

The Beginnings

10th Annual Scientific Meeting 25th June 2018

www.sinapse.ac.uk

The following Universities are charitable bodies, registered in Scotland, with registration numbers as below.















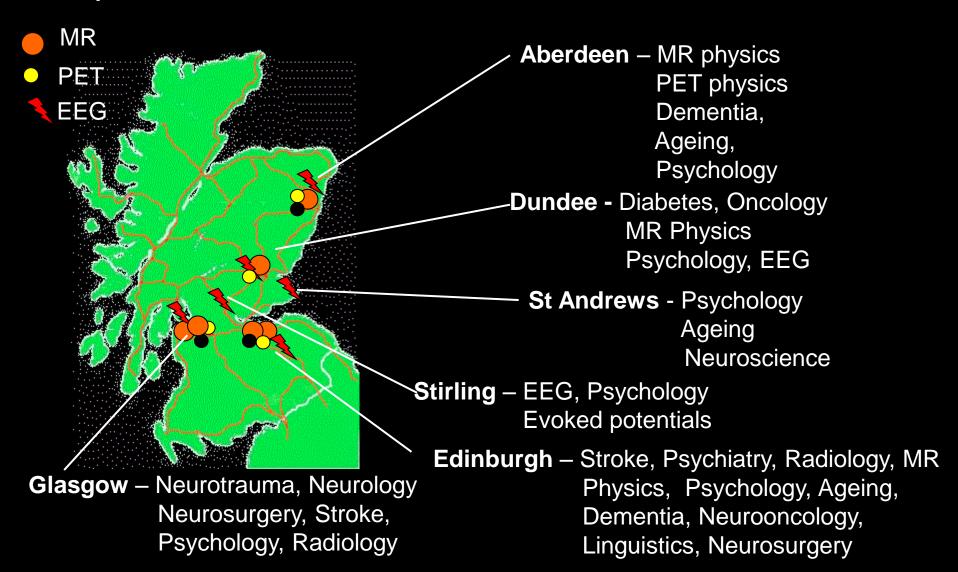


Mid 2000s – how bad was it?

Investment in scanners not matched by increase in expertise:

- 1992 Scottish Office purchased 5 MR scanners
- 2006 36 in total
 - 4 Aberdeen (2 Univ)
 - 5 Dundee (1 Univ)
 - 6 Edinburgh (2 Univ)
 - 17 Glasgow (2 Univ)
 - plus 4 experimental MR systems, all university
- c 100,000 MR exams per year in Scotland (2 million imaging examinations in total)
- 2006 Scot Exec purchased 4 PET scanners predict similar expansion.....

Research: Massive expansion in demand for imaging in research, lots of machines, pockets of expertise and excellence, but little cohesion



Opportunities......

Scottish Science Advisory Committee report

Chief Scientist's Office – "senior academic(s) in imaging"

