

Assemblée Générale des Retraités Grenoble, 21 Novembre 2014

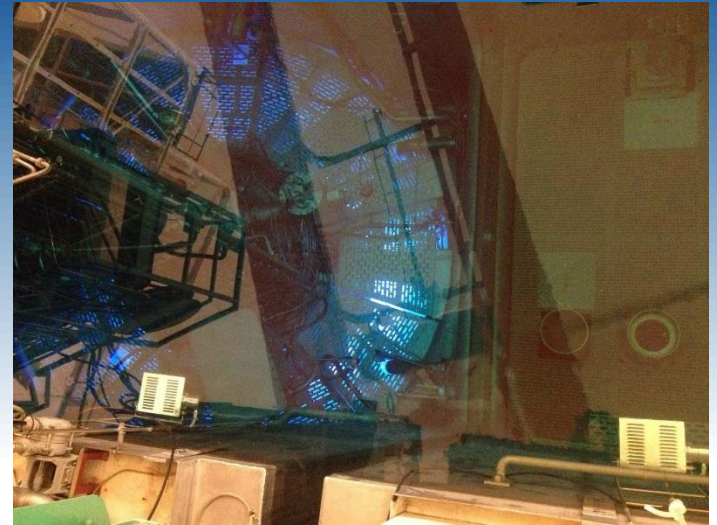


Budget, Multiannual Financial Estimates (MFE), Long-Term Financial Plan (LTFP), Travaux de renforcement STR/post-Fukushima

- Beaucoup d'effort depuis le printemps pour reconstruire le budget afin de couvrir un dépassement important des dépenses post-Fukushima
- MFE modifié afin de tenir compte de cela
- Préparation du LTFP
- Présentation aux Associés, 04 Septembre 2014
- Préparation des changements des procédures/structures de l'ILL pour éviter ces problèmes
- Travaux de renforcement continuent

Redémarrage du réacteur

- Cycle court (18 jours) à 30 MW depuis 8 Juillet – tests et préparation
- Cycle complet comme planifié à partir du 28 Août
- A 36 MW - problème de réfrigération, source froide verticale - jusqu'au 7 Septembre
- Redémarrage à pleine puissance (58 MW);
10 Septembre → 18 Octobre; et puis 4 Novembre → 22 Décembre
- Programme des expériences sur instruments opérationnels



Scientific Members

- Signed
 - Switzerland, Italy, TRANSNI, Spain
- About to be signed
 - CENI (only Hungary missing)
- Ongoing discussions
 - India (2015-2018)
- Contacts
 - Belarus, Luxemburg, Russia, The Netherlands

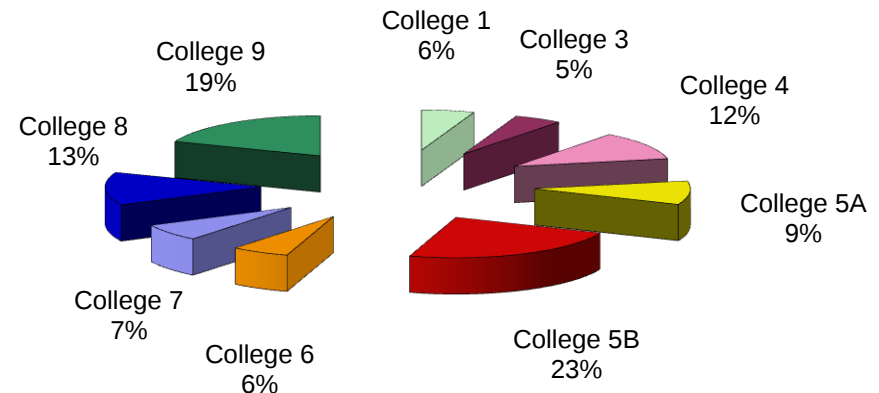
Scientific Council 13-14 November 2014



September 2014 proposal round

- Total of 584 proposals received (i.e. level of 2010) for the September 2014 round
- Distribution among the colleges remains more or less in line with previous rounds
- Subcommittees (12-13 Nov.) : awaiting results

