



# ***ELIXIR update***

FIM<sub>4</sub>R at CERN 4th Feb 2015

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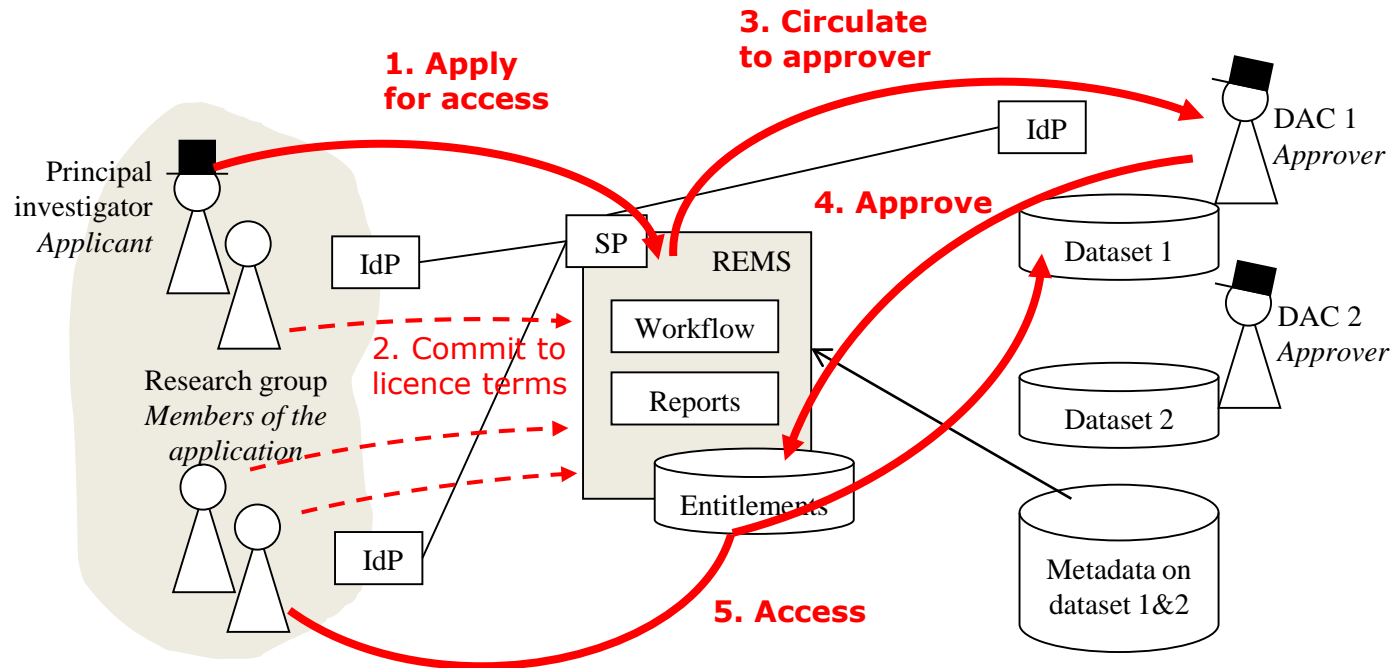


*European Life Sciences Infrastructure for Biological Information*  
[www.elixir-europe.org](http://www.elixir-europe.org)

# Contents

- EGA AAI (FIM<sub>4</sub>R pilot)
- ELIXIR AAI
- ELIXIR use case: human data collection and processing

# REMS – Resource Entitlement Management System



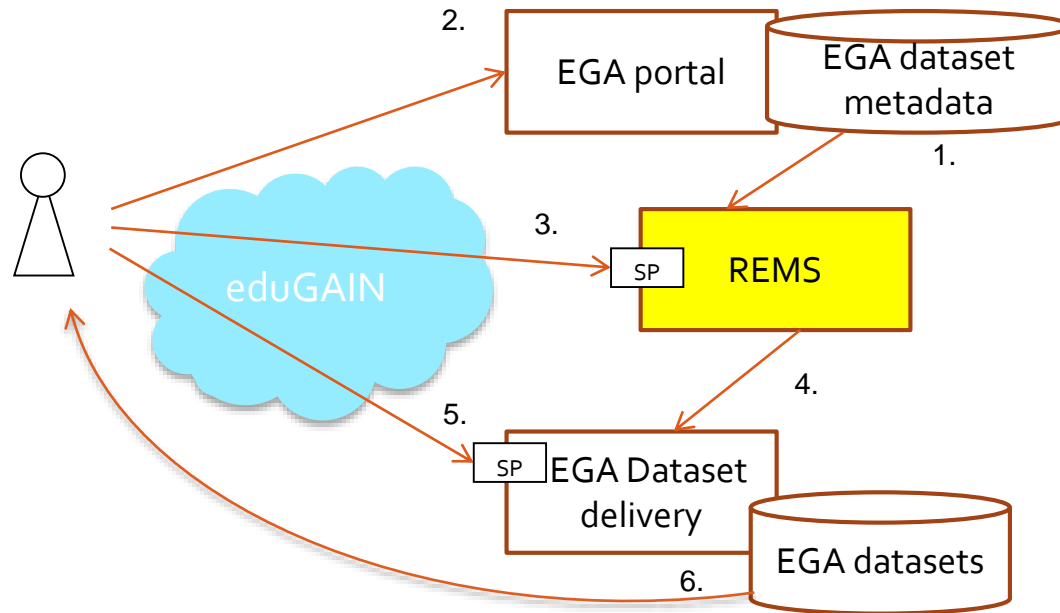
## Software

- Federated authorisation
- Developed by ELIXIR-FI
- Open source available (LGPL)
- [www.csc.fi/remc](http://www.csc.fi/remc)
- <http://tnc2013.terena.org/getfile/870>

