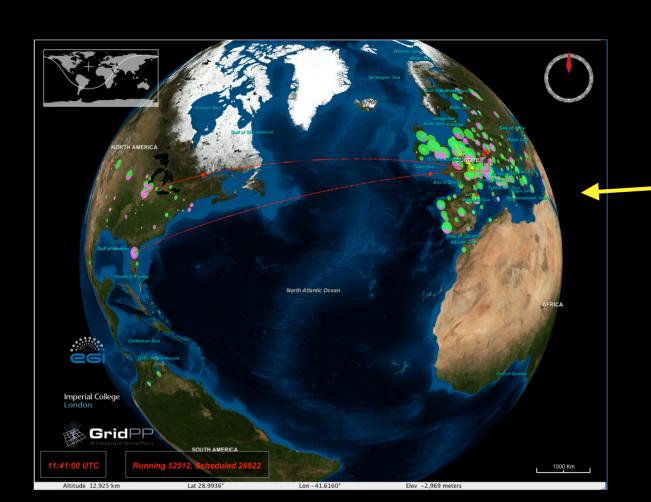
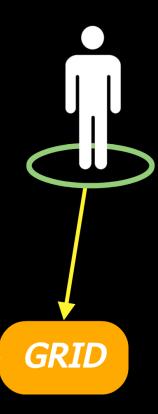
Autorizzare gli utenti delle Federazioni di Identità sulle e-infrastrutture mediante gli Science Gateway

Marco Fargetta
INFN Catania & Consorzio COMETA

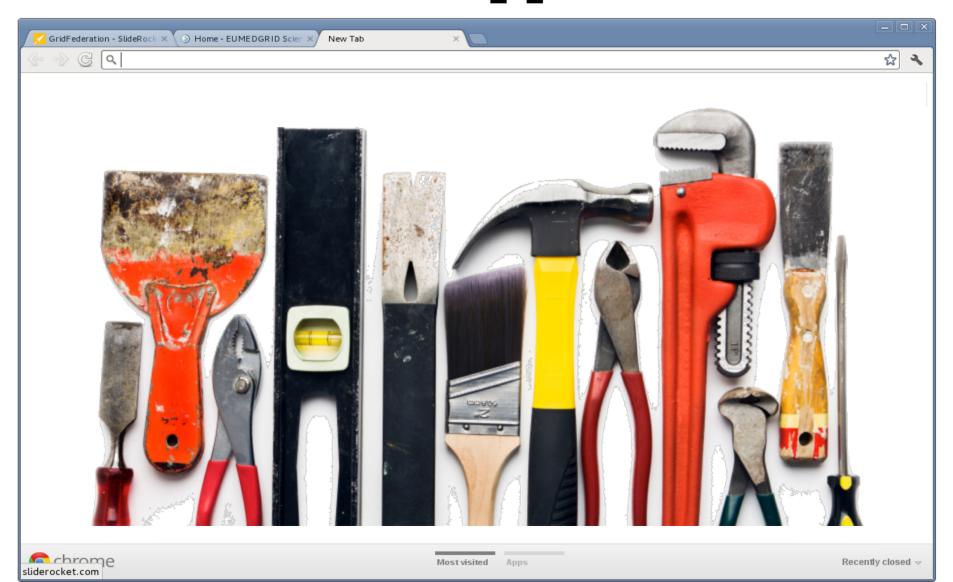


Grid Computing allows users to access and use a huge number of computers spread around the world

