

European Computer Science Summit 2007 (ECSS 2007) 8-9 October 2007, Berlin

**The University Computer Science research unit:
getting organized inside and outside.**

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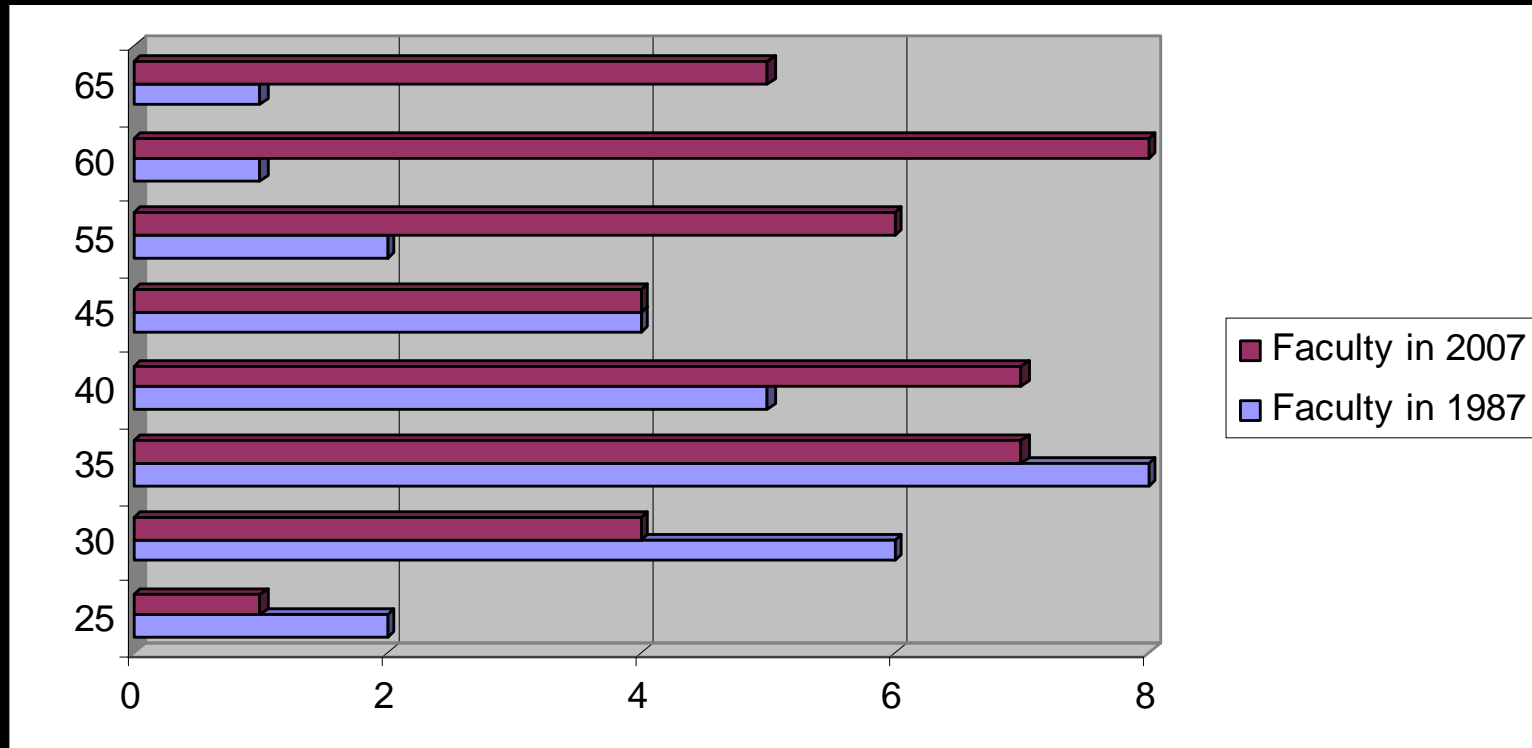


- Computer Science now a recognized science
- Our faculty demographics are stabilizing
- C.Sc. (research) unit must penetrate decision instances
- C.Sc. (research) unit must organize itself accordingly

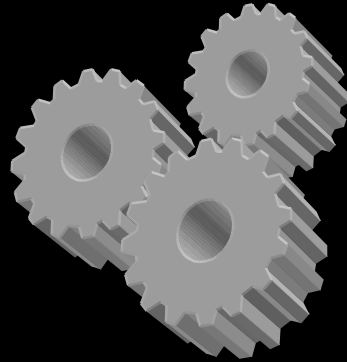
YES BUT :

- How much does that cost ?
- What is it worth for our colleagues ?

