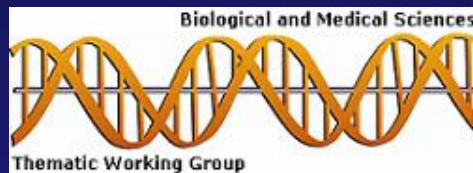


ESFRI

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Federal Ministry
of Education
and Research

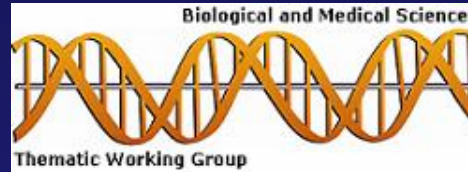
Biological and Medical Sciences Thematic Working Group (BMS TWG) of the European Strategy Forum on Research Infrastructures (ESFRI)

Chair: Eckhart Curtius

EuroBiomagin 1st Stakeholder Meeting, September 21st – 22nd 2009, Heidelberg

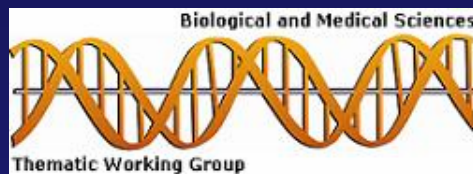


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The History of ESFRI:

- **Set up in 2002 by the Competitiveness Council**
- **Meeting of senior representatives for informal consultations on strategic issues related to Research Infrastructures**
- **Independent from the Commission**
- **33 Member States (and the European Commission)**



2004: Mandate from the Competitiveness Council to develop a European Strategic Roadmap for Research Infrastructures (see below)

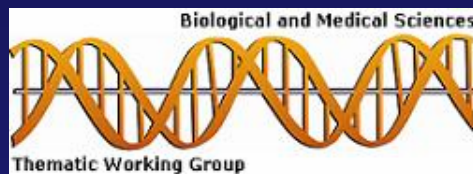
2006: European Roadmap for Research Infrastructures (35 Research Infrastructure proposals)

2007: Mandate from the Competitiveness Council to update this roadmap at regular intervals

2008: Update of the European Roadmap for Research Infrastructures (44 Research Infrastructure Proposals)

2010: 2nd update of the European Roadmap for Research Infrastructures

- ❖ to describe the scientific infrastructural needs for the next 10 to 20 years
- ❖ to identify vital new European Research Infrastructures of different size and scope
- ❖ to include medium-sized infrastructures and those in the fields of humanities and biological and medical sciences including bio-informatics