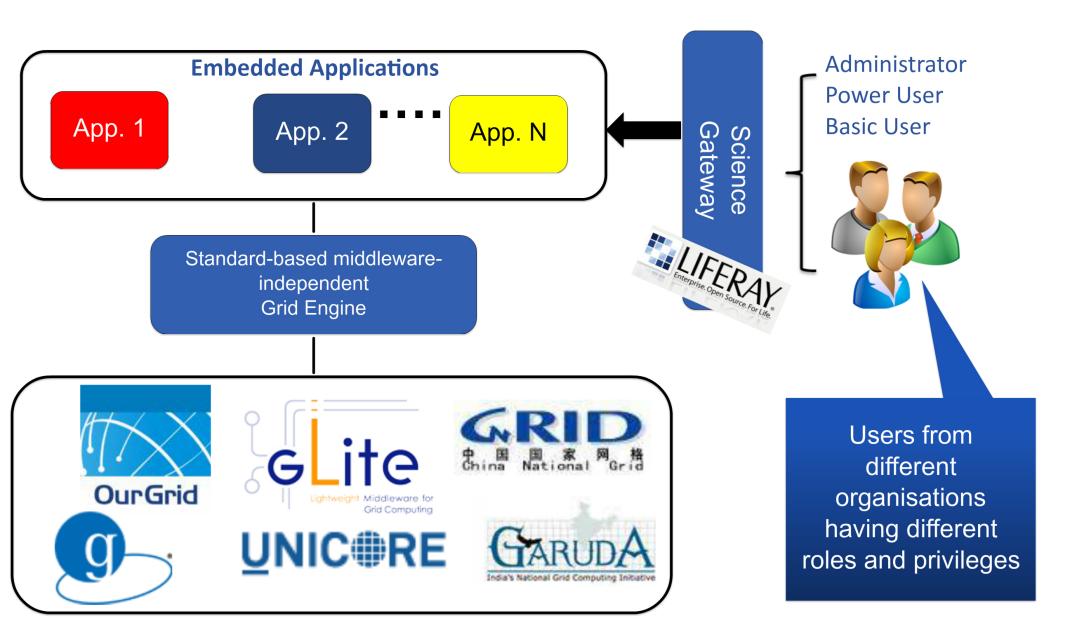




Community-driven web portals SaienteGateGatewayte Sud) Tools and Applications



Catania Science Gateway reference model



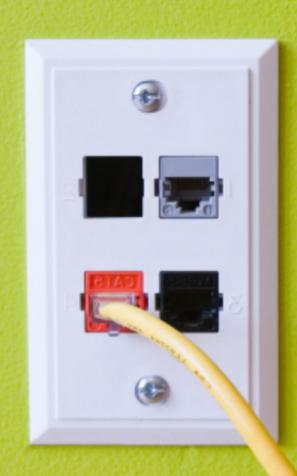
The distributed/cross-domain nature of Grid requires strong security mechanisms



Users struggle to comply with Grid complex security rules for certificate management



Simple access



Users would access and use Grid resources uch as any other web service available in their organisations



Identity Federations provide the requested security

Grid users distributed around the world



Grid



Many Federations and other identity sources integrated together but with different trust level

Users willing to access the services using social identities need to be identified

