



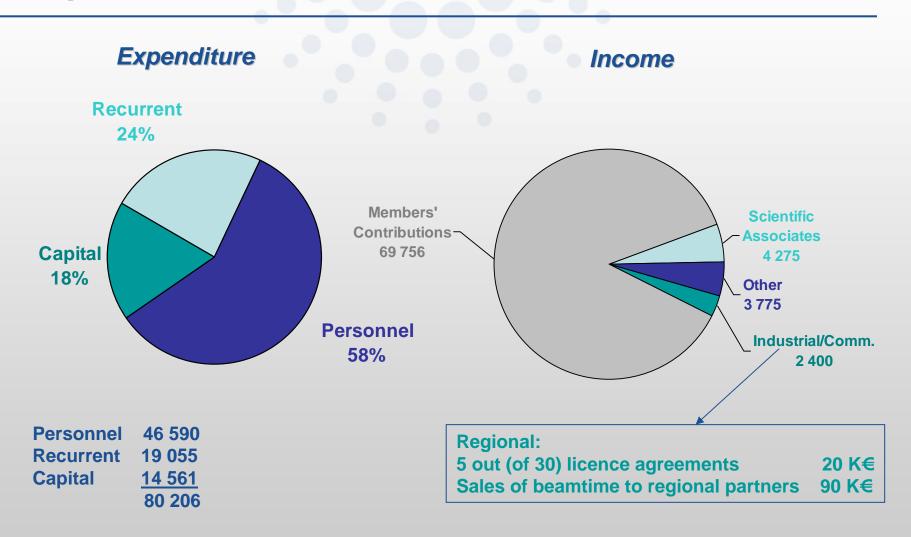


The Scientific and economic impact of the ESRF in regional developments

H. Krech

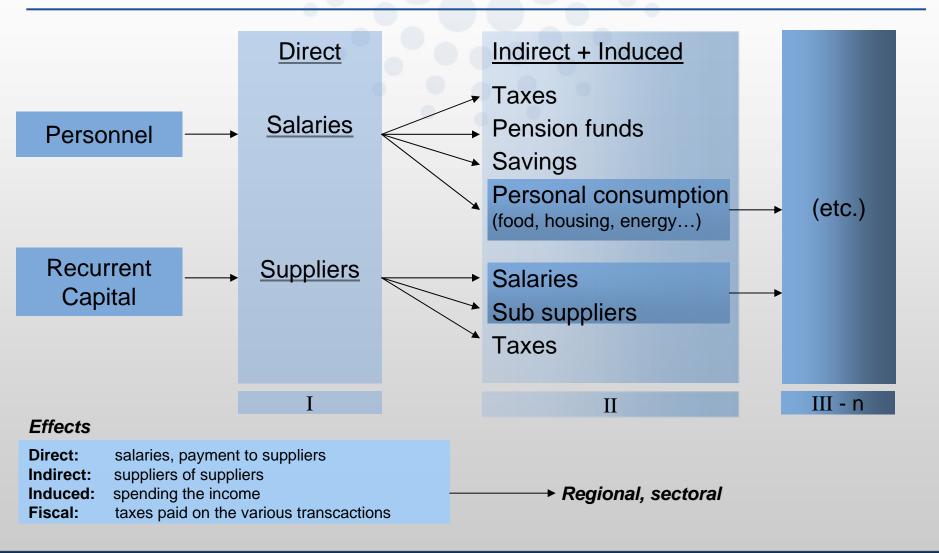
« 3 Way Meeting » at APS, Argonne 17-19 March 2008

Budget 2007 (K€, 1€= 1.5 USD)



