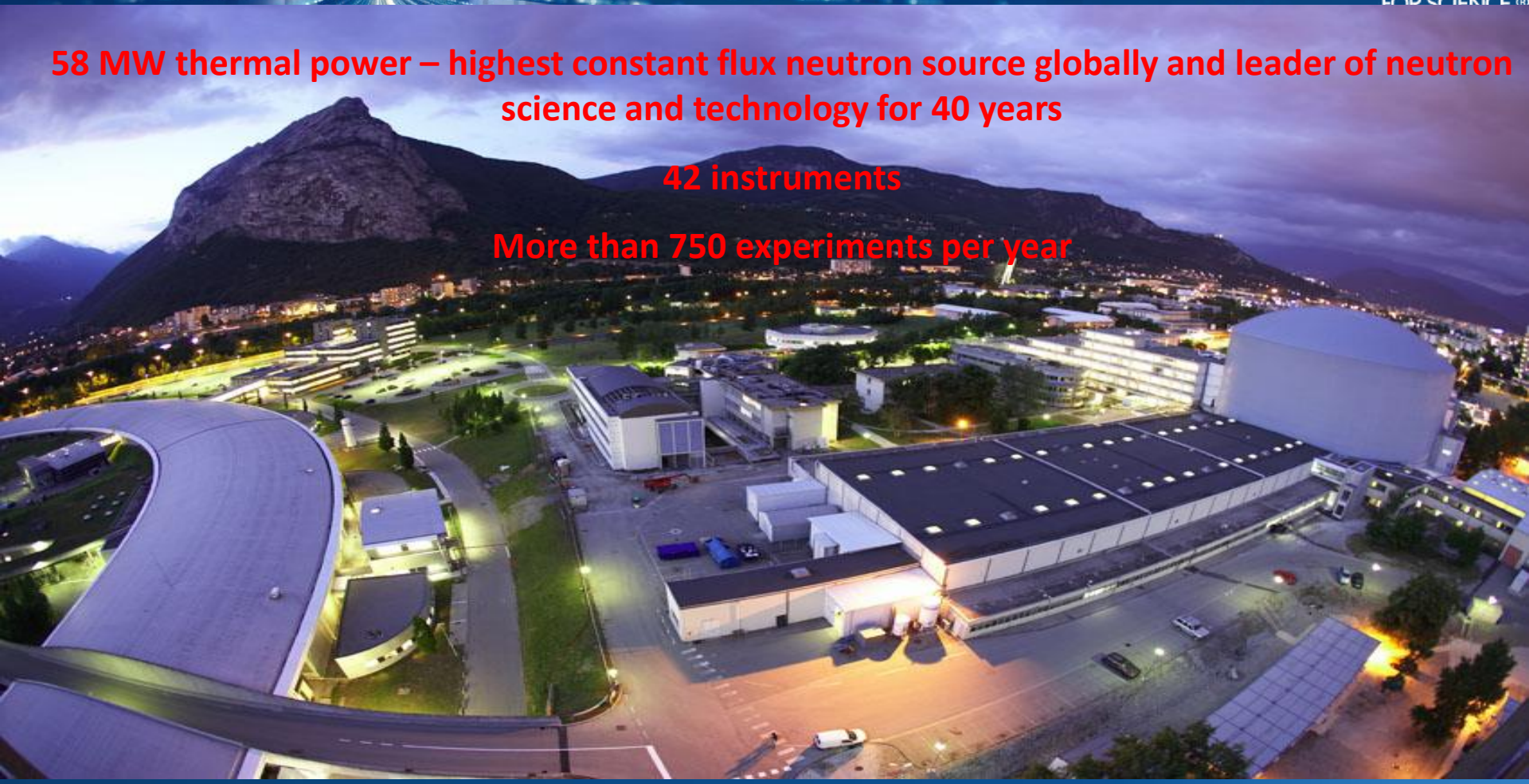
The Institut Laue-Langevin - European neutron source

