



Helix Nebula Initiative Experience and outlook

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The Helix Nebula Initiative



Strategic Plan

- ▶ Establish multi-tenant, multi-provider cloud infrastructure
- ▶ Identify and adopt policies for trust, security and privacy
- ▶ Create governance structure
- ▶ Define funding schemes



To support the computing capacity needs for the ATLAS experiment

EMBL



Setting up a new service to simplify analysis of large genomes, for a deeper insight into evolution and biodiversity



To create an Earth Observation platform, focusing on earthquake and volcano research



To improve the speed and quality of research for finding surrogate biomarkers based on brain images

Additional Users:



Suppliers



Adopters



Timeline



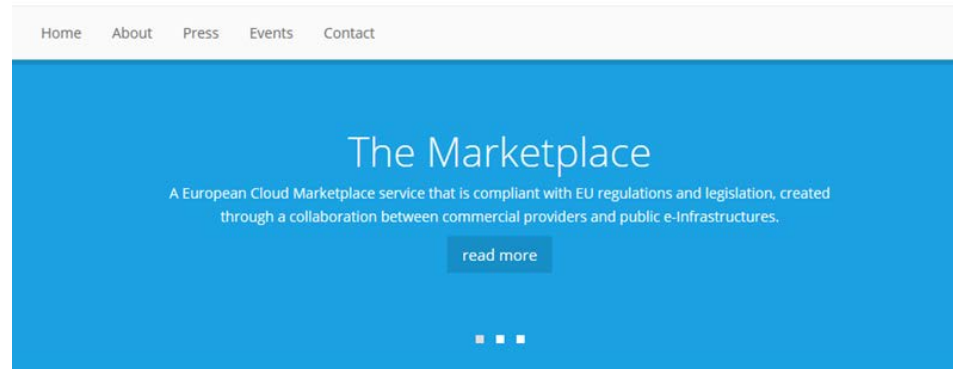
- Endorse the Common **Strategy**
- Agree on the **Partnership**
- Select **flagships** use cases
- Define **governance** model

- **Pilot** Phase
- **Deploy** flagships,
- **Analysis** of functionality, performance & financial model

- Towards an **open market for Science**

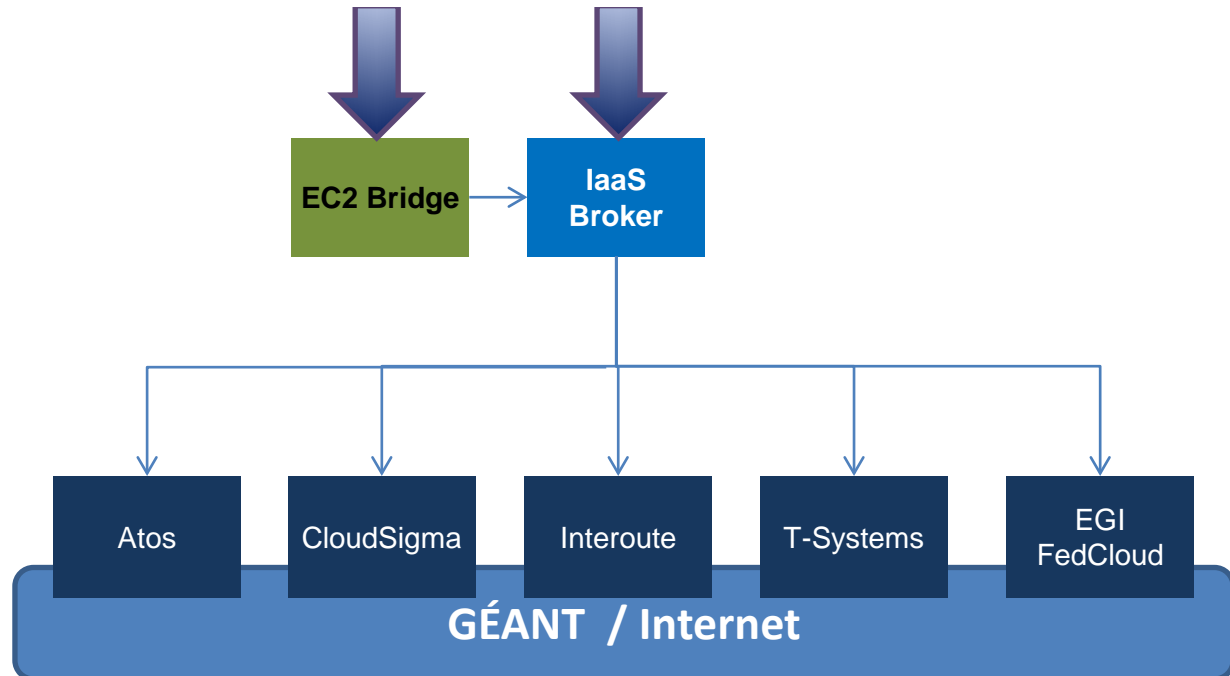
- **Full scale** Deployments
- Build a **dynamic cloud ecosystem** for science
- **Joint procurement** of innovative solutions for IT services

