



SOLEIL, the French synchrotron light source

SOLEIL was built under the aegis of the French Ministry of Research by the CNRS (*Centre National de la Recherche Scientifique*), the CEA (*Commissariat à l'Énergie Atomique*), *Région Île de France, département de l'Essonne, and Région Centre*. It is a high technology research infrastructure which produces and uses a light of extreme brilliancy, from UV (5 eV) to hard X-rays (100keV), for the study of living matter and complex materials.

Open since 2008 and equipped with 29 specialized laboratories called beamlines, SOLEIL is a scientific research center (112 publications in 2012) and center for services to research and industry (295 external publications and 45 industrial projects in 2012), identifying it as a major fundamental research facility, particularly in biology, chemistry, physics, and earth science. SOLEIL is also an exceptional tool for other applications of interest to society (e.g. health diagnostics, archaeology, nanoscience and environmental studies, including soil, water, and air pollution control).

Three electron accelerators are operated at SOLEIL: a 110 MeV linear accelerator, a 2.75 GeV booster synchrotron and a 2.75 GeV, 354 meter circumference storage ring.

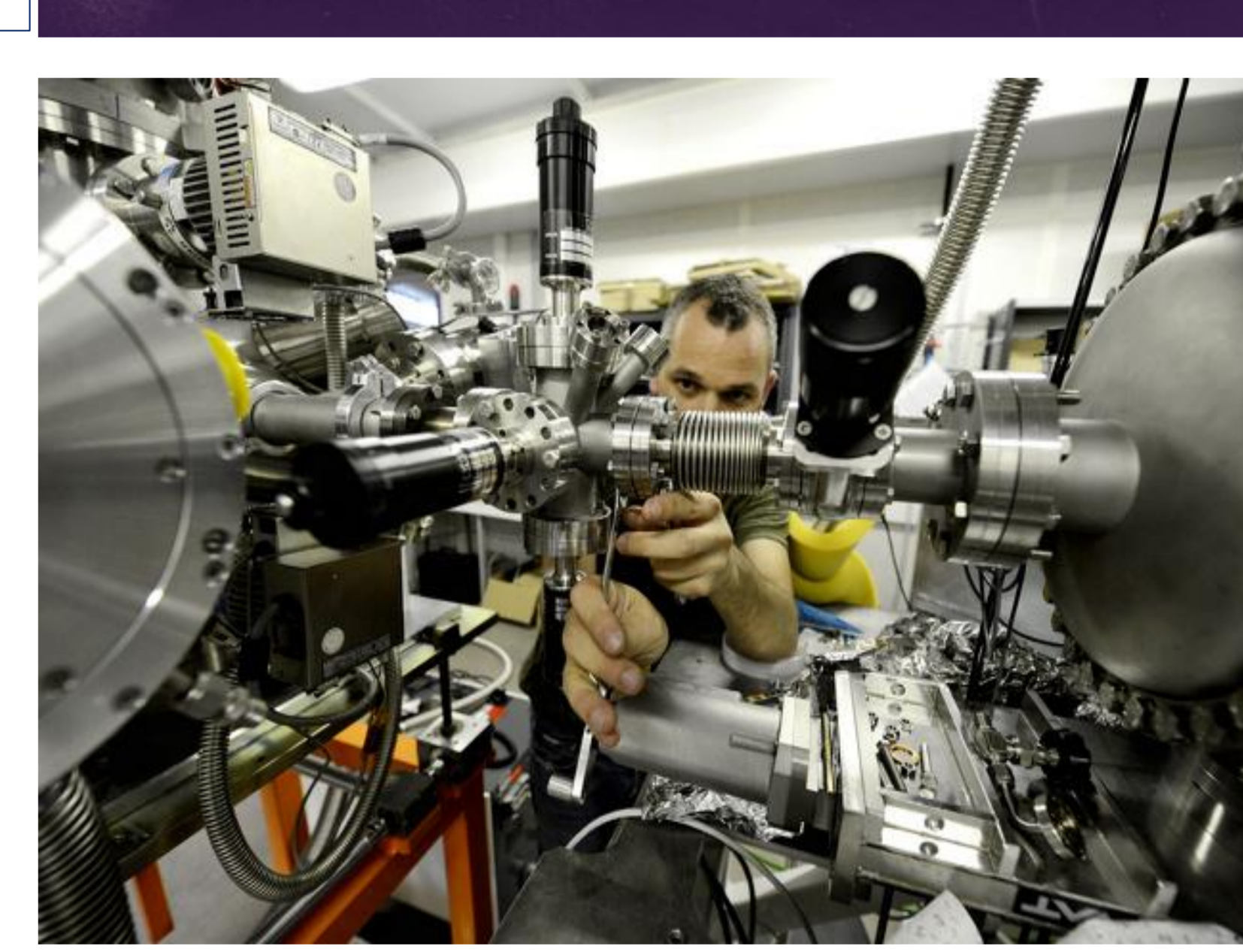
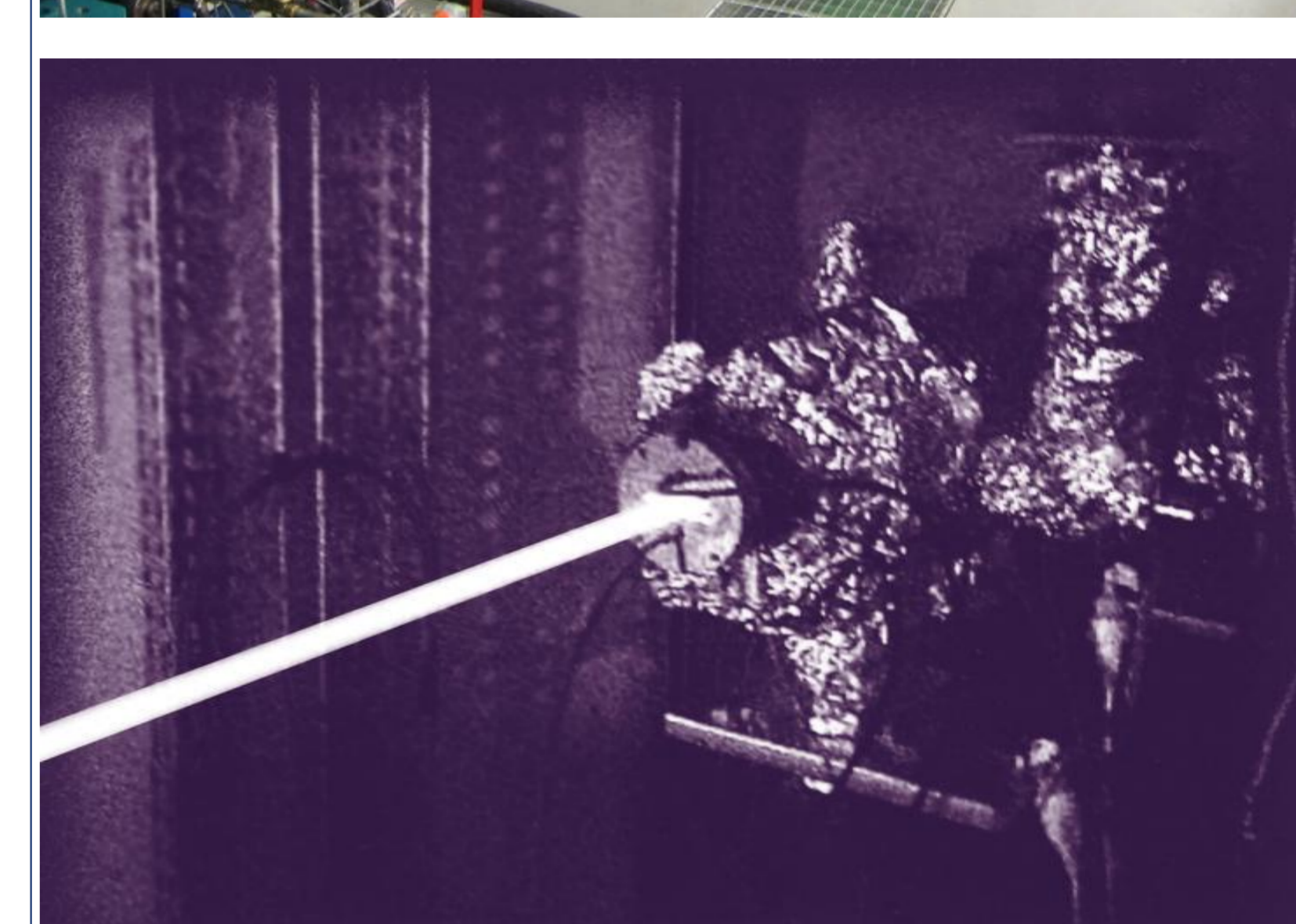
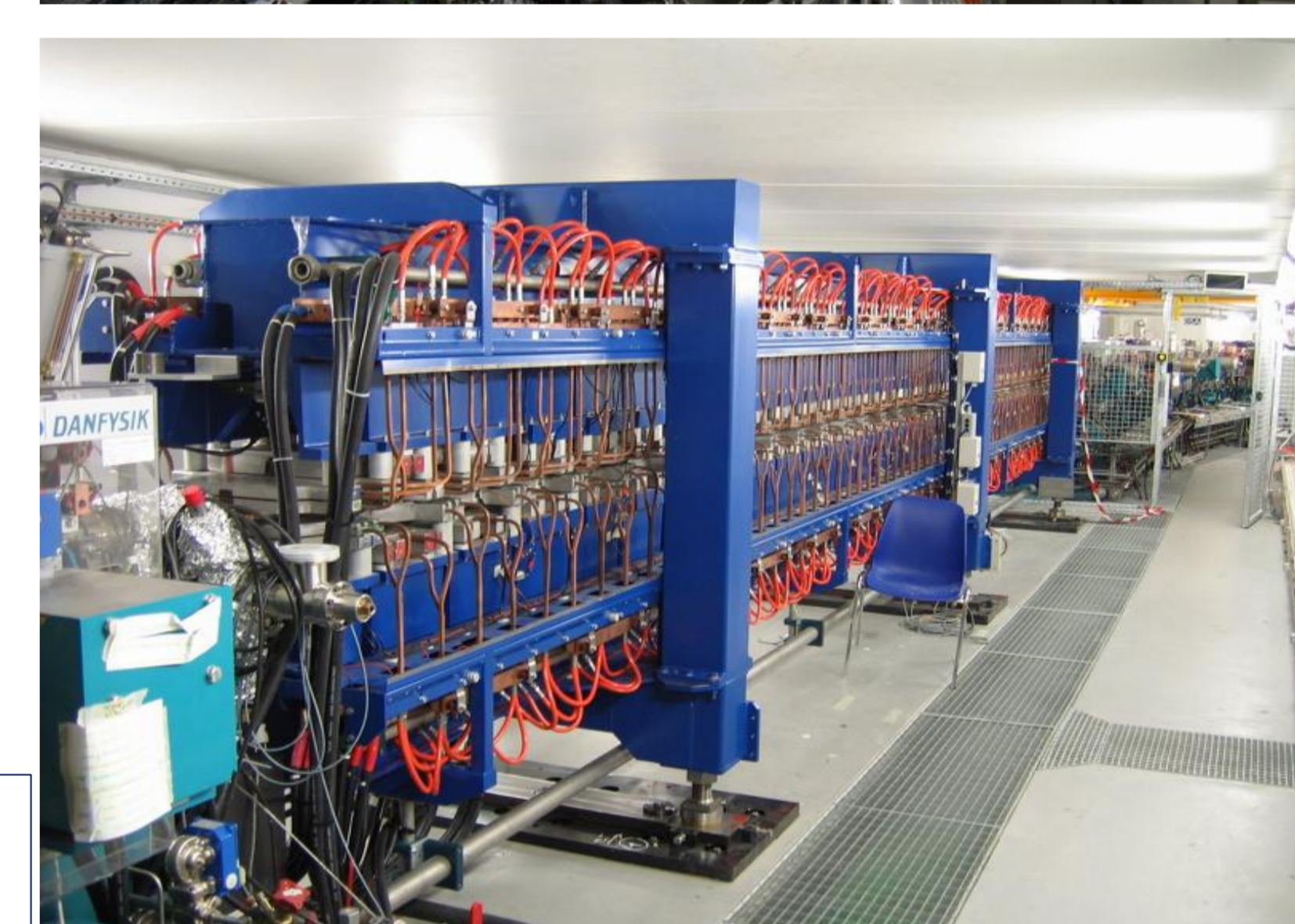
SOLEIL employs about 350 staff and is organized as a French *société civile*.

