



# 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

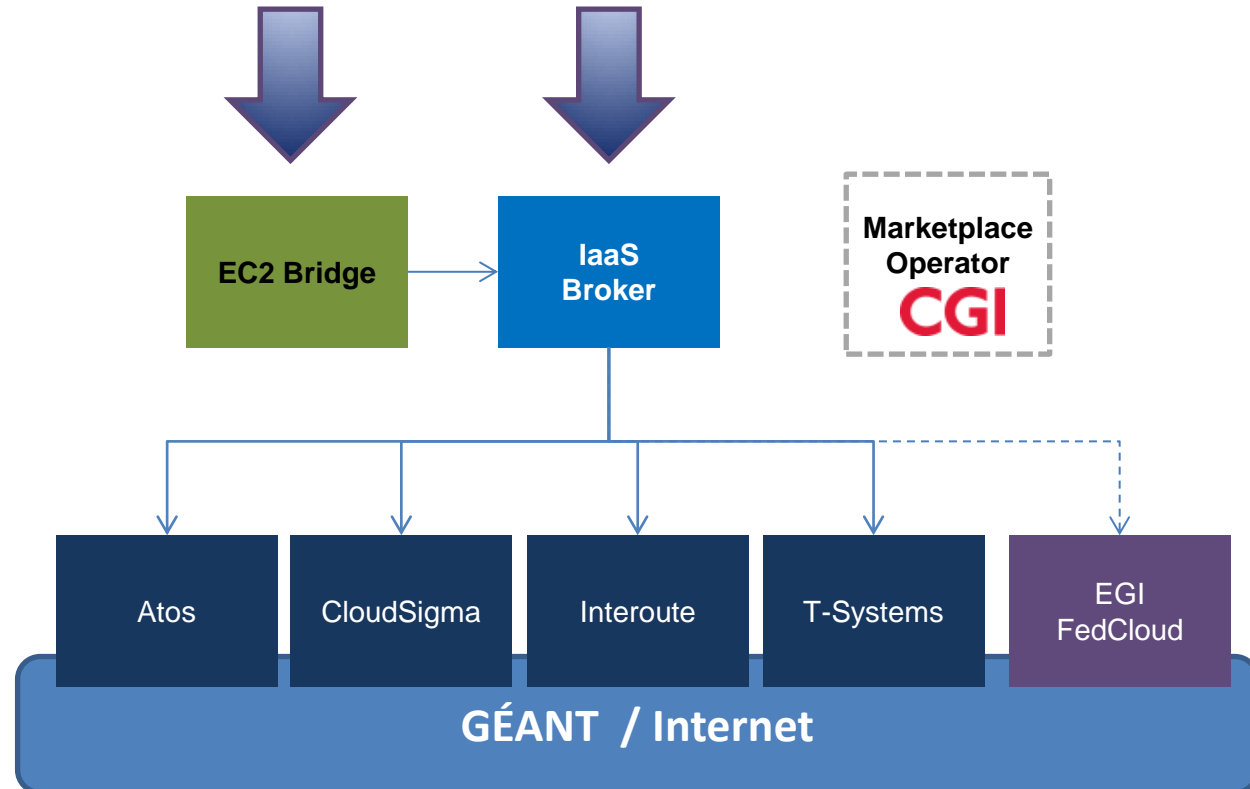


..T..Systems

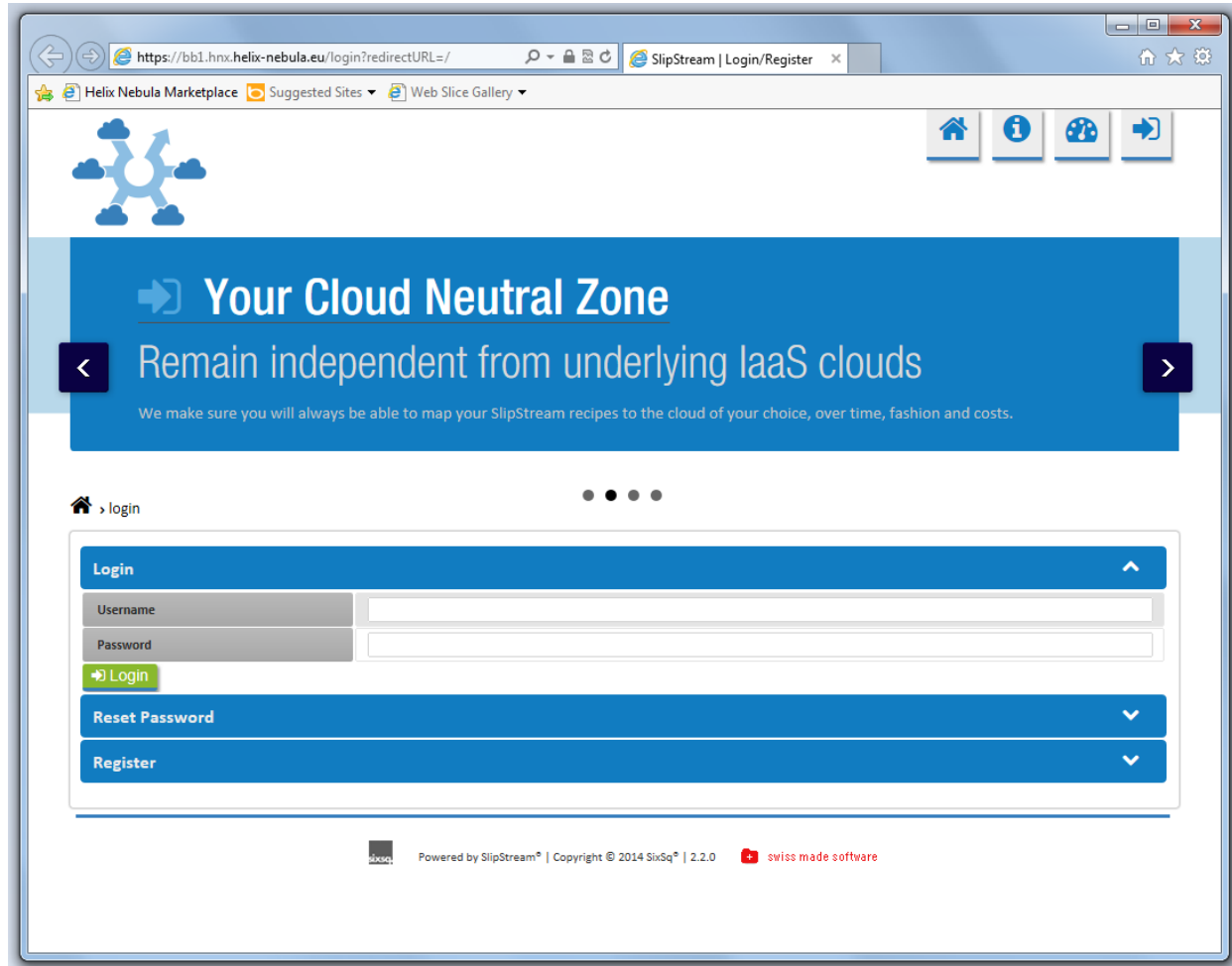


# HNX Platform

- 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



# Brokerage Platform



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" with the subtext "Remain independent from underlying IaaS clouds" and a descriptive sentence: "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" and a login form with fields for "Username" and "Password", a "Login" button, and links for "Reset Password" and "Register". The footer contains the text "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