Distribution of submitted proposals

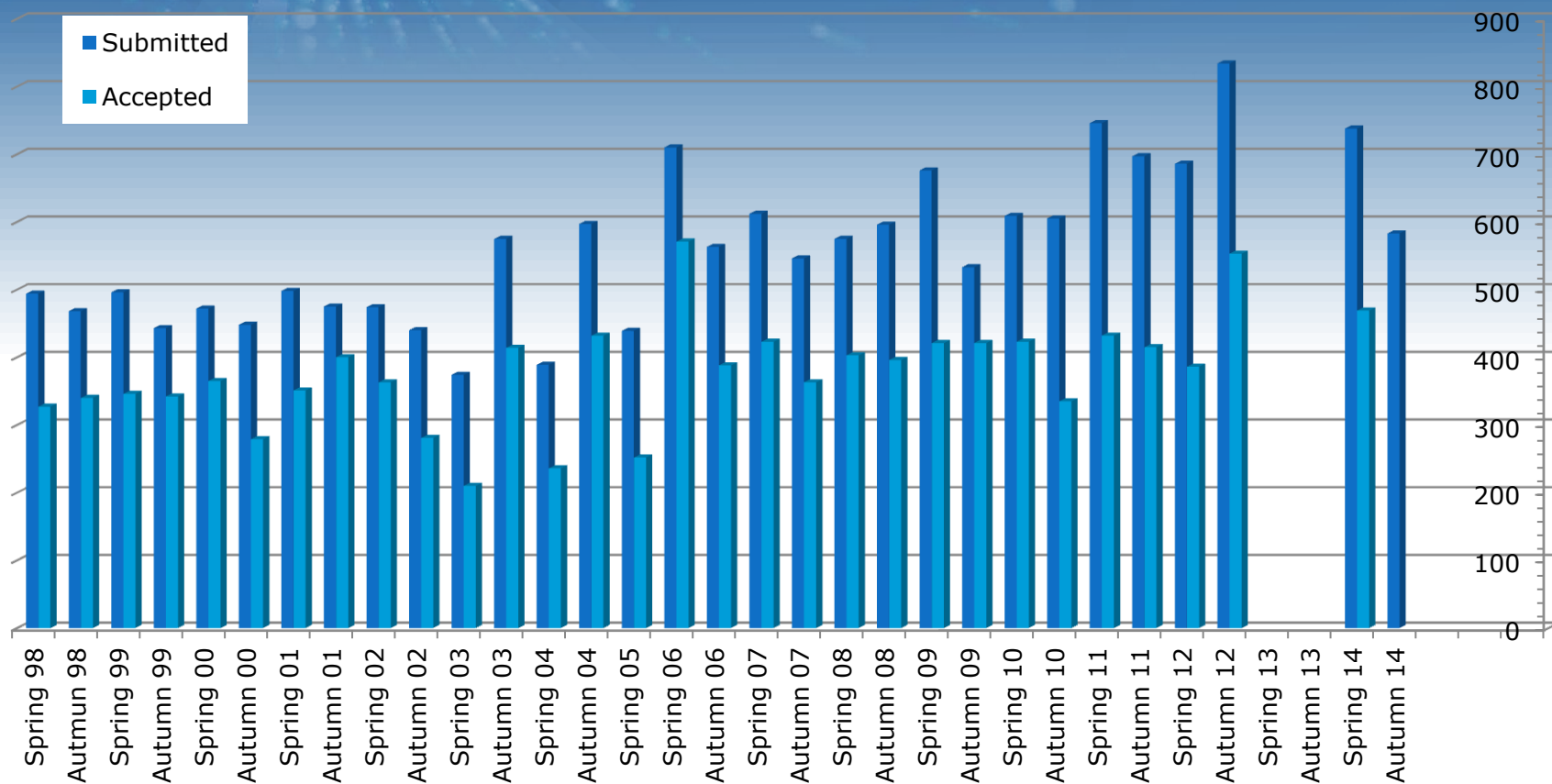


September 2014 proposal round

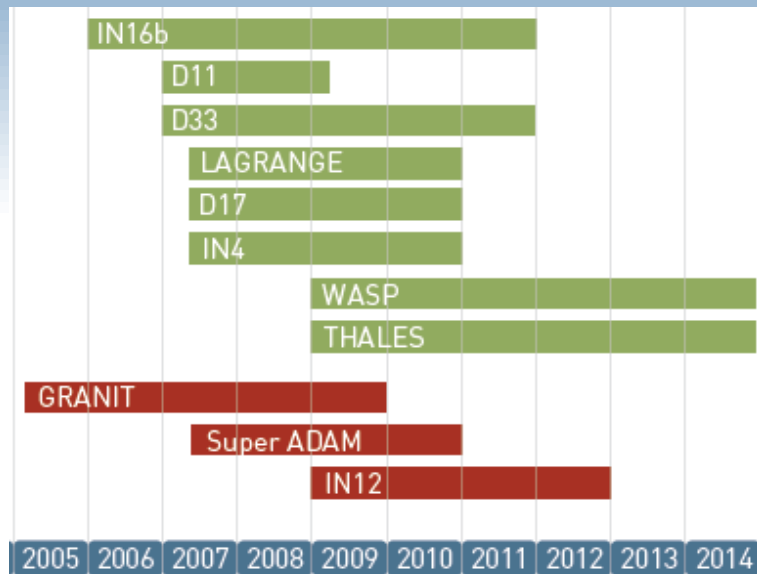
Big three (France 22.8%,
 Germany 24.5%, UK 21.7 %)
 remain at usual level

TABLE 3	Request days	Request %
<i>Without non member countries and ILL/ESRF redistributed</i>		
AT	97,00	2,64
BE	21,76	0,59
CH	189,25	5,15
CZ	58,02	1,58
DE	899,09	24,46
DK	74,36	2,02
ES	136,64	3,72
FR	839,42	22,83
GB	798,41	21,72
HU	25,94	0,71
IN	145,54	3,96
IT	178,01	4,84
PL	42,22	1,15
SE	156,25	4,25
SK	11,09	0,30
Total	3676,19	100,00