## Deployment

- Life sciences: EGA (ELIXIR), biobanks
- Linguistics (CLARIN-FI)
- Social science (CESSDA-FI)
- Other national Finnish services

# ELIXIR EGA AAI pilot



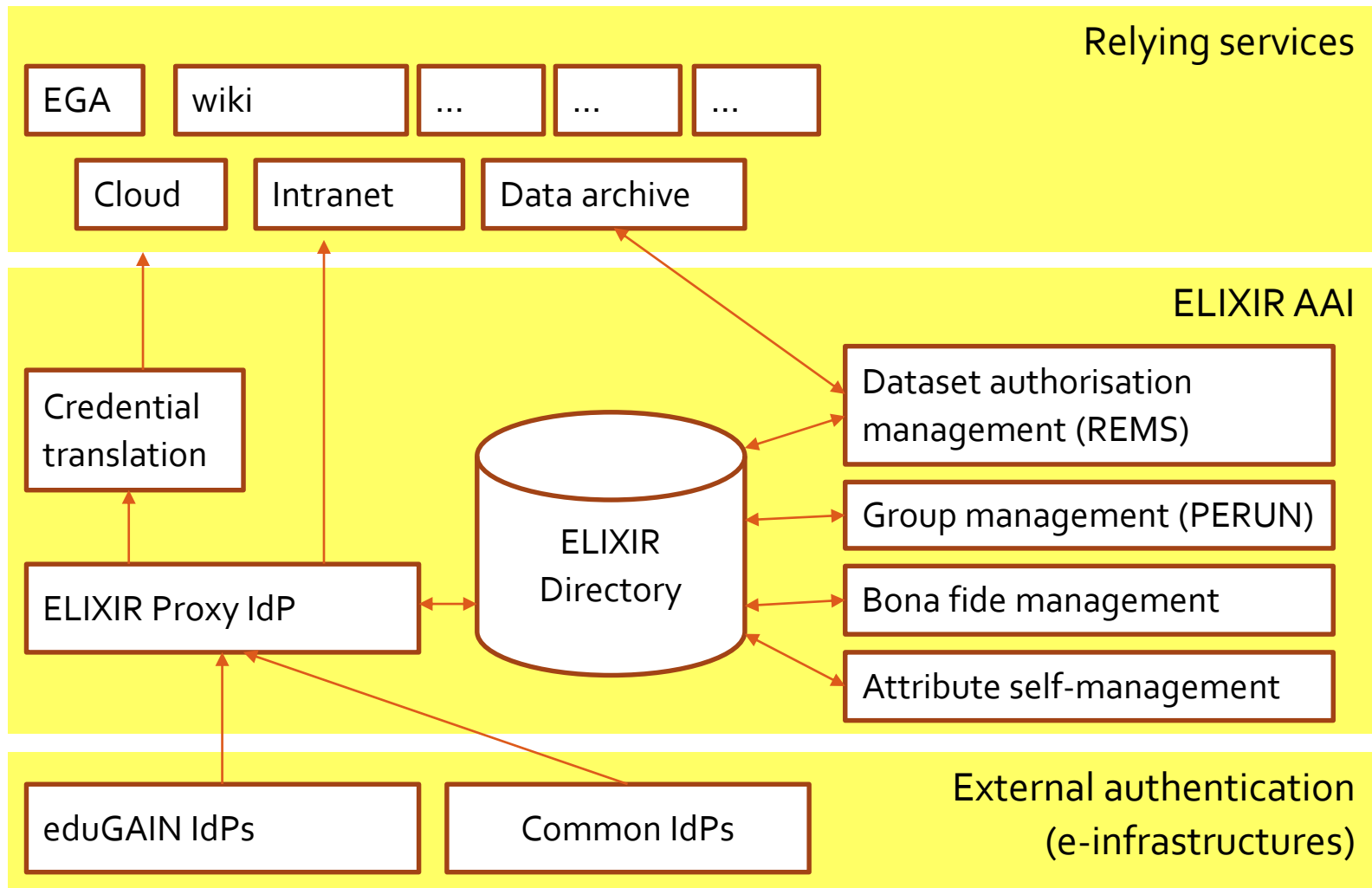
## In the EGA AAI pilot

- REMS integrated to EGA service of EBI
- REMS creates workflows based on EGA metadata
- Next extending to new EGA Data access committees

## In the GEANT Enabling Users pilot, REMS and EGA login

- integrated to eduGAIN
- opened for R&E feds in CH, FI, IE, DE, IT, NL, FR
- Also studied EGA LoA requirements

# Next: ELIXIR AAI (draft)



## Data Generation



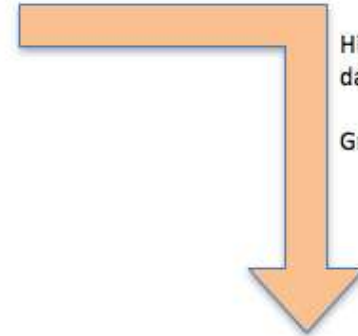
Sequencing centers



## Data Archiving



Secure data access remote API  
( GA4GH )



High speed encrypted  
data transfer  
GridFTP/Globus/Aspera

## Managing Samples



## Managing Access

Data Owner  
Data Access Agreement  
Data Access Committee  
Data Request



Authorization Management Tools  
( EGA and CSC REMS )



**Services and Coordination**

- Federated Authentication
- Authorization
- Dataset registry
- Data transfer hub
- Policy and Legal Framework



Secure Compute Clouds

## Moving data to users



## Bringing users to data

