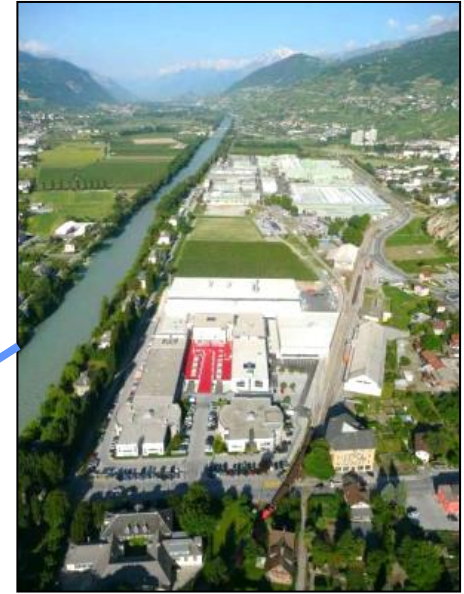


# HES-SO Valais/Wallis – Institute of Information Systems

- **80 staff members**

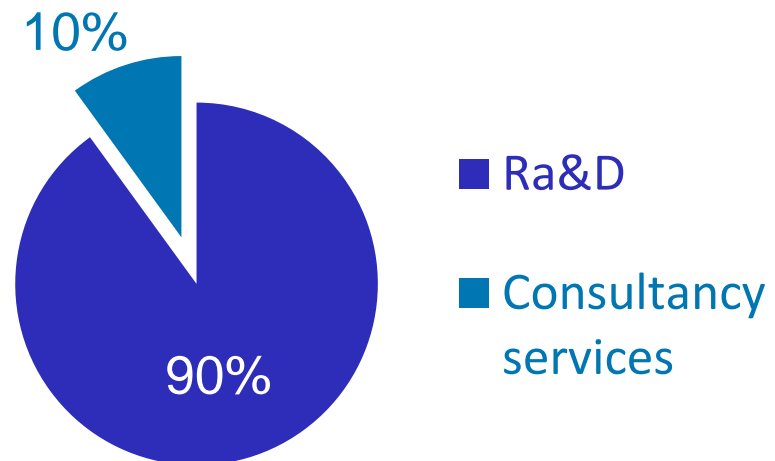
- 21 Professors
- 19 Research scientists
- 31 Research assistants
- 9 Administrative collaborators and interns



