

Industrial activity at the EPN campus, Grenoble

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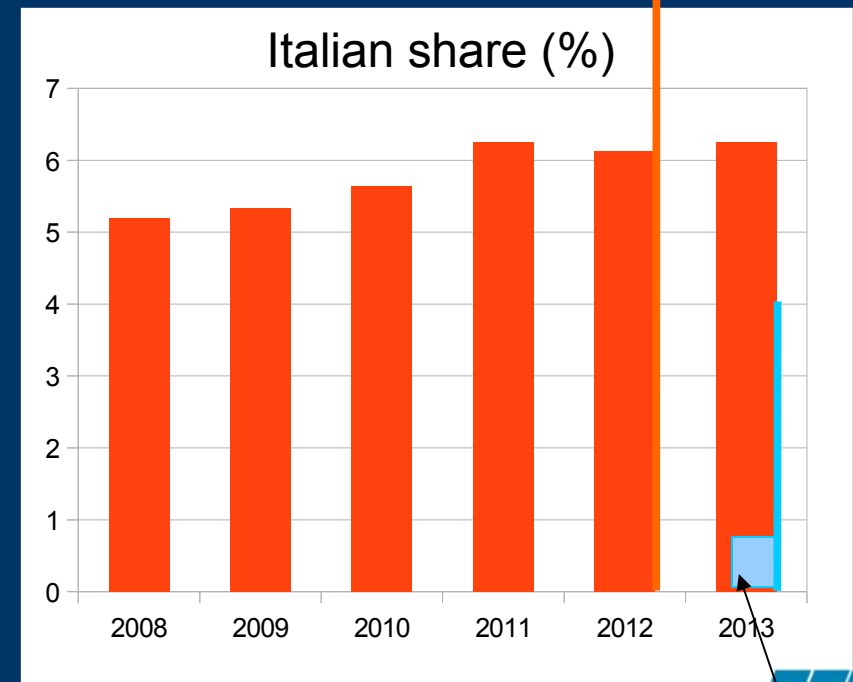
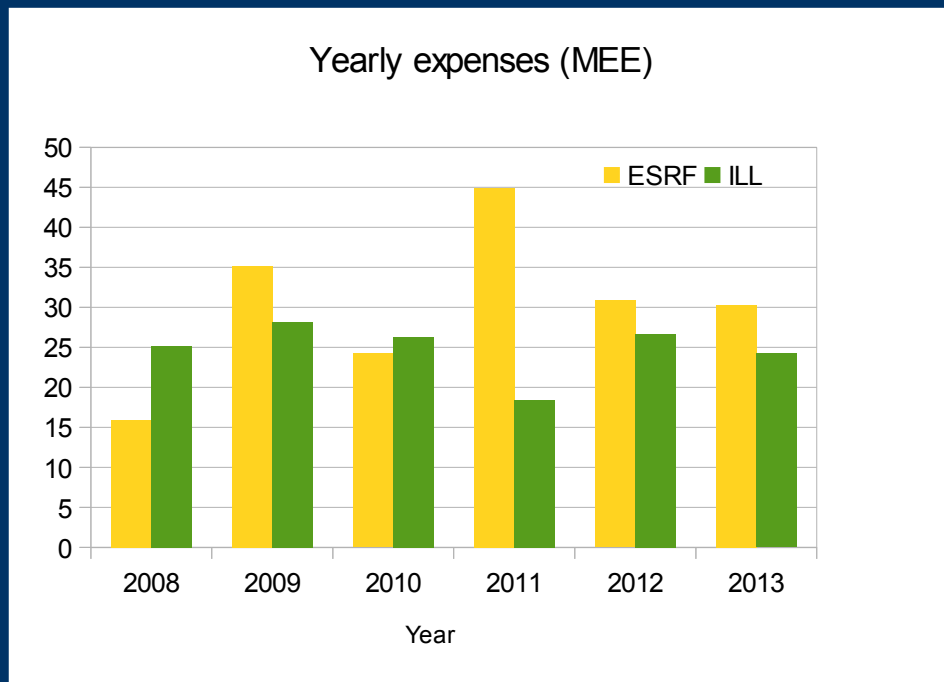
The EPN campus in Grenoble



- 2 Large scale facilities ILL, (operative since 1972) ESRF (operative since 1992).
- Budget ~ 100M€/y each.
- CNR local section (IOM-OGG).

Italy at the EPN campus

- Member country of ESRF, 13.2 %
- Scientific member of ILL, 4%



Fields of activity & Italian presence



- Precision mechanics
- Vacuum technology
- Magnet technology



- Buildings & infrastructures
- Electronics
- Nuclear technology



- Services
- Cryogenics
- Infrastructures



- *X-ray optics*
- *Detectors*

Procurement: basic rules

- **> 50 K€**
 - National purchase advisors suggest suitable companies
 - Companies receive the CFT from ESRF/ILL
- **Double envelope procedure (>300 K€)**
 - Technical aspects
 - Financial aspects
- **Contract approval by AFC (>500 K€)**
- **Best value for money**
 - ill-balanced countries: realignment within 15%.

Technology transfer



- Licence for the production of apparatus
 - Developed for ESRF within a CFT (usual case)
 - Developed in house by ESRF (by far less frequent)
 - Large scale production or single specimen
- ESRF looking for partners in HORIZON-2020
- Probing the possibility of organizing an **EPNCampus / Italian_industry** meeting day.

Major plans, ESRF



- UP phase II (2015-2022)
 - 150 M€ totali
 - 90 M€ Storage ring
 - **Vacuum technology, mechanics, magnets, electronics, services.**
 - 20 M€ 4 beamlines
 - **Mechanics, electronics, detectors, X-ray optics, buildings & infrastructures, shieldings.**

Major plans, ILL



- Endurance Program (2016-2022, est. 36 M€)
 - **Instrumentation upgrade**
 - **Mechanics, electronics, detectors**

- post-FUKUSHIMA upgrade in progress
 - **nuclear technology, shieldings, safety, radiation monitoring, buildings & infrastructures**

Conclusion

- Total potential market of about 4-5M€/y at EPN campus for Italy.
- Italy severely under-balanced.
- Need to develop presence in some ill-covered fields.
- Opportunities: ESRF Upgrade Program Phase II, ILL Endurance program.