

eResearchers Requirements the IGTF model of interoperable global trust and with a view towards FIM4R

AAI Workshop

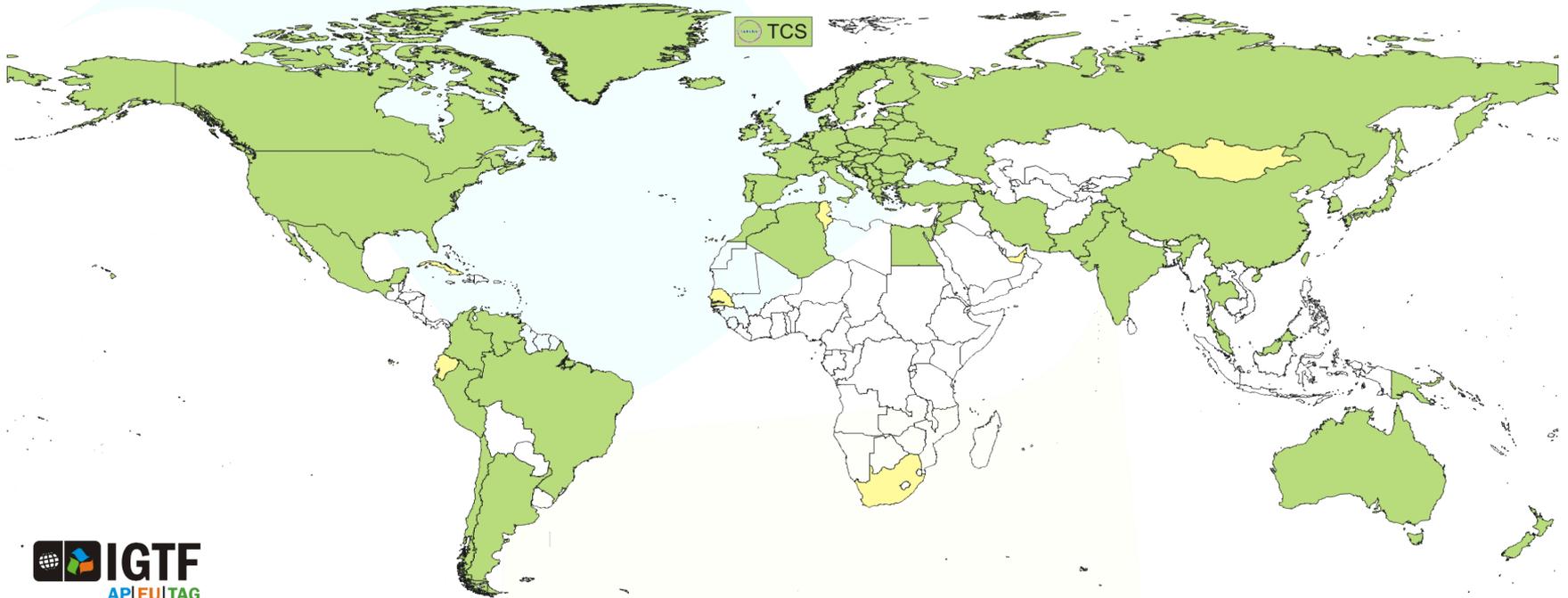
Presenter: David Groep, Nikhef

IGTF – *Interoperable Global Trust Federation*

supporting distributed IT infrastructures for research

- IGTF brings together
 - e-Infrastructure **resource providers, user communities** and **identity authorities**to agree on
 - **global**, shared **minimum requirements** and assurance levels
 - inspired and coordinated by the **needs of relying parties**
- Trust is technology-agnostic
 - focus on global, coordinated identity across communities and across service providers for *cooperative services*
 - define ‘best practices’ for assurance levels, attribute authority operations, credential management, auditing and reviewing

Coverage: users and providers



<https://www.igt.net/>

- ~100 000 users and resources
- 89 national and regional identity authorities: R&E and commercial
- >1000 different user communities: small and large, national and global
- Major relying parties: EGI, PRACE, XSEDE, Open Science Grid, HPCI, wLCG, OGF, ...

