AGODIP-KS: AGile Ontology-based DIgital Platform for Knowledge Sustainability

ICT Challenge 4: Technologies for Digital Content and Languages
Objective ICT-2011.4.3: Digital Preservation

Target outcomes a)
More reliable and secure preservation technologies and methods
STREP Schema – 36 months

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SKILLS OF THE PROPOSER

• Long Term Knowledge Retention (LTKR)
  - Knowledge conceptualization and sharing
  - Ontology engineering: mapping, merging, etc.
  - Digital preservation platforms
  - Interoperability of preservation platforms
  - Long Term Knowledge Retention

• Model-driven engineering for sustainable IT
  - Agile IT development
  - BPM and SOA engineering frameworks
  - Information system alignment and IT change management

• IT Project Management in industry

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PROJECT IDEA

- **Topic:**
  - agile platform for sustainable knowledge preservation

- **Type of Project:**
  - *Objective ICT-2011.4.3: Digital Preservation - Target outcomes a)*

- **Project challenges**
  - Propose models for digital container
  - Estimate the cost of the preservation process throughout the container lifecycle
  - Propose and develop preservation architecture to ensure the reliability and the security of the LTKR
  - Define a multi-scale modeling for the scalability of the preservation system
  - Deploy industrial case studies

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PROJECT WORK PLAN

- Knowledge specification
  - Identification, structuring (ontological models), classification

- Knowledge preservation costing
  - Preservation strategy and enterprise capabilities

- Knowledge Integration
  - Ingest typologies, models

- Digital archiving
  - Platform, mutation capabilities, scalability, support adaptability, Security

- Knowledge reuse
  - Query based

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WANTED

- Competences & Skills wanted
  - Knowledge design experience
  - Industrial data
- Types of partners sought
  - Industrial
- Work to be performed – cases studies
  - Analyze the long term perspective of knowledge retention
  - Share competences in digital preservation design
  - Deploy case studies
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