

Welcome

Nigel Fox
Chair CEOS WGCV IVOS

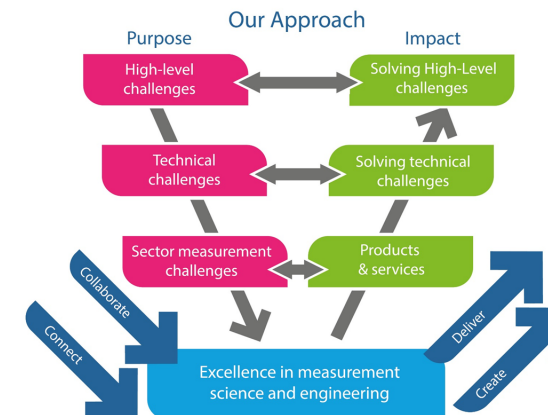
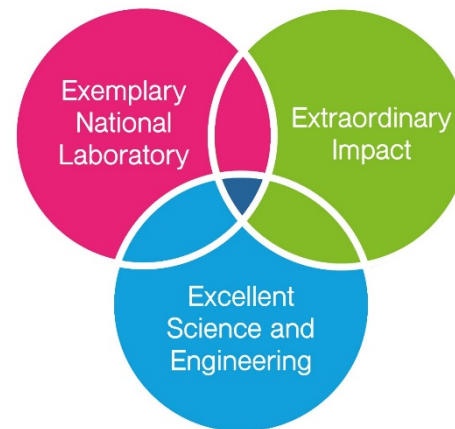
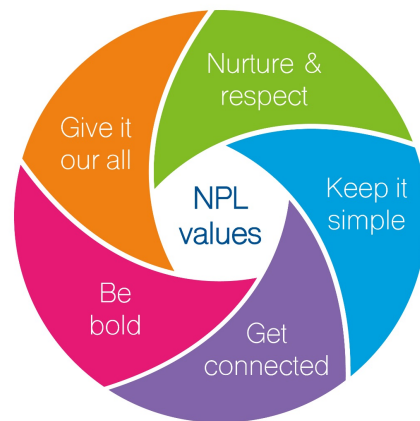


Logistics etc

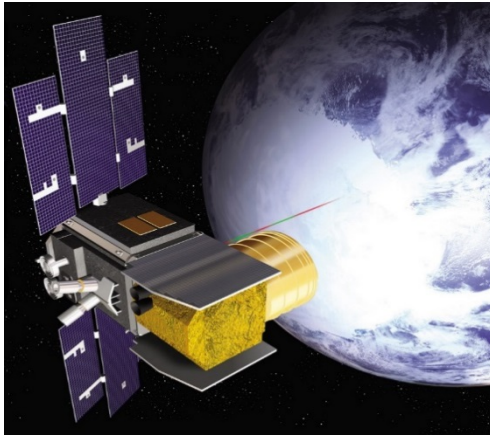
- Fire exits
- Fire alarm test
- Toilets
- Breaks
- Issues!
- Posters
- Presentations – load-up or webex
- Inputs – flip charts
- Filming
- Photos
- Group photo
- Dinner

Who we are

- **UK's National Metrology Institute/ Public Corporation**
- **Formal Partnership between NPL, BEIS and Universities of Surrey and Strathclyde**
- **~750+ staff with ~200 visiting researchers/year**
- **Partner with 200+ organisations and 80+ Universities**



We provide the measurement capability that underpins the UK's prosperity and quality of life