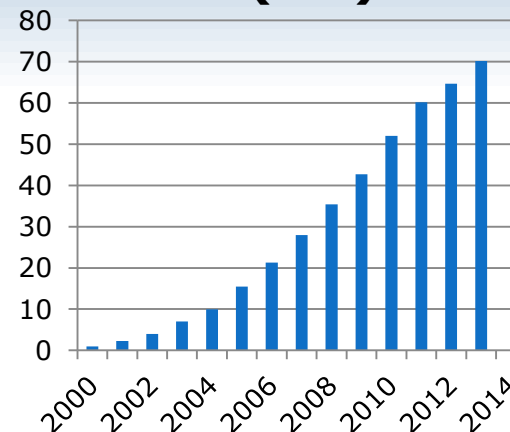
September 2014 proposal round



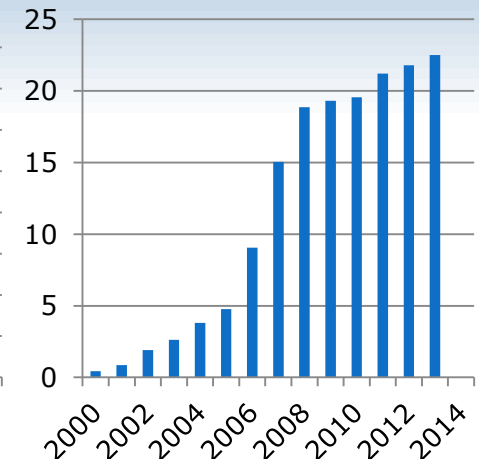
Millennium programme



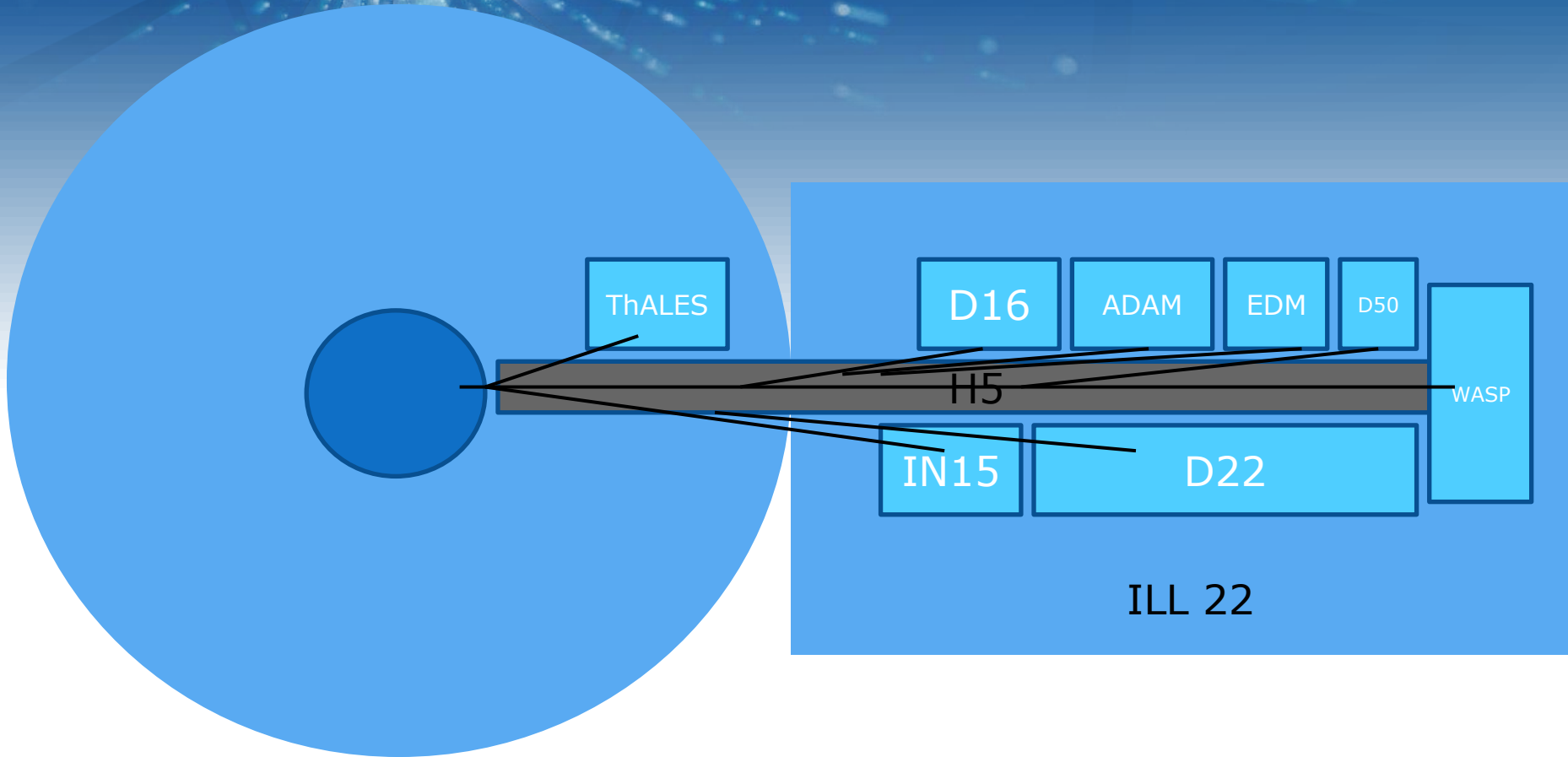
**Integrated cost
(M€)**



Gain factor

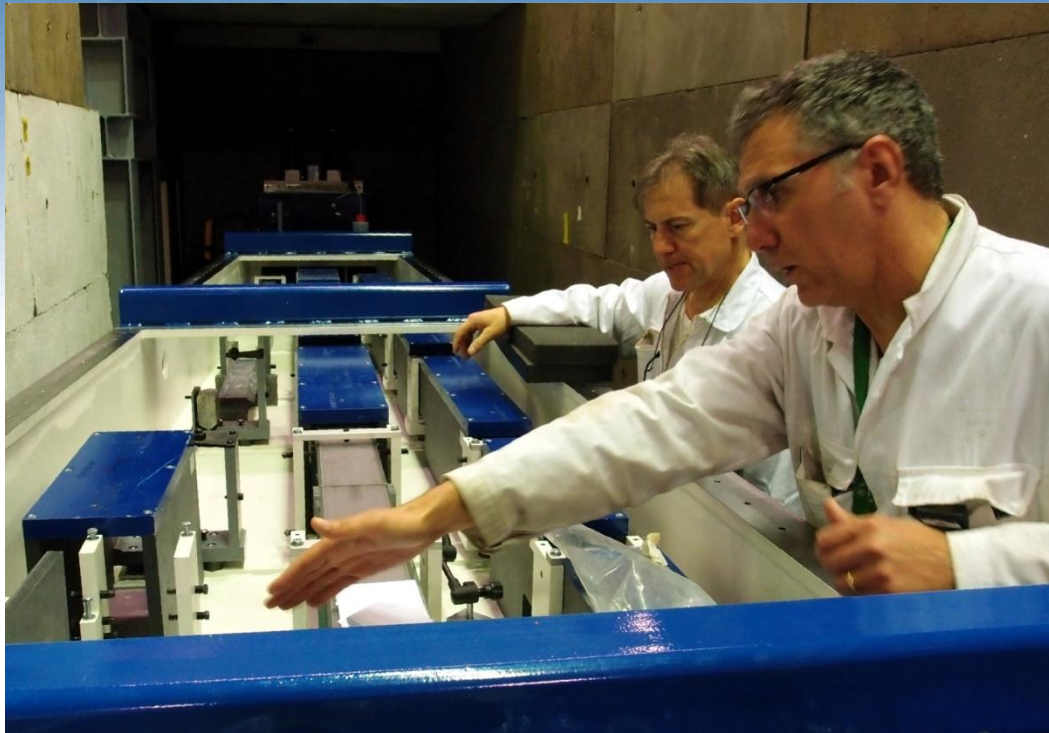


Long shut-down work



Instruments constructed/modified during the long shutdown 2013-2014

Long shut-down work



Neutron guide alignment

ThALES (ex-IN14)

End of March 2014



5 June 2014



ThALES (ex-IN14)



30 September 2014

Endurance programme

- Evaluation by Scientific Council, June 2013
- Phase 1 (2015-2019): 9 instruments
- Existing instruments to be replaced by new state-of-the-art instruments; XtremeD, FIPPS, IN5+, RAMSES, PANTHER, D10+, D7+, RAINBOWS, SUN
- Software: BASTILLE
- Sample environment: NESSE
- Phase 2 (2018-2023): to be defined and evaluated with Scientific Council

Reactor operations

- Our facility is now in a healthy position at the end of 2014
- We recognise the support and additional funding provided by our Associates and Scientific Members
- We note the outstanding efforts made by the staff of the ILL over the past 3 years (following a 10-year period with an extremely high workload)
- Reactor Division carried out the complex reinforcement projects with no additional staff, but with invaluable help from other Divisions

