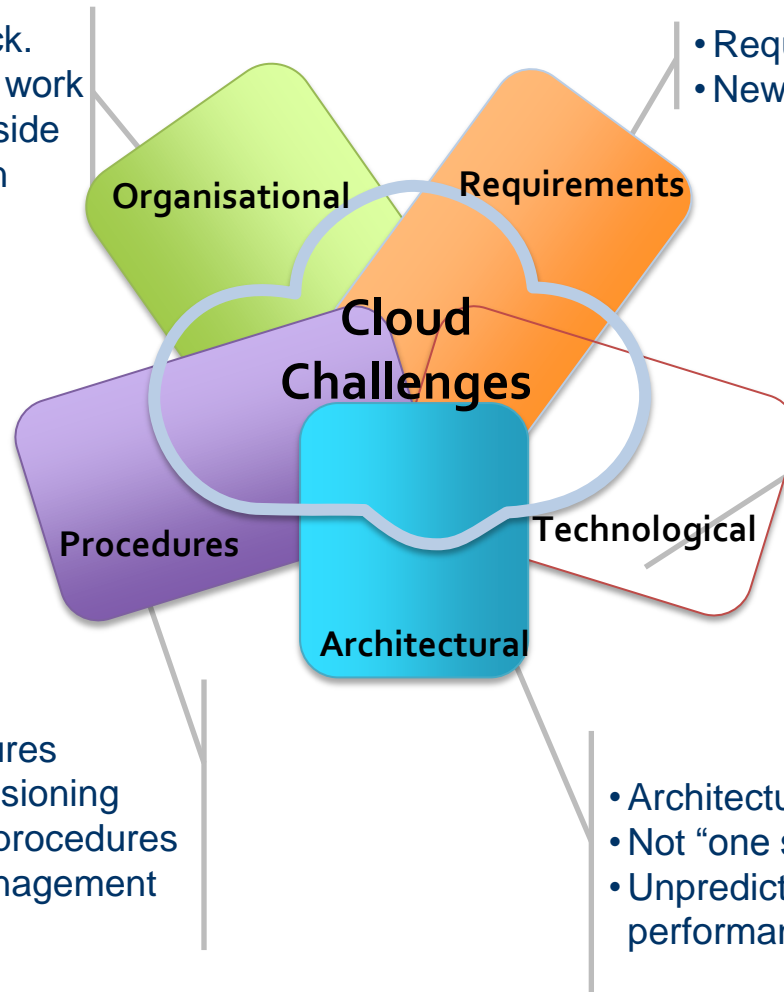
Objective: to develop advanced model-driven methodology and tools for REuse and Migration of legacy applications to Interoperable Cloud Services.

- Start: 09/2010
- Finish: 08/2013



Barriers for Migration

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



- Requirements in legacy
- New requirements appear

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

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

- Architecture changes
- Not "one size fits all"
- Unpredictable performance

Barriers for Migration

Methodology

- ROI and payback.
- Existing data volume
- Existing infrastructure
- Power and cooling

- Requirements in legacy
- New requirements appear

Organisational Requirements



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

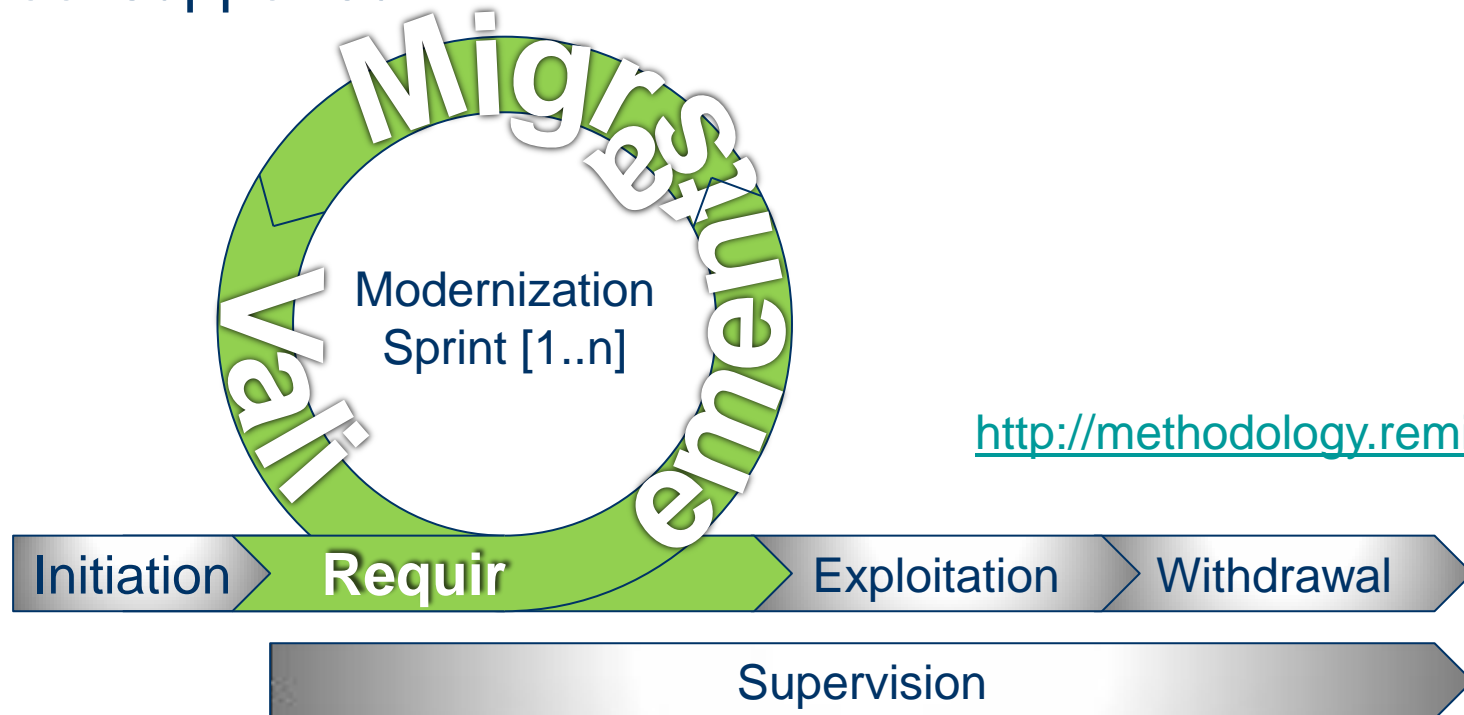
- Different procedures
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Tools

