

*Horizon 2020*  
**Brokerage Event**  
on the  
2016-topics of Software & Cloud



**Participant presentation  
session**



# Rmod team



## University Lille 1 - Inria

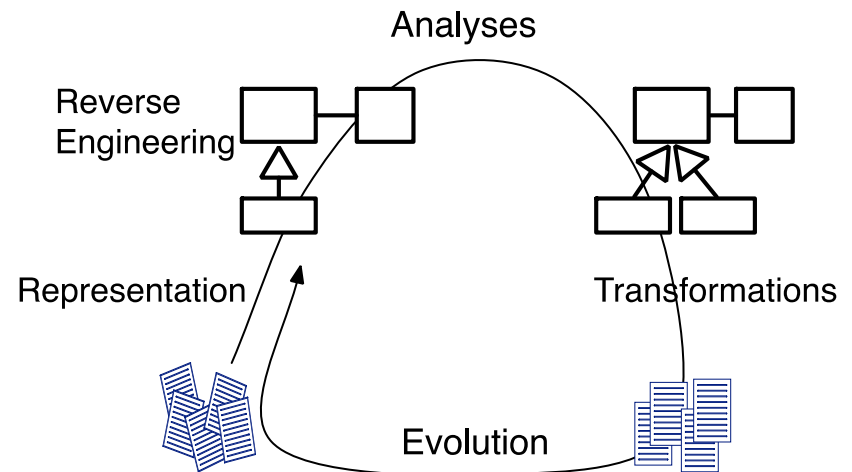
- **Research team famous in the world for its work on:**
  - dynamic languages, language design, reflective programming, security, Smalltalk, Pharo, software evolution, reengineering, software analysis, program visualization, meta modeling, Moose.
- **Expertise 1: Software evolution**
  - How to maintain/evolve large software systems?
- **Expertise 2: Dynamic languages for eternal systems**
  - Revisiting fundamental aspects of OO languages



# Software evolution



- **Keywords:**
  - code analysis, metamodeling, software metrics, program understanding, program visualization, evolution analysis, refactorings, legacy code, quality, ...
- **Current focus**
  - Remodularization analyses (Thales Air Systems, Siemens), Language migration, Rule and bug assessment, Towards semantic merge
- **Collaborations**
  - Soft-VUB (Belgium), Pleiad (Chile) UFMG (Brazil), SCG (Swiss), LIRMM
- **Identified Call**
  - ICT-10: Software technologies





# Dynamic languages for eternal system



- **Keywords:**
  - Reflective Programming, Hot update, Cloud
- **Current focus**
  - First class slots, Remote Debugging, Rethinking metaobjects and their control
- **Collaborations**
  - Soft-VUB (Belgium), Pleiad (Chile), Ecole des Mines de Douai
- **Identified Call**
  - ICT-10: Software technologies
  - ICT-3: SSI – Smart System Integration