



ELIXIR

Life science community update for the 7th Federated Identity
Management for Research Collaborations 23.-24.4.2014 at ESA, Frascati
ITALY

Tommi Nyrönen and Mikael Linden, CSC



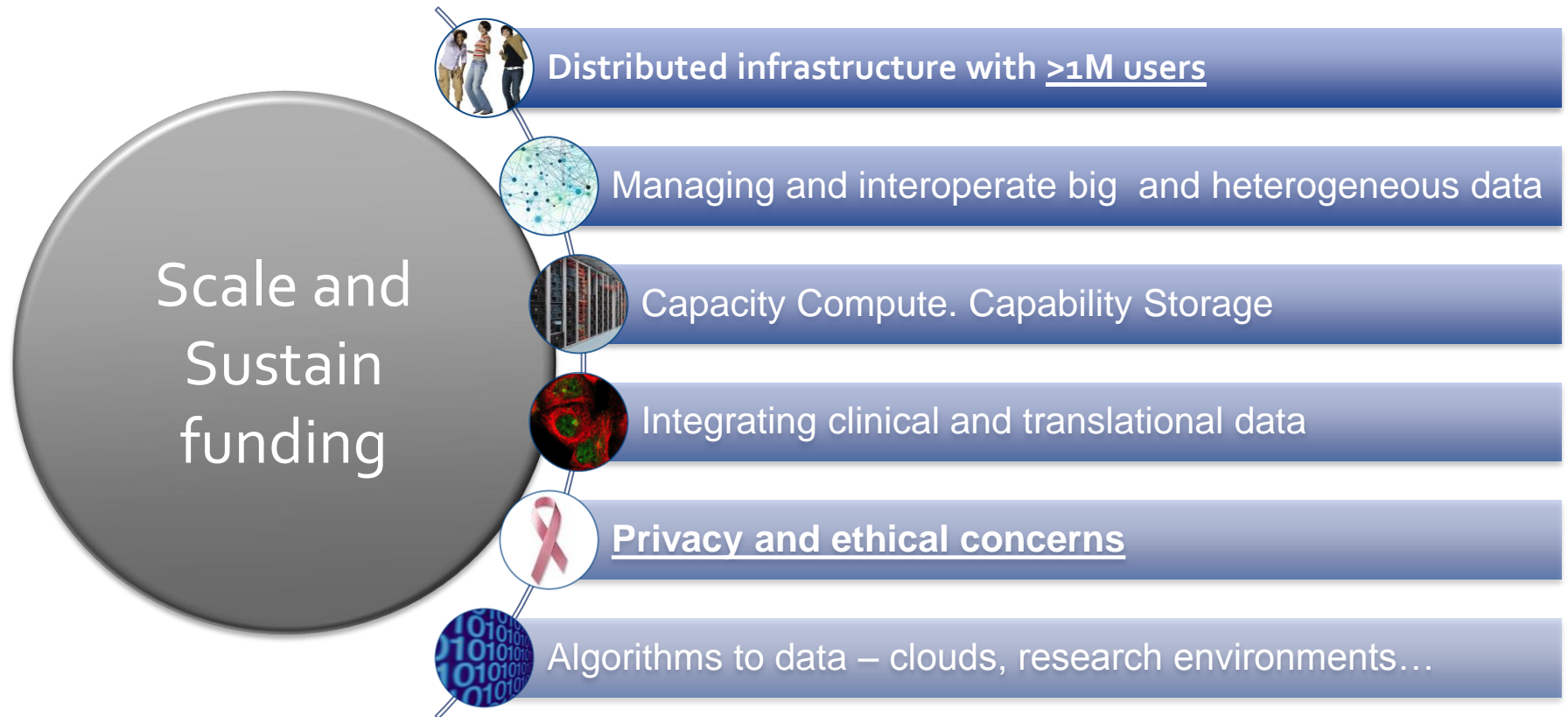
European Life Sciences Infrastructure for Biological Information
www.elixir-europe.org

Example of research requiring AAI - Matching the treatment to the cancer

- One in 10 women in the EU-27 will develop breast cancer before the age of 80.
- If we can identify patterns of genes that are active in different tumours, we can diagnose and treat cancers earlier.

