



The Helix Nebula Marketplace

HNX

A federated cloud platform
for data intensive science

Helix Nebula Public Event, CERN Geneva, May 2014

Mick Symonds – Atos
Phil Evans – CGI
Jurry de la Mar – T-Systems

Agenda

- How we got here – what a long, strange trip it's been
 - Mick Symonds, Atos
- **HNX 1.0 – the current state of play**
 - **Phil Evans, CGI**
- The future – what's coming next
 - Jurry de la Mar, T-Systems



Helix Nebula Market Place

HNX

The HNX Suppliers:

Atos Canopy, CGI, CloudSigma, EGI, Interoute,
SixSq, The Server Labs, T-Systems

Helix Nebula Marketplace



- Builds upon the work undertaken as part of the EC funding project and overall initiative
- Support by European cloud providers and integration with existing e-Infrastructures, a hybrid cloud Computing Market Place and **open for new Cloud Providers**
- Trusted cloud services through **compliance with EU regulations and legislation**
- **Simplified procurement** process for multiple cloud services
- Offered to the global scientific community, for both publicly-funded and commercial Research and Technology Organizations, offering **large-scale and HPC-type deployments** from the start.
- A focus on **transparency and impartiality of the brokerage function**. Trust is important.



Atos

CloudSigma

CGI

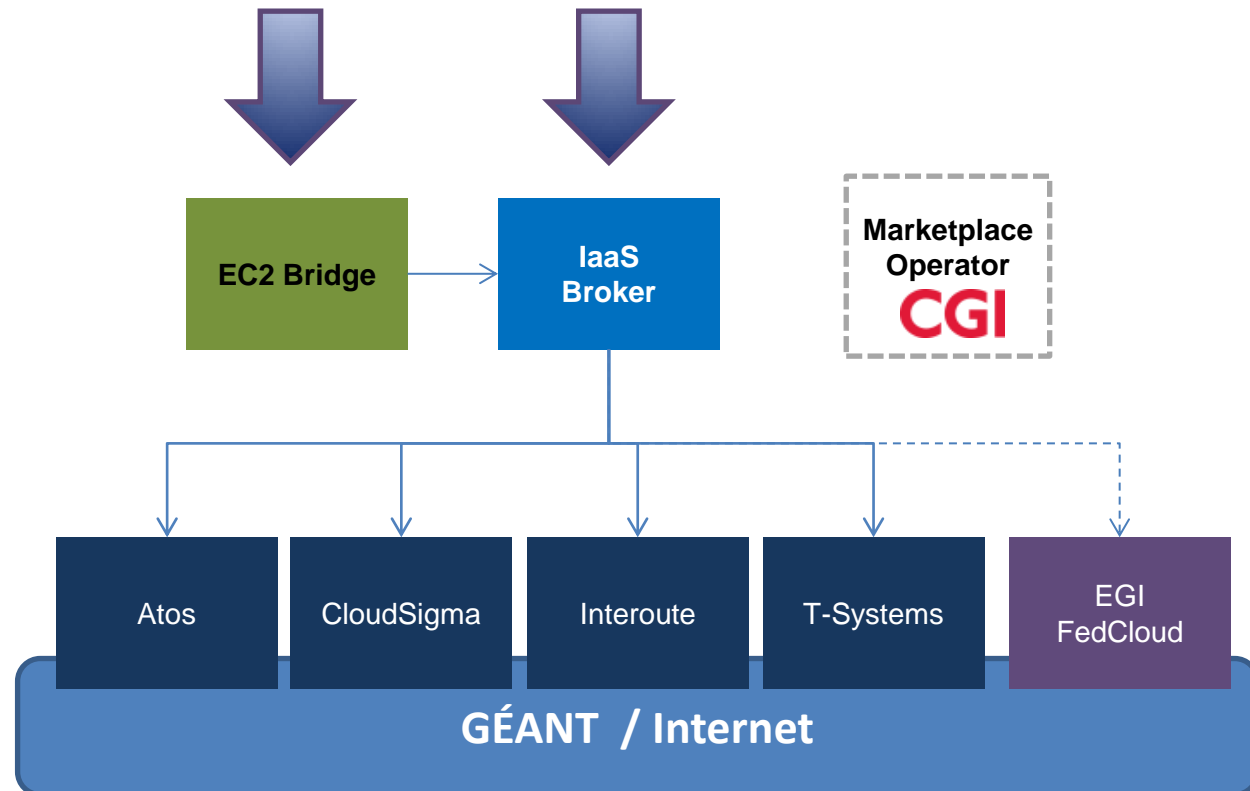


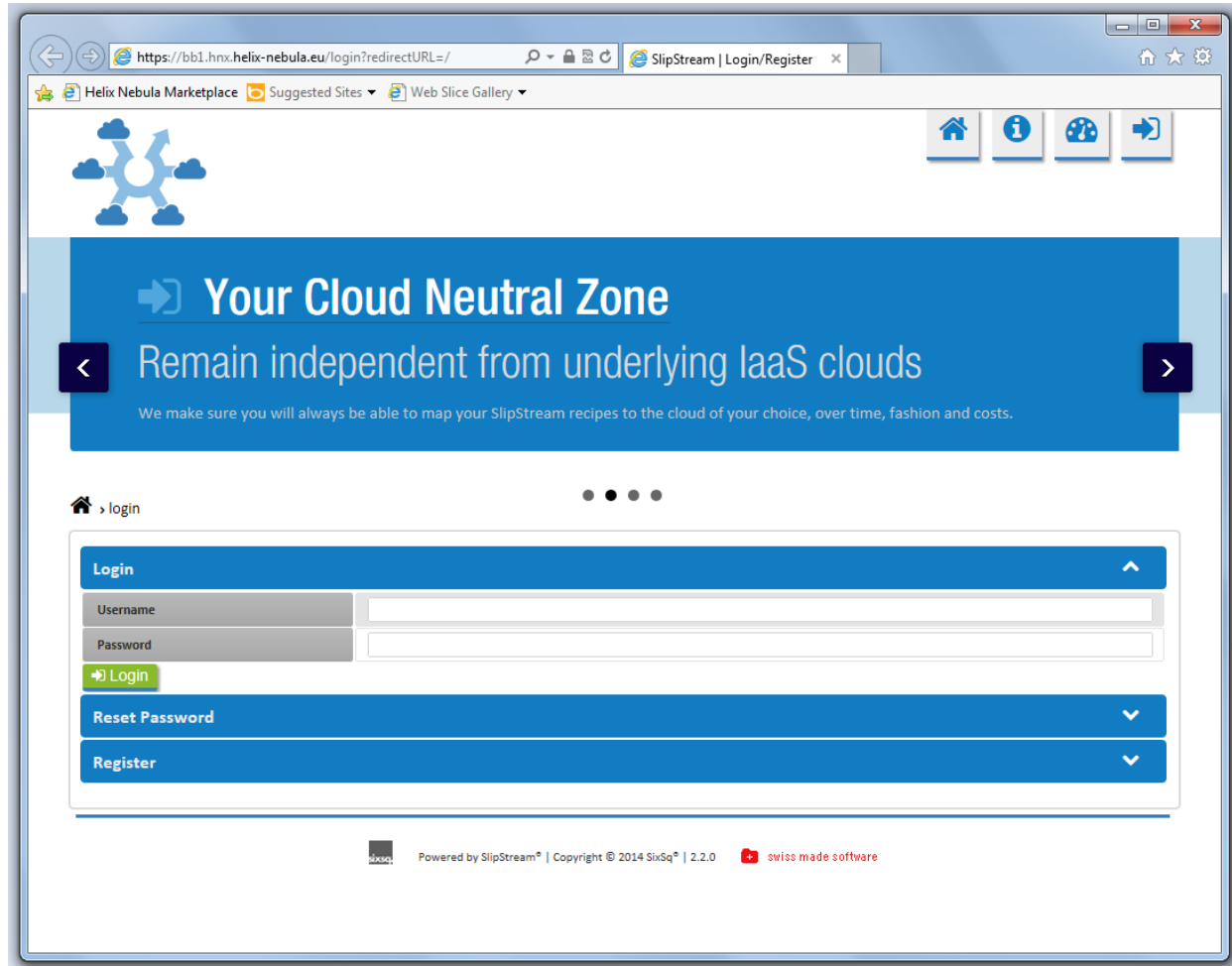
..T..Systems



HNX Platform

- Initial **four** commercial cloud providers integrated
- **Amazon EC2 Bridge** for compatibility with third party tools, such as StarCluster or any EC2-compatible tool
- Integration with the **EGI FedCloud** on our roadmap for 2014





The screenshot shows a web browser window displaying the login page of the Helix Nebula Brokerage Platform. The browser's address bar shows the URL <https://bb1.hnx.helix-nebula.eu/login?redirectURL=/>. The page features a navigation bar with the Helix Nebula logo and utility icons. A prominent blue banner reads "Your Cloud Neutral Zone" and "Remain independent from underlying IaaS clouds", with a subtext: "We make sure you will always be able to map your SlipStream recipes to the cloud of your choice, over time, fashion and costs." Below the banner is a breadcrumb trail "Home > login". The main content area contains a "Login" section with input fields for "Username" and "Password", a "Login" button, and links for "Reset Password" and "Register". The footer includes the SlipStream logo, "Powered by SlipStream® | Copyright © 2014 SixSq® | 2.2.0", and the "swiss made software" logo.