Facts and figures

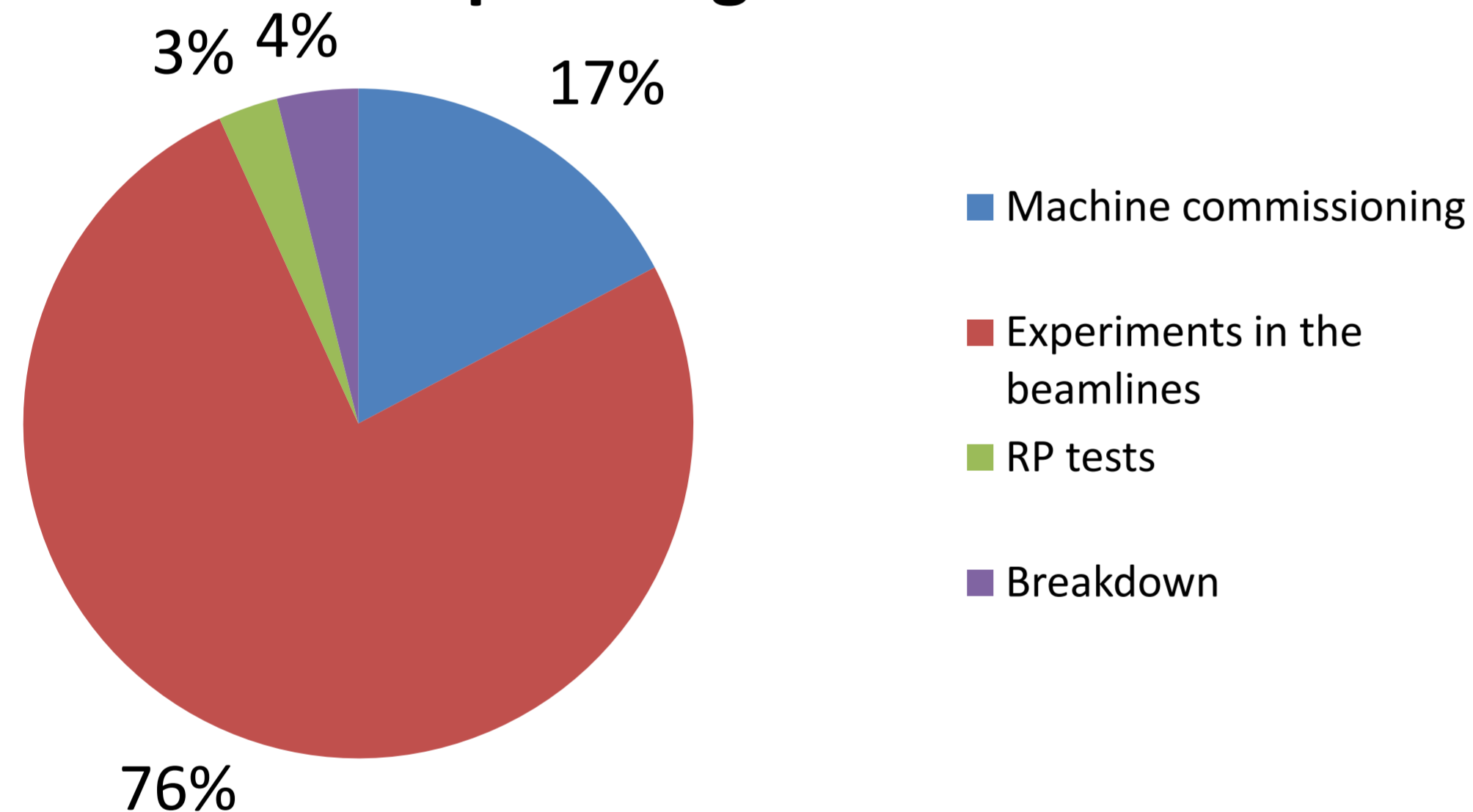
Budget 2012		kEuro
PERSONNEL		
SOLEIL Staff		27 140
External temporary staff		2 690
Other personnel costs		1 730
RECURRENT		
Operating costs		6 158
Site expenses		5 576
CAPITAL		
Buildings, infrastructure		7 493
Accelerators and Source		1 203
Beamlines, Experiments		8 109
Computing infrastructure		532
Other capital costs		744
Total		61 375