30-person Computer Science Unit: 20 years older



More full profs, need more technicians, more doctoral students, increased funding ?



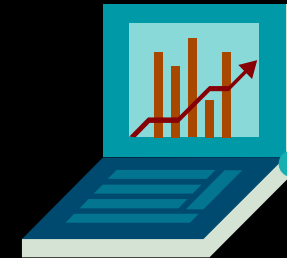
Research



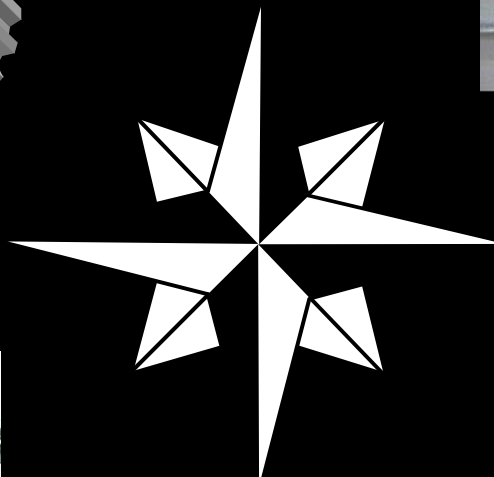
Teaching



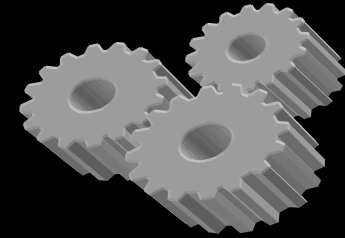
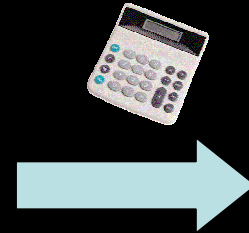
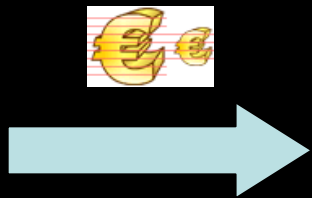
Buildings, floor space



External funding



What strategic choices ?



Organize the small unit like a large or private lab.
Balance cost of effort vs gain in resources

What is the cost / gain ?
Roughly: its salary cost

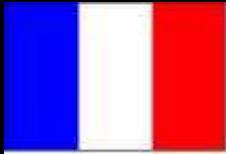


Who pays for our research ?

