What collaboration can do for higher education and research

DEVELOPMENT AND SUPPORT OF E-INFRASTRUCTURE FOR R&E IN THE NETHERLANDS



14th Annual Global LambdaGrid Workshop 29 September - 1 October 2014 Queenstown, NZ Kees Neggers, CEO SURF



Pioneering ICT innovations

 SURF unites Dutch higher education and research institutions in pursuing improvements in education and research through pioneering ICT innovations.

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SURF is a partnership of

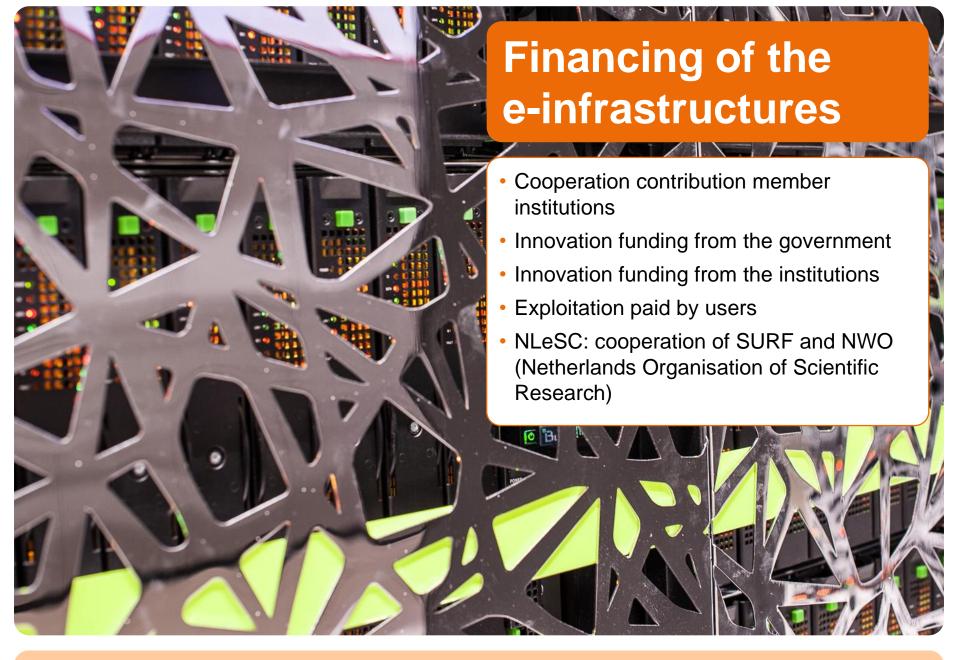
- 14 research universities
- 42 universities of applied sciences (hogescholen)
- 8 university medical centres
- National Library of the Netherlands
- Netherlands Organisation for Scientific Research (NWO)
- Royal Netherlands Academy of Arts and Sciences (KNAW)
- Institutions for vocational education (recently admitted)



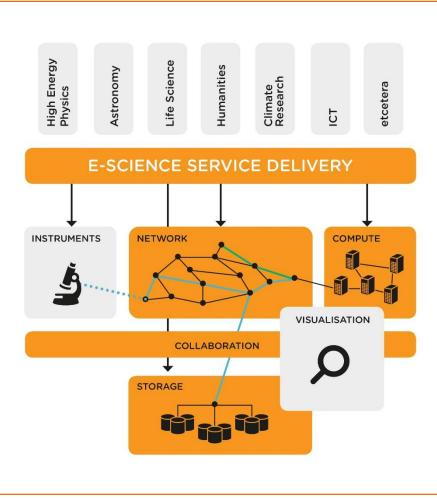
History of SURF

- 1987 SURF
- 1988 SURFnet
- 1991 SURFmarket
- 2000 Platforms Education, Research and Business Administration
- 2008 ICTRegie recommendations
- 2011 Netherlands eScience Center
- 2013 SURFsara (SARA since 1971)
- 2014 Restructuring