IGTF is a coordinating body, and not a legal entity in itself – although its members may be

Minimum Requirements

- Federation imposes *minimum requirements* on identity provider participants
 - Reflect **operational and security needs** of **resource providers**
 - Differentiated LoA support
 - classic user-based subscriber services: serve **all users**
 - identity services leveraging (R&E) **federations with ID vetting**
 - ‘LoA1+’ **Identifier-Only Trust Assurance**
 - *if relying party has other ways to vet its users, allow for lower-assurance identifiers, thus enabling more ID federations*
- **Research-inspired verification process**: self-audits, peer-review, transparent open policies and processes
- ‘meet or exceed’ required minimum standards

} ‘LoA2-’

Community characteristics

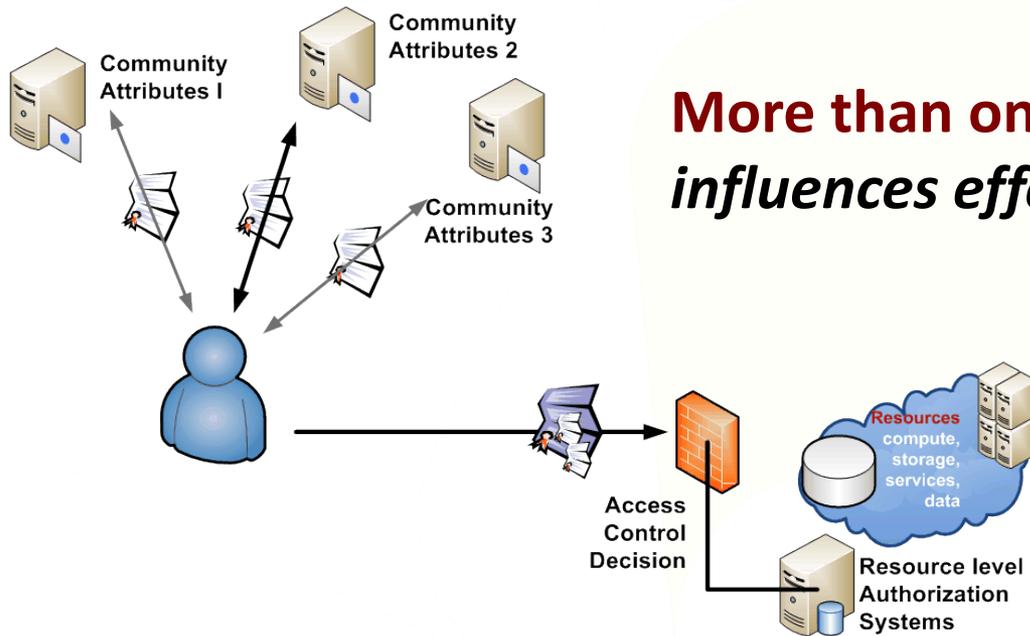
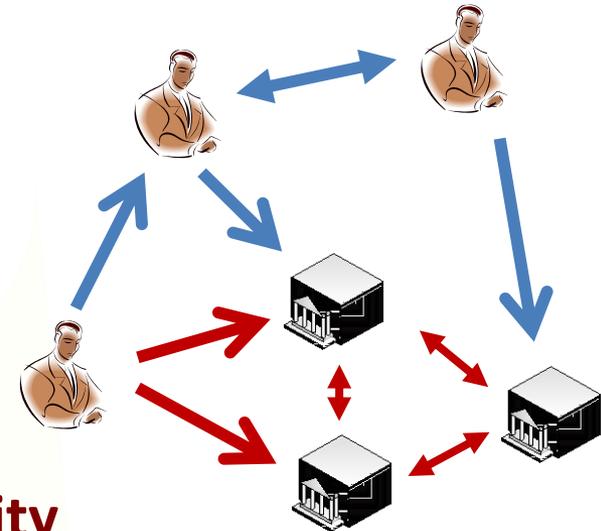
More than one administrative organisation

More than one service provider
participates in a single transaction

More than one user
in a single transaction

More than one authority
influences effective policy

Single interoperating instance
at a global level



AAI requirements

FIM4R captures the key requirements

- different Levels of Assurance with provenance
- authorisation under community and/or facility control
- browser & non-browser federated access
- attributes must be able to cross national borders

and we **also need**

- federations and IdPs to work in a **collaborative security and policy framework**, addressing the areas identified in e.g. SCI
- support for **individual researchers**
communities are widely distributed and although large as a whole may be only a one or a few per institution
- global scope: scientific collaborations extend *beyond Europe*

FIM4R: <https://cdsweb.cern.ch/record/1442597/files/CERN-OPEN-2012-006.pdf>

SCI – Security for Collaboration among Infrastructures: <https://www.igtf.net/sci>



www.igtf.net

Interoperable Global Trust Federation