EC



Government



Funding agency



Regional gov't



Local gov't



City



Research institutions



The University



Regional cluster

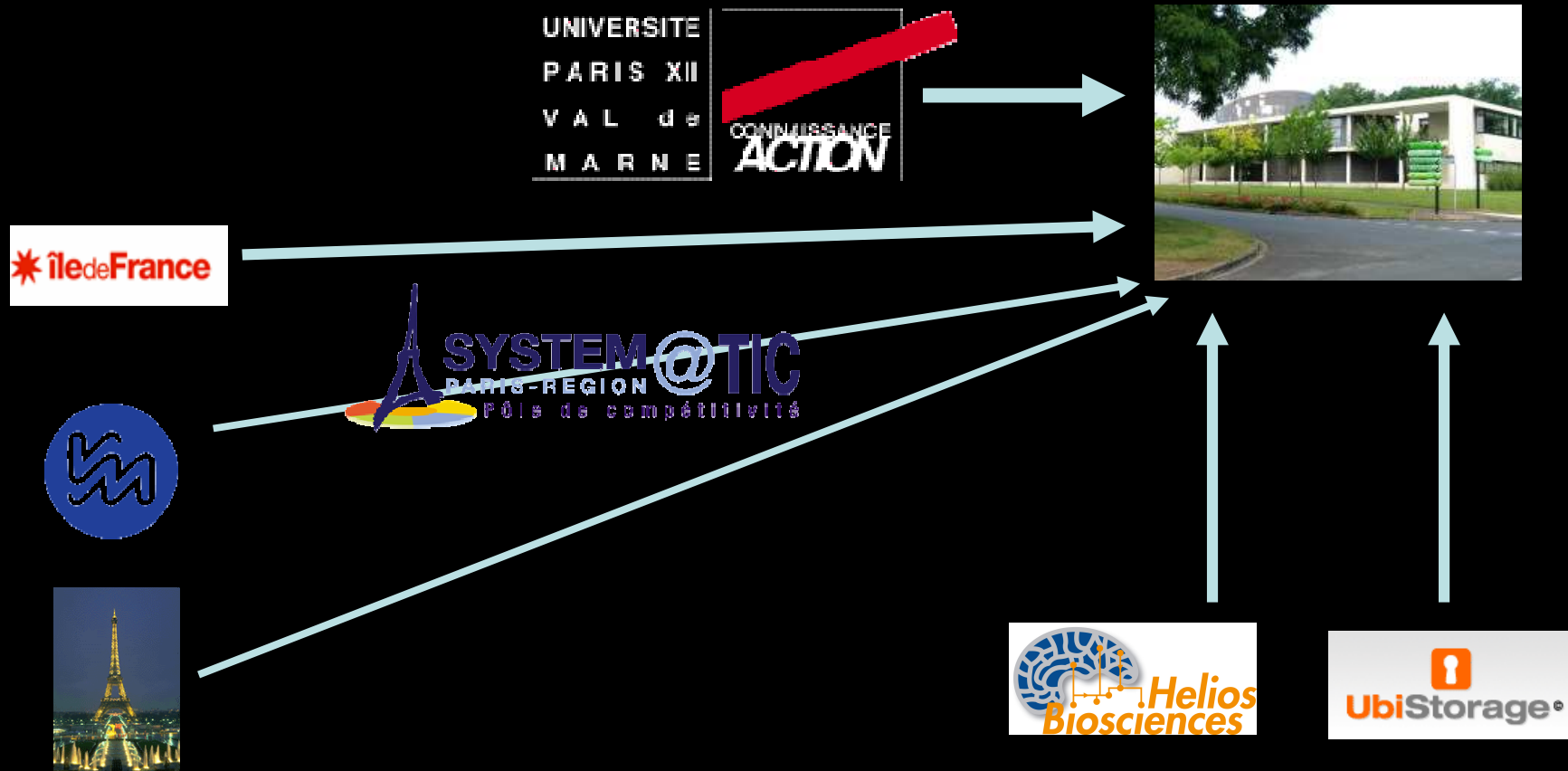


Partner companies



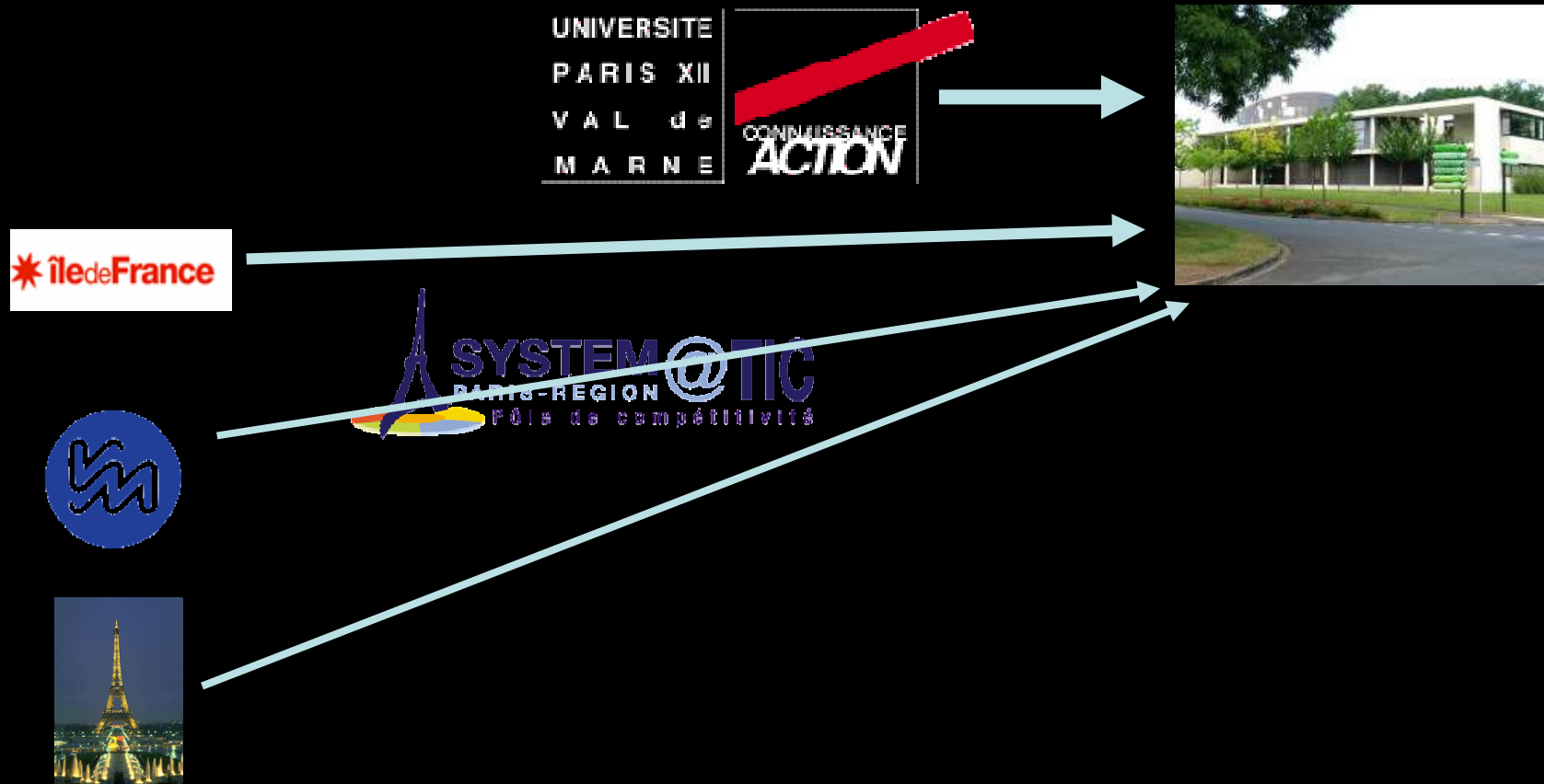
A lab “public relations” officer

- Organizes official publications
- Communicates with the local/national media
- Improves visibility with companies and local governments
- Interacts with the University P.R.
- Cost: 1 colleague-day / month << 10K€



