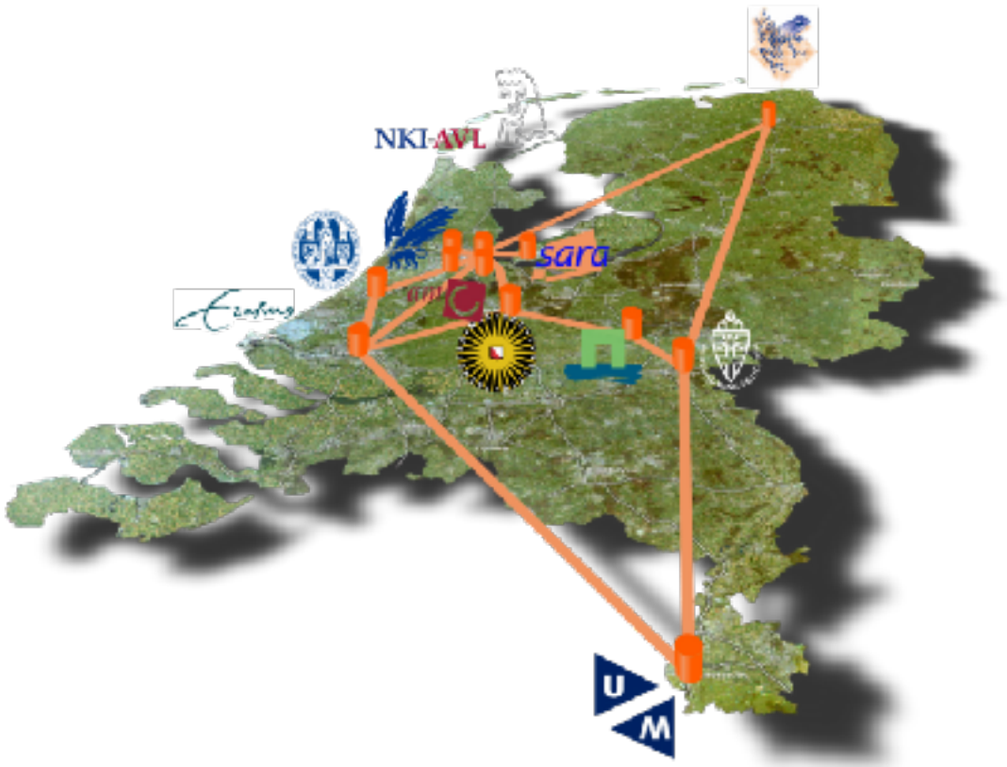
Life Science Grid migration



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Nijmegen 13 April 2018

SURF SARA

Life Science Grid

- Started in 2007
- 11 local interconnected clusters :
  - KUN, EMC, AMC, LUMC, WUR, TUD, RUG, BCBR, UM, VU, AMS
- Capacity: +/- 12 000 cpu cores, peta bytes of storage
- Aimed to compute and data intensive applications
- Resources meant for life science researchers

Decommissioning

- Why do we stop with the LSG?
  - Decline in LSG usage vs. high operational cost
  - Increase of demand in centralised SURFsara services
- What will happen?
  - All 11 LSG clusters will be take offline
  - The large central Grid clusters at NIKHEF and SURFsara will remain
- When is it ending?
  - Wave 1 clusters WUR, EMC, TUD, KUN, AMC, VU, BCBR: **7 May 2018**
  - Wave 2 clusters RUG, LUMC, UM: **4 June 2018**
- What is next?
  - For active projects we offer a suitable replacement at SURFsara

https://userinfo.surfsara.nl/documentation/decommissioning-life-science-grid

SURFsara services

- **Cartesius** national Supercomputer
- **Lisa** national compute cluster
- **Grid**: interconnected clusters across NL
- **Oort** HPC Cloud cluster
- Scalable Data Analytics
- Central Archive, Beehub, SURFdrive, PIDs, Ingest Service for Data Services
- …, Visualisation, Networking, Consultancy, Innovation

Migration to Cartesius

- It is the chosen platform for multifac and other local LSG users
- It has similar functionality to LSG
- It can fit a variety of workloads
- It has a well supported software stack
- All valuable code, scripts and data needs to be moved
- Access is granted until the end of 2018, without the need for a separate application request!

Future service @SURFsara

- High-Throughput Data Processing service
- Aimed at Data Processing & Collaboration
- Scalable cluster (SLURM)
- Scalable local filesystem (CephFS)
- Access to multiple storage solutions (dCache, SWIFT, S3)
- Scalable SW distribution (Softdrive)
- Scalable infrastructure (Openstak)
- … and more!

Contact

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