Welcome @Science Park Amsterdam

Workshop on Cloud Services for Synchronisation and Sharing (CS3)

January 30th – February 1st 2017
Amsterdam, The Netherlands

Prof. dr. Anwar Osseyran
Member Executive Board SURF, CEO SURFsara
A World of Science in a City of Inspiration
The SURF cooperative serves as a joint platform where Dutch universities, research institutions and senior secondary vocational education institutions work together to improve the quality of research and education by ICT innovations.
SURF provides more than 1 million students, teachers and researchers in the Netherlands the best possible ICT facilities.
SURFsara: Our Mission is HPC for Innovation

The mission of SURFsara within SURF is 2-fold:

- Provide High Performance Computing (HPC) & Data Services to Science & Education
- Deploy HPC for the Knowledge-Economy

SURFsara is the Dutch national HPC & Data Center

(*) High Performance Computing
ICT: the Driver for innovation

- Continued exponential increase in data gathering
  - Sensors and IoT
  - Social Networks and Big Data

- Continued exponential increase in Compute and network speed
  - We can simulate real time what experiments can’t do

- Clear impact of ICT on science, innovation and competitiveness
SURFsara

Expertise | Consultancy | Training | Analysis | Optimisation

High Performance Computing
- Supercomputing
- Cluster computing
- Cloud computing

Data processing
- Data analytics
- HPC Cloud
- Grid services
- Visualisation

Data services
- Mass Online Storage
- PID service
- Data management
- Preservation

Innovation & Collaboration
Oracle Exec: All Our Apps Will Be Cloud Apps

by Barb Darrow  @gigabarb    JANUARY 20, 2016, 11:34 AM EDT

It’s a question of when, not if, customers’ applications will make the cloud transition.

Oracle is treading a fine line in its conversation with big customers that run its enterprise software applications in-house.

The database-and-applications giant says it will continue to support those legacy applications—things like E-Business Suite, Hyperion, and Siebel that run on customers’ servers. But, going forward, it fully expects all of those applications—100% of them—to move to the cloud.
Need for Open Federated R&D infrastructure

- Need for Open federated infrastructures in which researchers can share data and resources.
- “Collaboration between institutions is key to scaling and sustainability.”
- Privacy is an issue that has to be resolved in the interest of the community too.
- Seek Public-Private Partnerships
Hybrid Federative Community Cloud

Open Science Cloud

Hybrid federative Open Science Cloud (data center, network, compute, storage, applications, open data, support) of High-end to Commodity

Users

- National Research-priorities (Big Science)
- Long-tail of science
- Higher education
- Users of institutions

Cloud suppliers

- European e-infrastructure (PRACE, GEANT, EGI, EUDAT)
- SURF national e-infrastructure
- Commercial Cloud providers
- e-infra of the institutions

Trust

Safe
To Finish with: Sustainability is Paramount in Amsterdam

“64% OF THE DUTCH DATA CENTER FLOOR SPACE IS LOCATED IN THE AMSTERDAM REGION”

Consortium Green IT
Amsterdam objectives:
- “Greening of IT”
- “Greening by IT”
- Stimulate Green Economy

“In the last five years the Amsterdam data center market doubled in size. This means an average annual growth of 15%”

Source: State of the Dutch Datacenters, DDA, 2016
Thank You & Wish you a Fruitful Workshop…