Dates

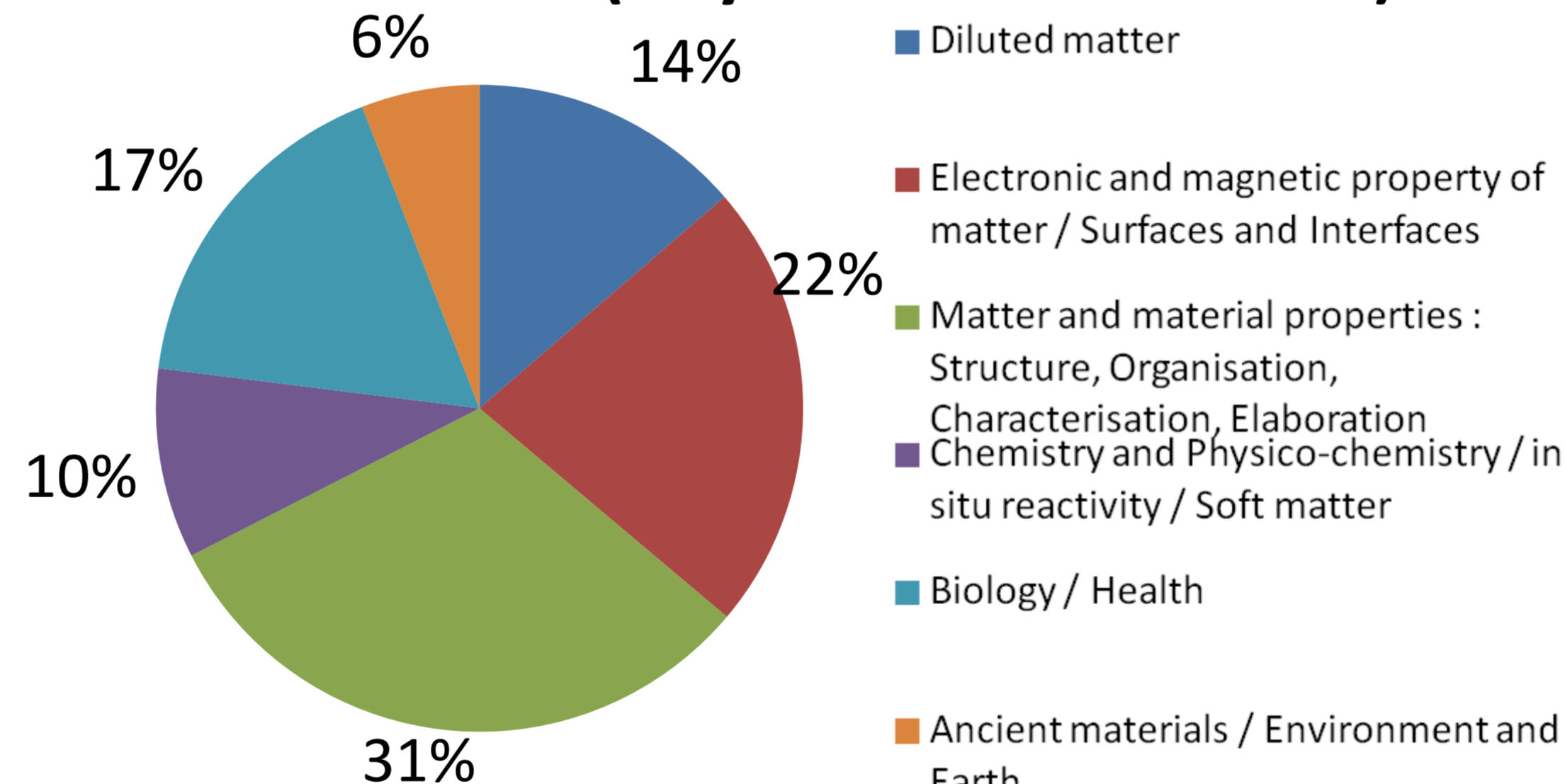
April 2003	Laying of the foundation stone.
June 2006	First electron beam in storage ring. Commissioning phase.
December 2006	Inauguration of the site by President J. Chirac.
2008	Opening to users. 11 beamlines are available.
2013	26 beamlines are operational.



