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

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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

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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