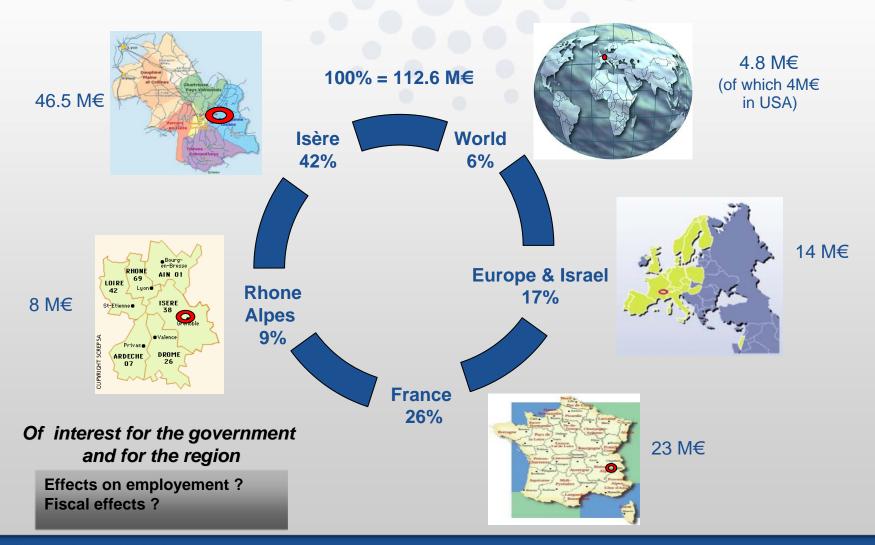


Where does the money go?



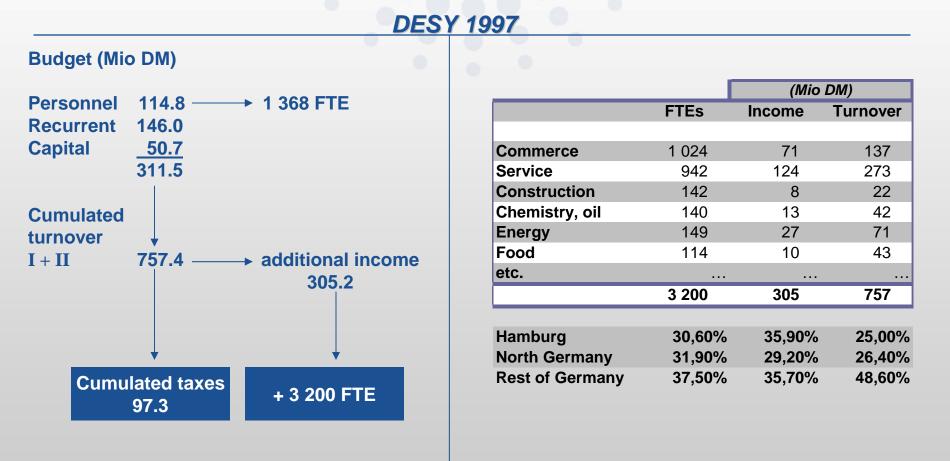


Direct regional effects of ESRF spending (supplies and services) (Total over 3 years)



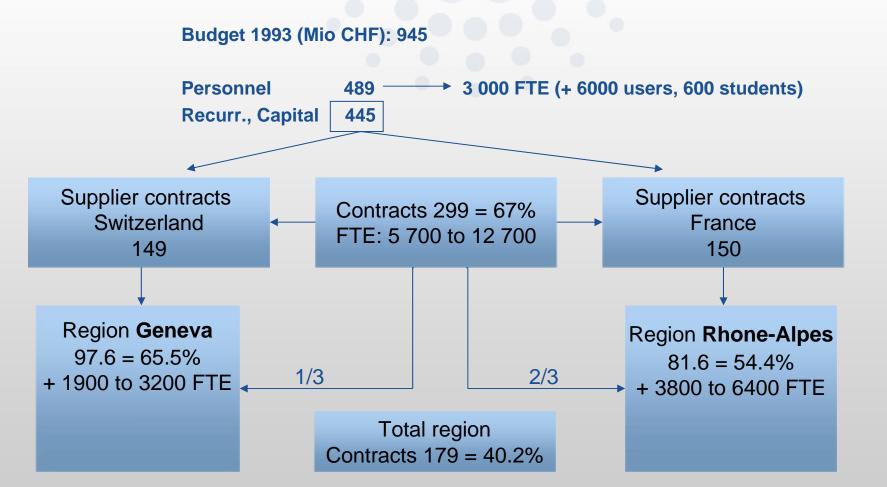
Employement and Fiscal effects

No detailed study for ESRF yet, but: DESY (1997), CERN (1993)