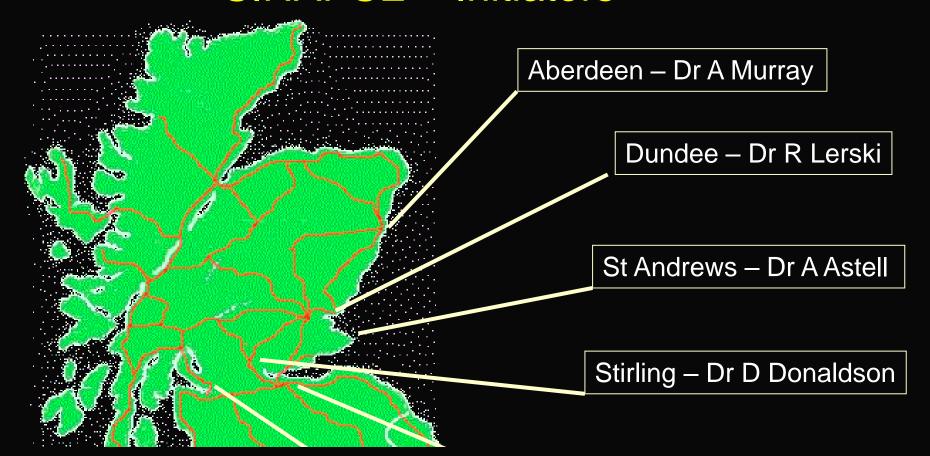
Clinical Research Networks

Translational Medicine Research Centre and Scottish Health Science Centre

Individual collaborative projects

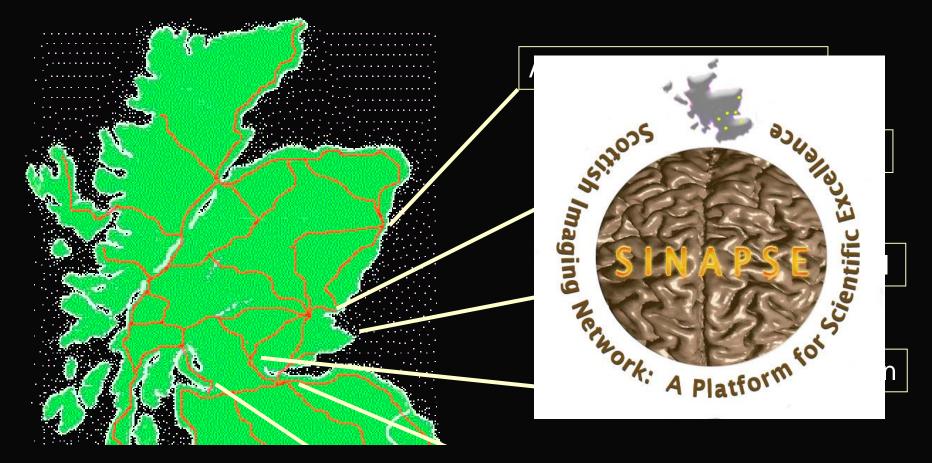
Industry approaches

SINAPSE - Initiators



Scottish Imaging Network: A Platform for Scientific Excellence

SINAPSE – Initiators



Scottish Imaging Network: A Platform for Scientific Excellence

SINAPSE: Goal



A single virtual national clinical imaging research laboratory for 5.5 million people which will be unique in the world

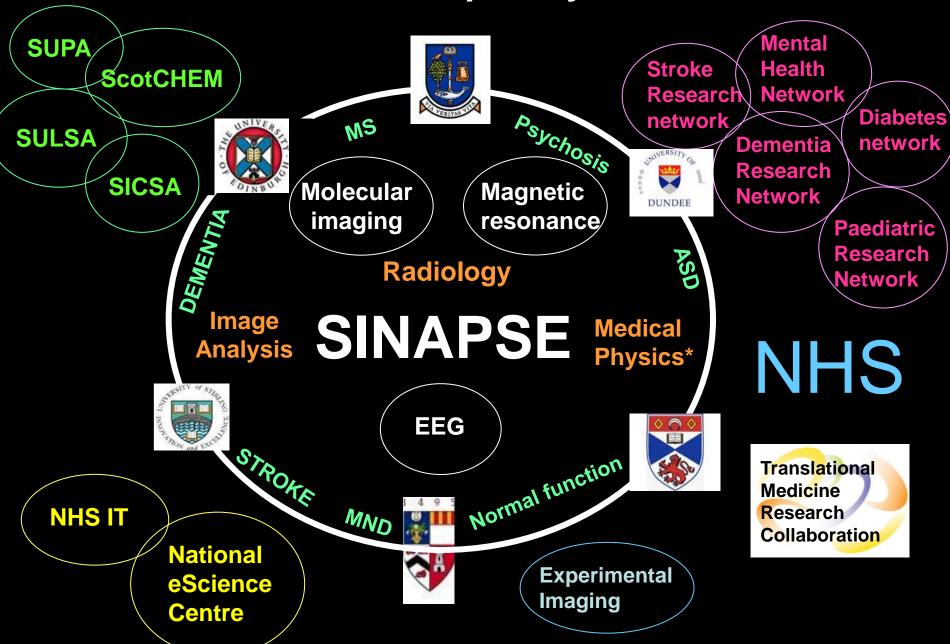
A virtual national training "college" for imaging researchers of the future

SINAPSE – Ambitions and Benefits

- Multicentre and multidisciplinary
- Multimodality
- Stability and critical mass of resarchers
- Shared facilities and expertise
- Harmonisation and standardisation
- Produce the next generation of 5* researchers
- Improve imaging research infrastructure
- Develop novel methods

Improve patient outcomes: translating best research into best clinical practice

A national interdisciplinary research lab



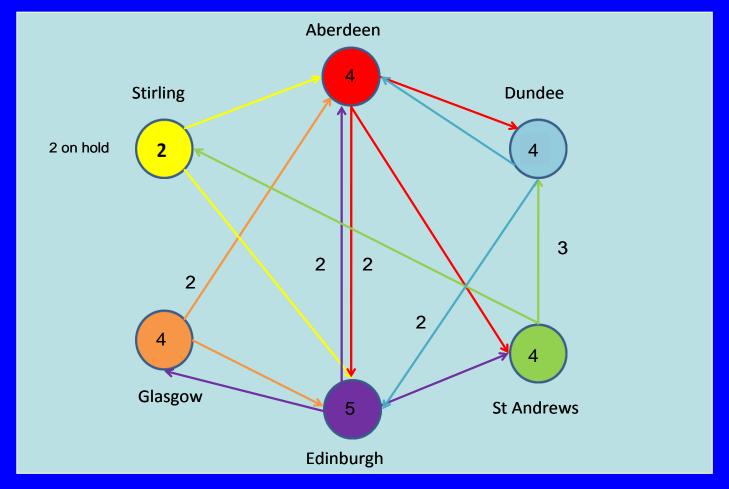
* Includes radiochemistry and related molecular imaging