NEUTRONS FOR SCIENCE



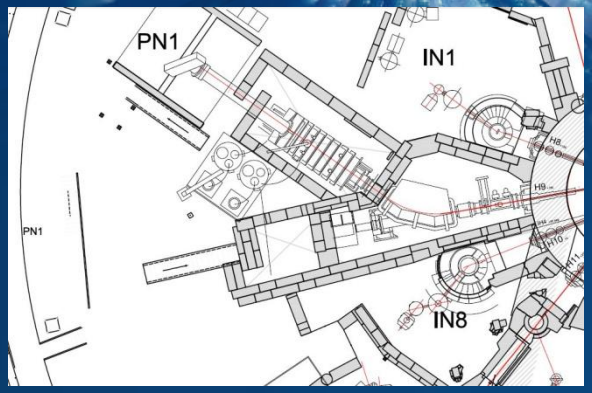
58 MW thermal power – highest constant flux neutron source globally and leader of neutron science and technology for 40 years

42 instruments

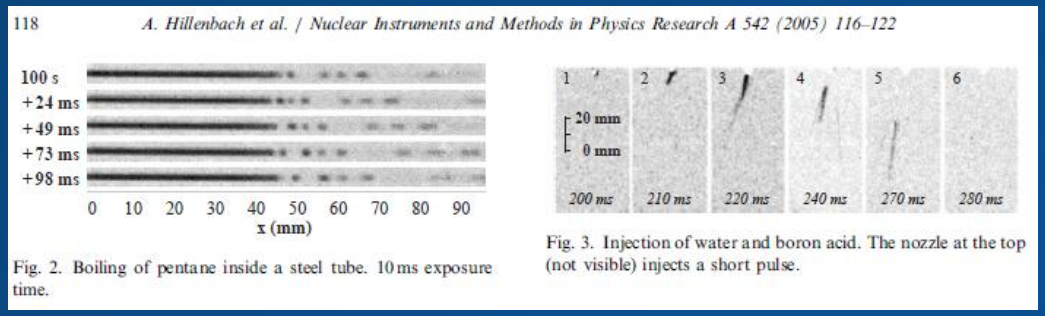
More than 750 experiments per year

IMAGING OPTIONS FOR THE ILL

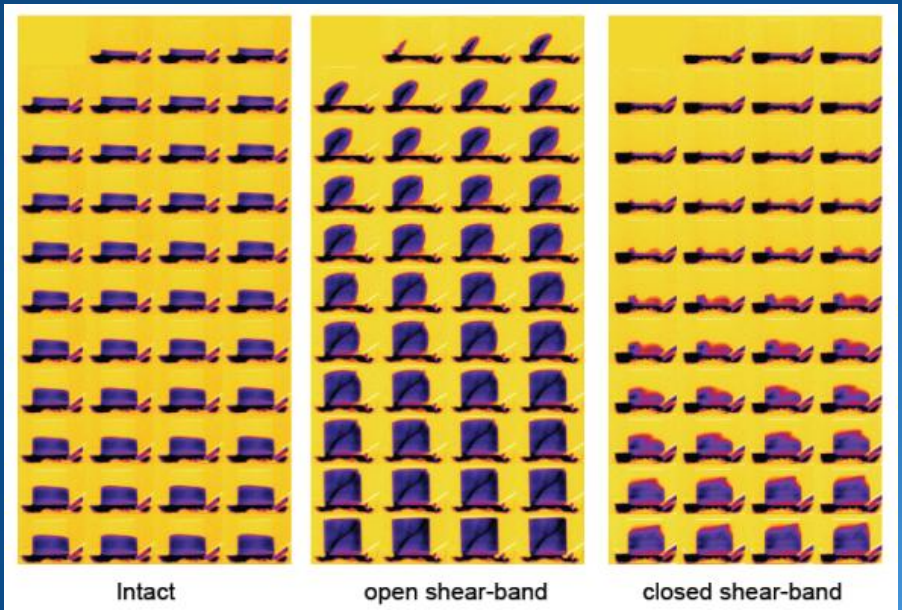
Alex Evans, Institut Laue-Langevin, Grenoble, France



NEUTROGRAPH at ILL Grenoble flux of $3*10^9$ n/cm^{2}s and a collimation of L/D=140. Fast radiography, ms time resolution, sub minute tomo



Electrically driven four-piston BMW engine - Universität Heidelberg, PSI and TU München



Water uptake in shear banded rock –S. Hall, ESS/LUND

IMAGEN

- Cold neutron imaging station on dedicated guide
- High flux $2x10^9$ n cm^{-2} s^{-1}
- White and tune-able mono
- Parallel and focused beam
- Long collimation length available
- Space for grating interferometer/polarisers
- Combined techniques, spatial resolved PGNAA, diffraction, SANS??

- Blank canvas – need support and feedback!
- Partners welcome!