ELIXIR connects national centres and EMBL-EBI to build a sustainable European infrastructure for biological research data.

www.elixir-europe.org
Building on a strong and organised scientific base in each country

- **ELIXIR** Nodes are funded nationally – with national priorities

- Develop trust and strong relationships with national policy makers

- **ELIXIR** Nodes provides a national and international framework for long-term resource management.
Orchestrating trans-national services

- Access **ELIXIR** Services across the infrastructure – single login

- Build on established authentication standards
Open access life science data is intensively reused

Biosimulation market worth $1bn/yr (2015)
http://www.marketsandmarkets.com/Market-Reports/biosimulation-market-838.html

PDB – open protein structure archive founded in 1971
Open access life science data is part of the bioeconomy infrastructure

2010-2015:

30 771 patents used bioinformatics repositories to identify genes, enzymes, SNPs, ...

Vaccines  Pharmaceuticals  Beauty care  Industry enzymes  ...

Bousfield D, McEntyre J, et al. Patterns of database citation in articles and patents indicate long-term scientific and industry value of biological data resources.
Open Data requires organisation and infrastructure
Thank you

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Research infrastructure for Open access life science data – Core Data Resources

Findable
Accessible
Interoperable
Reusable

Gene Expression Studies
Inherited disease (OMIM)
DNA Variations (SNPs)
Protein Data Bank

DOIs (‘long tail’)
European Nucleotide Archive

Impact