What is.....ESFRI, EuroBioimaging, and BioimagingUK?

Jemima Burden, Raffaella Carzaniga, Jeremy Skepper, Paul Verkade.





ESFRI: European Forum on Research Infrastructures

European Roadmap for pan-European research infrastructures

- 1. ELIXIR Upgrade of European Bioinformatics Infrastructure
- 2. INSTRUCT Integrated Structural Biology Infrastructure
- 3. Infrafrontier phenotyping and archiving of model mammalian genomes
- 4. BBMRI European Biobanking and Biomolecular Resources
- Euro-Bioimaging Biomedical Imaging
- 6. EMBRC European Marine Biology Resource Centre
- 7. EU-OPENSCREEN screening platforms for chemical biology
- 8. EATRIS advanced translational research in medicine
- 9. ECRIN Infrastructures for Clinical Trials and Biotherapy
- 10. European High Security BSL4 Laboratories





Timeline & Costs

Continuous technology

evaluation to improve service

Preparatory
Phase

Construction
Phase

Phase

Phase

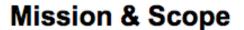
Provision of access and major upgrades of

Provision of access and training

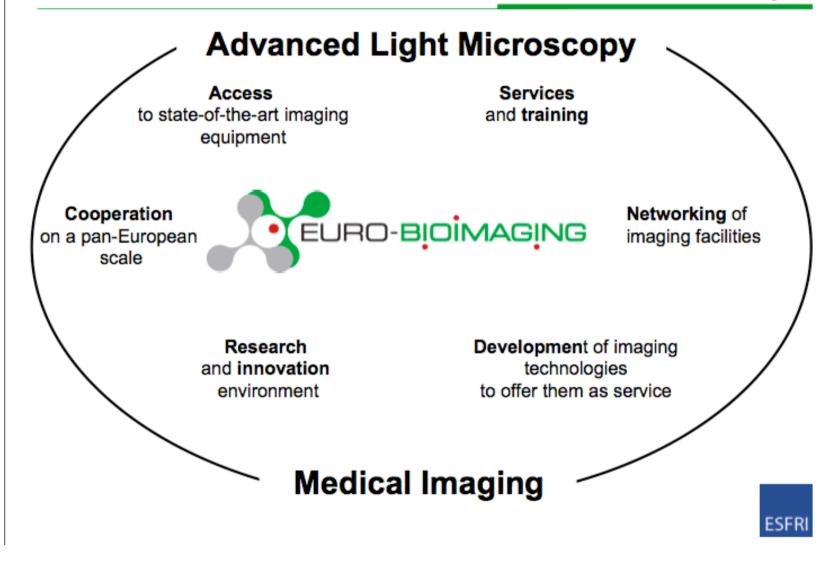
4-6 Mio € funded by funded by funded by EC Member States Member States