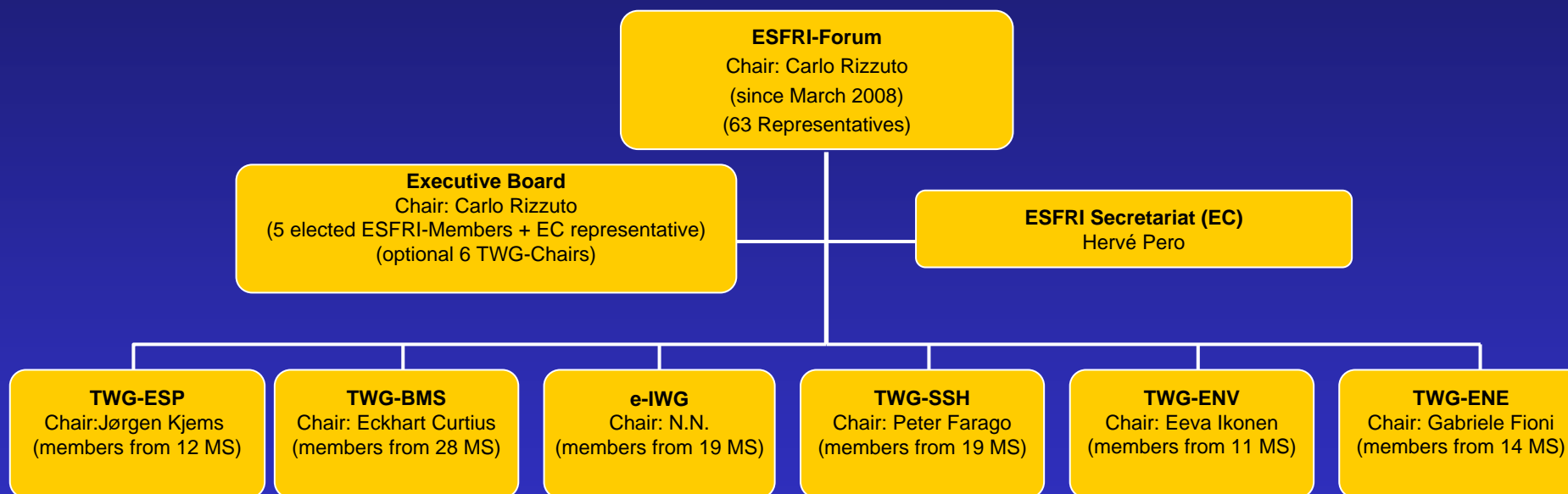


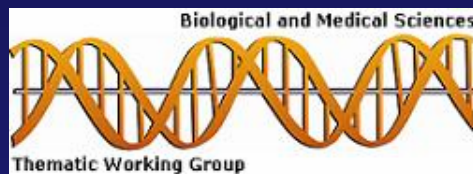
ESFRI established 6 Thematic Working Groups:

- ❖ **Engineering Sciences and Physics (ESP)**
- ❖ **Biological and Medical Sciences (BMS)**
- ❖ **Social Sciences and Humanities (SSH)**
- ❖ **Environmental Sciences (ENV)**
- ❖ **e-Infrastructures (e-IWG)**
- ❖ **Energy (ENE)**



Operational Structure



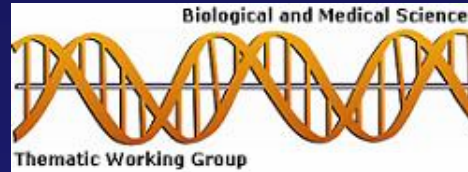


Research Infrastructures in the Biological and Medical Sciences (BMS)

- New or upgrade of facilities that provide essential services to the biological and medical scientific community for basic or applied research
- Include libraries, databases, biological archives, networks
- Be single-sited', ,distributed' or ,virtual'
- Necessary tools for the future to undertake science in the biological field at the cutting edge



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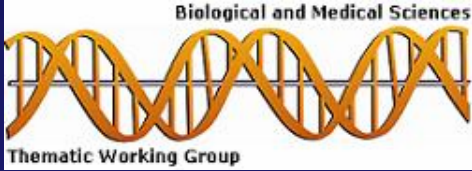


Maturity of an ESFRI Infrastructure:

- One topic – one common proposal
- Openness
- Scientific excellence
- Transparency
- One / max. two coordinator(s)
- Definition of interfaces to other ESFRI proposals
- Offering service for cutting edge research rather than performing research itself
- After being on the roadmap - implementation of the ESFRI proposal rather than rewriting of the approved initiative



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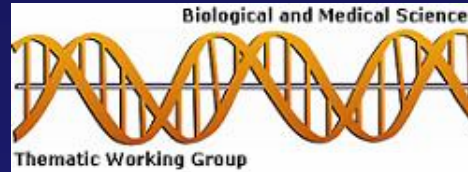


New Scope of the BMS-TWG

Biological Sciences		Biological Resources and Production Systems			Medical Sciences			
Evolution and diversity of organisms covering zoology and botany	Physiology of organisms including anatomy; Interaction of organisms (behaviour and ecology)	Plants, Animals, Micro-organisms (Bio Energy and Bio Fuels)	Sustainability Safety and Quality, Health and Welfare (Infectious Livestock Diseases, Zoonoses)	Human Nutrition (Agrifood / Human Nutrition Research Centres)	Epidemiology (Molecular Biology Screening facilities, Systems Biology)	Prevention (Vaccination) Diagnosis (Imaging, High Security Labs)	Therapy (Chemical Biology Libraries, Ligand Binders)	Public Health



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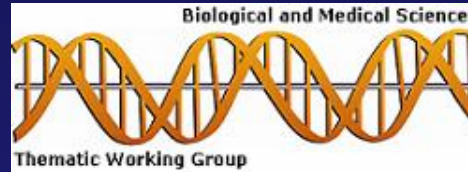