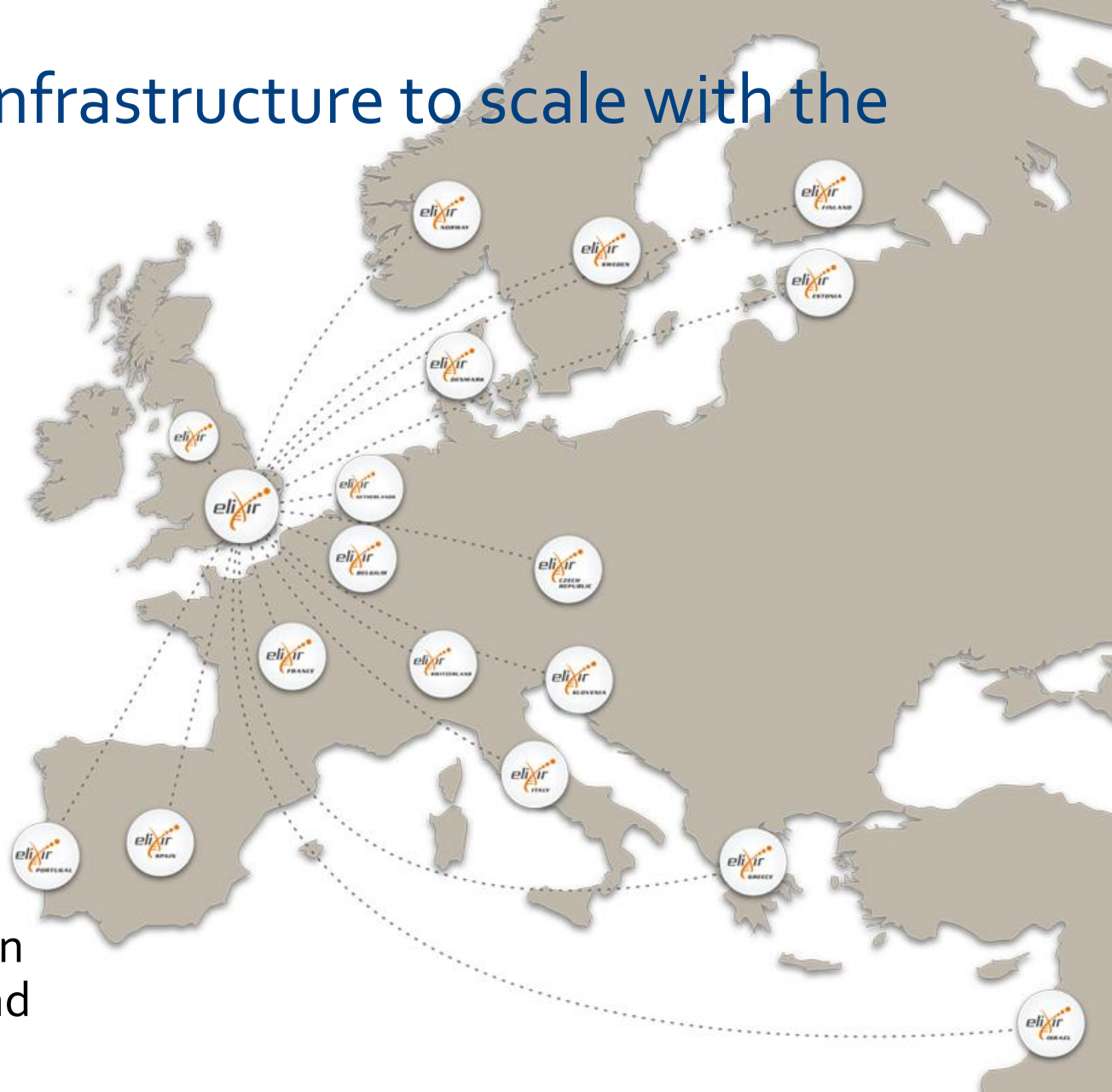


Challenges for life-science data services

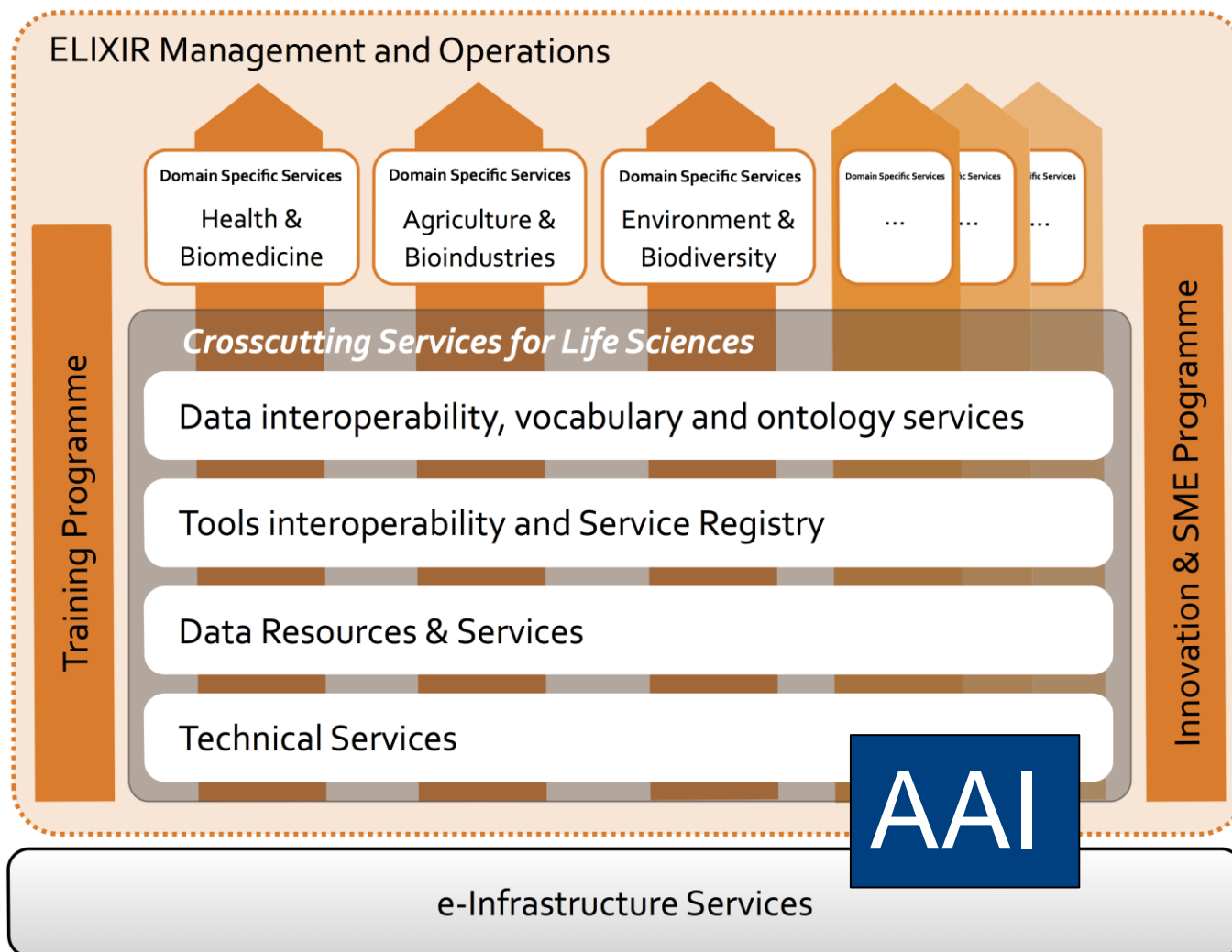


A distributed infrastructure to scale with the challenges

- **ELIXIR** infrastructure for Europe's life science research sector was legally formed 12/2013
- **ELIXIR** Nodes build local bioinformatics capacity throughout Europe
- **ELIXIR** Nodes build on national strengths and priorities