SINAPSE – filling the gaps

£7.2M SFC, £700K CSO

- Key staff: Chairs 5 (+ 4)
 Midlevel posts 15 (+2)
- Training PhDs 24 (+26)
 Joint projects
 Imaging Graduate School
- Standardised training materials, workshops, networking conferences – rounded future imaging researchers

Cross-Site collaboration was a must SINAPSE Studentships 2009



Insisted on rotating meeting locations, Made sure committees reflected all sites



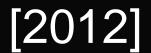


- First two cohorts of SINAPSE PhDs completed, be moving into research community, new posts developing
- Five SINAPSE scientific conferences held, plus numerous subgroup meetings - fermenting new ideas, new collaborations and strategic planning.
- Exchange programmes for students and post docs established with universities elsewhere
- On-line training available and widely used externally, helping to attract more people
- Major EU and US NIH funded collaborations established
- Management committee will have developed strategy for the next five years
- Major international imaging meeting

[2012]



 First two cohorts of SINAPSE PhDs completed, be moving into research community, new posts developing
 c50 PhDs – and they come back!





 Five SINAPSE scientific conferences held, plus numerous subgroup meetings - fermenting new ideas, new collaborations and strategic planning.

> Imaging in Society; Incidental Findings Guidelines International Standards for Small Vessel Disease Brain Image Banking - BRAINS

[2012]



 Exchange programmes for students and post docs established with universities elsewhere
 PECRE

[2012]



 On-line training available and widely used externally, helping to attract more people

MSc, CPD, SINAPSE Grad Schl

[2012]



 Major EU and US NIH funded collaborations established H2020, Leducq, many large trials





 Management committee will have developed strategy for the next five years
 Generated >£40M in new grants;
 and planned SINAPSE 2

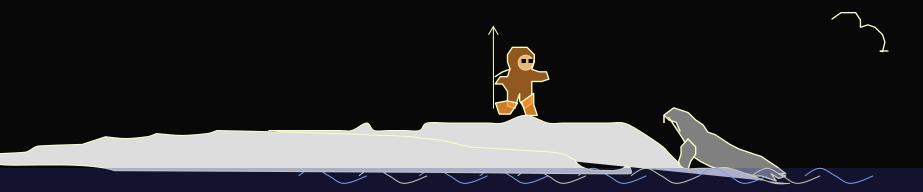




ESNR, ESMRM, MIUA, PET

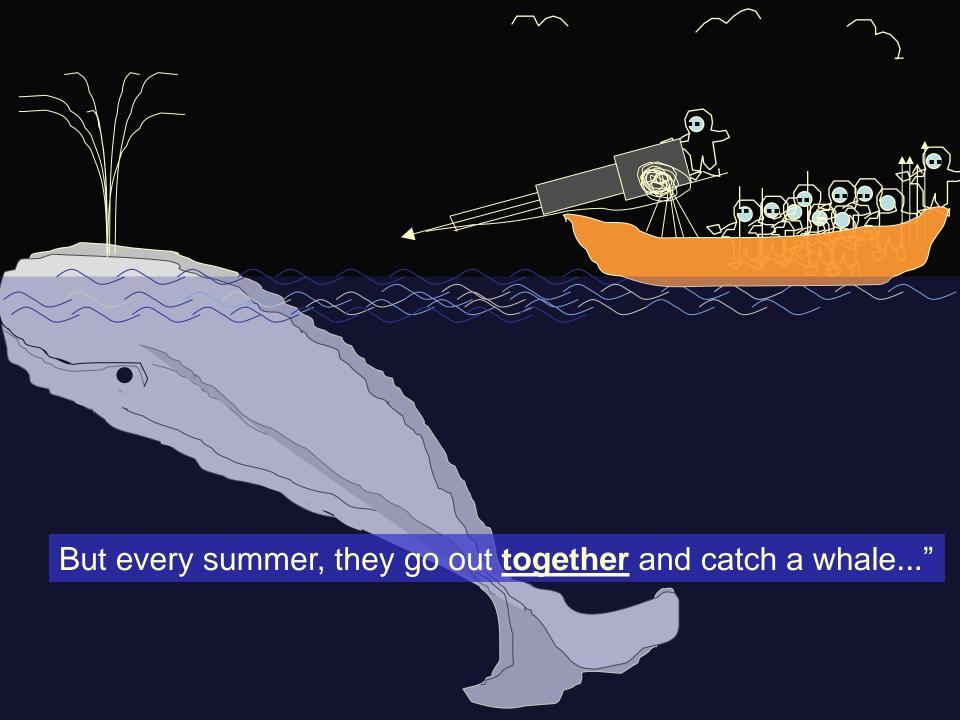
Major international imaging meeting
 Postdoc fellows, more Chairs, Senior Lecturers

SINAPSE – the parts or the whole?



The Inuit have a saying

"Every winter, hunters go out on their own to catch a seal ...





Thank you

Principals – inspired vision Scottish Funding Council **Chief Scientist Office** All imaging departments R+D Departments Clinical Research Facilities

Clinical Research Networks

Poolings - Physics, Chemistry, Biology, Informatics Ongoing thanks to all staff and students