Identities verified in person



The SP security is based on Shibboleth module for apache web server



Science Gateways use Liferay Portal Application Framework

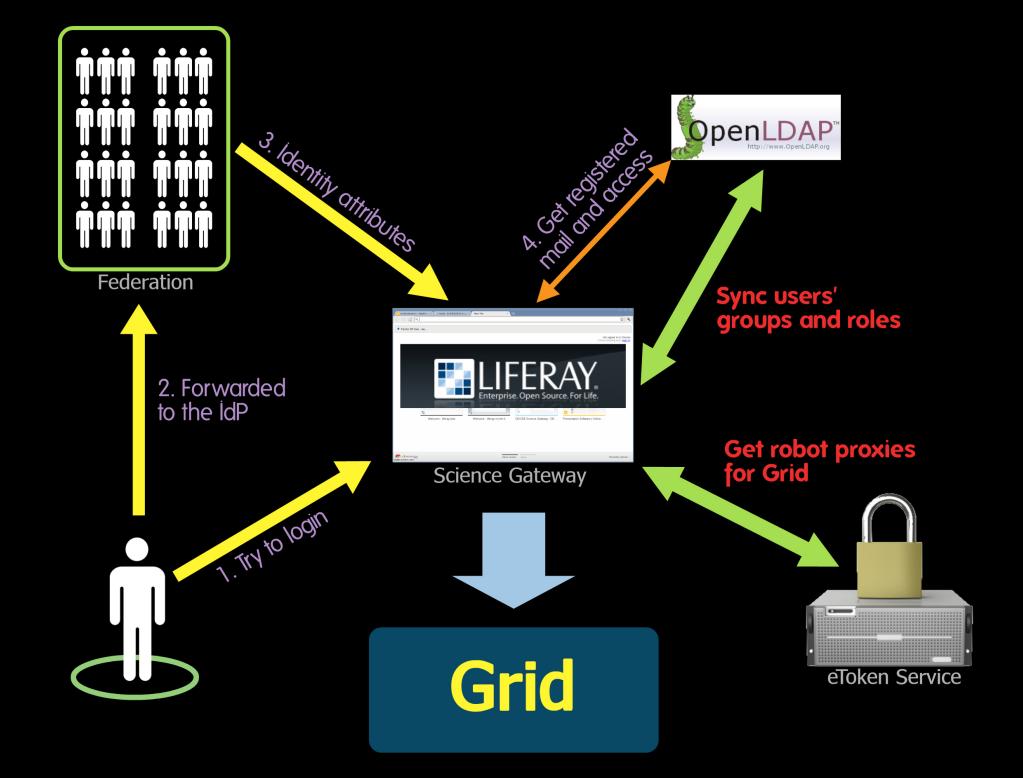


The mail attribute used to associate federated identities with local identities

Other attributes not well supported in Liferay







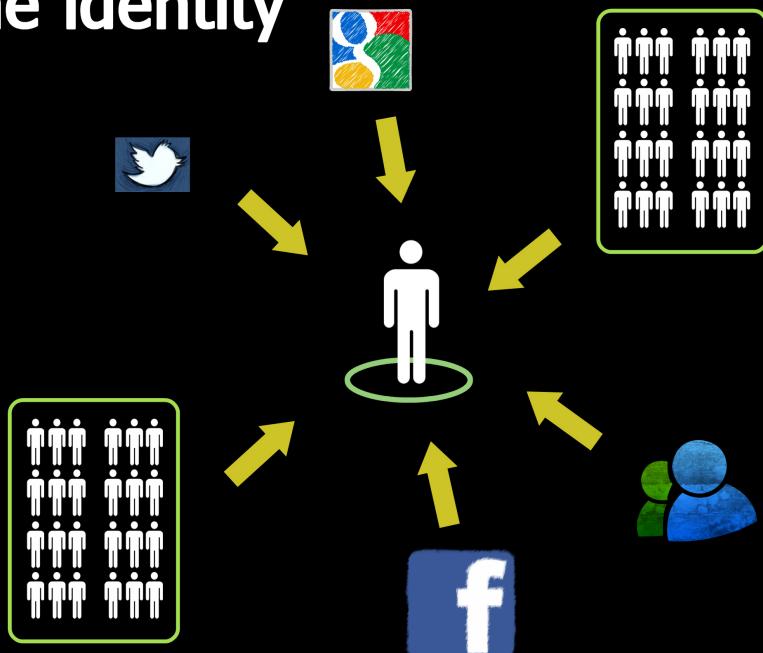


Identity Federations truly simplify users authentication

Problematic authorisation in some cases

Some features missed or not well documented

One identity



A list of e-mails associated with a user allows to use multiple Identity Providers

Users may continue their activities moving across organisations

Metadata filter should allow to dynamically skip IdPs according to the provided attributes

Users should see only working IdPs

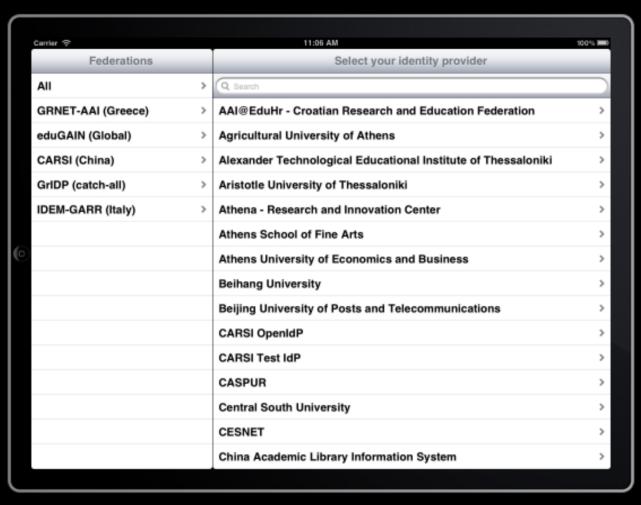
Manual check and blacklist inclusion of IdPs not viable Attributes should better **describe the user activity** and not only the position in the organisation for a more automatic authorisation system



Support for authentication delegation needs improvement to allow services authentication on behalf of users