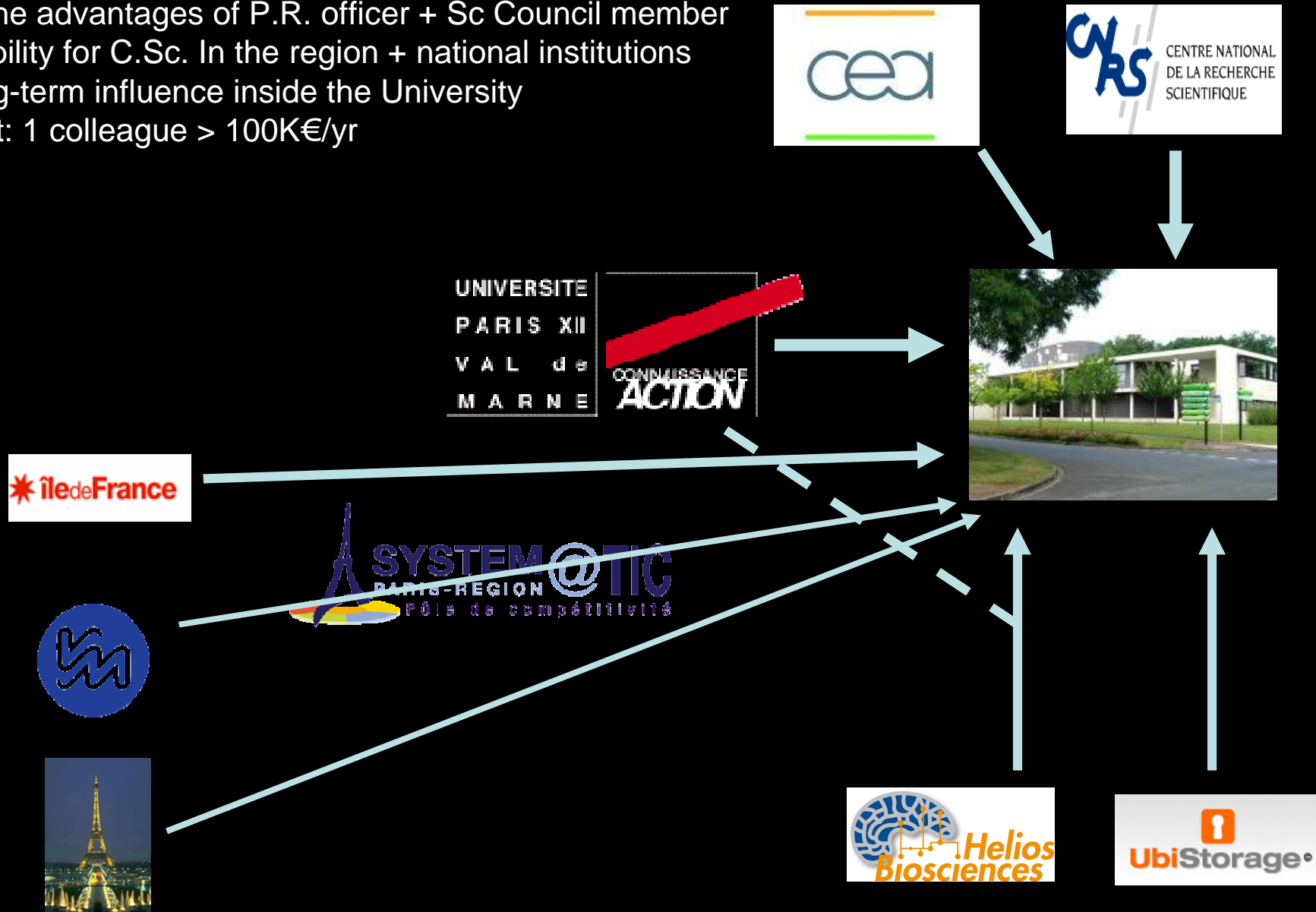
1 colleague on University Scientific board / board of directors

- Leverages all local applications for resources:
- New offices, new buildings
- New faculty positions
- Local gov't support for resources shared by several labs
- Cost: 2 colleague-days / month << 20K€/yr