Branded-product # 1: HNX



Welcome to the Helix Nebula Marketplace

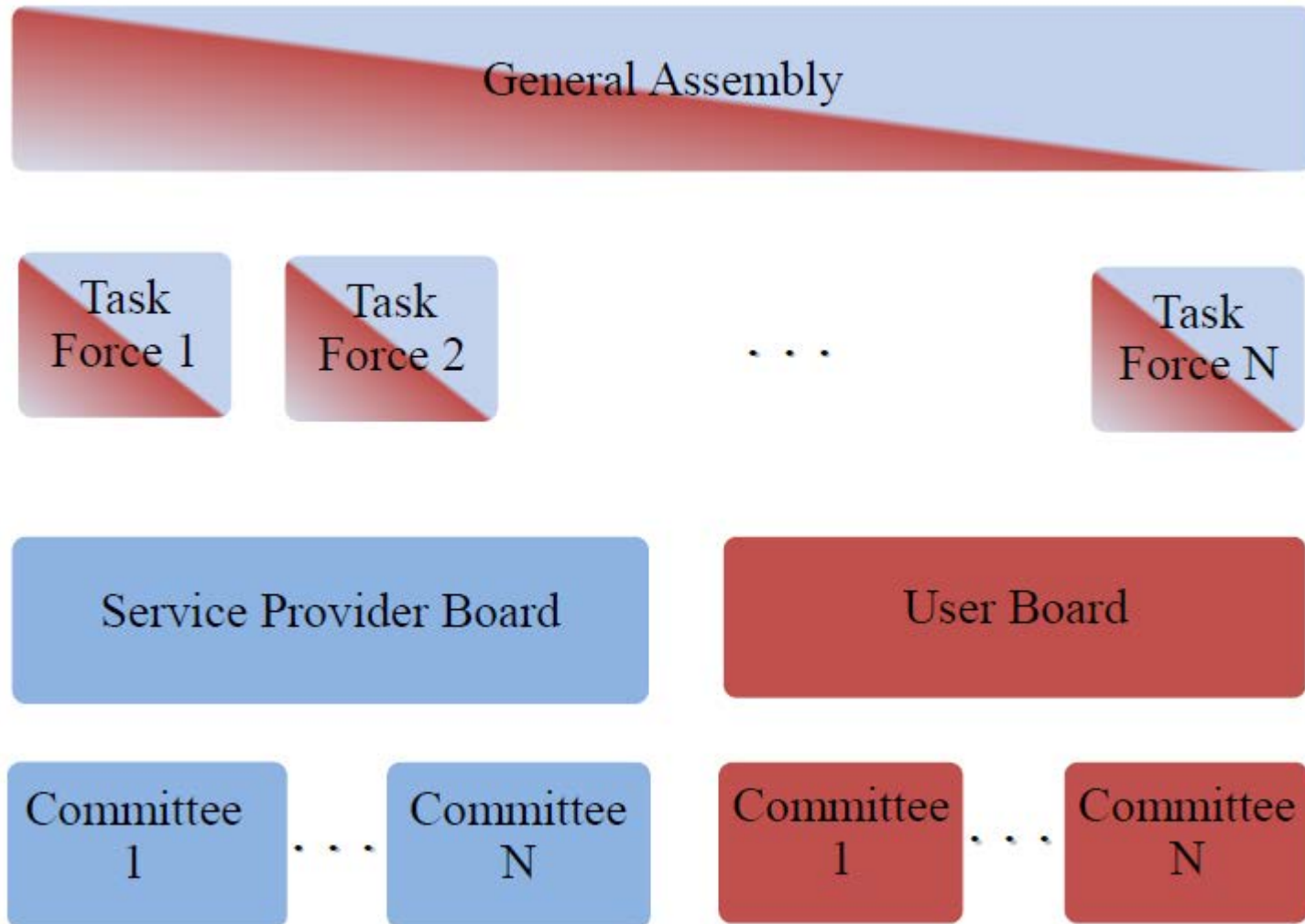
The Helix Nebula Initiative has been established by public and private organisations to build a multidisciplinary cloud platform for data intensive science.



The new Helix Nebula governance model

- ☛ Helix Nebula Initiative (HNI) open to legal entities that want to contribute to the vision and the implementation of its strategic plan
- ☛ HNI as a forum to bring together service providers and users
 - ☛ Service providers have a European character
 - ☛ *comply with the relevant European or Member States rules and regulations including those for data protection, security and intellectual property rights*
 - ☛ Users from public and private sector (global)
- ☛ Lightweight governance model (2015-2016)
 - ☛ Bylaws (governance model & membership rules)
 - ☛ Non-Disclosure Agreement

The Helix Nebula governance model



Task Forces

- Evolution of the Helix Nebula vision and strategic plan
- Conditions for an independent marketplace and brokers
- Cloud service procurement process

GEANT Networking

- support to HNX extended to end of March 2015
- Needs a decision for what to do about the collaboration after that date
- eduGAIN AAI being investigated with the suppliers
 - currently working on Authentication but Authorization is the next step where additional user attributes could help identify academic users when working with commercial cloud service suppliers
- GEANT prefers to connect suppliers directly to PoPs, alternatively via an NREN
- Supplier to supplier traffic needs to be monitored
- Could be an issue of scalability if there are many more suppliers
- OCX could offer means for providing Network as a Service to support the marketplace