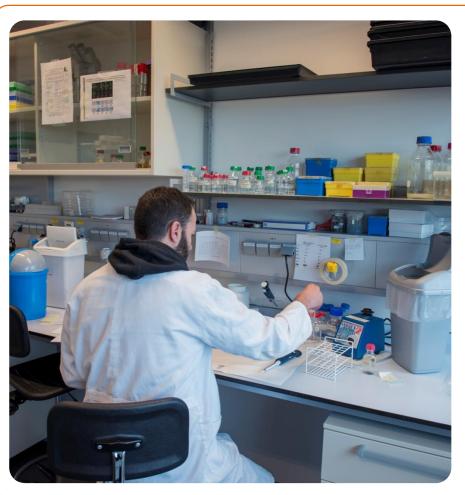


E-infrastructure ecosystem

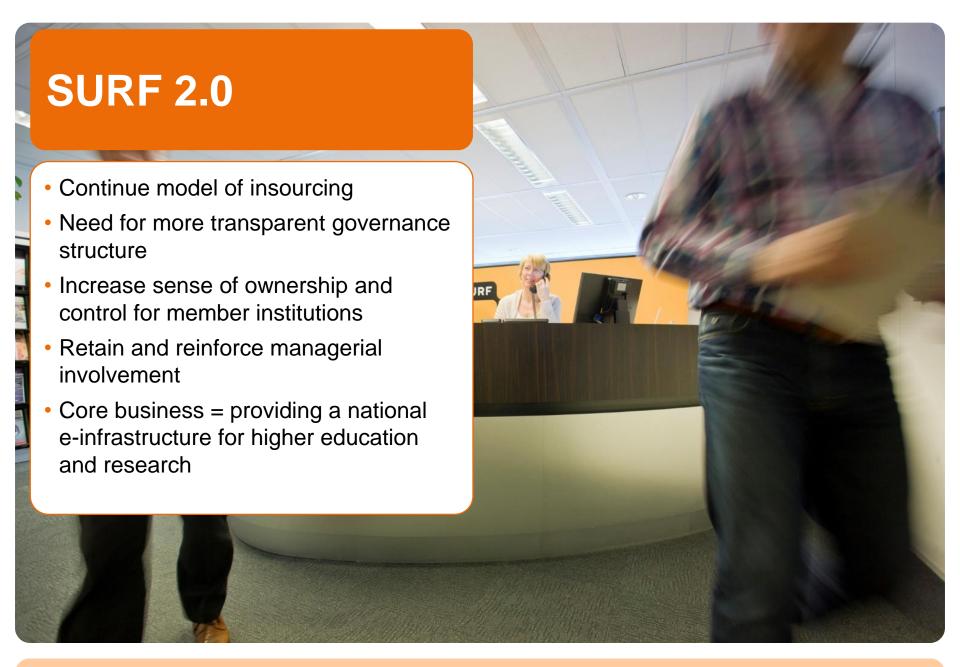




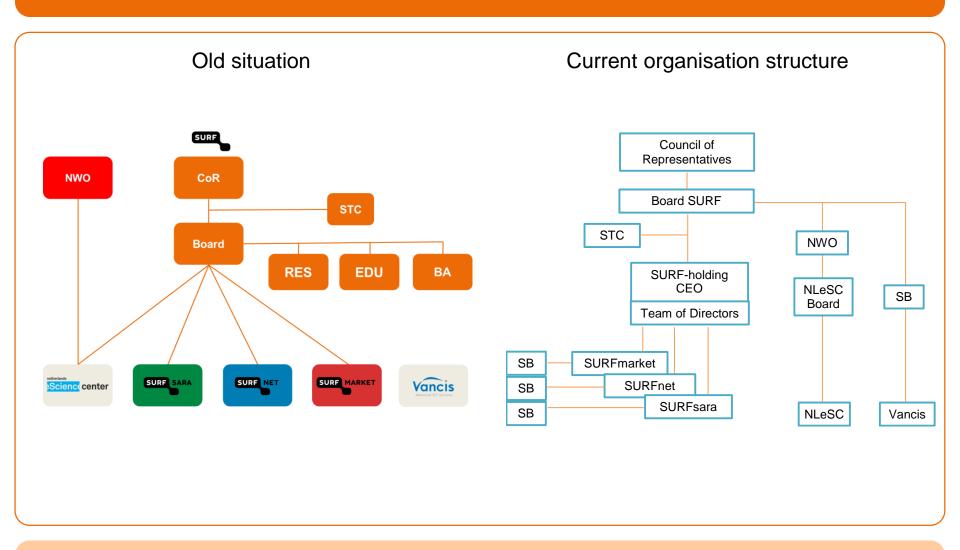
Single support desk for researchers



- Separate components of the e-Infrastructure will be offered as an integrated service for researchers.
- Coherent offering of network services, (HPC) computing and data facilities, and new services provided by The Netherlands eScience Center.
- Support for research programme has been worked out in 2014

