

The ILL's Millennium Programme

1999 onwards...



It was a Watershed



Let's look at time horizons

The User



2 - 4 years

The Instrument Builder



10 -12 years

The Source Constructor

40 - 50 years

So how do we take decisions?



Let's ask the user community!



So in 1999 5,000 letters were sent out to users



Dirk Dubbers
"No one tells a W3 professor what to do"

Less than 10 replies were received

But that was the start of the Millennium Programme!

Let's concentrate on the forest, the trees and the wood



The Neutron Source



The Instruments



The Science

Reactor Refit Programme The Millennium
Programme

User Interface Facilities
Dlab, PSB, FaME



Millennium Programme Drivers

- Was the ILL still fit for purpose? 5-year Conventions were being talked about...
- ISIS Competitive; Shamelessly building large detectors!
- Get the neutrons from the source to the instruments guides, focussing monochromators
- Detect what you scatter large detectors, modernise the instrument suite
- "More than simply neutrons" the tide was turning
- Demand for User facilities PSB, FaME, C-lab...
- Demand for Reliability
- Demand for Security City of Grenoble Groupe Permanente
- Saint Raymond ASN "We will shut you down!"
- The Reactor Refit Programme
- EIROforum, the ESFRI Roadmap and EU DG Research Togetherness
- Pure undiluted pride in the place but no UK Minister visited during my 7 years



The time was ripe for investment

How much would it cost to rebuild this place?



3B€...?

4B€...?

Investment was called for 1% p.a. is 20-40M€; 2% p.a. is 40-80M€



Where would the money come from?

- The UK going back to 33% David Schildt & EPSRC
- The Associates If we find money, will you match it?
- Realising assets eg Uranium in Y10
- Roadshows & More Partners CZ, SE, HU, BE, PL, DK

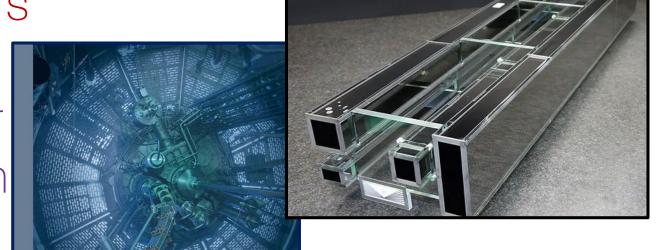






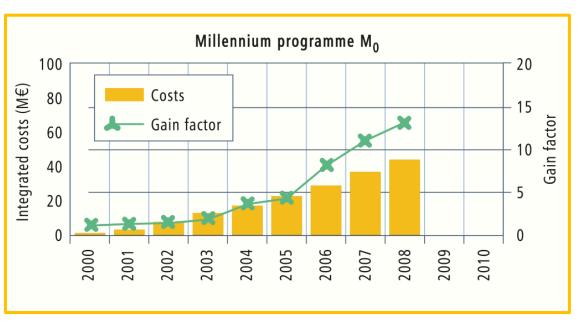
What was achieved?

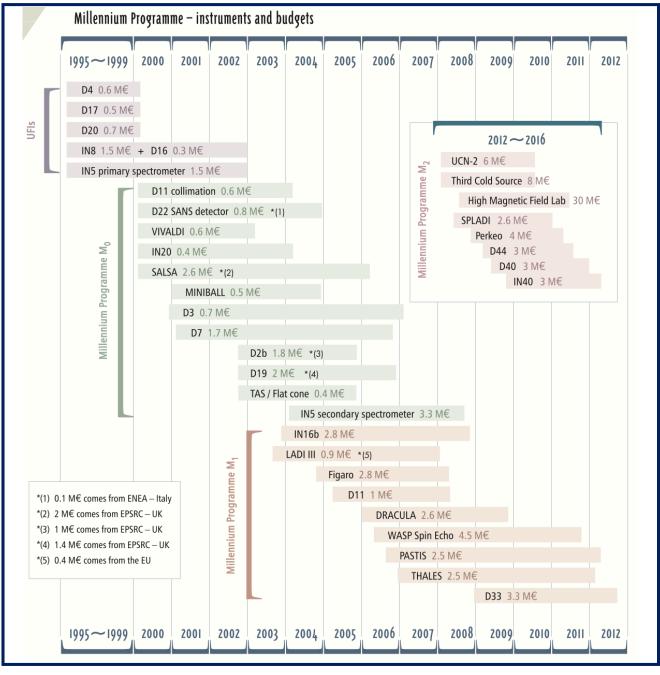
- Instruments comprehensively upgraded
- Neutron Transport beam tubes and guides renewed
- Monochromators/Analysers
- Detectors/Polarisers
- Strengthening the Reactor
- A Long-term strategic plan
- Friendship with ESRF
- Investment in the staff





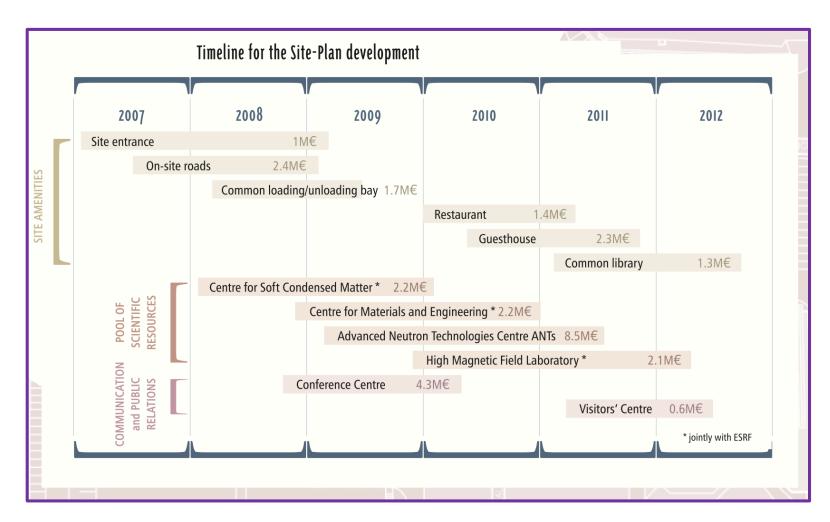
The instruments The costs The payback







Collaboration with the ESRF









What's the Take Home Message?

- This place will never be built again.
- It is still the gold standard
- It is the complete neutron source
- Do not think of shutting it down...
 - unless its scientific output becomes uncompetitive
 - unless it becomes unreliable or unsafe
- So, continue to invest in the place and reap the reward





Congratulations on 50 splendid years!



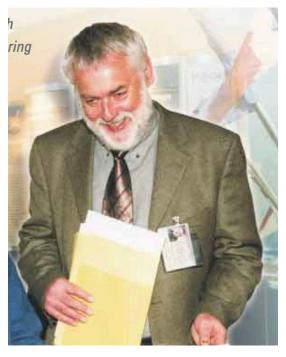
The Future is now the Past so let's look to the Future once again!



Thanks to my fellow Directors







And good luck to Ken!



DD "We are the only neutron source that is run by our rivals"

U 50 Ill

And finally...

a few more people who have helped to define the ILL There are many...