STR/post-Fukushima project



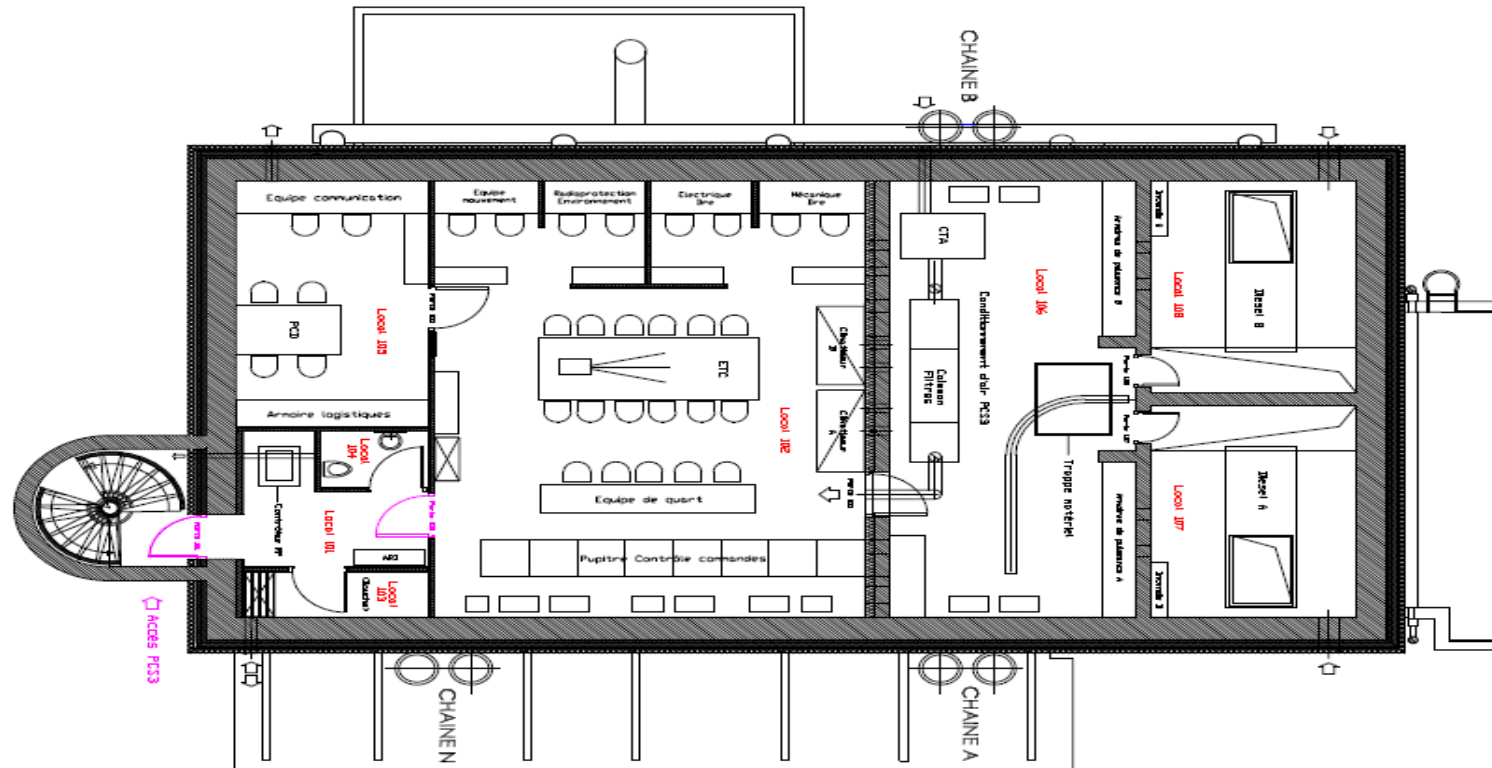
Remote control room
on top of ILL 5D

GEL (D₂O processing)
on ground floor

New remote/emergency
control room (PCS3)



STR/post-Fukushima project



New remote/emergency control room (PCS3)

STR/post-Fukushima project

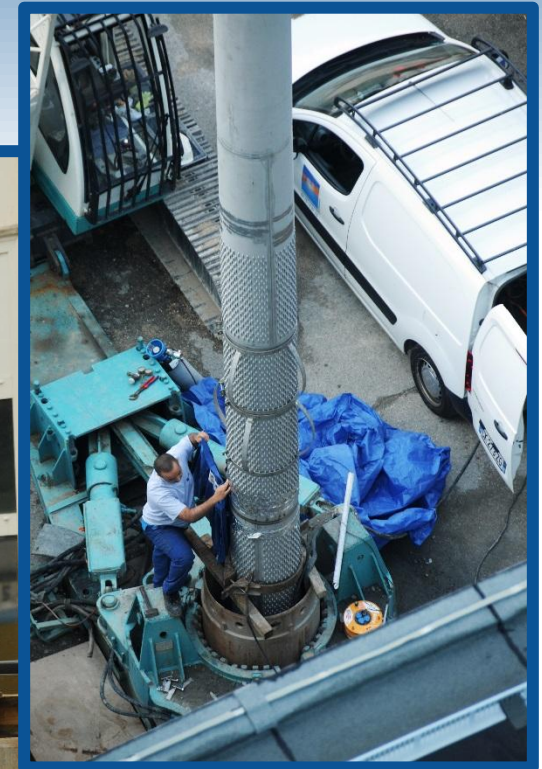
Emergency depressurization circuit tubing