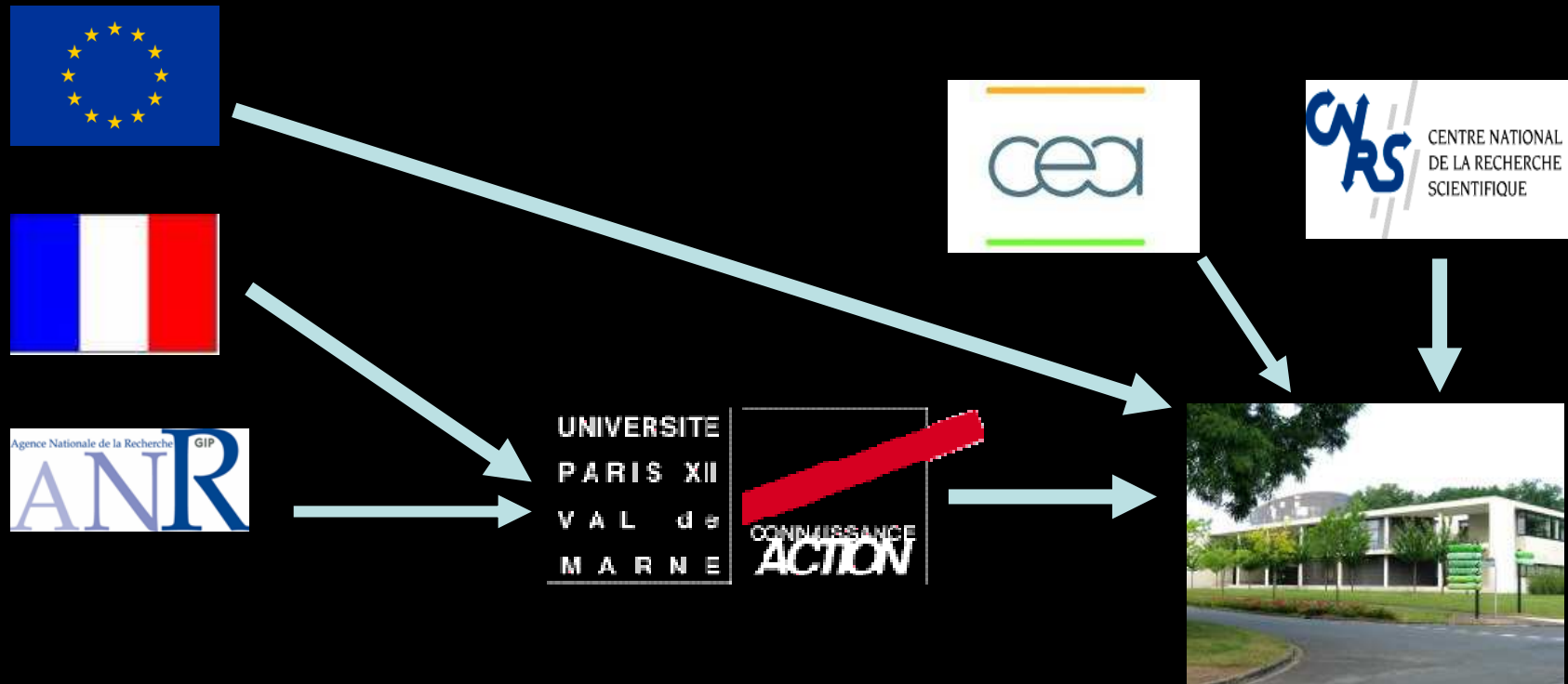


Computer Scientist becomes University President

- All the advantages of P.R. officer + Sc Council member
- Visibility for C.Sc. In the region + national institutions
- Long-term influence inside the University
- Cost: 1 colleague > 100K€/yr



Value of basic research ?