Authentication in mobile Apps feasible but not easy to implement



CHAIN

COGITO-MED

DECIDE

<u>EarthServer</u>

EUMEDGRID

GARR

GILDA

GISELA

INDICATE

KLIOS

RICEVI

SG to IGI

SPECIAL

ViralGrid

14 SGs already deployed

VRCs supported either by region or discipline

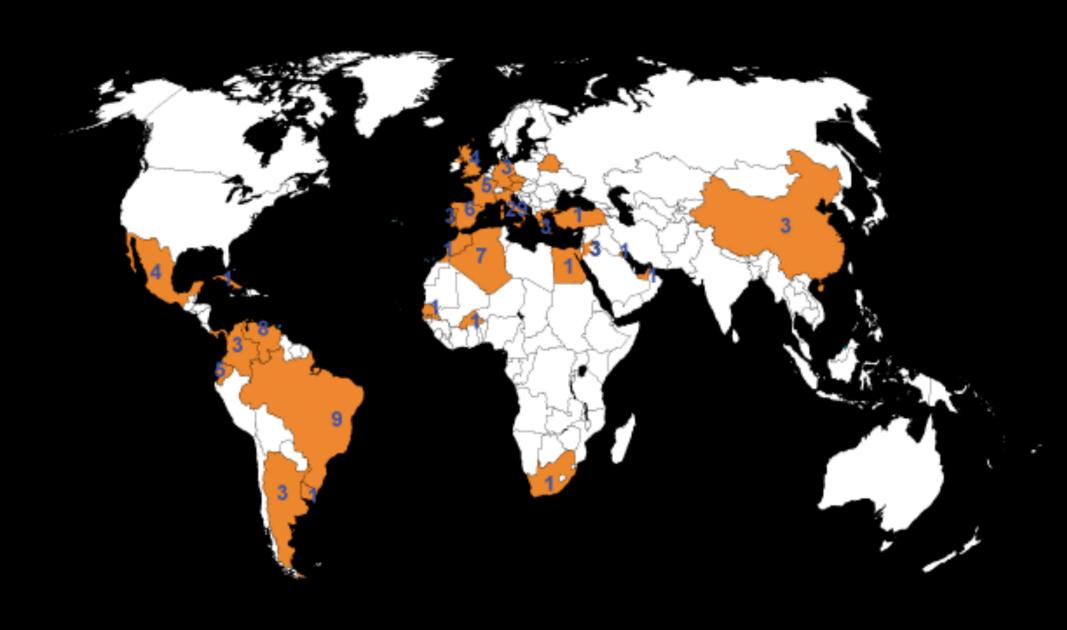


Very easy and intuitive access procedure

User-driven development

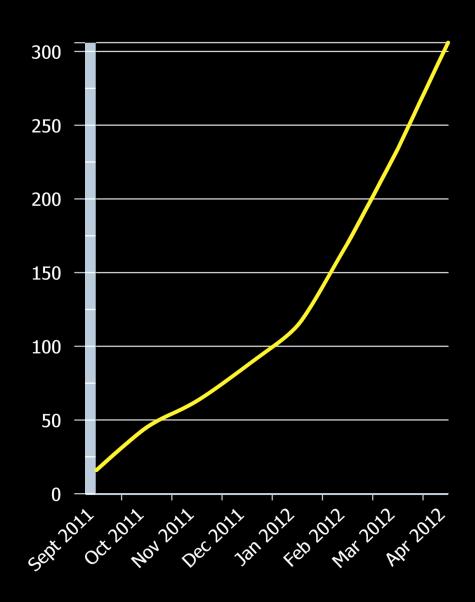
Surveys to propose applications are available in <u>Italian</u> and <u>other languages</u>

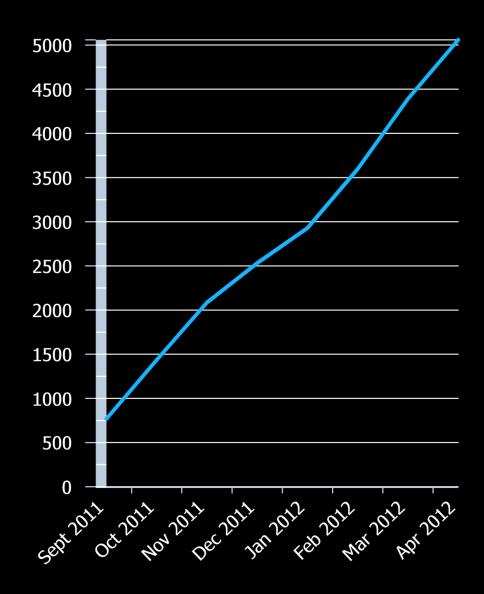
Users from 114 Organisations in 31 Countries



Registered users

User sign-ins







Identity federations tools have a steep learning curve for administrators but allow to implement a very secure user access to web resources easy to maintain

Deploy with other tools or in more complex scenarios (e.g. mobile apps, delegation) is not trivial



Support of mobile device will be improved for both web and native apps



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