existing facilities

ESFRI

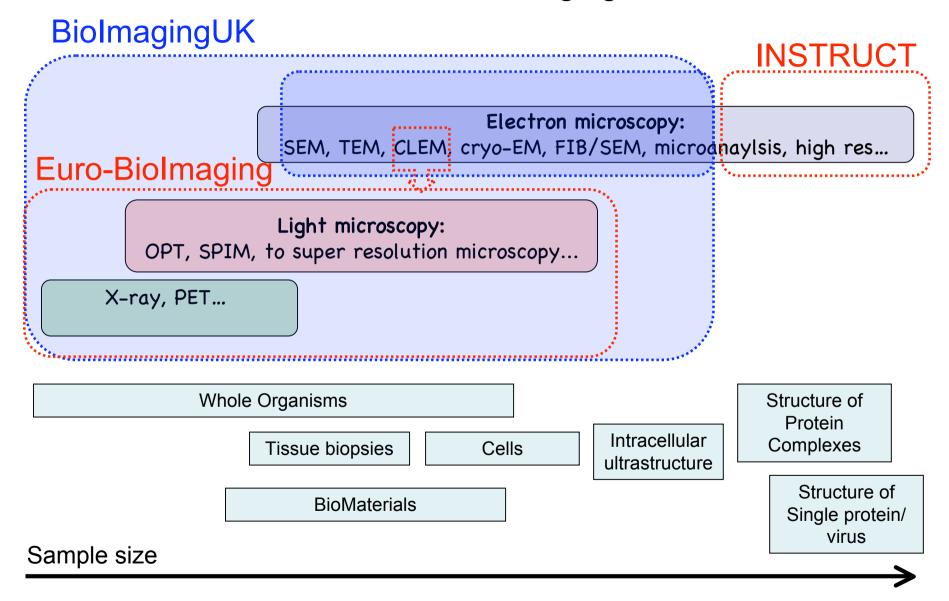






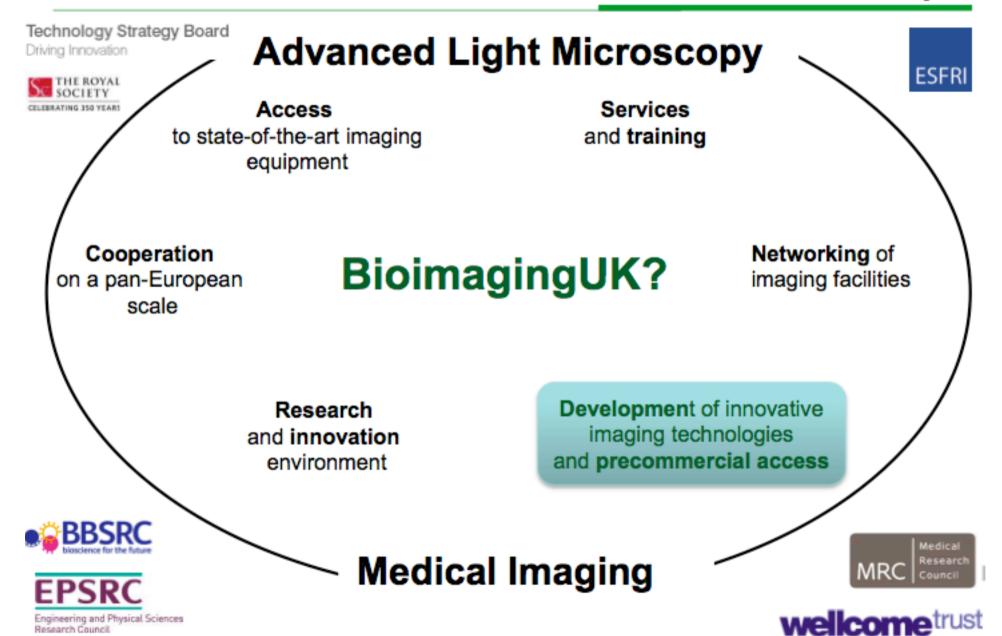
BioImagingUK is the response to EuroBioImaging

BioMedical Imaging



BioimagingUK

Mission & Scope



BioImagingUK: Aims

- 1. Define, build and use tools to enable shared access to the general and specialised expertise based in life sciences imaging laboratories and facilities throughout the UK.
- 2. Engage our departments, universities, and funding bodies to develop career models for the personnel that develop, maintain, and enable advanced imaging technology for the life sciences.
- 3. Work to define new training programmes, to provide the foundation for the next advances in life sciences imaging within the UK.
- 4. Together, based on these premises, define short and long-term strategy statements to our research funding bodies, in order to help articulate funding requirements and priorities.

Actions for Biolmaging UK: from November 2009 meeting

	Working Group	Topics	Members	Pages & Resources
Imaging Infrastructure	Showcase & Access for existing commercial methodologies	Defining criteria, policies, etc. for access to facilities with advanced, turnkey imaging technology already available in UK	???	
	Access to precommercial imaging technology	Defining policies, licensing, and funding models for making alphas and beta level technology available community for testing and development	Brad Amos	Brad Amos Letter to Nature ₪
	Software tools & Data Management	Defining strategy for delivering software tools for data management, data archiving, and data analysis	Jason Swedlow, Paul Thomas, Daniel Zicha and	OME₽
	Careers	Defining policies and funding models to enable long-term career development and security for personnel dedicated to development and access of the latest imaging technology	???	
	Sustainability	Defining strategies and funding models for maintaining imaging infrastructure and facilities in the UK	Martin Spitaler, Paul French, Lucy Collinson,	
	Connectivity	What are the most valuable synergies between biological microscopy, research in vivo imaging, and medical imaging?	???	
	Access Policies for Visitors, Animals, Patients	How will access to UK imaging facilities and infrastructured be made available and harmonised?	???	
Scientific Themes	Higher optical spatial resolution	Tools for single molecule imaging and superresolution microscopy	Ann Wheeler, Gail McConnell, Dave Clarke, Ian Dobbie, Mark Neil, John Girken, Andrew Carter	
	Electron imaging	Tools for microscopy, tomography, correlative imaging	Jemima Burden, Raffaella Carzaniga, Jeremy Skepper	
	Higher speed/content/throughput functional imaging	Tools for screening by imaging	Paul French, Alessandro Esposito, Nick Barry	
	More physiological (in vivo) imaging	Tools for in vivo research imaging	John Girkin, Theresa Ward, Kurt Anderson, Chris Dunsby, Ana Maria Calcagno Pizarelli	
	Probes & Biosensors	Tools for new labelling technologies, multi-modality imaging, label free	Alessandro Esposito, Gail McConnell,	

Conclusions:

- BioImaging UK is our national response to EuroBioImaging
- Assess the real present and future imaging needs of the Biomedial research community for all technical disciplines
- National funding bodies are encouraging a "community voice".
- Engage EM community you guys!

Do you want to get involved?

Useful web links:

- www.eurobioimaging.eu/
- www.bioimaginguk.org/index.php/BioImagingUK/
- Contact us...

Thanks!