

CSC – sensitiivisen datan hallinta

Datan elinkaari seminaari 19.4.2018 – Mats Lindstedt



CSC – Suomalainen tutkimuksen, koulutuksen, kulttuurin ja julkishallinnon ICT-osaamiskeskus

Voittoa
tavoittelematon
valtion
erityistehtäväyhtiö



Liikevaihto
vuonna 2016
36.8 M€



Pääkonttori
Espoossa,
datakeskus
Kajaanissa

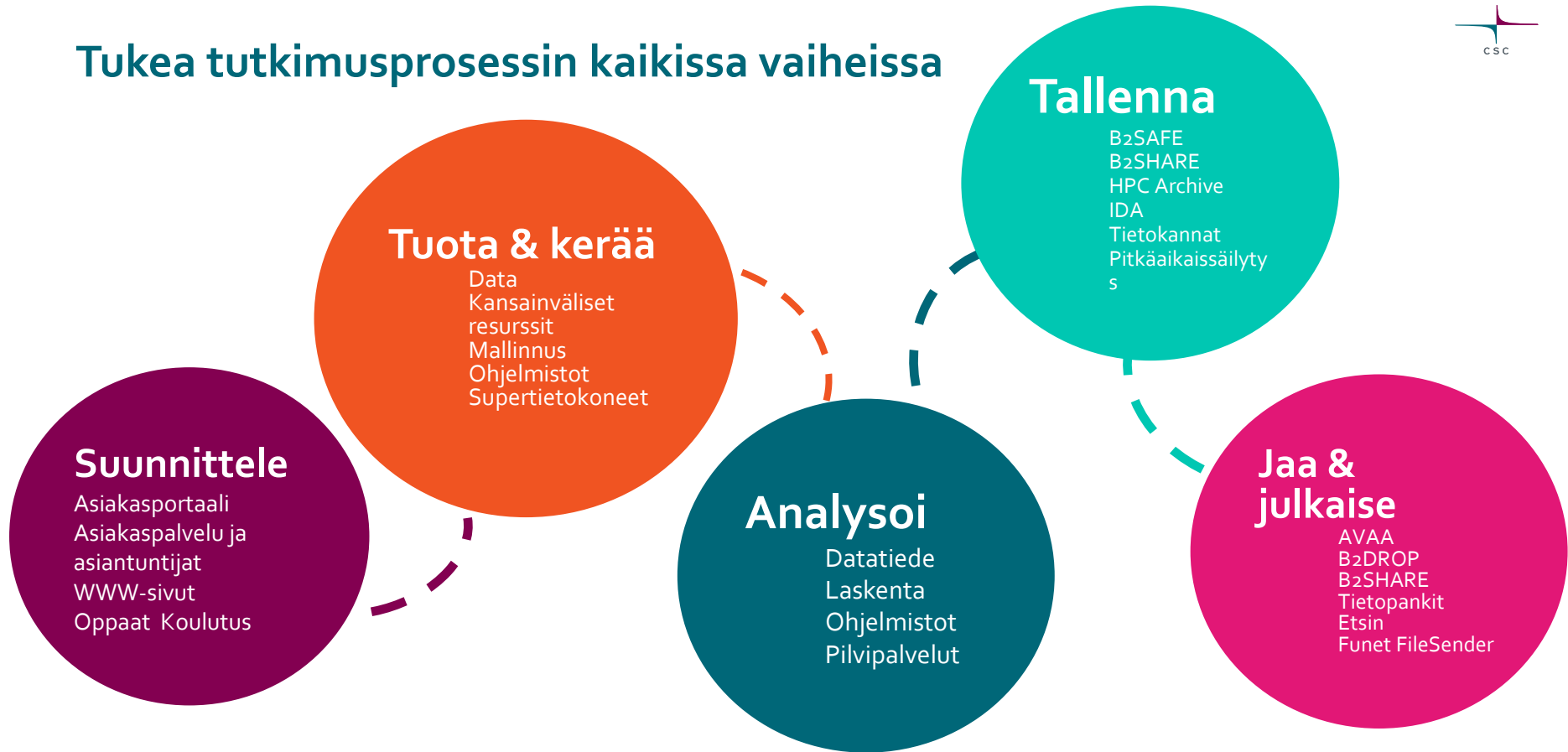


Valtion
70%
ja suomalaisten
korkeakoulujen 30%
omistama



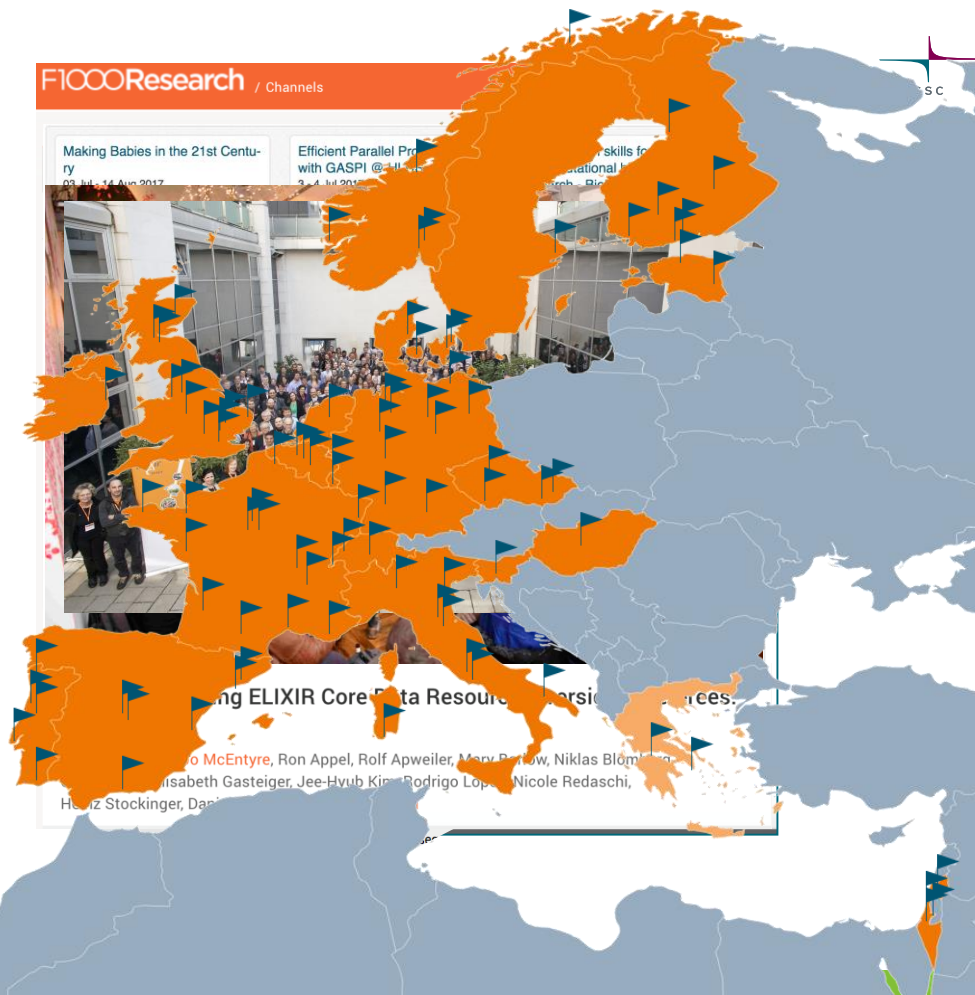
Noin
320
työntekijää
vuonna 2017

Tukea tutkimusprosessin kaikissa vaiheissa



ELIXIR in numbers

- 21 Members and 1 Observer
- ~ 180 institutes involved
- 600+ staff
- 16 Core Data Resources
- 23 Implementation Studies ongoing or soon to start
- 17 papers in ELIXIR F1000 channel
- 264 live events in TeSS
- 350 companies attended Innovation and SME programme



ELIXIR: European infrastructure for biological information



Data infrastructure for Europe's life-science research:



Data



Marine metagenomics



Interoperability



Crop and forest plants



Tools



Human data



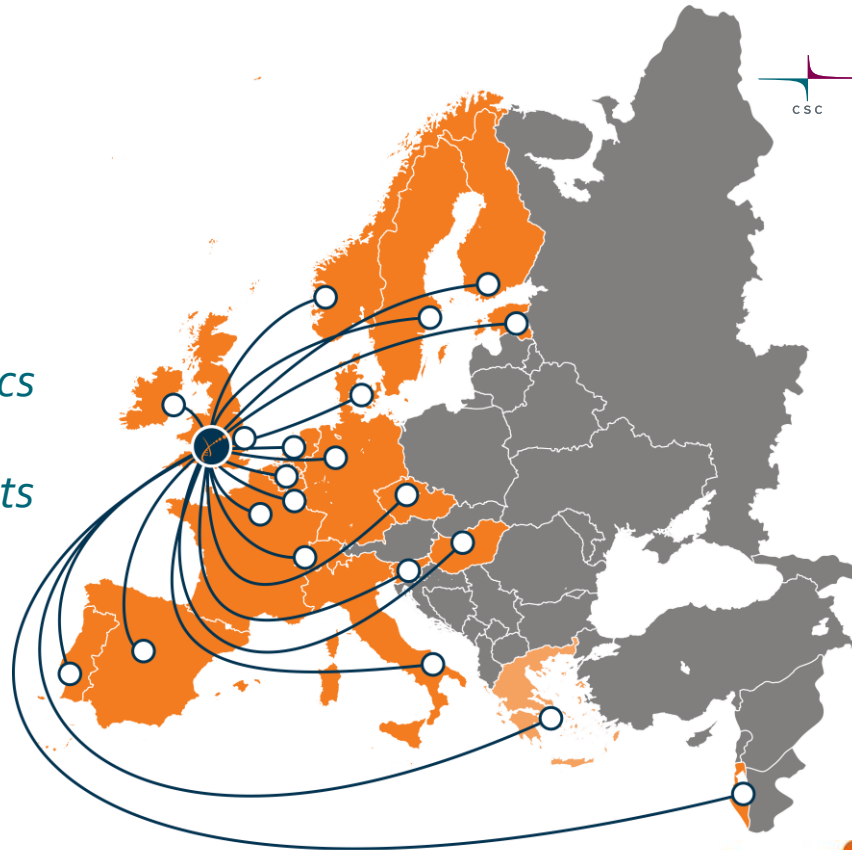
Compute



Rare diseases



Training



[@ELIXIREurope](https://twitter.com/ELIXIREurope)

www.elixir-europe.org



ELIXIR Services



Data deposition:
ENA, EGA, PDBe, EuropePMC, ...



Compute:
Secure data transfer, cloud computing, AAI



Data management:
Genome annotation
Data management plans



Bioinformatics tools:
Bio.tools



Added value data:
UniProt, Ensembl, OrphaNet, ...