Opening NPL 1902



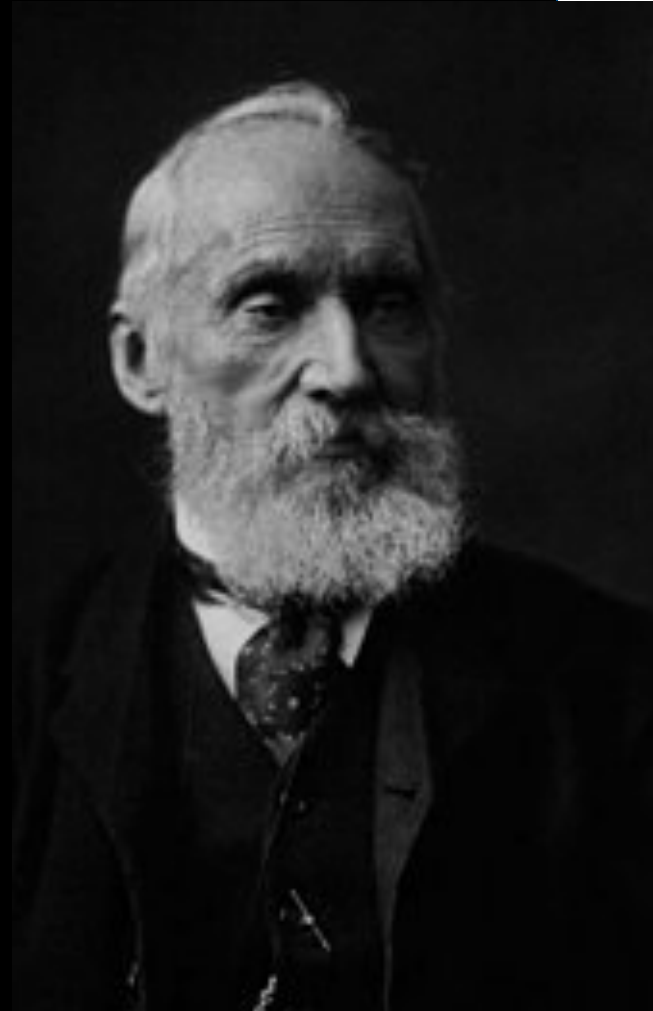
“The object of the scheme, I understand, is to bring scientific knowledge to bear practically upon our everyday industrial and commercial life, to breakdown the barriers between theory and practice, to effect a union between science and commerce.”

Prince of Wales later Edward VII

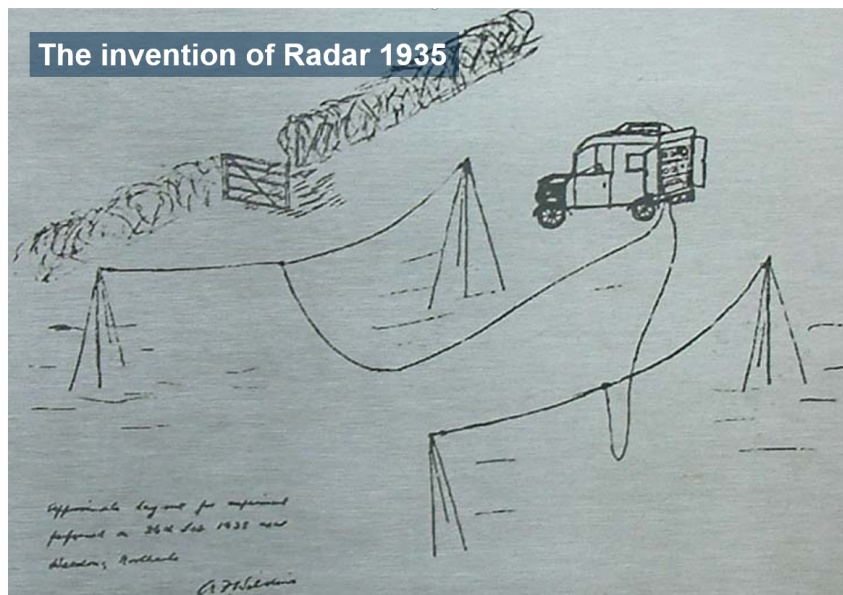


“ When you can measure what you are speaking about and express it in numbers you know something about it; but when you cannot measure it, when you cannot express it in numbers, your knowledge of it is a meagre and unsatisfactory kind”

