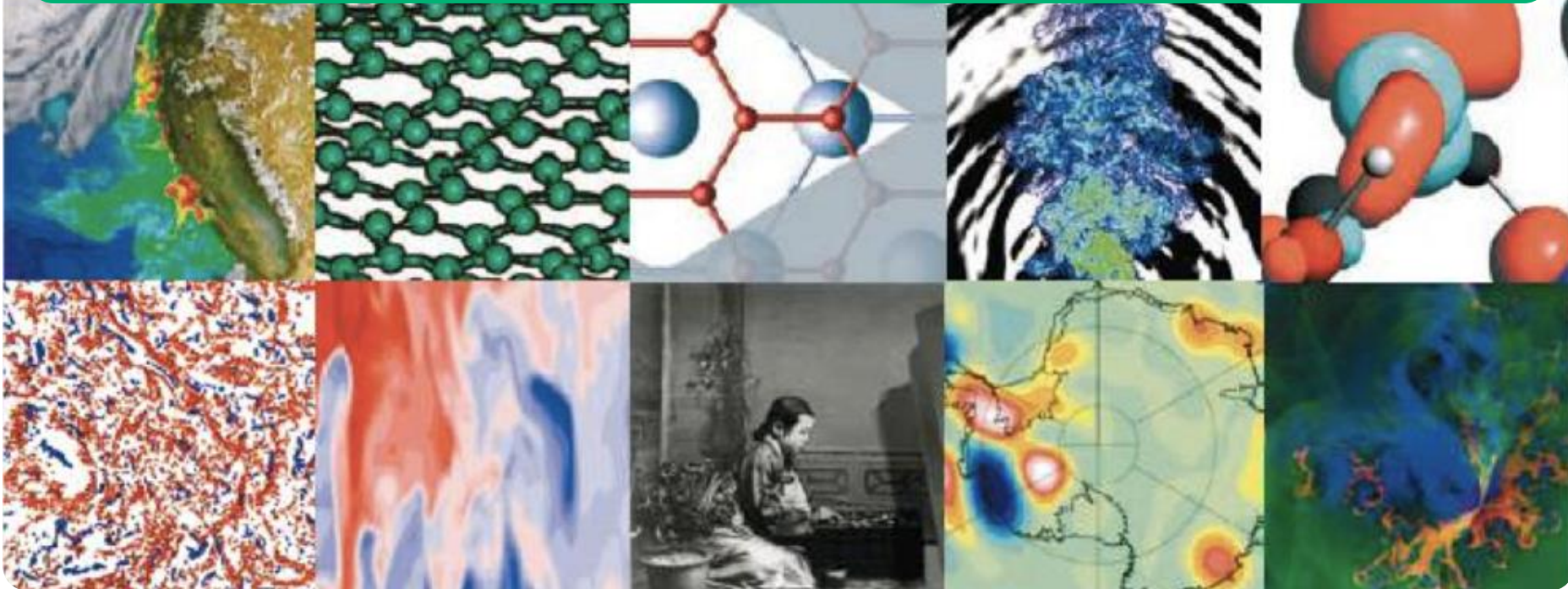# Update from NL-T1

Bas Kreukniet, Network Specialist at SURFSARA
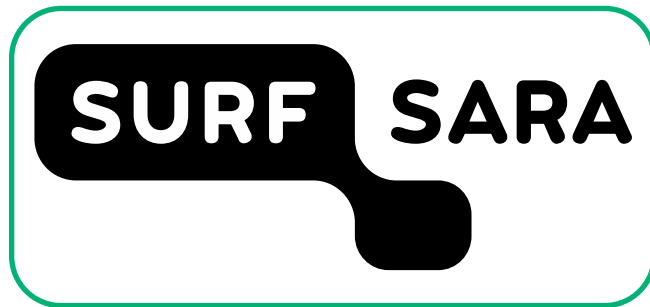
Paris Meeting 17-18 June 2013

SURF SARA

Organisation NL-T1

Organisation SARA (2010-2012)

Foundation SARA

Not-for-profit activities

Commercial activities

SURF & SARA foundations (–2012)