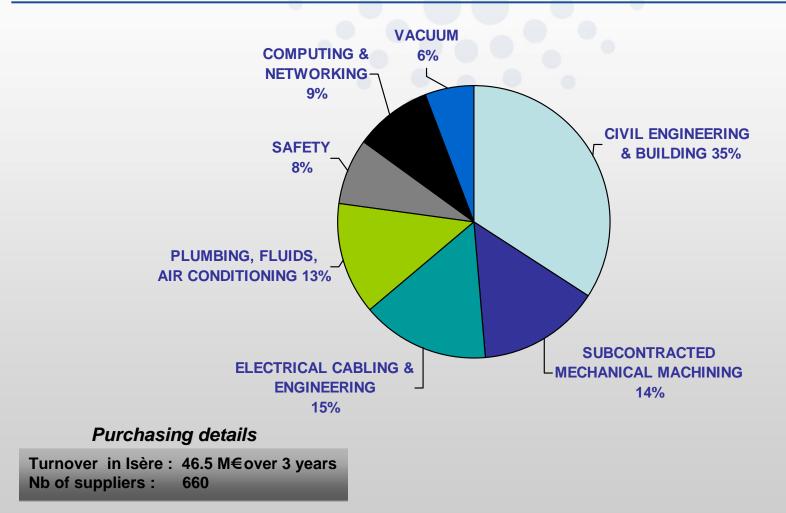


The CERN study 1993





Regional economic impact, summary (2005-2007)





What part of the salary can be spent?

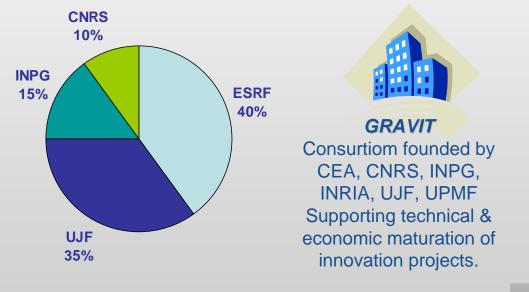
Total salary costs for ESRF	45.3 M€
Employer's contribution to Social Security Employee's contribution to Social Security	14.8 M€ 6.6 M€
Income tax to be paid by employee	~2.0 M€
Remains to be spent (mostly locally)	~22.0 M€

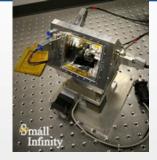


ESRF Spin- off "Small Infinity" (2007)

Development and production of Scanning Probe Microscopes to monitor surface morphology with nanometric resolution.

Patented invention







Valorisation process Total support 244 K€ (360K USD)

> **GRAIN** Grenoble Alpes INcubation

RHONE ALPES Region Funds to support labs

ESRF

Cumulated costs over 2 years (estim.): 294 K€ Estimated income in first 24 months: 1.1 Mio € 2 Scientists involved



Regional scientific impact

Local schools and universities benefit from ESRF (and ILL)

Stimulate and reinforce interest in advanced science, engineering and technology

Particular examples include

- Short-term school/university placements and trainees
- School/university student visits
- Joint PhD projects
- Advanced postdoctorate courses (HERCULES)
- Joint advanced scientific/technical projects

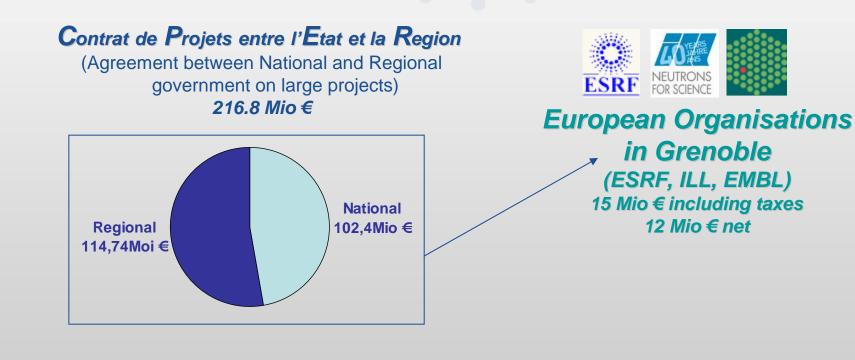
Scientific use of the ESRF by Users from Grenoble and Lyon area (2007)

