



Report from Room C  
Research Infrastructure - A  
user's view

Nottingham - 6-7 December 2005



Clinical Research Infrastructure

- Clinical Research Centres & Gene therapy facilities – Christian Brechot
- High Security Laboratories – Stephan Gunter
- Human Neuro-Imaging – Richard Frackowiak

Nottingham - 6-7 December 2005



Clinical research infrastructure

- CRCs
  - Drug development and gene therapy
  - ECRIN

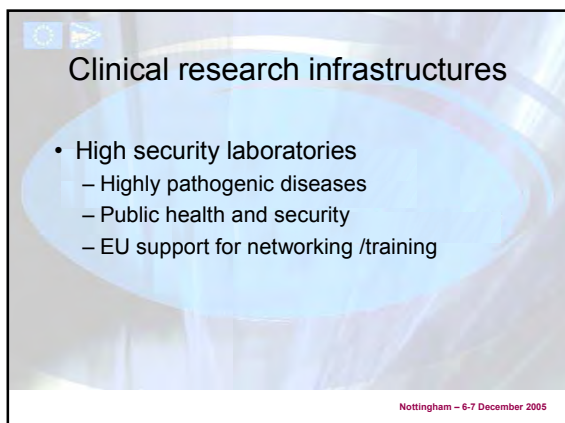
Nottingham - 6-7 December 2005



Clinical Research Infrastructure

- Imaging
  - Understanding brain systems
  - Europe has the leading edge
  - NEURO-SPIN

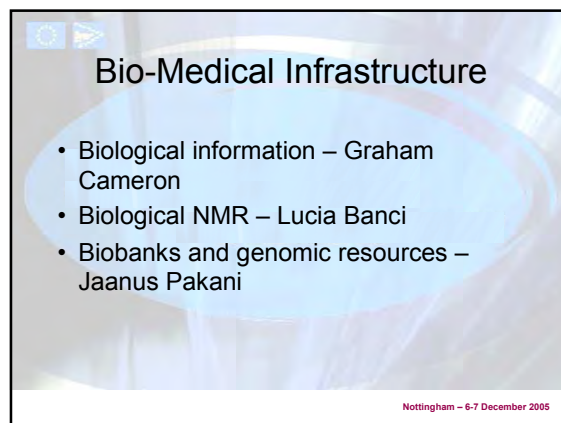
Nottingham - 6-7 December 2005



Clinical research infrastructures

- High security laboratories
  - Highly pathogenic diseases
  - Public health and security
  - EU support for networking /training

Nottingham - 6-7 December 2005



Bio-Medical Infrastructure

- Biological information – Graham Cameron
- Biological NMR – Lucia Banci
- Biobanks and genomic resources – Jaanus Pakani

Nottingham - 6-7 December 2005

**Bio-medical infrastructures**

- Biological information
  - EMBL-European Bio-informatics Institute
  - 1m unique users in 2004
  - Storage of unique information

Nottingham – 6-7 December 2005

**Bio-medical infrastructure**

- Biological NMR
  - Analysis of structures at atomic level in condition approximating to physiological state.
  - Dynamic not static
  - Linked centres of excellence
  - Forum for European Structural Proteomics

Nottingham – 6-7 December 2005

**Bio-medical infrastructure**

- Biobanks and genomic resources
  - Europe has advantage in race for personalised medicine
  - New methodologies to study genetic variations
  - National fragmentation; no common standards; weak power of studies

Nottingham – 6-7 December 2005

**BMS Infrastructure - conclusions**

- Strong user case made in all areas
- Science case appears strong
- Some responses at European level
  - EBI, Neuro-spin
  - Networks – ECRIN, Laboratories
- Much room for further development

Nottingham – 6-7 December 2005

**BMS Infrastructure**

- Variety of forms of infrastructure needed
  - Centralised resource – EBI, NEURO-Spin
  - Linked centres of excellence – laboratories and NMR
  - Distributed and networked – CRCs, biobanks

Nottingham – 6-7 December 2005

**Environment Research Infrastructure**

- Global change and the Earth system – Jochem Marotzke
- OASIS – space monitoring – Hervé Jeanjean
- Natural history collections – Vanessa Pike
- GMES programme – Huw Hopkins

Nottingham – 6-7 December 2005

## Environment Infrastructure

- Global change and earth systems
  - To understand, monitor and predict changes to earth systems
  - Space, sea, underwater and surface
  - Europe's research position under threat
  - Supercomputing is the key challenge
    - Software development
    - Archiving information

Nottingham – 6-7 December 2005

## Environment infrastructure

- OASIS
- Only EU infrastructure able to provide information on the world environment as it evolves
- Potential EU wide infrastructure

Nottingham – 6-7 December 2005

## Environment Infrastructure

- Natural history collections
  - Models of earth's biodiversity over time
  - FP6 – Synthesys
  - Create single virtual collection

Nottingham – 6-7 December 2005

## Environment Infrastructure

- GMES
  - European satellite data for monitoring environment
  - Decision taken to proceed
  - Problem of archiving data
  - Consolidating data from other sources

Nottingham – 6-7 December 2005

## Environment Infrastructure- conclusions

Space is important but only 10% of data  
 Joint observation is vital  
 Super computing crucial for future  
 Must be a commitment to continuity  
 Making information available at the right time  
 Central and distributed infrastructure needed

Nottingham – 6-7 December 2005

## Social Sciences and Humanities

- Rationale and priorities – Kevin Schurer
- European Social Survey – Roger Jowell
- Cultural heritage – Jana Kolar
- Language technologies – Tama Varadi

Nottingham – 6-7 December 2005



## HSS Infrastructure - Conclusions

- HSS case hampered by fragmentation of the scientific arguments
- Data, information and knowledge are scattered in space & divided by language & institutional barriers
- Work together for a better functioning of RI in the two areas

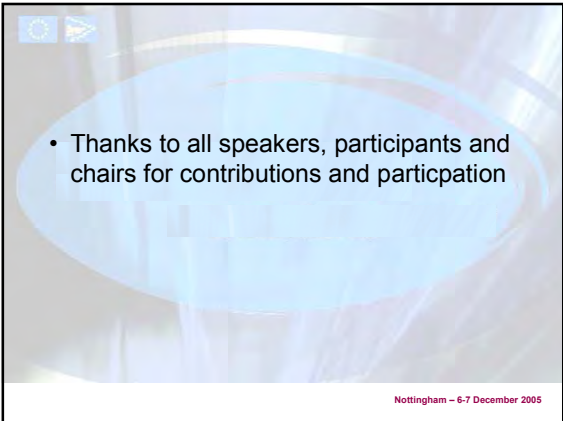
Nottingham - 6-7 December 2005



## HSS Infrastructure - conclusions

- Establishment of RI for the HSS area is now on agenda of scientific community and of funding agencies
- Needed for an ERA that includes all disciplines
- Work underway & first draft next summer

Nottingham - 6-7 December 2005

- 
- Thanks to all speakers, participants and chairs for contributions and participation

Nottingham - 6-7 December 2005