SURF — since 25 march 1987

sara — since 11 juni 1971

SURF NET — National Research & Education Network

SURF MARKET — Commercial ICT products & software licences

SURF SHARE — Shared educational services
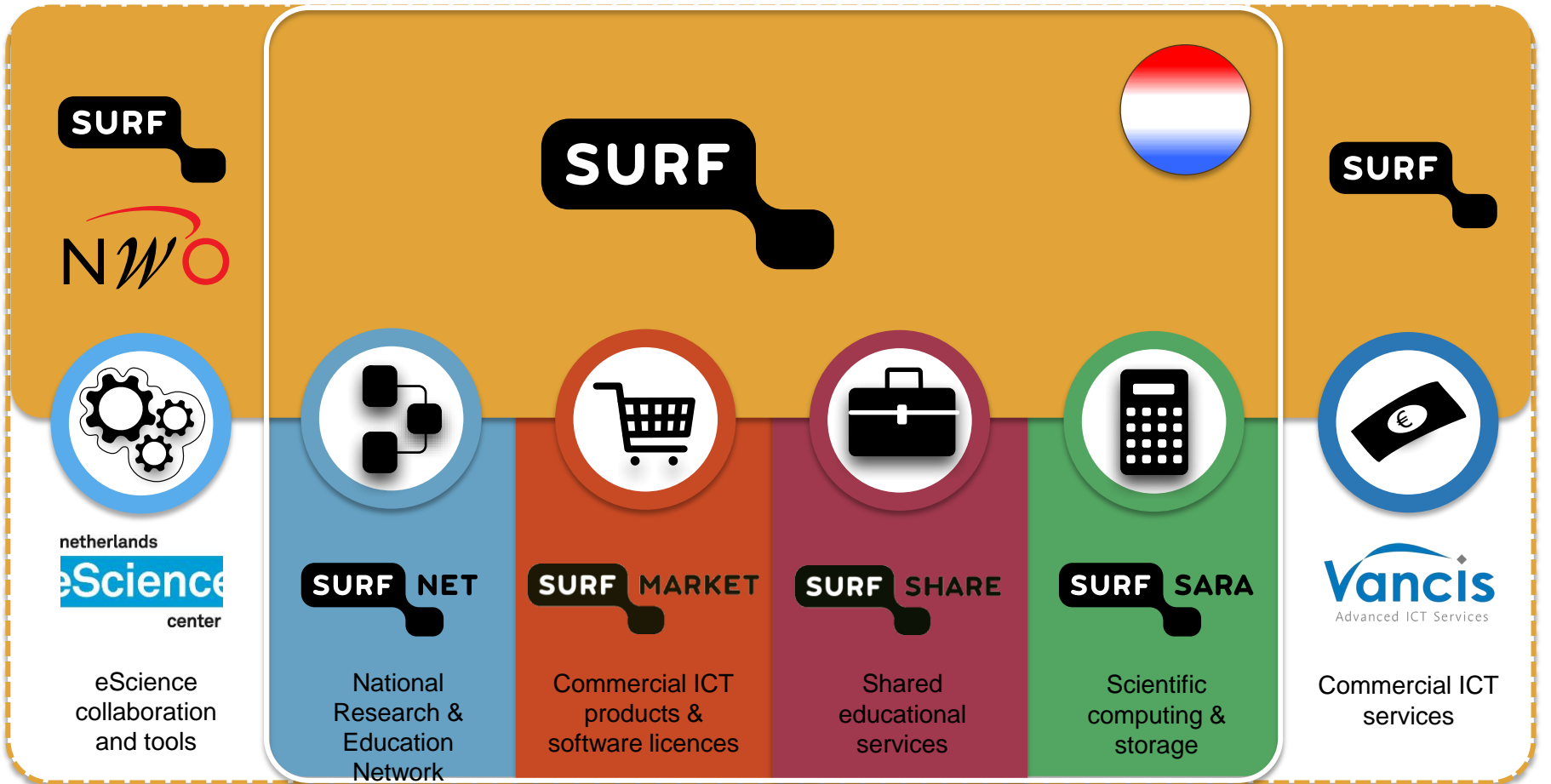
sara — Scientific computing & storage

Vancis Advanced ICT Services — Commercial ICT services

SURF SARA

Merger SURF & SARA foundations (2013–)

eScience collaboration and tools

National Research & Education Network

Commercial ICT products & software licences

Shared educational services

Scientific computing & storage

Commercial ICT services

Side-Note: SURFnet NOC

SURFnet has always outsourced their NOC:
- SURFnet 1-5: SARA
- SURFnet 6: Telindus & SARA
- SURFnet 7: Telindus & Vancis