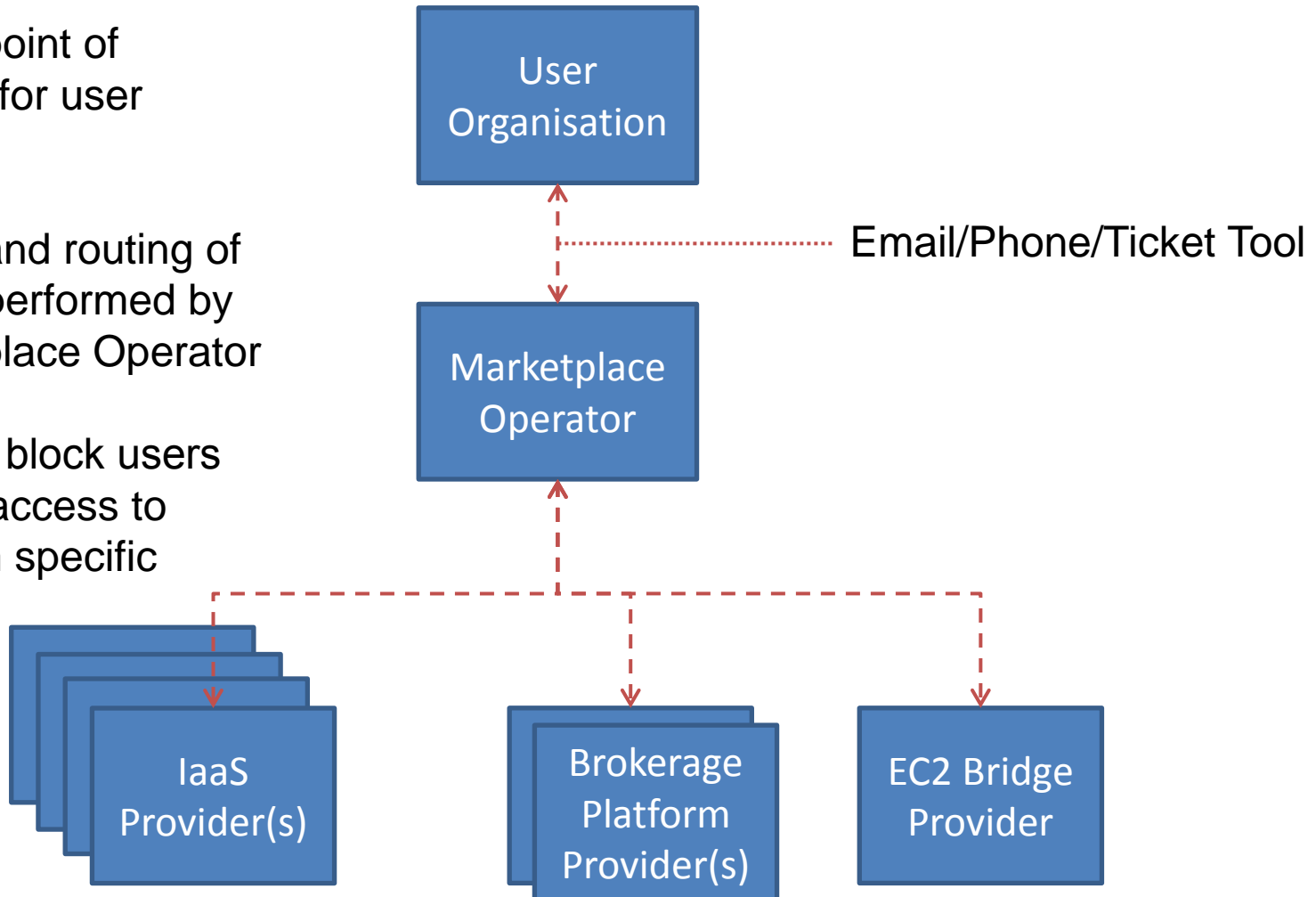
- Incident Management
- Problem Management
- Change Management
- Release Management
- Platform Monitoring
- Reporting
- etc.