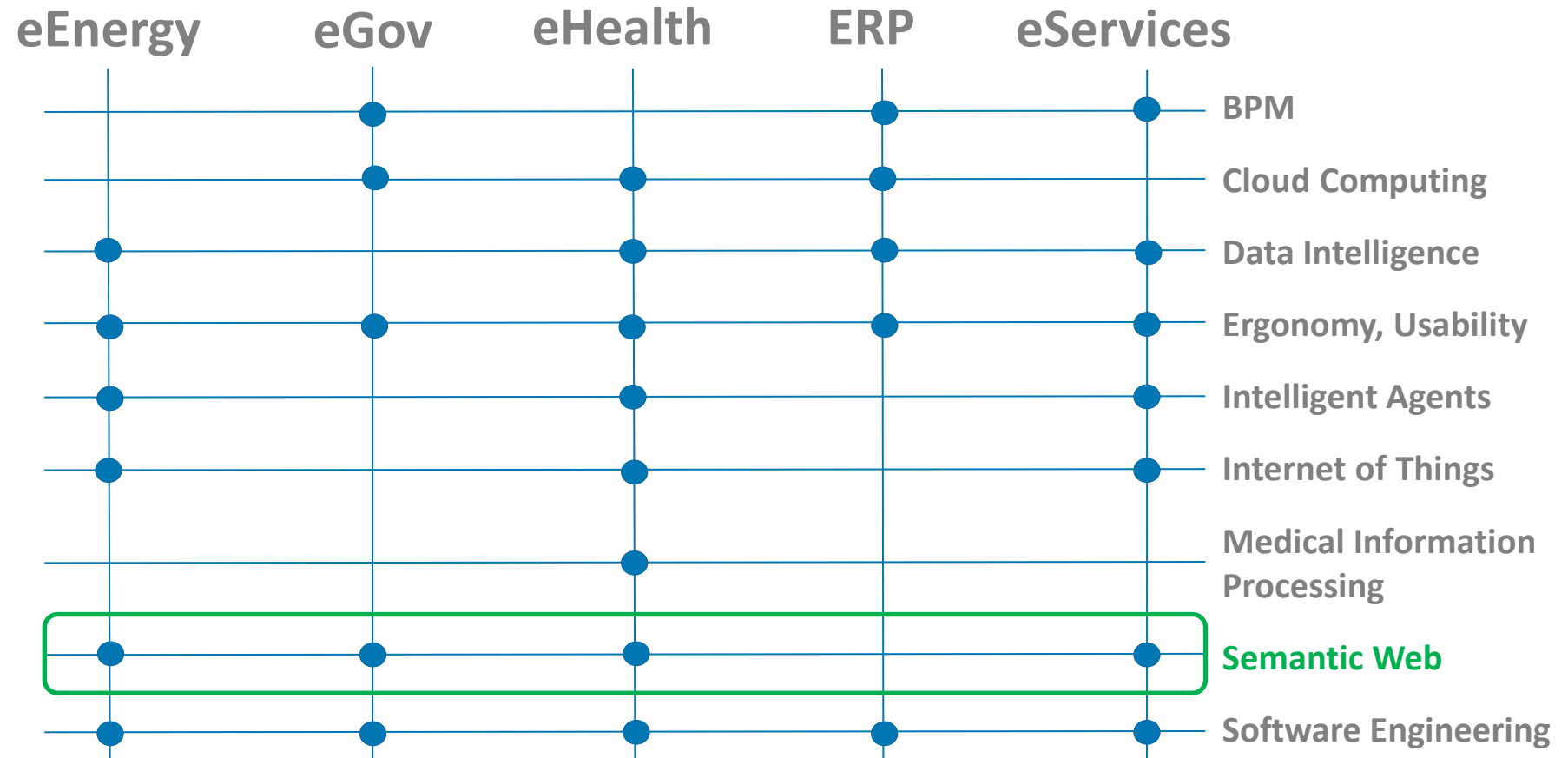
- **105 scientific publications**

- **307 projects (2015)**

- **CHF 8,1 millions (Turnover in 2015)**



# IIG CORE COMPETENCIES ([website](#))



# Data Semantics Lab ([website](#))



- Specialized in: Semantic Computing, Information Extraction, Knowledge Management, Natural Language Processing (NLP), Data Visualization, Business process modeling, Mobile technologies
- Research in Semantic Web/Linked Data/Web of Data **since 2003** ([list of projects](#)):
  - **ontology design** (RDFs, SKOS, OWL)
  - **multilingual ontology generation** from wikipedia
  - use of **existing ontologies** and data sources as Wordnet, DBpedia, BabelNet, Wikipedia, Wiktionary, Wikidata, Geonames, schema.org, etc.
  - **RDFization of structured data** (CSV, RDBMs, etc.) using existing tools and creating specific scripts (XSLT, etc.)
  - **RDFization of unstructured data** based on NLP technologies to link texts to concepts of an ontology, some basic algorithm for disambiguation (as well as commercial tools as Babelify)
  - **Triple store management** (Jena, OWLIM-GraphDB, Oracle Semantics, Marmotta, etc.)
  - **SPARQL querying** over RDF and non-RDF data sources (RDBMs, MongoDB, etc.)
  - **Semantic tagging**
  - **Semantic search**
  - **Linked Open Data** (and ontology) publication
  - **Data visualization**
  - Web of Data and **SEO**
  - **LOD data consumption** framework (based on Apache Marmotta)