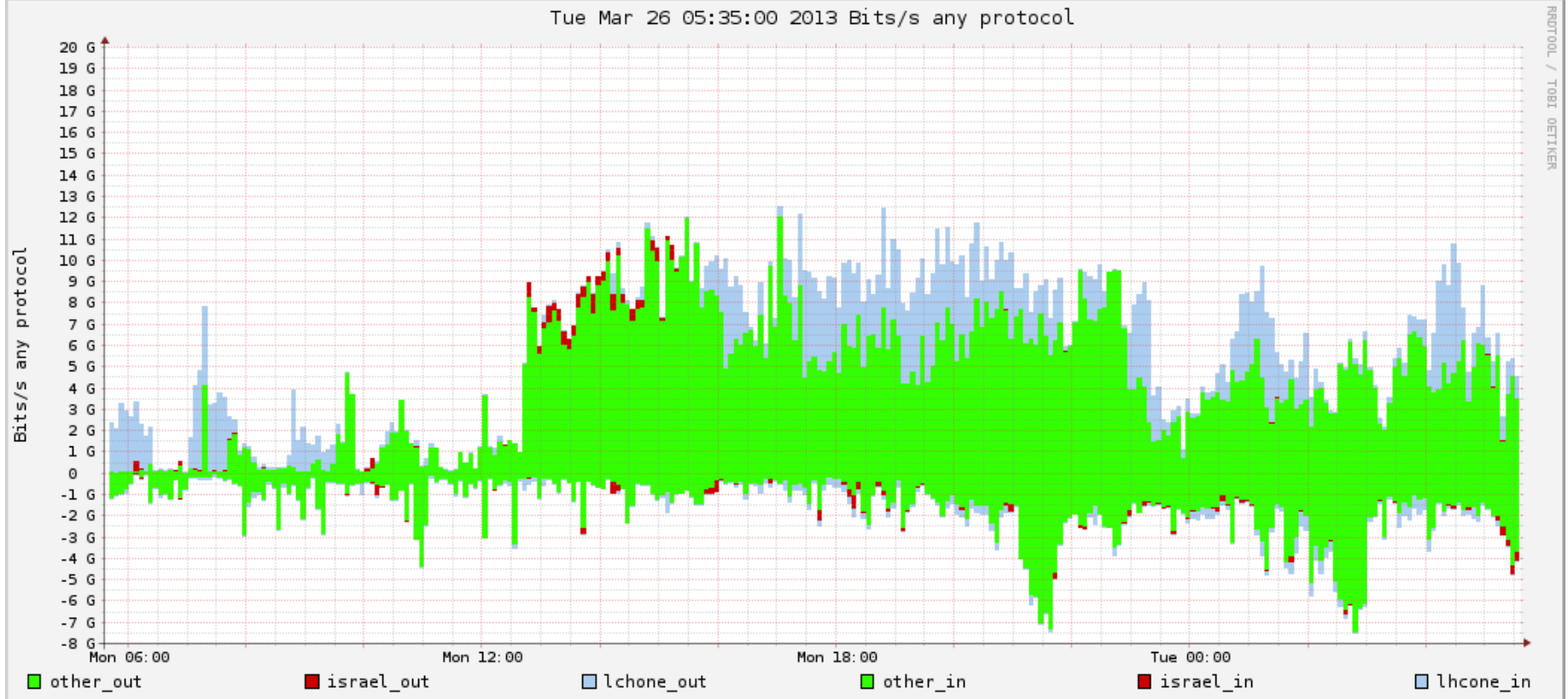*SURFsara is no longer involved in SURFnet operations.*

Recent Changes SURFsara

- New AS number: AS1162
  (Vancis retains AS1126)

- Teamleader Networking Group since 1 February:
  Freek Dijkstra

LHCONE operations

NL-T1 – LHCONE: upgrade from 1 Gb/s to 10 Gb/s.

LHCONE Traffic

30%-40% of the outgoing traffic on our uplink is LHCONE related.

LHCONE innovation

Not (yet) involved in LHCONE innovation
- **NL-T1 is no longer working on TRILL/802.1aq after Ronald van der Pol left for SURFnet (dec 2012). We're still interested, though.**

Involved in NSI innovation elsewhere:
- **Freek is chair of NML (standardisation of network topology description).**
- **We will publish NML/NSI-compatible topology of our (production) network.**

Presentation at Glif, during Terena, Maastricht 2013:
http://www.glif.is/meetings/2013/summer/dijkstra-nml.pdf
- **We have written an OpenNSA client (2010). Sander Boele is changing this to a NSI client.**

LHCONE operations & innovation

Ethernet OAM integration with monitoring tools Nagios and Cacti

https://tnc2013.terena.org/core/presentation/131