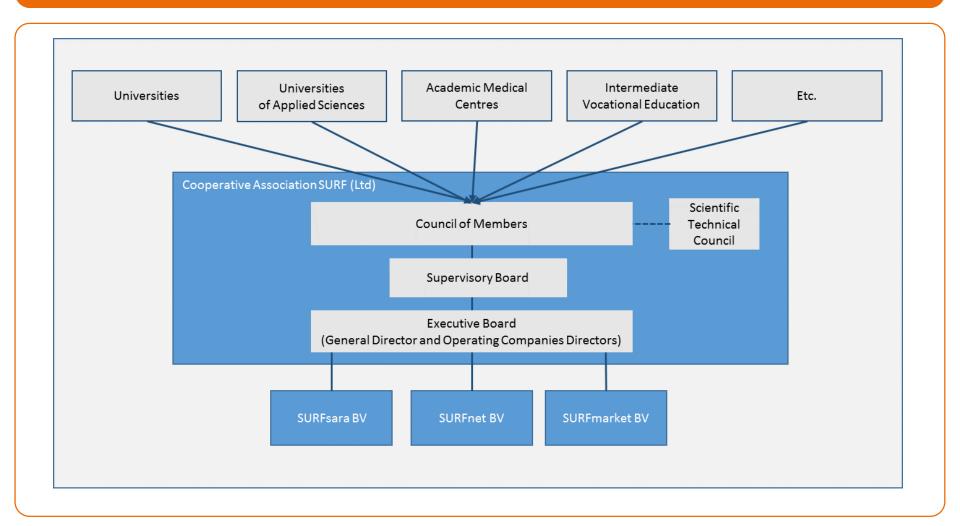


New organisation as of 1 july 2014



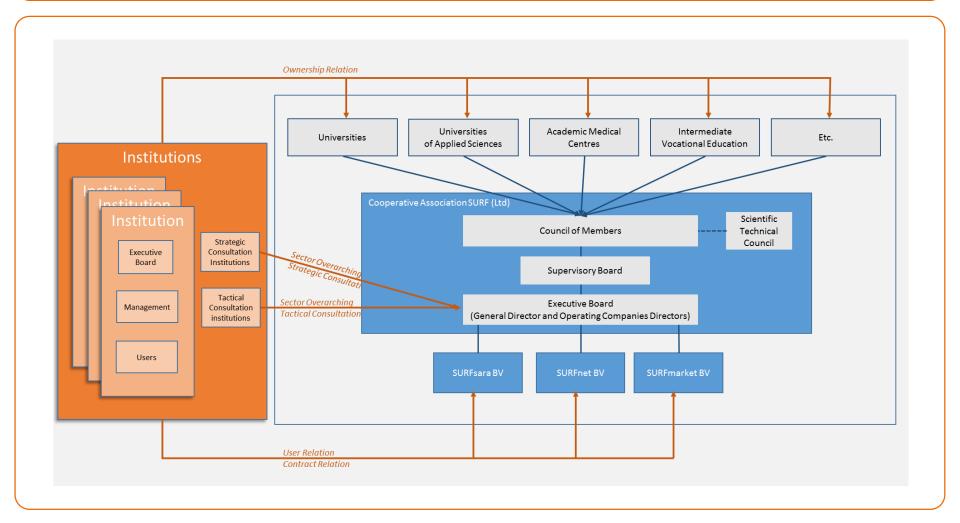


Next step: SURF as cooperative association





Relationship with member institutions

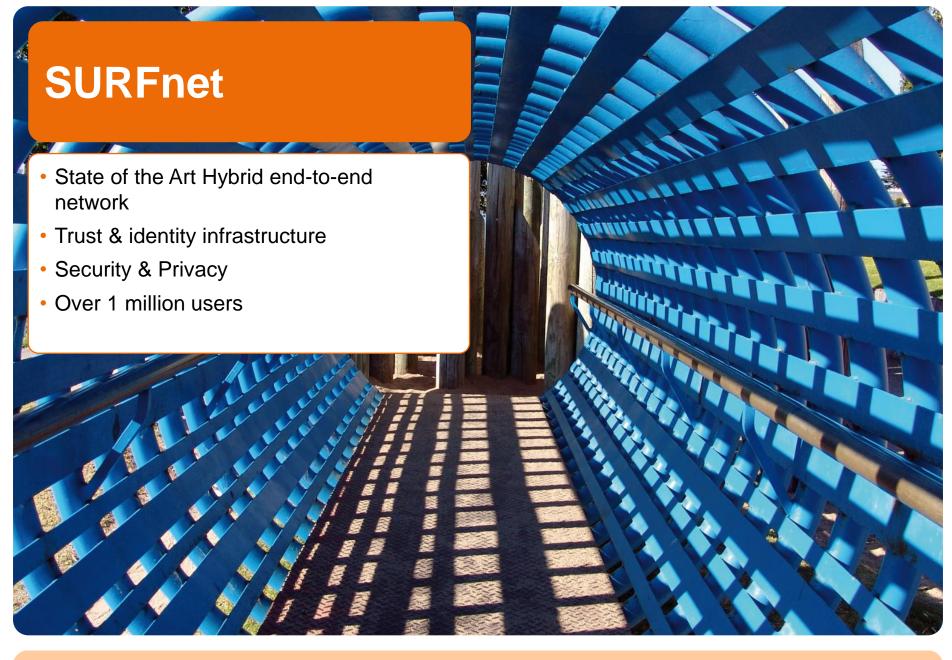




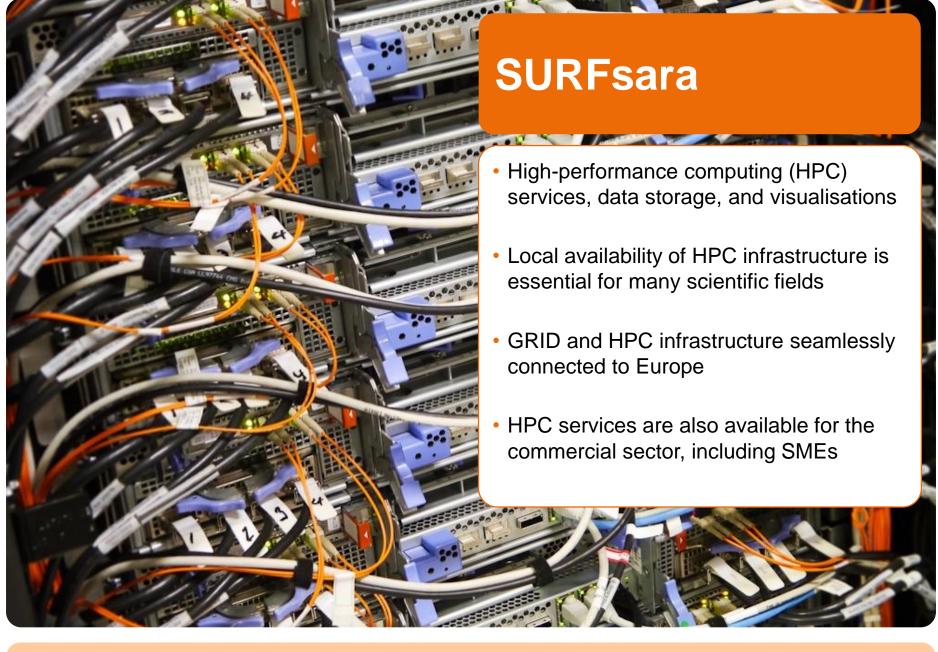
What SURF can do

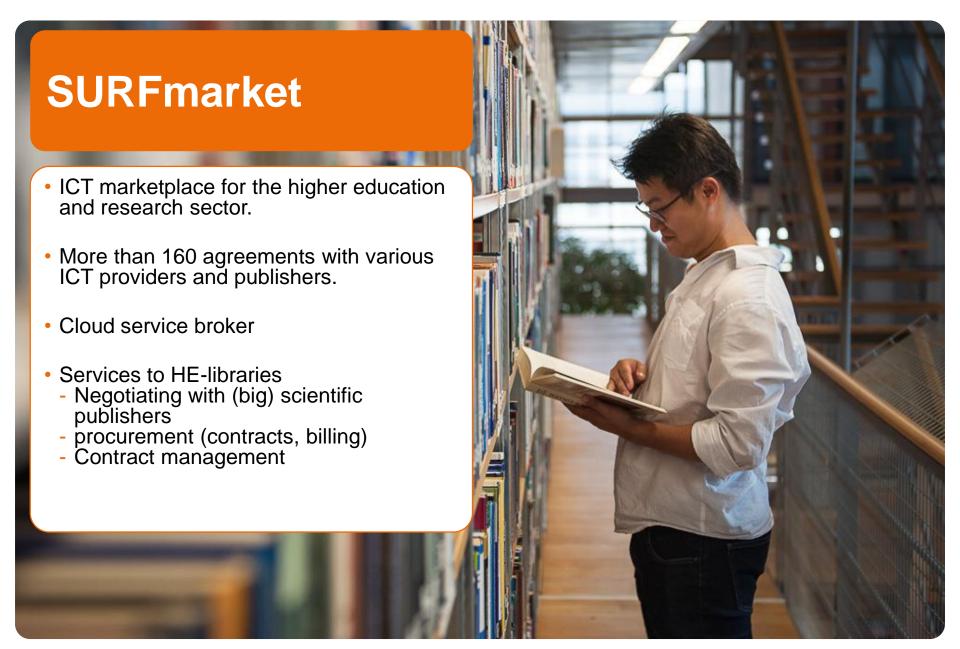






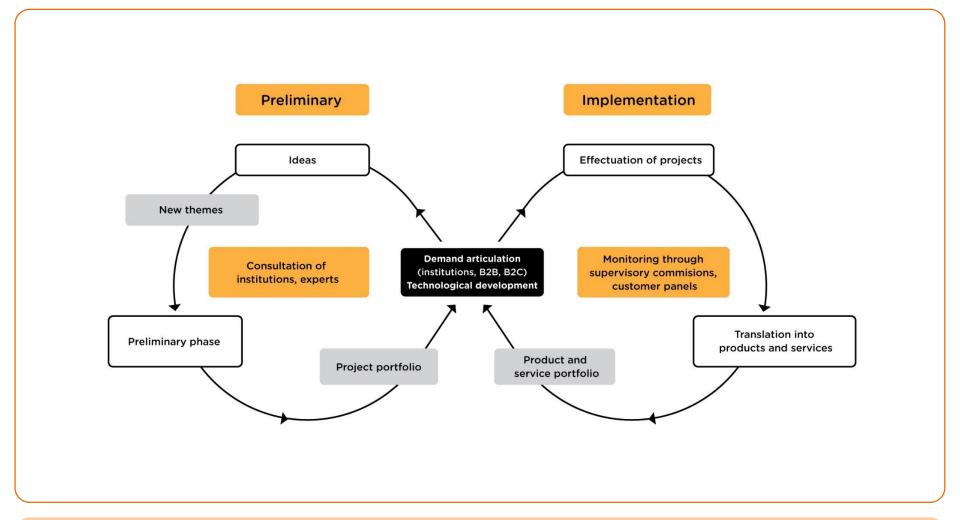






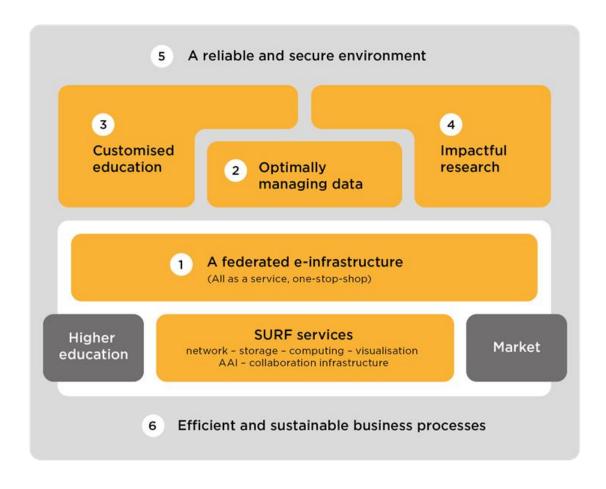


Innovation process





Strategic themes 2015-2018





1. A federated e-infrastructure for education and research

- Goal: e-infrastructure for top-level research, excellent and high-quality innovation
- Innovation agenda
 - Implementing an innovative, sustainable e-infrastructure
