Prueba de Evaluación de Suficiencia Investigadora para el Diploma de Estudios Avanzados

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- Now:
  - PhD Year 1: Cources Summary and Research
  - PhD Year 2: Research

- Future work

Currículum Vitae (I)

- **2001-2006, Master of Science in "Software Engineering and Databases" / "Geoinformatics"**
  (Gdansk University of Technology)

  - "Usage of Semantic Web Mechanisms for Supporting Web Services Composition in e-Learning Solutions"

  - Publications:

    - Discursive Context-Aware Knowledge and Learning Management Systems. In Ubiquitous and Pervasive Knowledge and Learning Management: Semantics, Social Networking and New Media to Their Full Potential, 2007.[C. O'Nualláin, A. Westerski, S. Ryszard Kruk]

    - E-learning based on the Social Semantic Information Sources. 1st Latin American conference on Learning Objects, Guayaquil, 2006. [A. Westerski, S. Kruk, Ryszard, K. Samp, T. Woroniecki, F. Czaja and C. O'Nuallain]

Currículum Vitae (II)

- 2006-2008, Researcher / Research Assistant
  (Digital Enterprise Research Institure)

  - **Semantic** Digital Libraries
  - **Semantic** Overlay Networks (Semantic Web based P2P)
  - Appliances of **Semantic** Web in e-Learning
  - Large Scale Processing for **Semantic** Web
  - User Interfaces for **Semantic** Web Applications
  - Publications:
    - …

- 2008- …, Programa de Doctorado de Ingeniería de Sistemas Telemáticos
  (Universidad Politecnica de Madrid)

PhD Year 1: Courses Summary

- Seminario de Investigación

- Metodología y Documentación Científica

- Aplicaciones y Servicios Avanzados Internet
  - ”Semantic Web evolution: towards the usability of data”
  - "The Two Cultures"

- Tecnologías Lingüísticas y Aplicaciones en la Web
  - "Sentiment Analysis: Introduction and State of the Art overview"

- Temas Avanzados de Ingeniería de Servicios Telemáticos
  - "Metodología de desarrollo ágil para sistemas móviles"

- Metodologias y Arquitecturas Orientadas a Objetos para Sistemas Telematicos
  - "Overview of Cloud Computing large-scale processing technologies"

- Agentes Inteligentes.
  - "Dynamic FAQ systems"

PhD Year 1: Research

Topic: Information Aggregation with Semantic Web technologies and mashups environments

Context: Romulus project

Achievements:

- SEAP
  - Software Development Kit (SDK) to create of services that aggregate data of the Web
- Mashup environments integration
  - Research on user interfaces and integration graphical mashup design environments
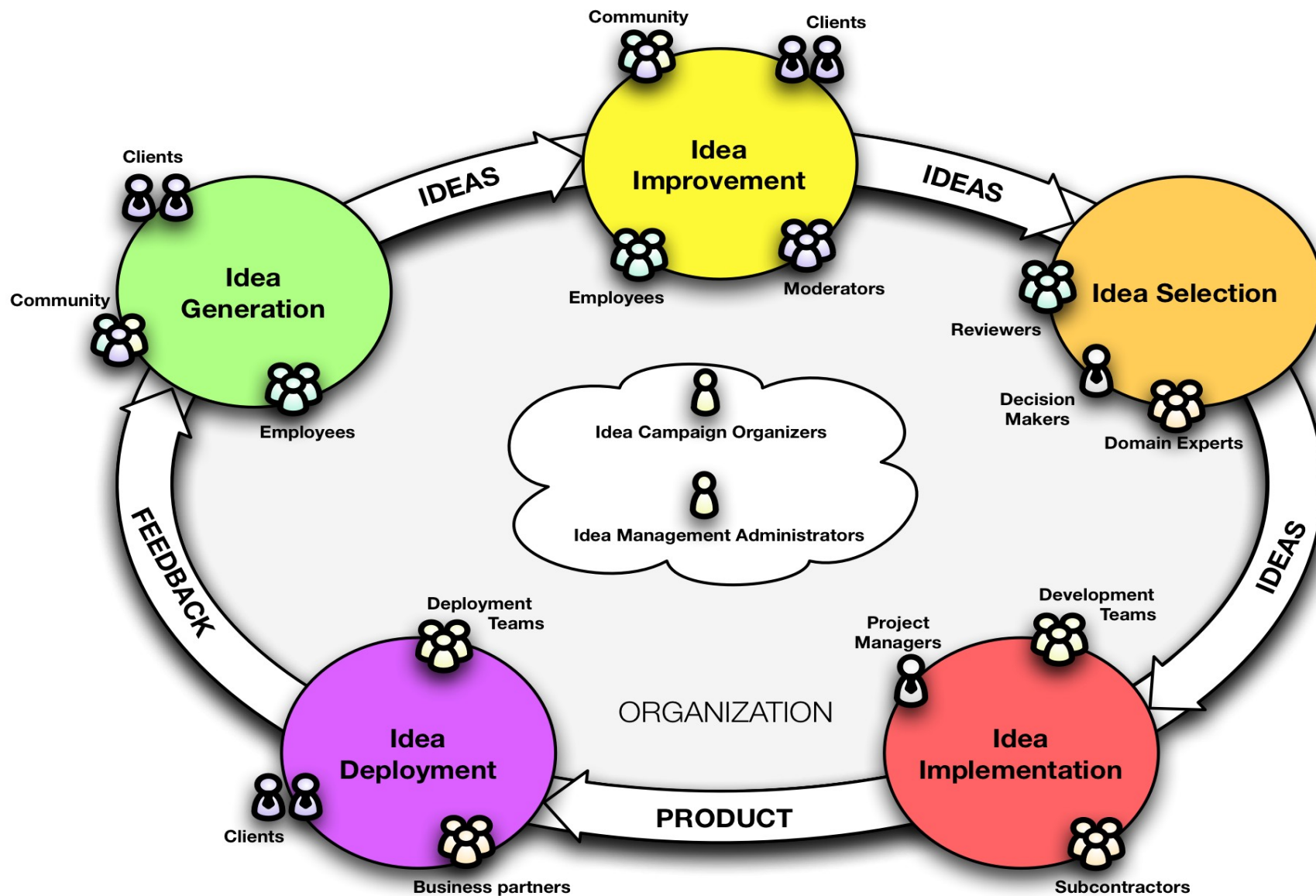
Publications

- Integrated Environment for Visual Data-level Mashup Development. In Proceedings of 10th International Conference on Web Information Systems Engineering (WISE2009), Poznan, Poland, 2009. [A. Westerski]