HNX Marketplace Operator

Operations

- User On-Boarding
- Provider On-Boarding
- Platform Administration
- Support

Service Management

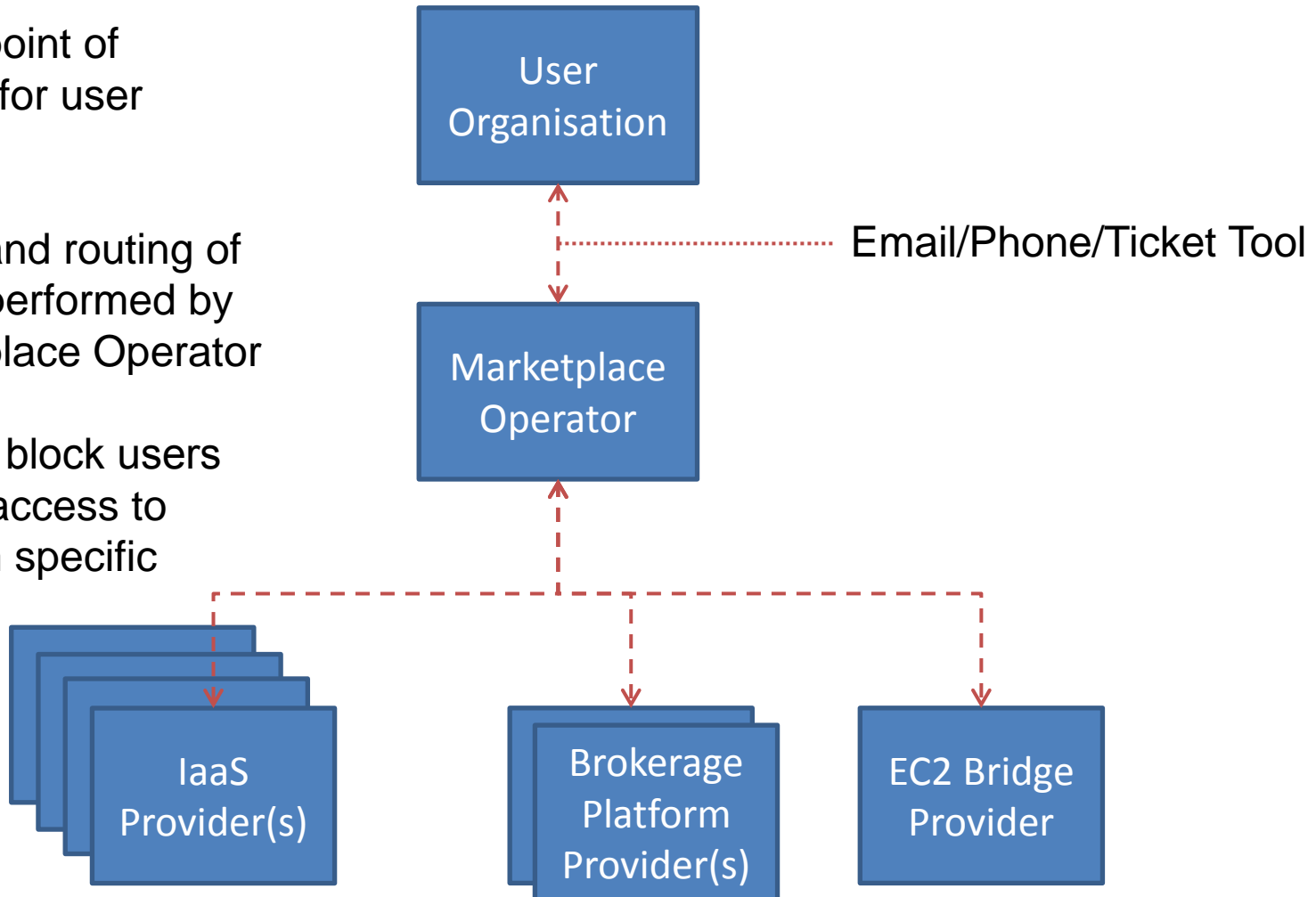
- Incident Management
- Problem Management
- Change Management
- Release Management
- Platform Monitoring
- Reporting
- etc.