The six BMS Research Infrastructures on the ESFRI Roadmap 2006:

- **BBMRI** – Bio-Banking and Molecular Resources
- **EATRIS** – European Advanced Translational Research Infrastructure in Medicine
- **ECRIN** – Network of Distributed Infrastructure for Clinical Trials
- **ELIXIR** – European Bio-informatics Infrastructure
- **INFRAFRONTIER** – Functional genomics in the Mouse as a model for human disease
- **INSTRUCT** – European Integrated Structural Biology Infrastructure



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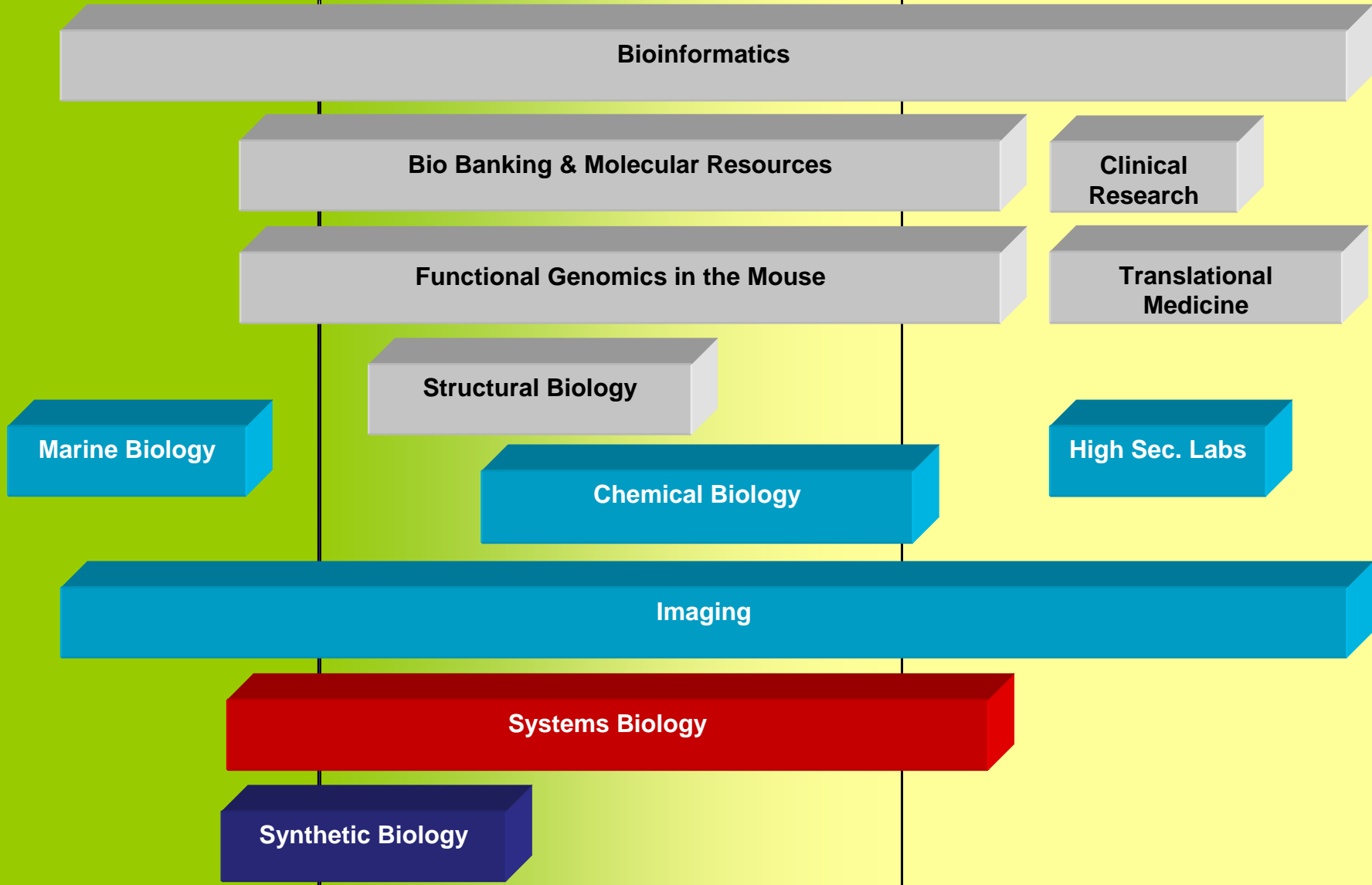
The four BMS Research Infrastructures on the updated ESFRI Roadmap 2008:

- **EU-Openscreen** – European Infrastructure of Open Screening Platforms for Chemical Biology
- **Euro Bio-Imaging** – European Biomedical Imaging Infrastructure
- **HSL4** – European high security BSL4 laboratories building and networking
- **EMBRC** – European Marine Biological Resource Centre

Biological Sciences

Biological Resources & Production Systems

Medical Sciences





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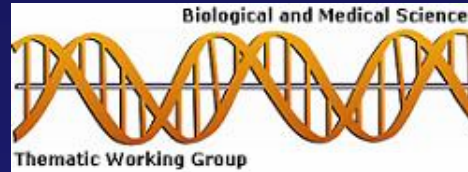


Mandate of the BMS TWG

- 1) **Monitoring of the scientific development and the need for RIs in the thematic area, in consultation with existing relevant scientific organisations**
- 2) **Following the implementation of the projects on the ESFRI Roadmap and giving expert feedback to ESFRI – eg on the needed coordination between different projects in the area**
- 3) **Advising ESFRI on whether projects should remain on future editions of the Roadmap, and following a decision by ESFRI, to evaluate possible proposals according to the agreed procedure for the update of the Roadmap**



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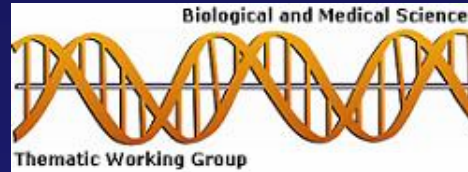
Mandate of the BMS TWG

- 4) Advising ESFRI on potential improvement in the pan-European availability and management of existing RIs
- 5) Coordinate interdisciplinary activities with the other TWGs



European Research Infrastructure Consortium (ERIC)

- Regulation decided by Comp. Council on June 25th 2009
- Legal personality recognised in all Member States
- The host Member State shall recognise the ERIC as an international body in the sense of the VAT exemption and the public procurement regulations (art. 5 para. 1 (d))
- Significant cut down of the time necessary for setting up legal entities for European RIs
- Establishment of a management committee with representatives of Member States



Next step: Preparatory Phase (PP)

- All 11 ESFRI Roadmap initiatives are eligible for the call of the European Commission
- Deadline for proposals: December 3rd 2009
- Available budget: 45 Mio. € (max. EC contribution up to 6 Mio. €)
- Inclusion of as many as possible MS / funding agencies within the PP consortium

Proposals should especially identify:

- critical bottlenecks to be solved before the construction phase
- Specific relevance for each RI like governance / training / access
- Impact studies as well as feasibility actions



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Overview timetable PP

Project	start date	duration	Jul 07	Jan 08	Jan 09	jan10	jan2011
BMS							
BBMRI	01.02.2008	27					
EATRIS	01.01.2008	36					
ECRIN	01.03.2008	36					
ELIXIR	01.11.2007	38					
EMBRC							
EU-OPENSREEN							
EURO-Biolmaging							
High Security BLS4 laboratories							
INFRAFRONTIER	01.03.2008	36					
INSTRUCT	01.04.2008	24					



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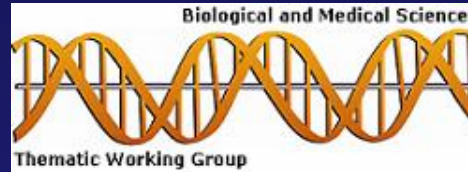
ESFRI 2nd update process – BMS TWG



Spring 2010: Final Draft BMS Report



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Thank you for your attention!

<http://cordis.europa.eu/esfri/>

<http://www.nks-lebenswissenschaften.de/nksmenu/eigeneprojekte/esfribms>