Indrustry/Academic partnership: an experience at DAMA-UPC

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Expertise

- UPC, Technical University of Catalunya, Barcelona.

- Formed by 25 members, 3 professors (2 CS, 1 statistitian), 5 students (MSc/PhD), 12 developers (5 are doing MSc/PhD), 5 support students.

- Research/development topics:
  - **Graph Databases**: DEX: Large graphs, high performance. Optimization, performance, distributed, benchmarking… MICINN, ANCERT, ICO, Yahoo! Research.
  - **Relational DBMSs**: Query optimization, query execution, join, sort. IBM.
  - **Distributed question answering**: Search, placement, load balancing. Yahoo! Research.
  - **Stream processing**: Strategies to manage streamed data in an efficient way. IBM.
  - **Data anonymization**: How to preserve the data statistics without compromising the disclosure risk.

www.dama.upc.edu
Short history of DAMA-UPC related to industry

- Development of new technology for DB2
- Development of Record Linkage software for DB2
- Software that we commercialize
- Large Data volumes +100M nodes and links high performance
- TT to local industry
- Quality compliance
- Research on Industry needs

- IBM-CAS
- CANCER REGISTRY CATALONIA
- IBM-CAS + DEVPMIT
- DAURUM
- OTHER REGISTRIES
- HEALTH DEPT
- REGISTRARS SPAIN
- BIBEX
- YAHOO1 RESEARCH
- DEX
- INVESTMENT OF DAMA-UPC
- GRAPH DB
- LARGE DATA VOLUMES
- XARXA IT
Uniqueness

- Give support to IT industry, both from Catalunya and from abroad.
- Do research that is close to the Industry needs (CAS, Yahoo! Research, local companies)
- Any research project can become a UPC product.
- Preserve our Technology, IP, production software research.

- WIN-WIN deal!! The most important issue!!
More important aspects of collaboration

- Research: the purpose of CAS, Yahoo! Research.
- Recruitment: we have provided 1 PhD + ~10 people with a good knowledge of the technology of IBM to different companies in the market.
- Skills: our skills are interesting because we know the industry part plus the academic part. Skills remain in Spain (industry and University) or travel abroad (IBM).

- Public funds: when the company is local.
Questions

- Do you think that our relation with industry is adequate for a University?

- In a sense, we have a small company within our University, but we mainly provide technology. This is the purpose of Xarxa IT. Is this correct from your point of view?

- We are thinking to create a side company for the pure non-technology developments of DAMA-UPC. This poses a different model. Is this a model to follow?