- ROMULUS: Domain Driven Design and Mashup Oriented Development based on Open Source Java Metaframework for Pragmatic, Reliable and Secure Web Development. 14th European Conference on Software Maintenance and Reengineering (CMSR10). Madrid, Spain. March 2010. [Boni García, Juan C. Dueñas, Jose I. Fernández-Villamor, Adam Westerski, Mercedes Garijo, Carlos A. Iglesias.]
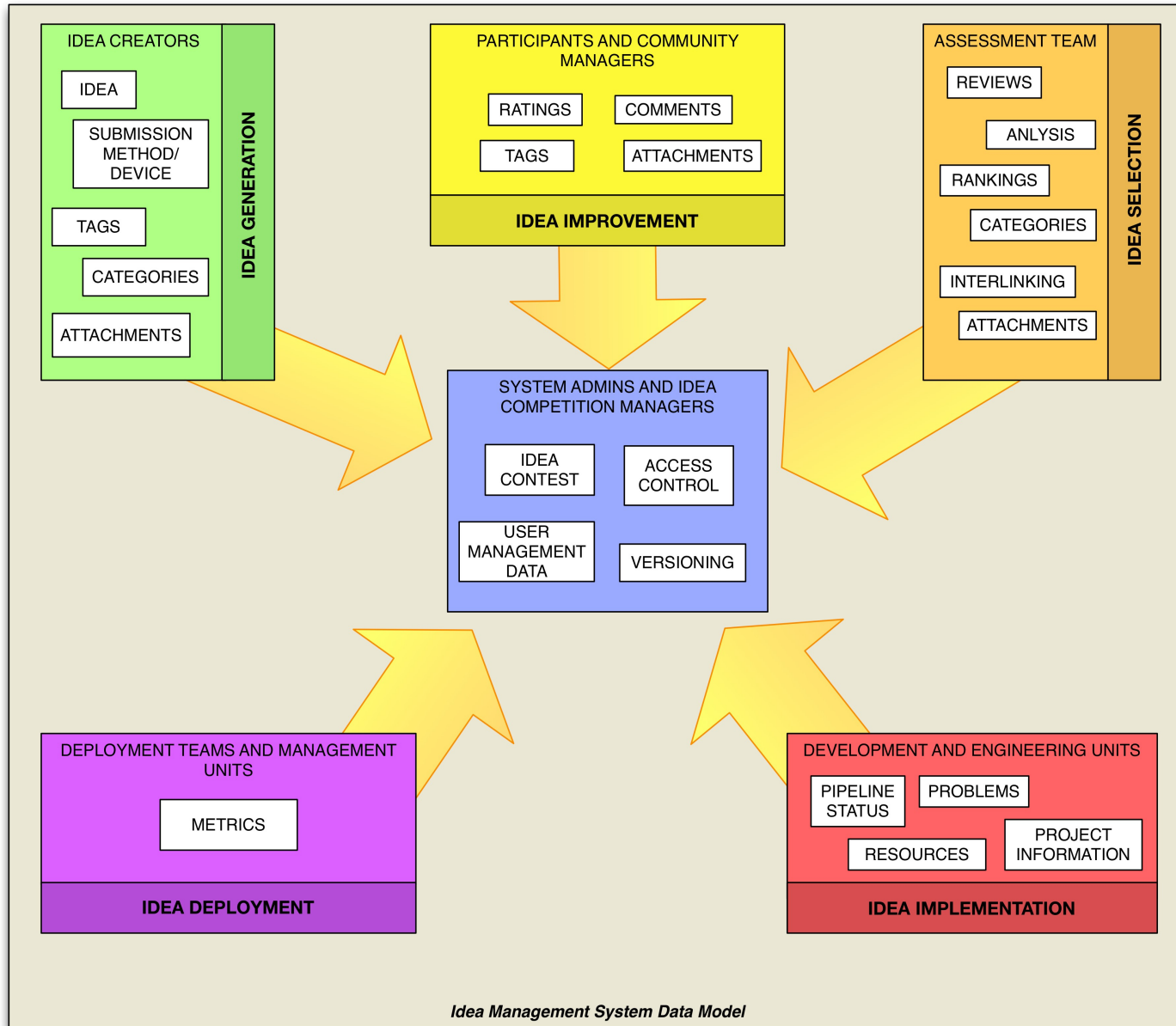
Phd Year 2: Research

- **Problem:** "how to apply Semantic Web and make it useful ?"
- **Area:** Idea Management and Innovation Management
- **Goal:** Improve processing of large amount of data and assessment [short: Knowledge Management]