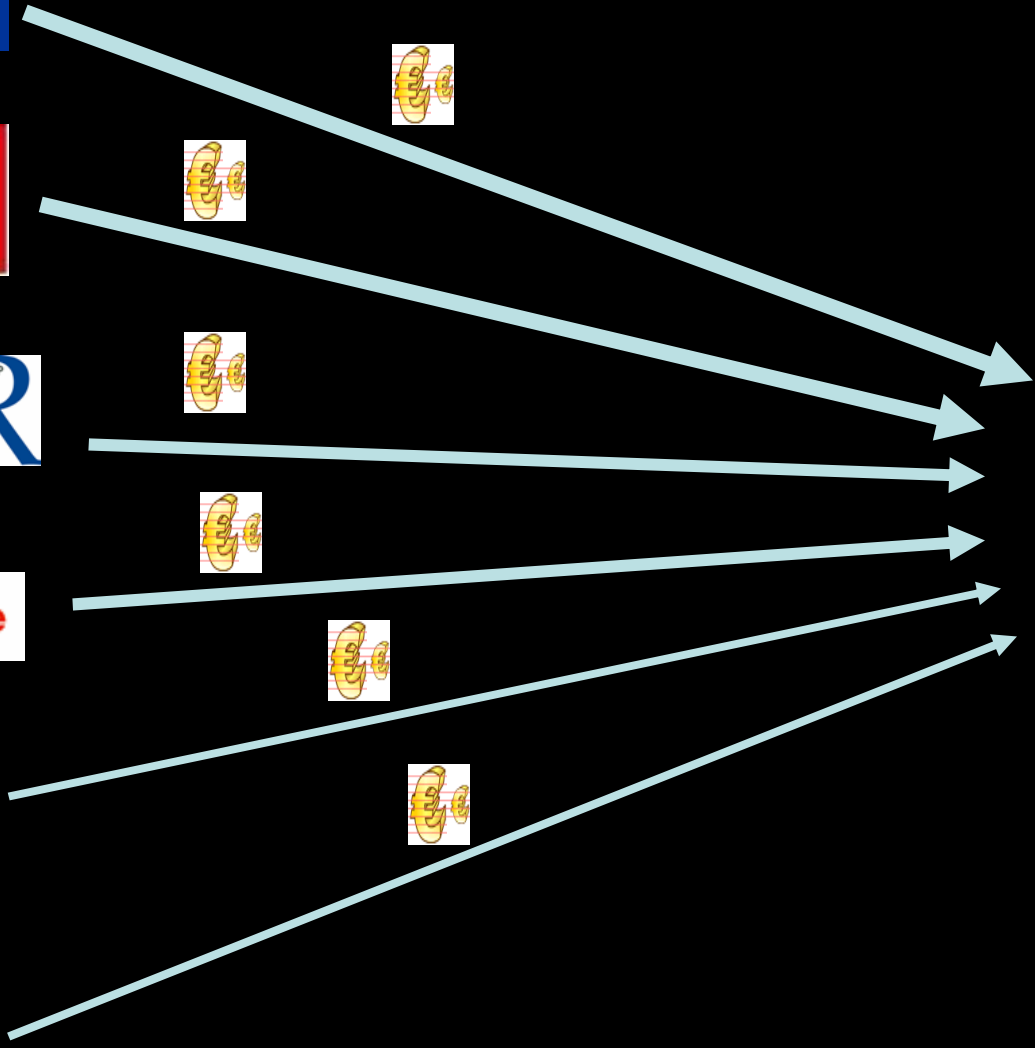
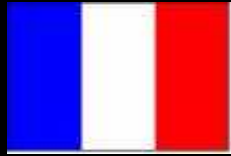
•At least the value of resources it brings in !

- FP7 + national basic research funding > 60 K€/yr
- 1-month visiting professor / year > 10K€/yr
- Partnership with national research institutes >> 20K€/yr
- Internal Habilitation/Full-Prof promotions >> +30K€/yr
- May influence new job creations >> +100-200 K€/yr
- Two new PhD scholarships / yr ~ 160K€/yr
- Cost if 1/3 colleagues on it: 500K€/yr

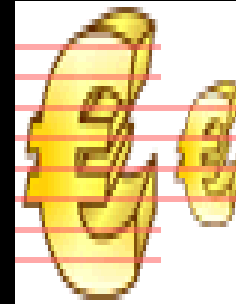


A. Church

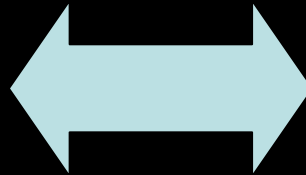
PC cluster agrees with most funding sources: It's a visible equipment



PC cluster is scalable: up and down



20K€



40K€

PC cluster convertible against internal resources



Servers



Storage units



Switches



PC cluster supports requests for space and manpower

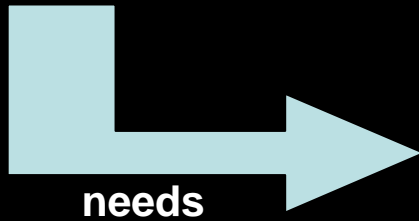
Cluster



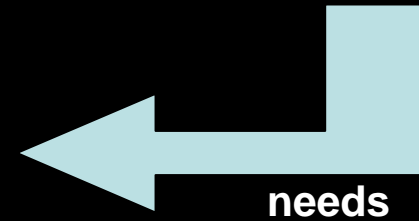
needs



Engineer



Floor space



The PC cluster: a lab manager's best friend

Cluster



Manager



Conclusion: get organized

- **Boost public relations**
- **Step on the Scientific Board**
- **Computer Scientist for President ?**
- **Boost externally funded research: basic & applied**
- **Obtain and maintain mid-size equipments + staff**
- **Increase floor space for the lab**
- **... your ideas here ...**

And reap benefits for/of our research