## Value-Add

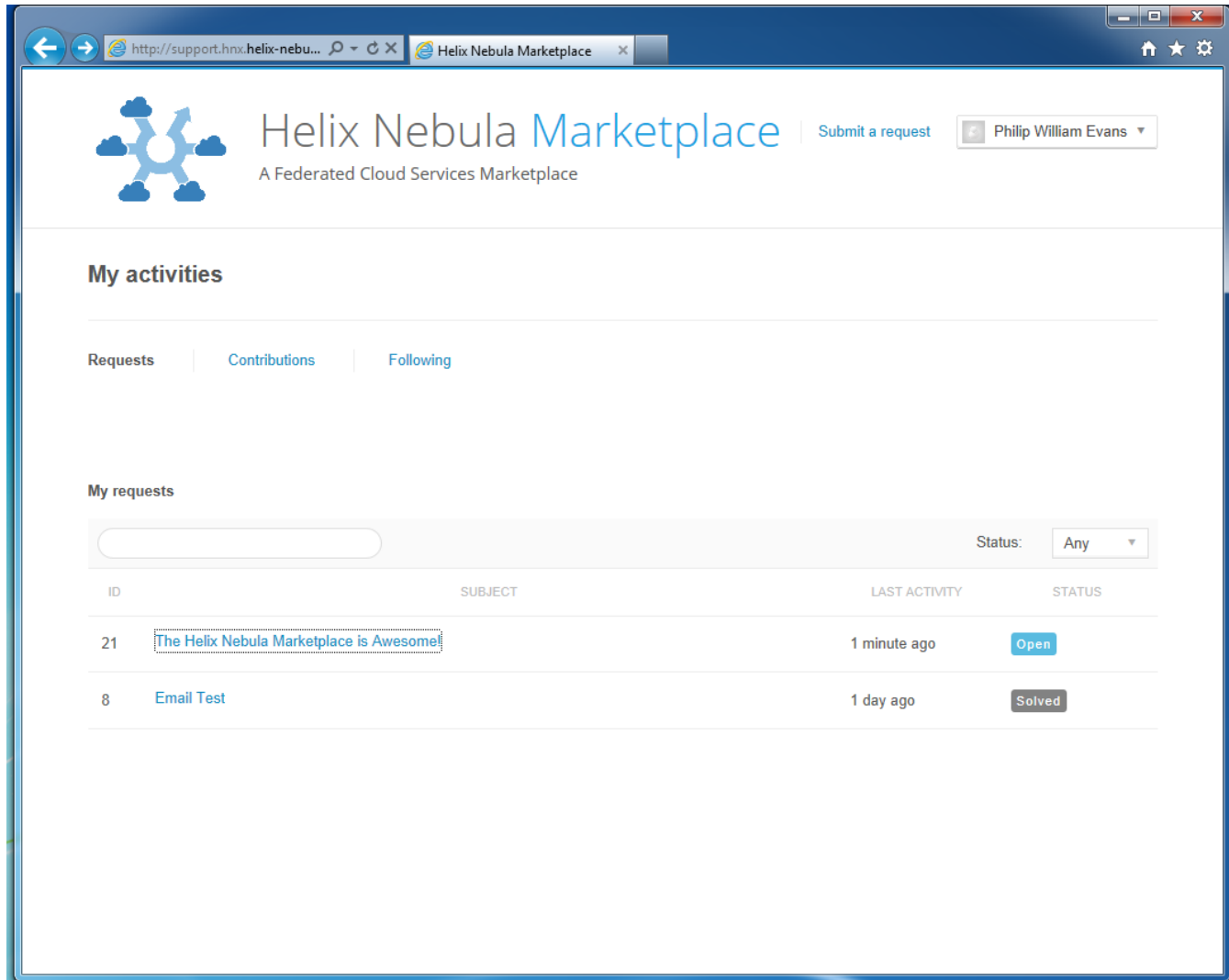
- Application Deployment/Architecture Consultancy
- Image Conversion
- Development
- Deployment Migration
- Security
- ...

