



**DAMA-UPC. DATA MANAGEMENT**  
UNIVERSITAT POLITÈCNICA DE CATALUNYA



# **Industry/Academic partnership: an experience at DAMA-UPC**

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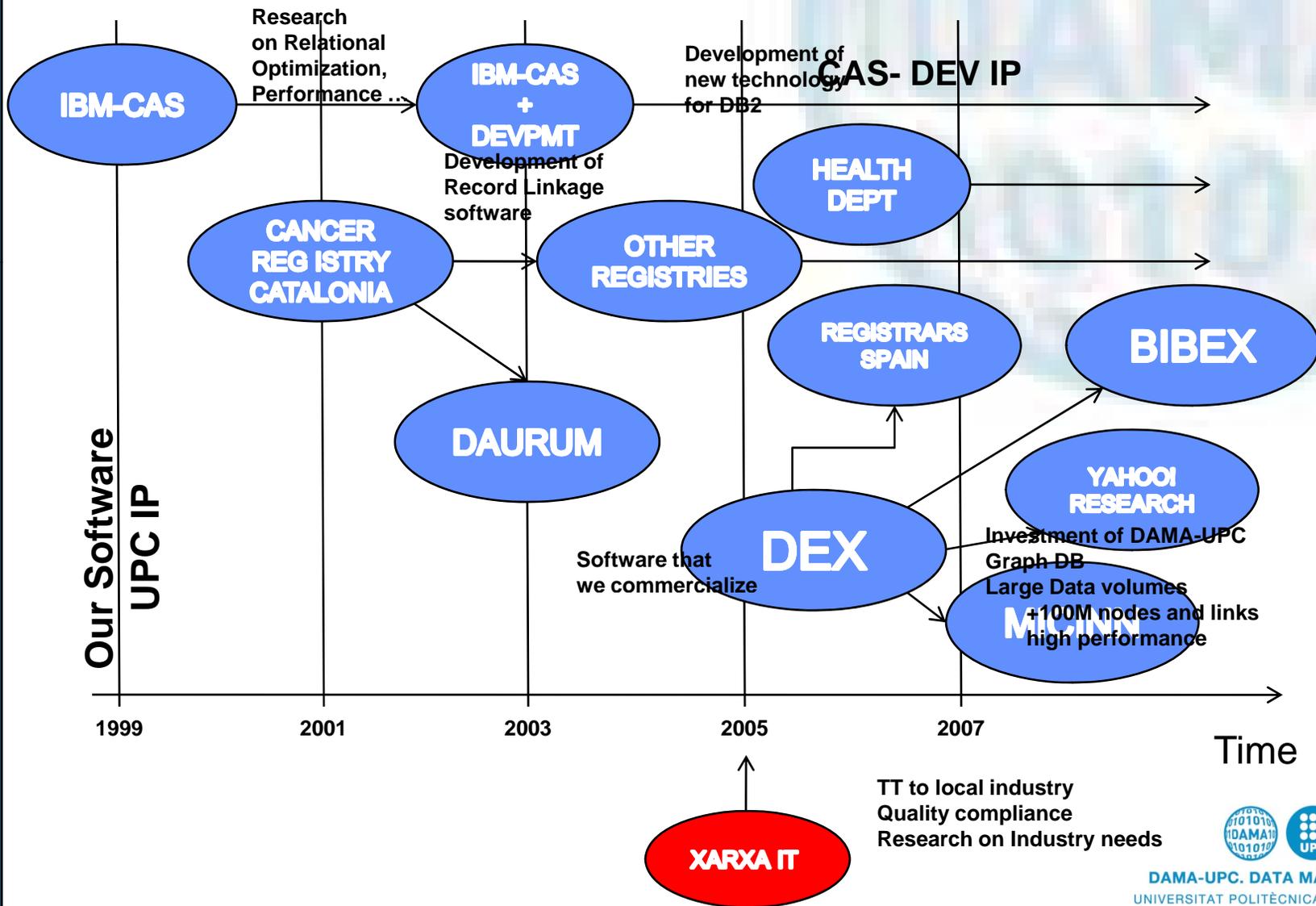
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# Expertise

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- UPC, Technical University of Catalunya, Barcelona.
- Formed by 25 members, 3 professors (2 CS, 1 statistician), 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.
  - **Record Linkage:** large data sets, performance. Cancer Regs, ACA, Aj. Sabadell, DAMM.

# Short history of DAMA-UPC related to industry



# Uniqueness

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- 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

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- 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

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- 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?