- I19 Experiments (13 % of the total)
- @ 275 Users
 - @ of which propietary (industrial/comm.)
 - @7 experiments
 - @21 users



ESRF and Regional developments plans

Support of international development of regional units of research and higher education



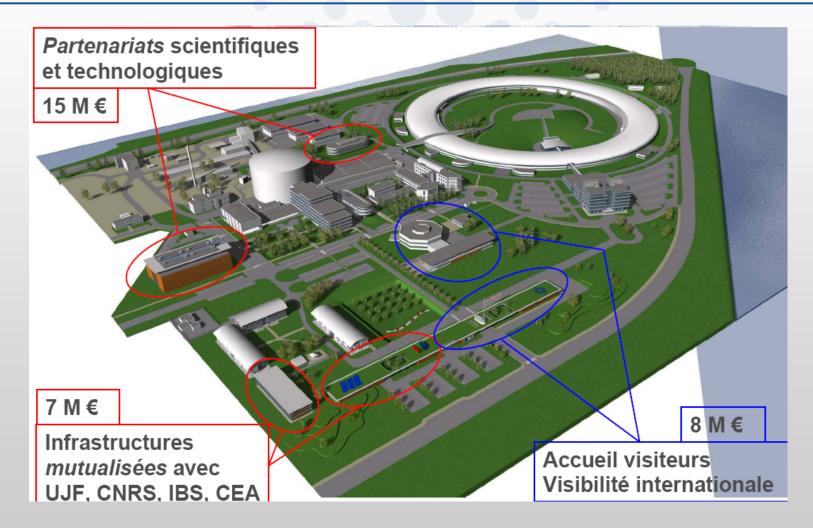


"European" part of Polygone Scientifique





Improving the infrastructure with CPER







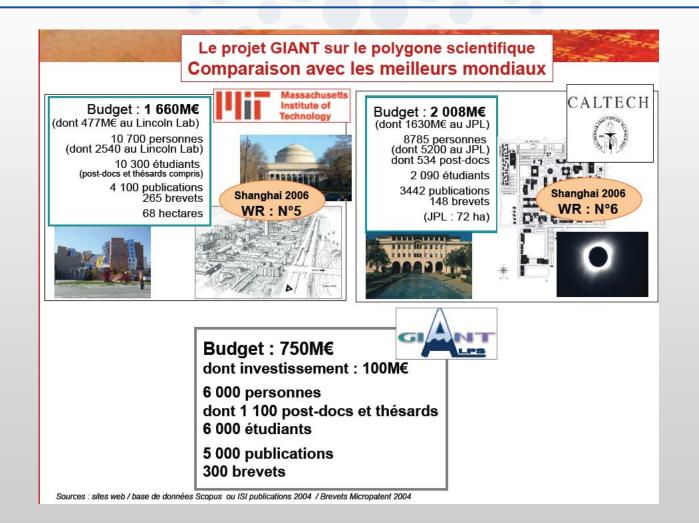


Major urban development "Polygone Scientifique" "Peninsula of the Future"

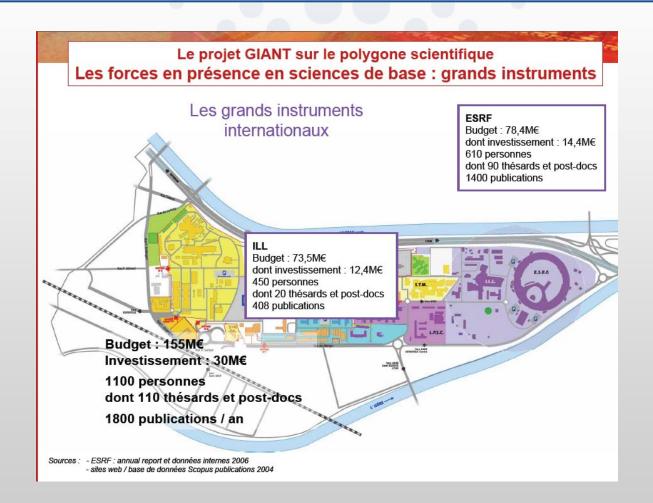


Integrate the Campus into the urban context
Improve the links between the "Polygone" and the University campus



















Thanks for your attention