Industry:
Innovation and SME programme
Bespoke collaborations

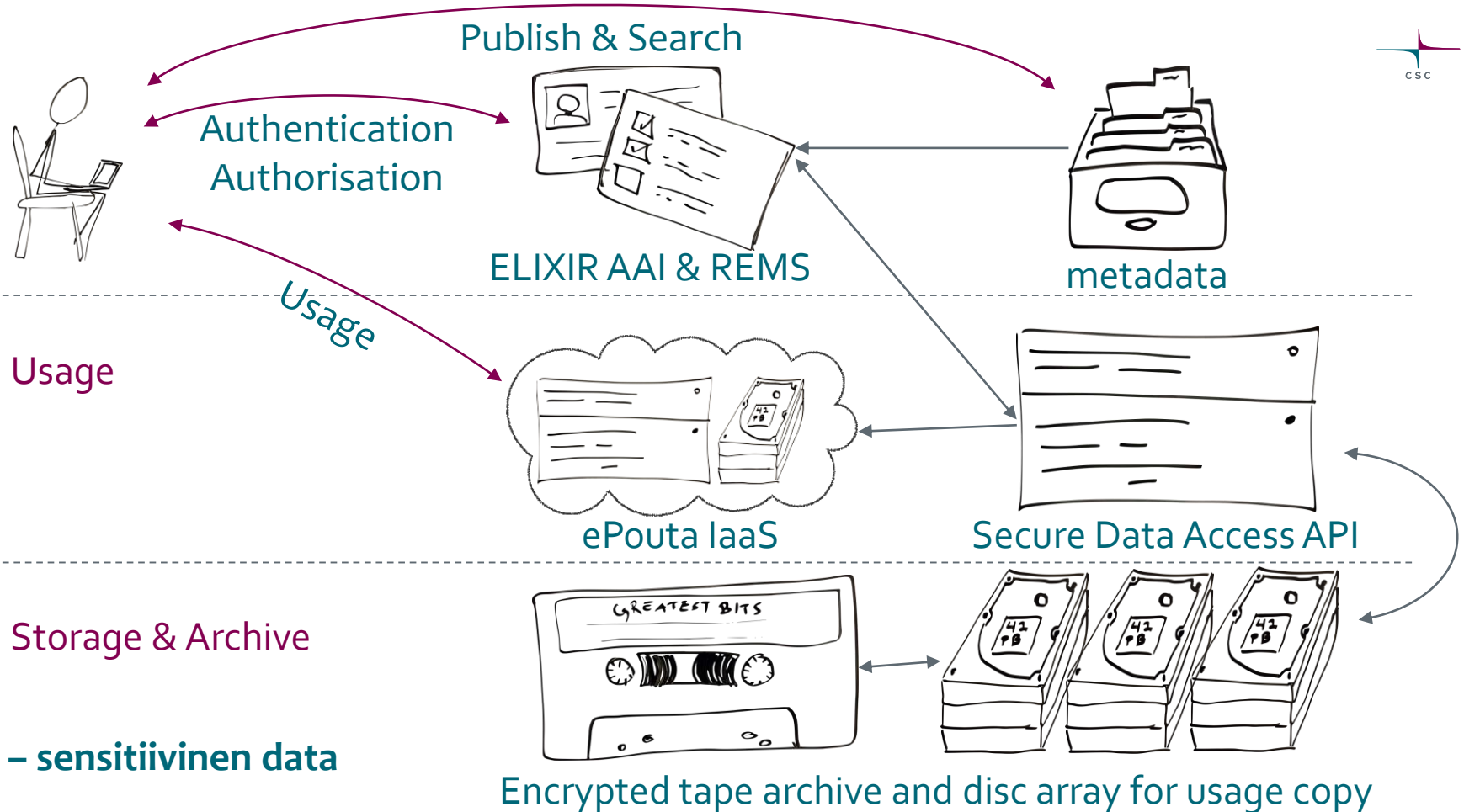


Data Interoperability:
Standards, Identifiers, Ontologies



Training:
TeSS, Data Carpentry, eLearning





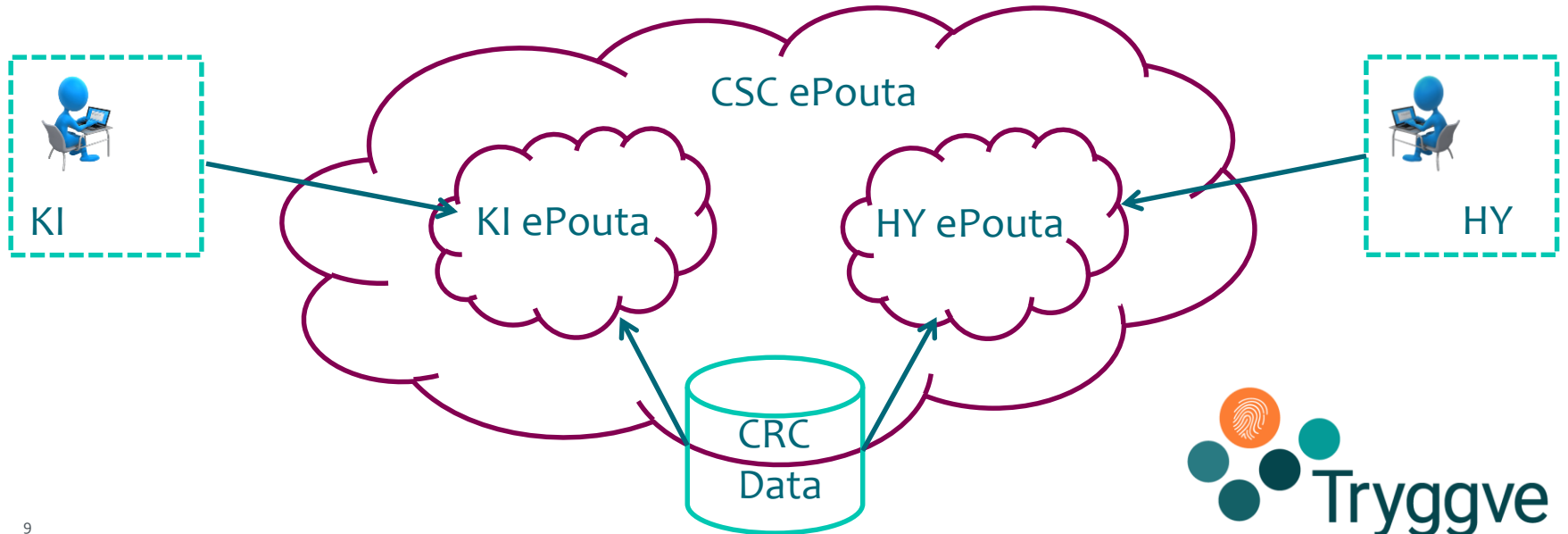
CSC – sensitiivinen data

Nordic use case for CSC sensitive data platform

- Nordic Center of Excellence NIASC has an activity on studying Colorectal Cancer (CRC) in Nordic countries
- The study includes genetic, clinical and family history data, and aims to improve early detection and personalized medicine for the condition
- Whole genome sequencing data of subjects is stored on CSC ePouta, and needs to be visible for partners in Sweden (KI) and in Finland (HY)
- This is a use case supported by the Nordic Tryggve project – a Nordic collaboration to develop and facilitate access to secure e-infrastructure

Nordic use case for CSC sensitive data platform

- The participants in Sweden and in Finland can see the same CRC dataset through their own ePouta instances





**CSC – Tieteen tietotekniikan
keskus Oy**

PL 405, 02101 Espoo

(09) 457 2001 (vaihe/yhteystiedot)

(09) 457 2821 (asiakaspalvelu)

asiakaspalvelu@csc.fi

www.csc.fi



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github.com/CSCfi