Division of the 6515 hours of the machine's operating time in 2012

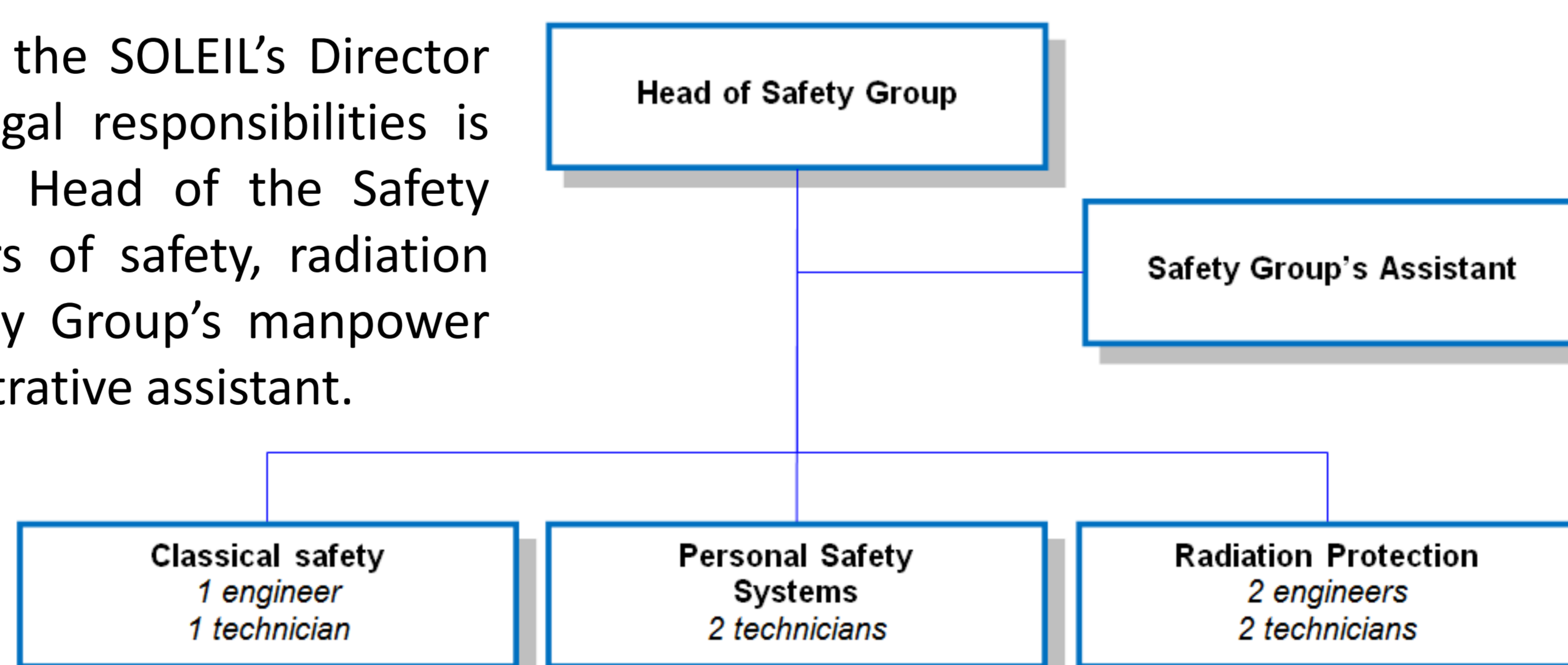


Shifts scheduled for experiments, by scientific area (July to December 2012)



HSE Organisation

The SOLEIL Safety Group is directly attached to the SOLEIL's Director General. A formal delegation of power and legal responsibilities is signed between the Director General and the Head of the Safety Group. The Safety Group deals with all matters of safety, radiation protection and environmental issues. The Safety Group's manpower includes 4 engineers, 5 technicians and 1 administrative assistant.



Safety hazards

Besides ionizing radiation, a wide range of specific safety hazards exist at SOLEIL. The main ones would be non-ionizing radiation, mostly due to lasers and magnetic fields, electrical hazards and chemical hazards, because of the many experiments performed with toxic or flammable gases. Biological hazard, mechanical hazards, working at height... also require our daily attention.

Many contractors work on site. The safety follow-up of the interventions from these contractors is an important part of the Safety Group's mission (> 300 *plans de prévention* per year).

The large number of user experiments (> 700 experiments par year, > 3100 user visits per year, > 25 experiments carried out simultaneously) creates a number of specific constraints in terms of safety follow-up.