Welding of tubes for well



Tubes for well



STR/post-Fukushima project

Tubes for well



**Emergency
depressurization
circuit chimney**

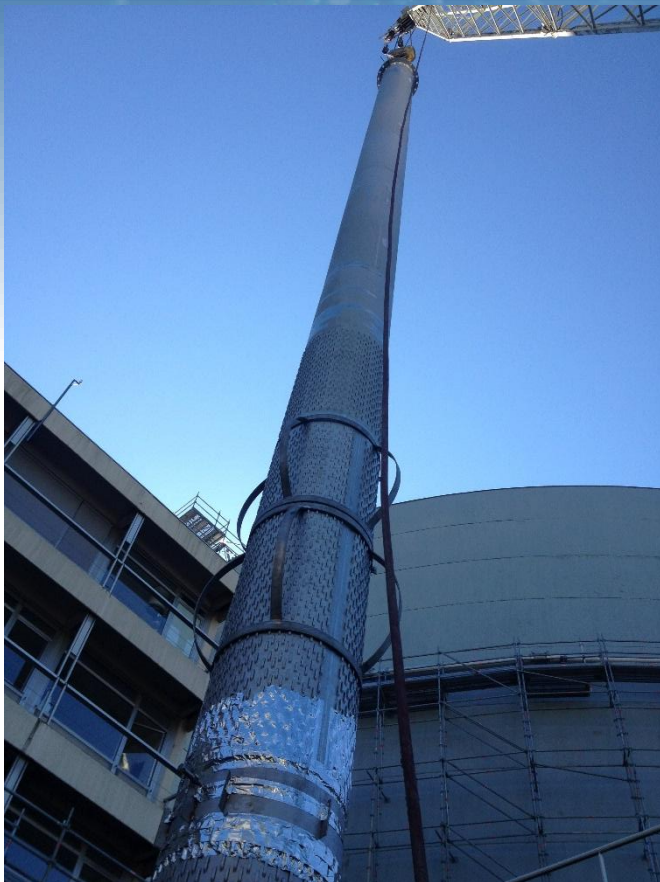


**Emergency
depressurization
circuit; lifting a tube
section**



STR/post-Fukushima project

Tubes for well



Intermediate seismic electronic room



STR/post-Fukushima project



**In pile
instrumentation**



**Underground
door
reinforcement**



**Fuel handling device
maintenance**



**Emergency
depressurization
circuit: in-pile part**

STR/post-Fukushima project

GEL process: below the remote control room (PCS3)