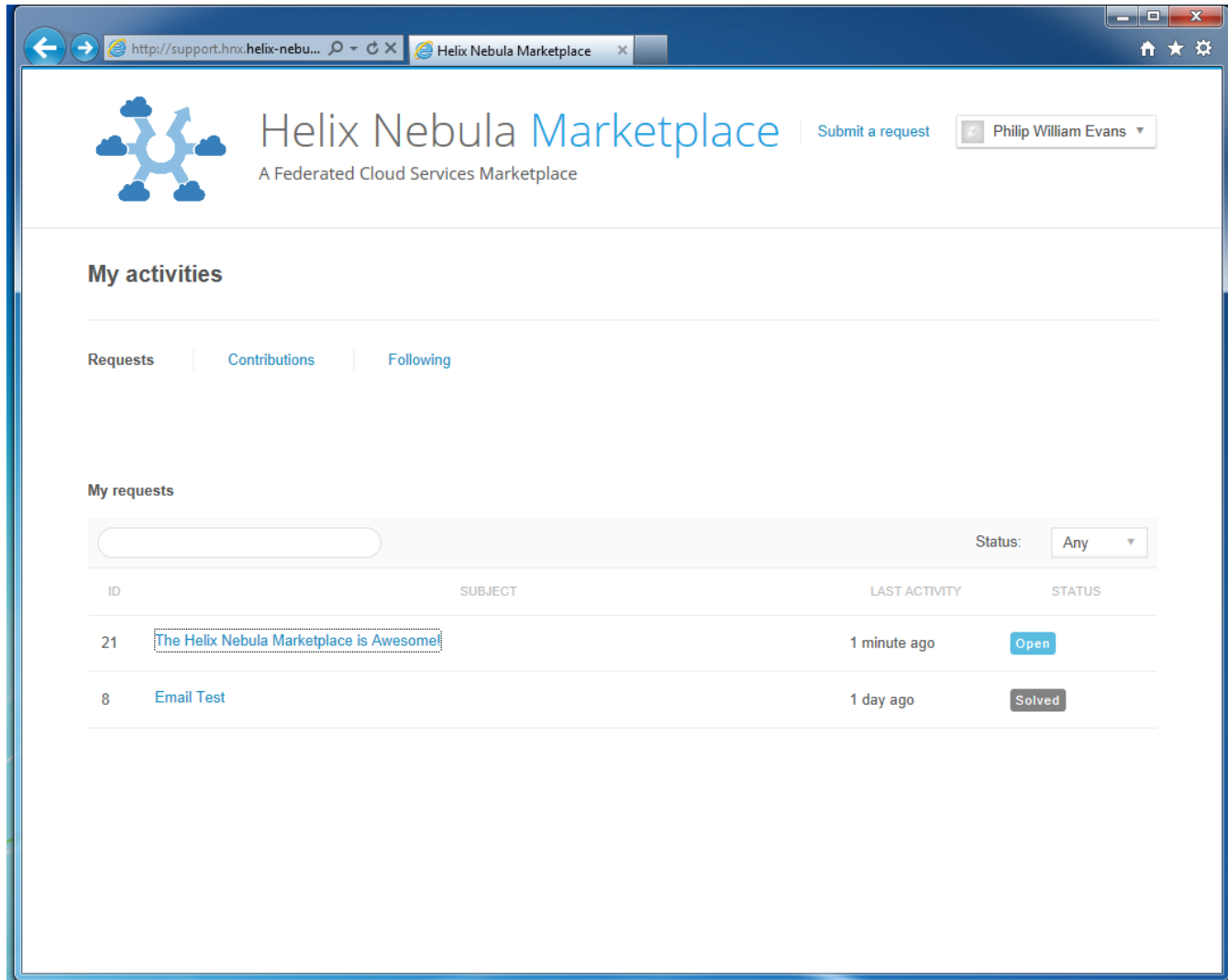
Value-Add

- Application Deployment/Architecture Consultancy
- Image Conversion
- Development
- Deployment Migration
- Security
- ...