# 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







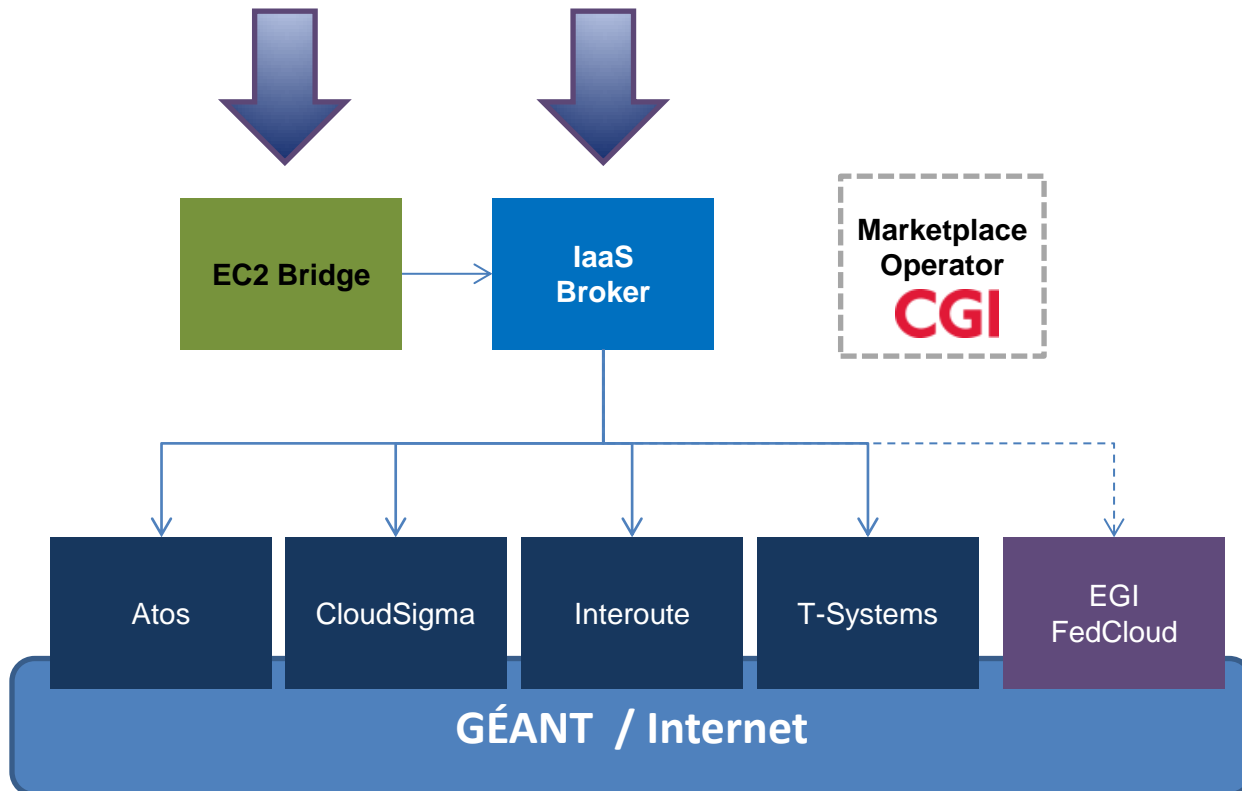
The screenshot shows a web browser window with the URL `http://support.hnx.helix-nebu...` and the page title "Helix Nebula Marketplace". The page header includes the marketplace logo, the name "Helix Nebula Marketplace", the tagline "A Federated Cloud Services Marketplace", a "Submit a request" button, and a user profile for "Philip William Evans".

The main content area is titled "My activities" and contains three tabs: "Requests", "Contributions", and "Following". The "Requests" tab is active.

Under "My requests", there is a search bar and a "Status:" dropdown menu set to "Any". Below this is a table of requests:

| ID | SUBJECT  | LAST ACTIVITY | STATUS                 |
|----|--|---------------|------------------------|
| 21 | <a href="#">The Helix Nebula Marketplace is Awesome!</a> | 1 minute ago  | <a href="#">Open</a>   |
| 8  | <a href="#">Email Test</a>                               | 1 day ago     | <a href="#">Solved</a> |

# HNX v1.0



# Roadmap: HNX 1.0

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

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