STR/post-Fukushima project



MERCURE machine for treating the resins



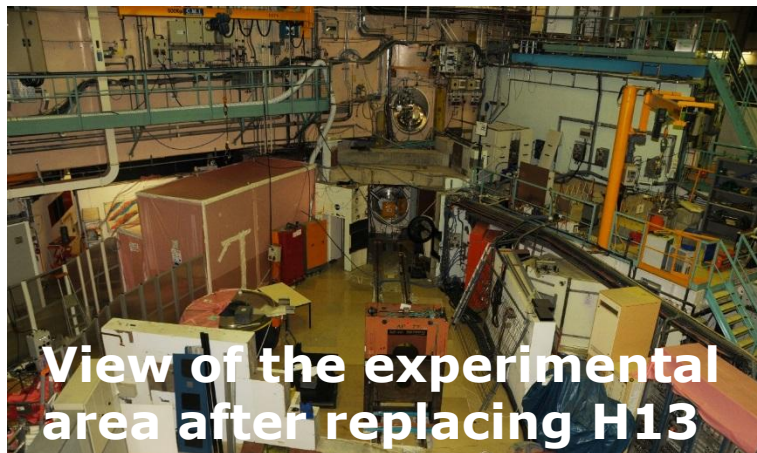
Treatment of highly active resins

STR/post-Fukushima project

**Preparing the extraction
of H13 from the reactor block**



**Moving beam tube
into the hot cell**



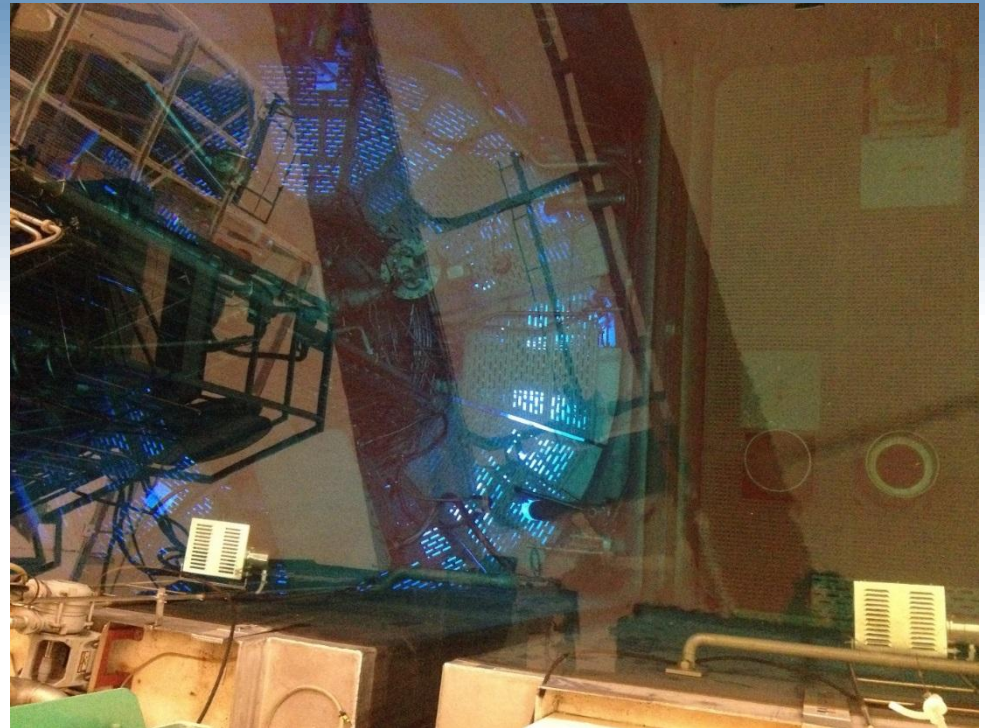
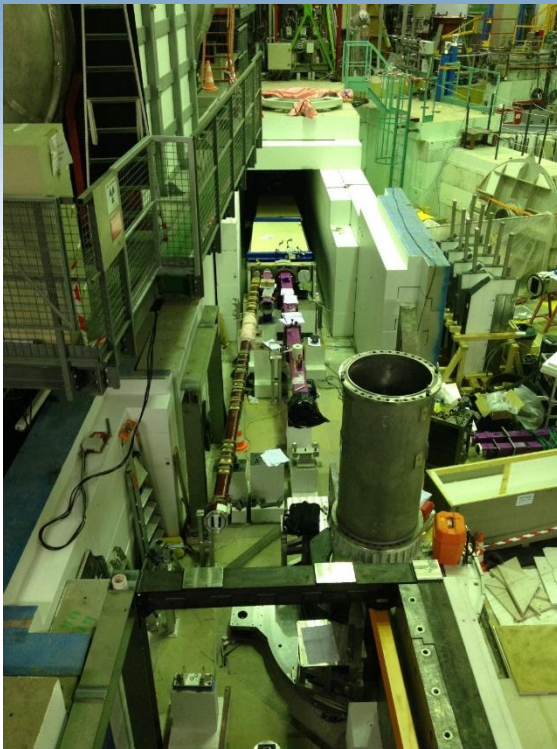
**View of the experimental
area after replacing H13**

Beam tubes

STR/post-Fukushima project

**DPT work on
neutron guides
feeding ILL22**

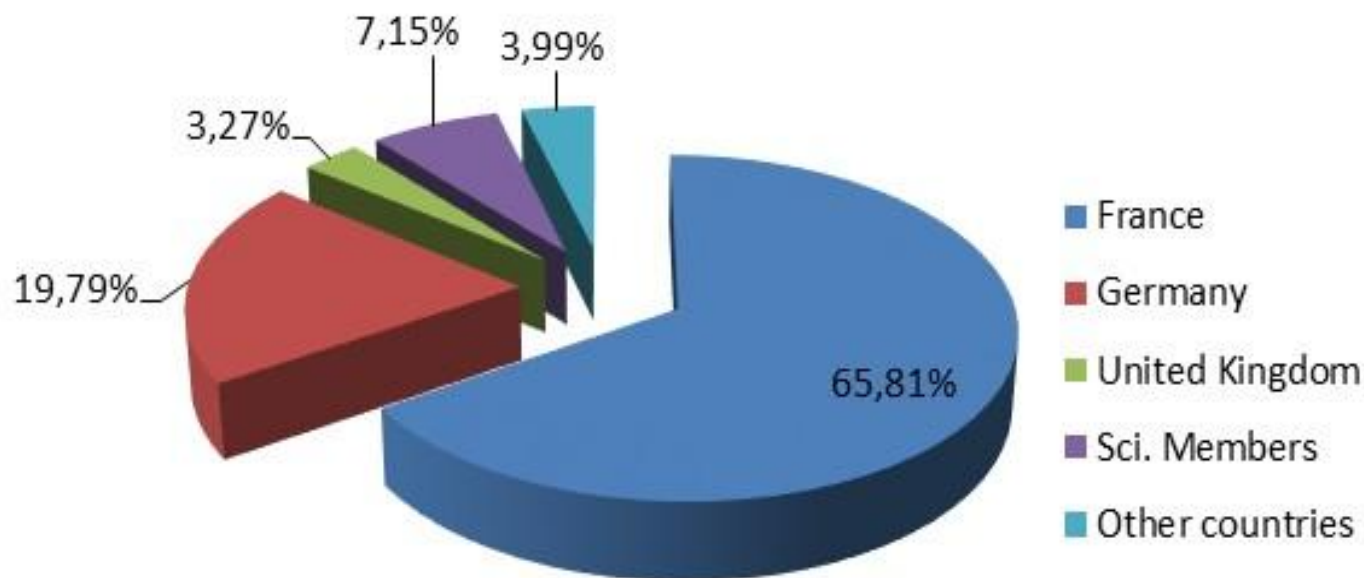
Reactor operating at 58.3 MW



2.5 cycles as planned

Juste retour

Distribution of non-captive expenditure in member states and other countries in 2014 (%)



