



Research Infrastructures

An overview of FP7 support in the domain of Life Sciences

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**European Commission,
DG CONNECT, Unit C1 eInfrastructure
DG RTD, Unit B3 Research Infrastructures**



The European research landscape

- **About 500 000 Life Scientists**

- ✓ Total of 2.1 Million researchers (in head-count) in the EU in 2009 (1.5 Million in full time equivalent)
- ✓ 22.5 % of doctoral candidates in “Health and Welfare” and “Agriculture and veterinary” (ISCED6 in 2009)

- **Research infrastructures for Life Sciences**

- ✓ An ecosystem of facilities and resources, from a local to worldwide dimension
- ✓ An important role for European Molecular Biology Laboratory (EMBL, 1978)
- ✓ 12 infrastructures identified by ESFRI in its roadmap
- ✓ EGI: 17 Virtual Organisations in Life Sciences with 1338 members: virtual collaborations, shared workflows
- ✓ e-infrastructures increasingly essential to address BMS needs



FP7 projects for Life Sciences

(42 projects, ~ 231 M€ of EU funding)

Developmental biology
Neurosciences
Physiology
Human diseases
Clinical research
Microbiology
Biotechnologies
Food research
Nutrition
Livestock production
Plant sciences

Imaging facilities

Euro-BioImaging, neuGRID, outGRID, DECIDE, N4U

Biological Resource Centres

BBMRI, EMBRC, EU-Openscreen, INFRAFRONTIER EMMAservices, EMBaRC, EVA, Infravec, EUPRIMnet-II, Assemble, InfraComp

Genomics and proteomics research facilities

INSTRUCT, Bio-NMR, East-NMR, Pcube, BioStruct-X, ESGI, Prime-XS, eNMR, WeNMR, ERA-Instruments

Medical research facilities

ERINHA, EATRIS, ECRIN, ECRIN-IA, Transvac, ULICE

Food and agriculture research facilities

NADIR, AQUAEXCEL, EPPN, Trees4Future, transPLANT, ERIN

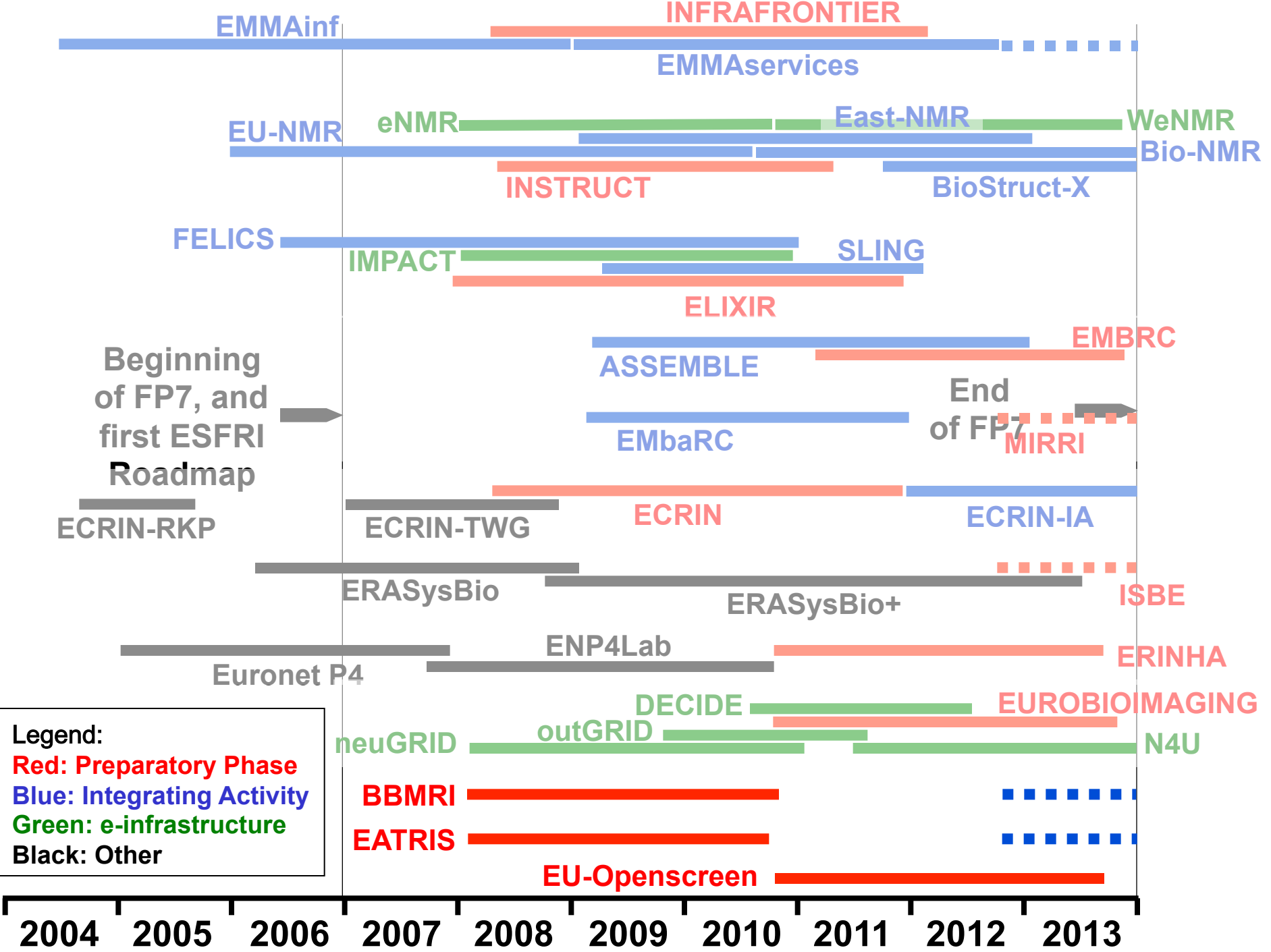
Bioinformatics resources

ELIXIR, SLING, IMPACT, BioMedBridges



Thematic coverage

- **FP7 offered an opportunity to very significantly broaden the thematic coverage of infrastructures for the Life Sciences, including Agriculture**
- **The vast majority of funded FP7 projects correspond to priorities as expressed in several national roadmaps for infrastructures**
- **Still, some communities of this domain are not covered by FP7 projects, especially the long tail**



Beginning of FP7, and first ESFRI Roadmap

End of FP7



THANK YOU