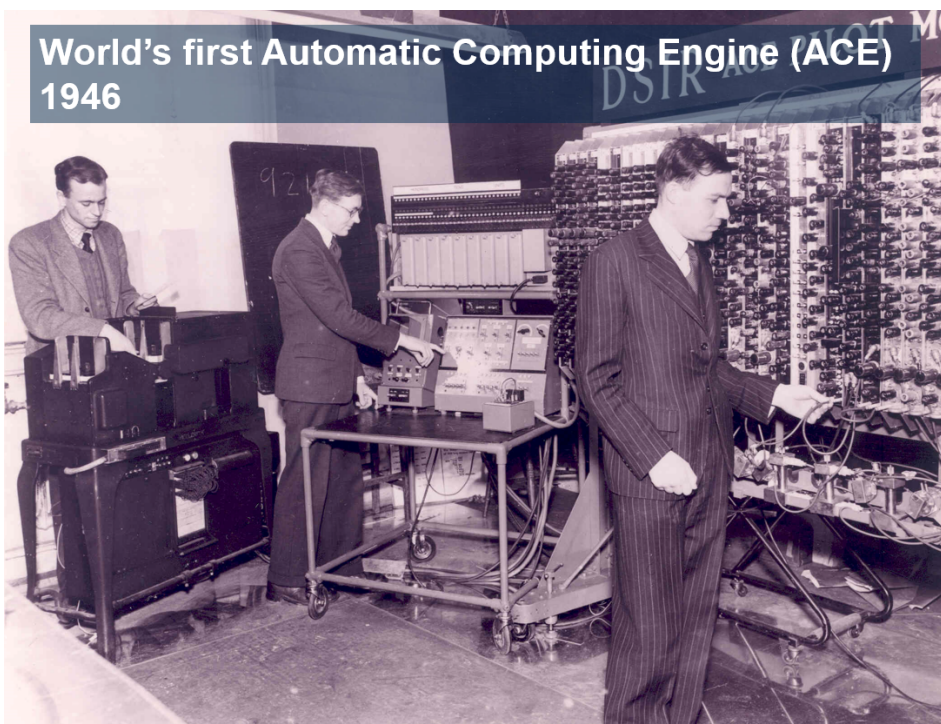
Lord Kelvin



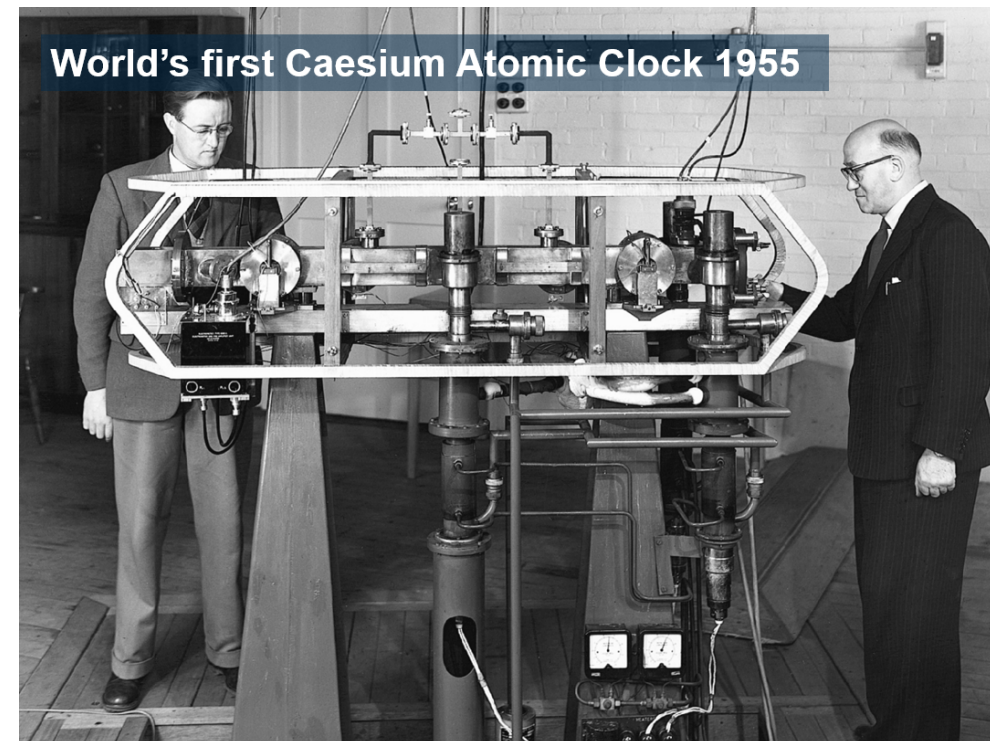
Some NPL 'Firsts!'



World's first Automatic Computing Engine (ACE)
1946



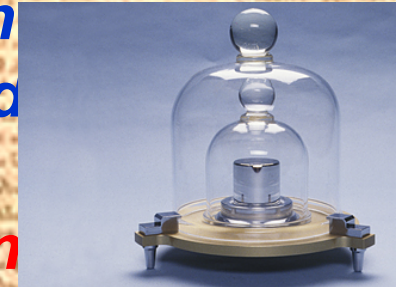
World's first Caesium Atomic Clock 1955



Magna Carta - 1215

*"There is to be one measure of wine and ale
and corn within the realm, namely the
London quarter, and one breadth of cloth,
and it is to be the same with weights."*

**'measurements' (as opposed to observations) of the
Earth if they are to be trusted, meaningful and
able should be treated in the
able to international agreed**



**For EO and Climate ECVs needs some translation &
adaptation of standards and methods:**