Integrated Support

- Single point of contact for user issues
- Triage and routing of issues performed by Marketplace Operator
- Doesn't block users having access to platform specific experts

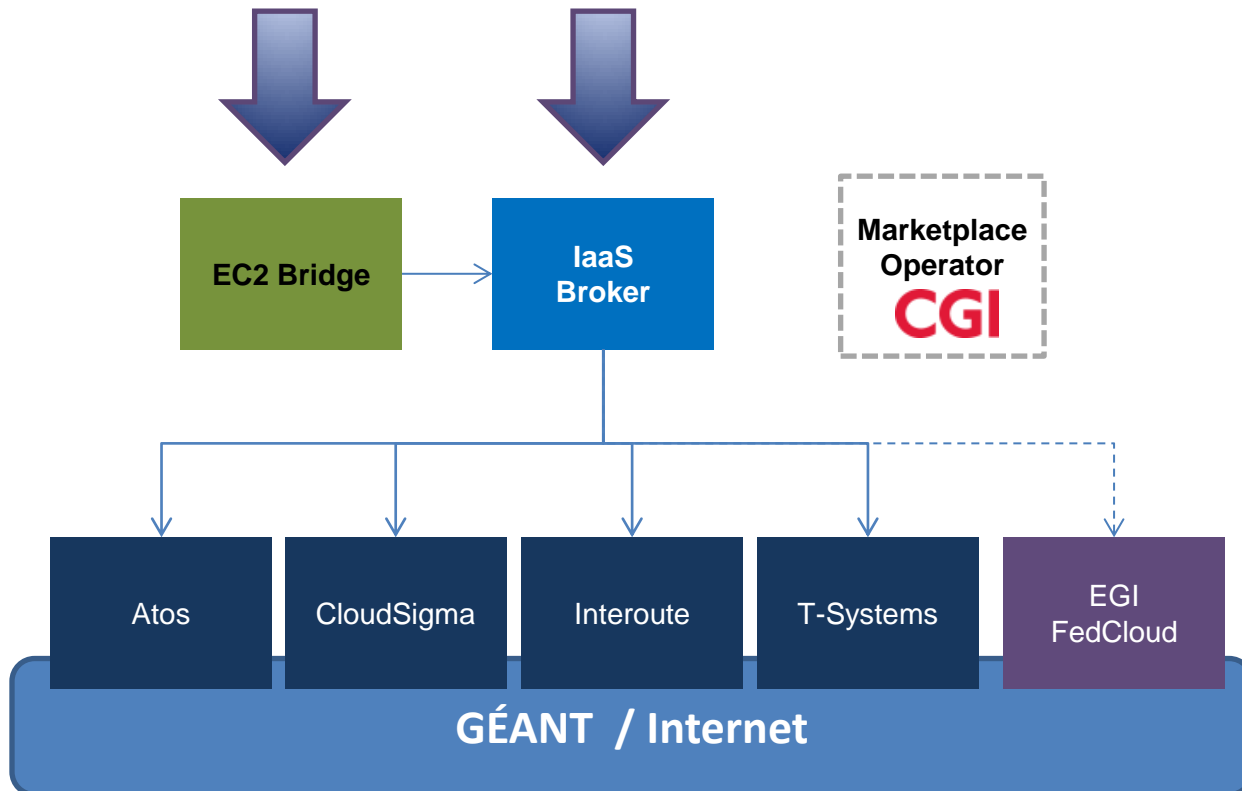




The screenshot shows a web browser window with the URL `http://support.hnx.helix-nebu...` and a tab titled "Helix Nebula Marketplace". The page header features the Helix Nebula logo, the text "Helix Nebula Marketplace | Submit a request", and a user profile dropdown for "Philip William Evans". Below the header is a section titled "My activities" with tabs for "Requests", "Contributions", and "Following". The "Requests" tab is active, showing a search bar and a "Status: Any" dropdown. A table lists two requests:

ID	SUBJECT	LAST ACTIVITY	STATUS
21	The Helix Nebula Marketplace is Awesome!	1 minute ago	Open
8	Email Test	1 day ago	Solved

HNX v1.0



Roadmap: HNX 1.0

	2Q 2014
Blue Box	SlipStream 2.1
API	SlipStream API TSL EC2 Bridge
Commercial	Bilateral Agreements - HNX Operator/User License - IaaS Provider(s) T&Cs for operator and provider services
SLAs	IaaS Provider Specific Blue Box & EC2 Bridge Availability Service Support SLAs
Support & Service Management	Integrated Support Desk FitSM
IaaS CSPs	Atos, CloudSigma, Interoute, T-Systems
Networking	High-Speed Internet + Continued GEANT Support in current form
EGI	Hybrid PoC, no production support
Catalogue	Common Resource Categories

<http://hnx.helix-nebula.eu>

