

General Information

- - 16 researchers: 12 PhDs, 4 PhD Students
 - More than 20 years of experience in research
 - Research in software engineering, databases, information systems, service engineering.
 - Publications in the most relevant journals and conferences
 - Internationally recognized research group
 - Grup de Recerca Consolidat de la Generalitat de Catalunya
 - Funded mainly by the Ministerio de Ciencia e Innovación (Spanish Ministry of Science and Innovation)





- Conceptual modeling of information systems
 - Appropriate definition of the conceptual schema (Ontology)
 - Conceptual modeling by means of ontologies
- Conceptual modeling for specific domains
 - Improving the usability of HL7 information models by automatic filtering
 - Conceptual modeling of services
- Test-driven development of conceptual schemas



Main Research Lines (II)



- Validation of conceptual schemas (Semantic Reasoning)
 - Validation of relational database schemas
 - Validation of UML schemas
 - Validation of mappings between data schemas
- Data Warehousing (Business Intelligence)
 - Requirement-Driven Generation of ETL and Multidimensional Conceptual Designs
 - Mappings between RDB schemas and semantic web ontologies
- · Information Integration



International Collaborations



Europe

- Dr. Diego Calvanese (Free University of Bolzano, Italy)
- Dr. Patrick Marcel (Université Tours, France)
- Dr. Paolo Atzeni (Universita' di Roma Tre, Italy)
- Dr. Stefano Ceri (Politecnico di Milano, Italy)
- Dr. Gianni Mecca (Univ. della Basilicata, Italy)

North America

- Dr. Veda Storey (Georgia State University, USA)
- Dr. Alkis Simitsis (HP Labs, USA)
- Dr. Phil Bernstein (Microsoft Research, USA)



Industrial R&D Relationships



- VICO Consulting
- Tenea Tecnologías
- ISOCO
- Microsoft Ibérica and Microsoft Research