Methodology

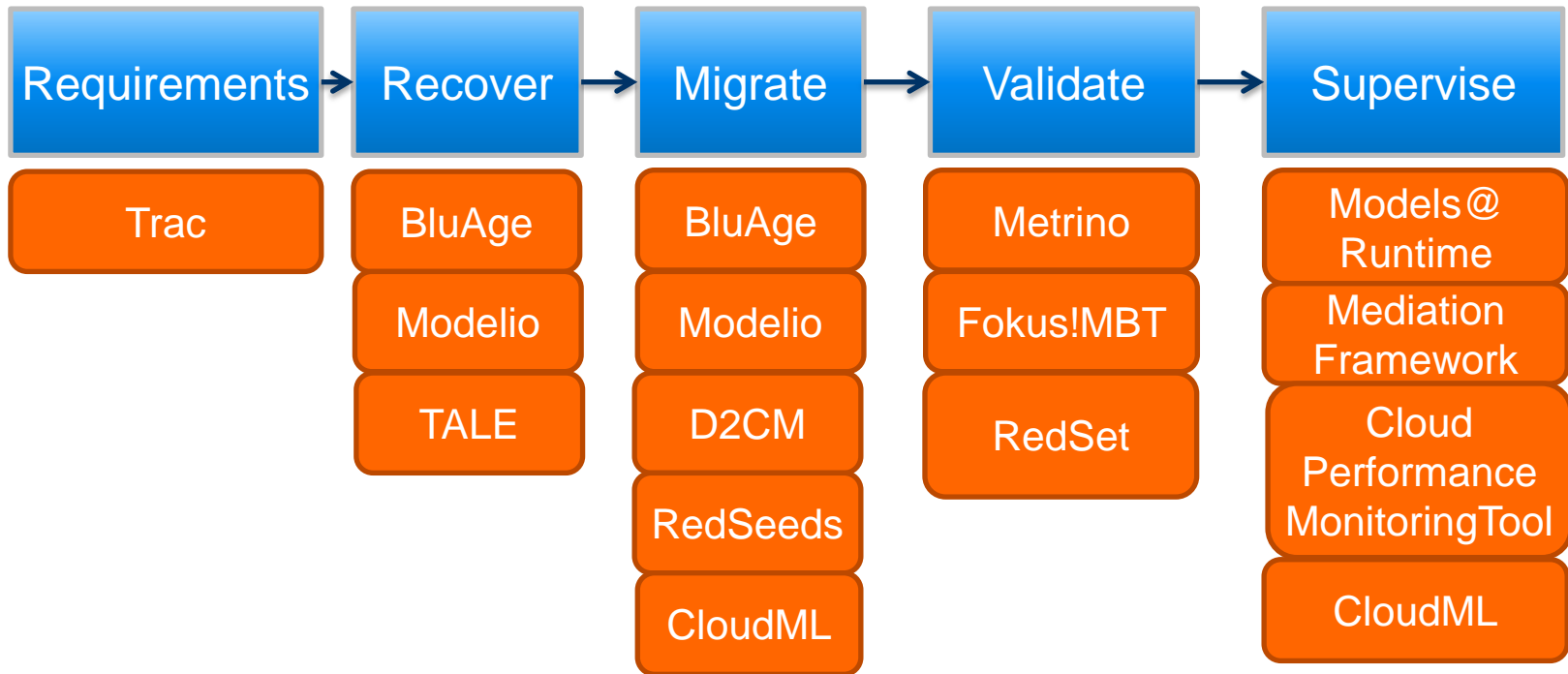
- Agile
- Tool supported



<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