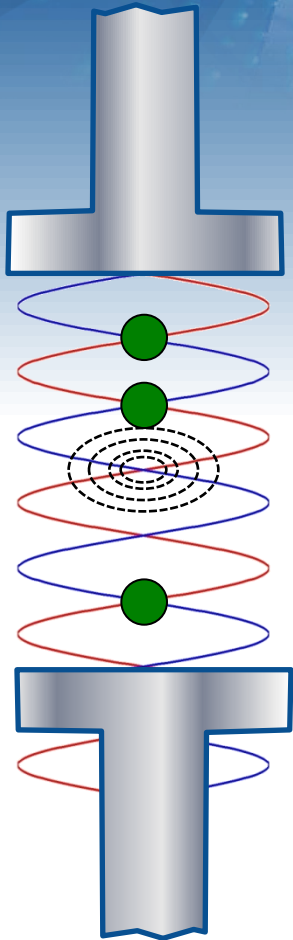
Procurement

However, we are working to improve the situation:

- Purchasing Advisors meeting (at least annually)
- Benchmarking with other organisations (EIROforum, INFRASUP, European projects, ...)
- Special meetings to exchange on best practice (Diamond, ISIS, ...)
- Participation in UK or German supplier showcases (TEC66 Vacuum in October)
- Secondment of a buyer by STFC?

Science: acoustic levitation

Transducer
(Vibrating source)



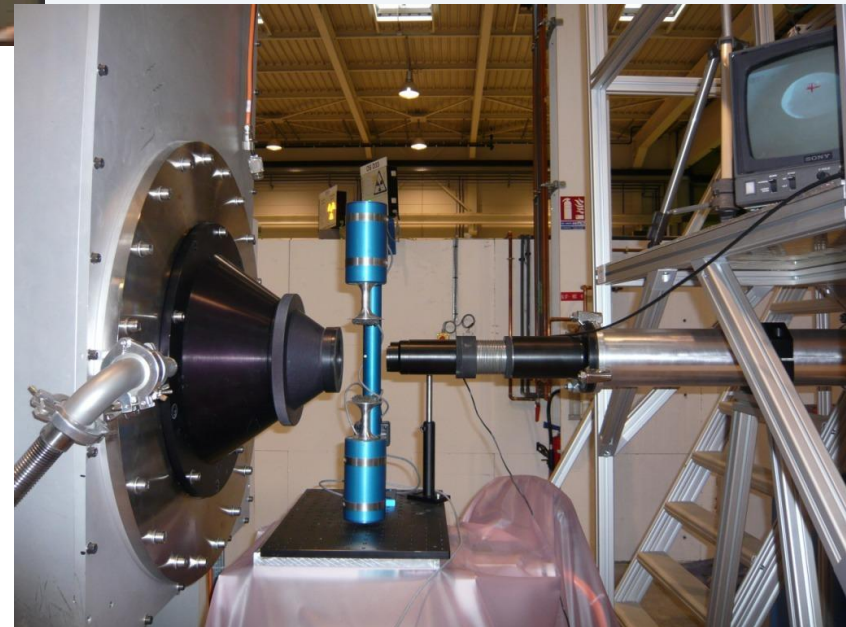
Transducer
(Vibrating source)



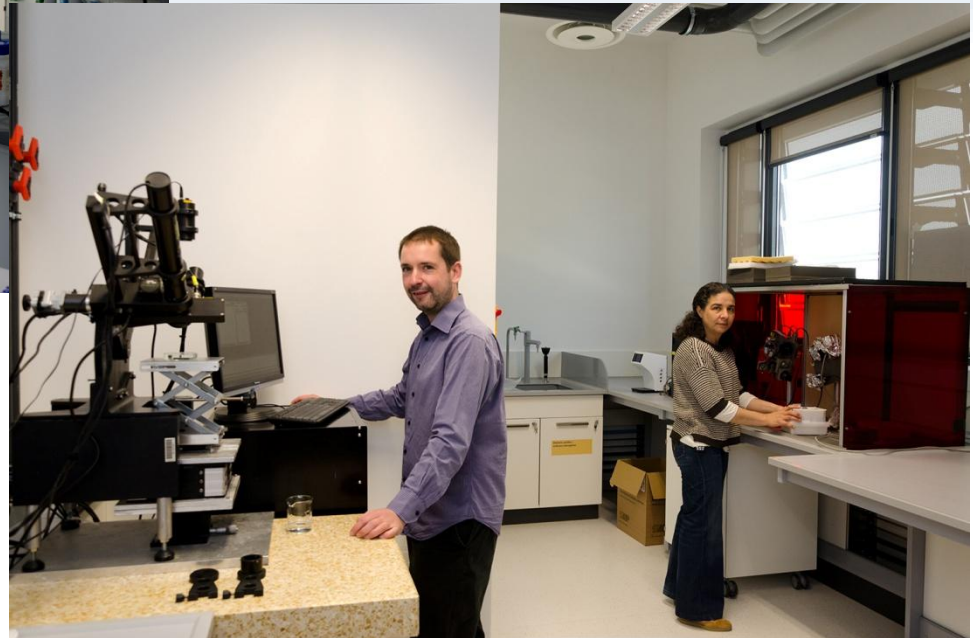
Model protein:
Lysozyme in D_2O
on D33

Sound generated by two
transducers

- interferences
- pressure gradients



Science in the Science Building



**Merci de votre attention
- et bonne assemblée !**