 - Authentication and Authorisation Infrastructure (AAI)
 - Data storage
 - Computing facilities
 - Visualisation tools
 - Network infrastructure
 - Collaboration infrastructure
 - Providing the accessible e-infrastructure as a service
 - State-of-the-art
 - Collaborations
 - Technology partner and knowledge bank
 - One-stop-shop
 - Community cloud



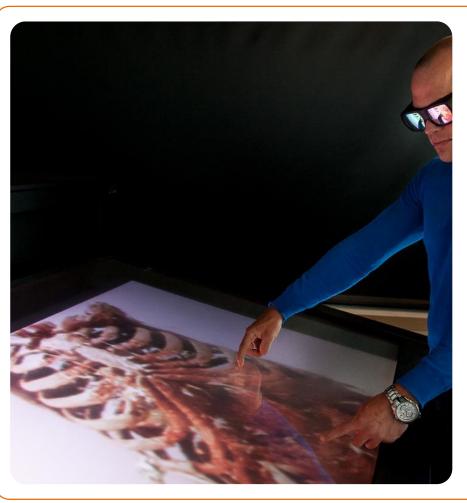
2. Optimally managing data

- Goal: Sustainable data services
- Innovation agenda
 - Providing a platform designed for the optimal use of data in education and research
 - Organising data life cycle support for the education and research community
 - Supporting the process for the sustainable storage of research and education





3. Customised education



- Goal: facilitating personalised education
- Innovation agenda:
 - Organising an integrated services portfolio for the education community in association with institutions and market parties
 - Organising, in association with institutions and market parties, a secure and reliable digital environment for supra-institutional and other forms of collaboration and exchange in the education process
 - Providing a platform for building and sharing knowledge and professionalising

4. Impactful research

- Goal: Optimal support for research
- Innovation agenda:
 - Supporting researchers in making effective use of ICT resources
 - Providing a flexible research and collaborative environment
 - Facilitating the digital publication process (open access) of scientific and practicebases publications



5. A reliable and secure environment



- Goal: Trust, security and privacy
- Innovation agenda
 - Ensuring ICT services are optimally secure and reliable in assocation with the institutions and other stakeholders

6. Efficient and sustainable business processes

- Goal: working efficiently and sustainably as a result of ICT
- Innovation agenda
 - Encouraging and supporting collaboration on and sharing knowledge of efficient business processes
 - Promoting and supporting collaboration on and sharing knowledge of sustainable business processes









Thank you for your attention!

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