- **Context:**
  - Resulta Project (improving consultancy businesses)
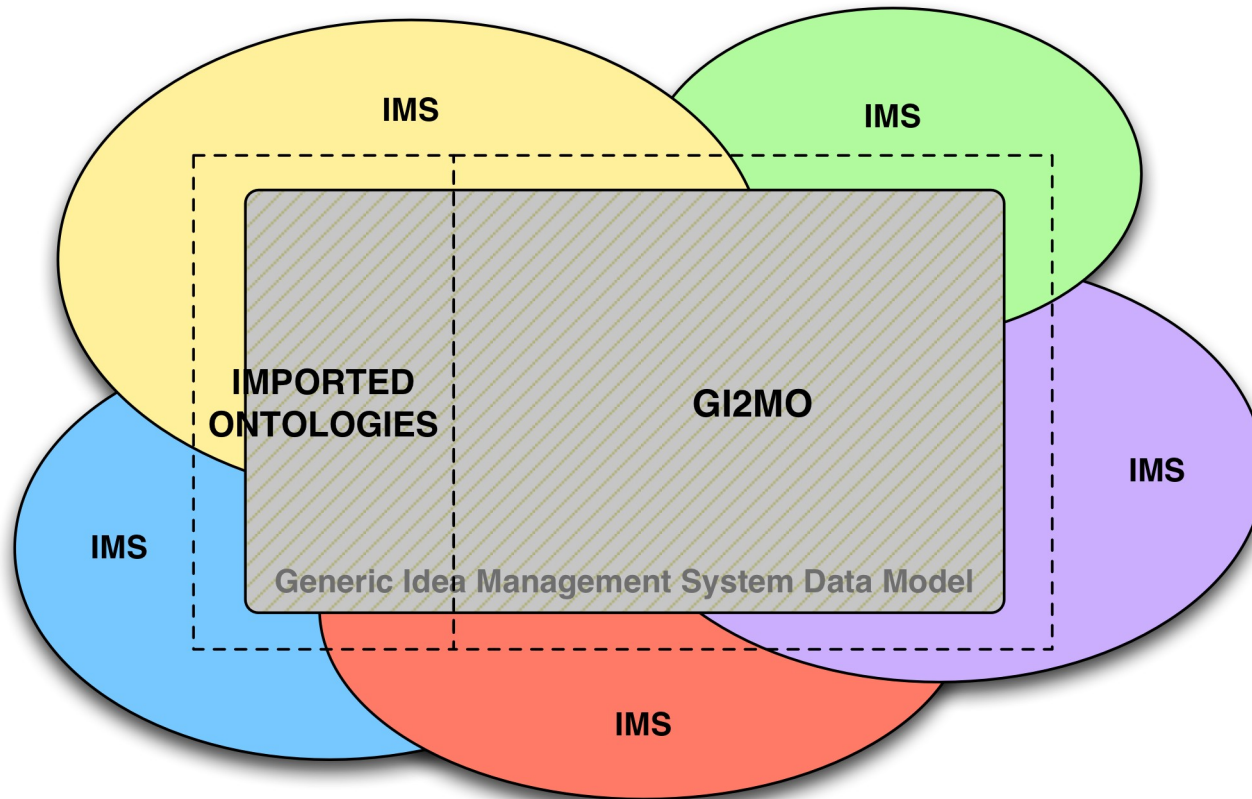 - Cooperation with ATOS Origin
  - ...

Idea Life Cycle

Idea Management Data Model

Idea Management System Data Model

GI2MO Project!

Generic Idea and Innovation Management Ontology

What is GI2MO?

- Idea Life Cycle Definition

- Generic Idea Management Data Model

- Ontology to cover Idea Mangement Data Model

- Semantic Data Modelling Methodology

- Implementations, processes, applications, appliences of Semantic Web techniques for knowledge management

Data Interlinking + standarized naming and processing

How GI2MO helps?

- System Integration

- Discovery of New Information

- Management of Data Stored in Idea Management Facilities

- Improvement of Idea Assessment and Selection

Results so far

- Ontology created and published online [www.gi2mo.org]

- Ontology evaluation against live systems

- RDF based Idea browser

- Idea Management facility for ETSIT [ETSITIdeas]

- Papers (awaiting revews):

  - Idea Life Cycle Definition [journal]

    "A Classification Scheme and Life Cycle Survey of Idea Management Systems"

  - Idea Ontology [conference]

    "A Model for Integration and Interlinking of Idea Management Systems"

Thank you for attention!