ELIXIR Programme 2014-2018 accepted April 2014



Technical coordination

- Nodes
- Task forces

• Research Infrastructures

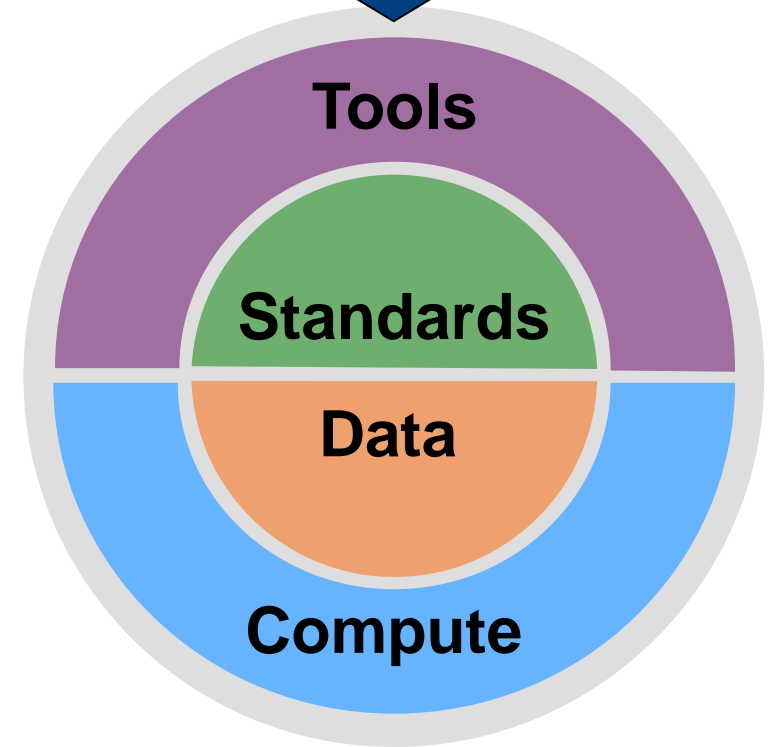
EMBRC, INSTRUCT, Eurobioimaging, Infrafrontier, ERINHA, EUOpenScreen, EATRIS, BBMRI, ECRINm, LifeWatch, ...

• e-infrastructures

EUDAT, PRACE, GEANT, EGI, JISC, ...

• BioMedBridges

Suggestion:
federated AAI as a
core technical
component in
ELIXIR



Next steps

- Providing REMS as a service from ELIXIR Finland
 - Managing access rights to bioinformatics datasets in collaboration with IDFs and eduGAIN
 - Cross-domain impact: REMS is going to be used by FI-CLARIN & FI-CESSDA
- Increasing uptake of federated AAI technologies in life science community
 - e-INFRA 7-2014 proposal coordinated by TERENA (Licia Florio)
 - Create training materials based on experience from NordicDB – EGA – REMS collaboration
 - “Simplifying a data service provider”
 - “Relying on trusted attribute provider to organise authorisation with third part data access committees” etc.
 - Increased uptake of federated AAI. More DACs to REMS
 - Starting point: <https://remsdemo.csc.fi/>

List of ELIXIR AAI activities

- The Finnish ELIXIR node 2012-
 - Original ELIXIR authentication pilot -4/2013
 - REMS tool development and operations
 - REMS and EGA integration to IDF/SAML

Funder Academy of Finland and Ministry of education and culture of Finland
- GN3plus Enabling Users pilot 2013-
 - Endorsed by ELIXIR and FIM4R to represent life science community
 - REMS and EGA export to eduGAIN
 - LoA considerations

Funder EC and Academy of Finland and Minedu
- ELIXIR AAI task force 2014-
 - Designing AAI for ELIXIR ESFRI

Funder ?? Commission Academy of Finland and Minedu
- EINFRA-7-2014 (proposal) 2015-
 - Rolling out federated AAI to the ELIXIR community

GN3plus Enabling Users Pilot status

- EGA SP registered to Haka (the Finnish IDF)
 - Finnish researchers can log in to EGA
- EGA SP exported to eduGAIN
 - EGA SP visible also to non-Finnish IDFs
- EGA committing to GÉANT data protection Code of Conduct
 - To encourage European IdPs to release attributes
- EGA studying the Level of Assurance floor for European IDFs/IdPs
 - Deciding which IdPs meet EGA's security needs
 - Hopefully some day we (ELIXIR) need not to do this but it will be offered by eduGAIN (common LoA framework)

ELIXIR AAI – An early blueprint for discussion

External AAI

eduGAIN
(IDFs)

ELIXIR AAI

ELIXIR
IdP for
IdP-less
researchers

ELIXIR
Web to
non-web
gateway

ELIXIR
community
management
(groups, VO)

ELIXIR
authorisation
(REMS)

Biomed data services with access control

EGA

Biobank
data service

THANK YOU