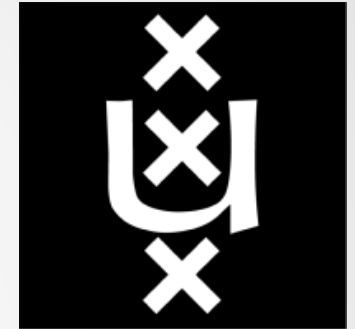


Distributed System research:



Reggie Cushing, Spiros Koulouzis, Mikolaj baranowski,
Adam Belloum, and Marian Bubak

System and Network Engineering group

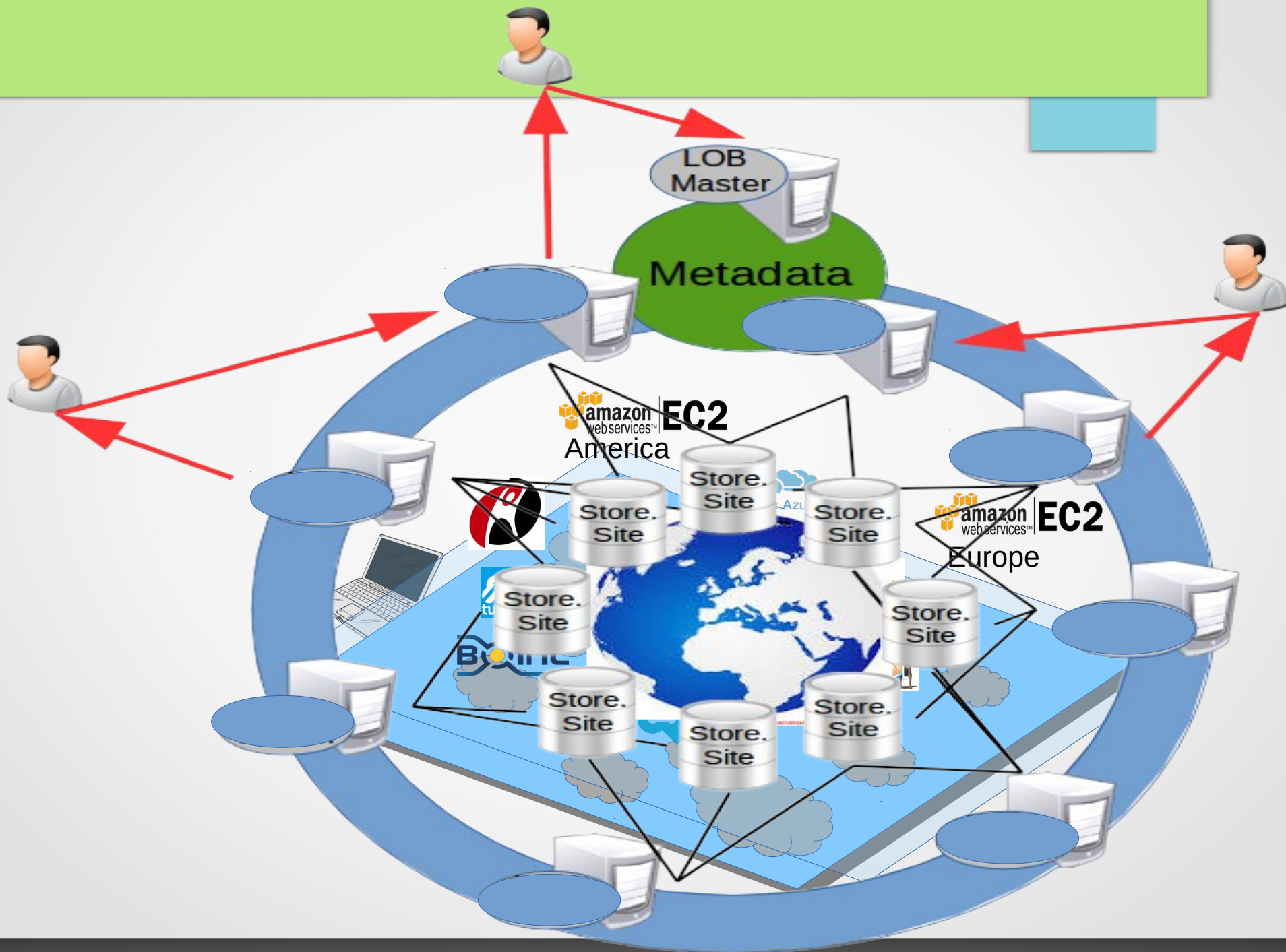
University of Amsterdam

Student meeting for MSc project, 04.12.2014 Room

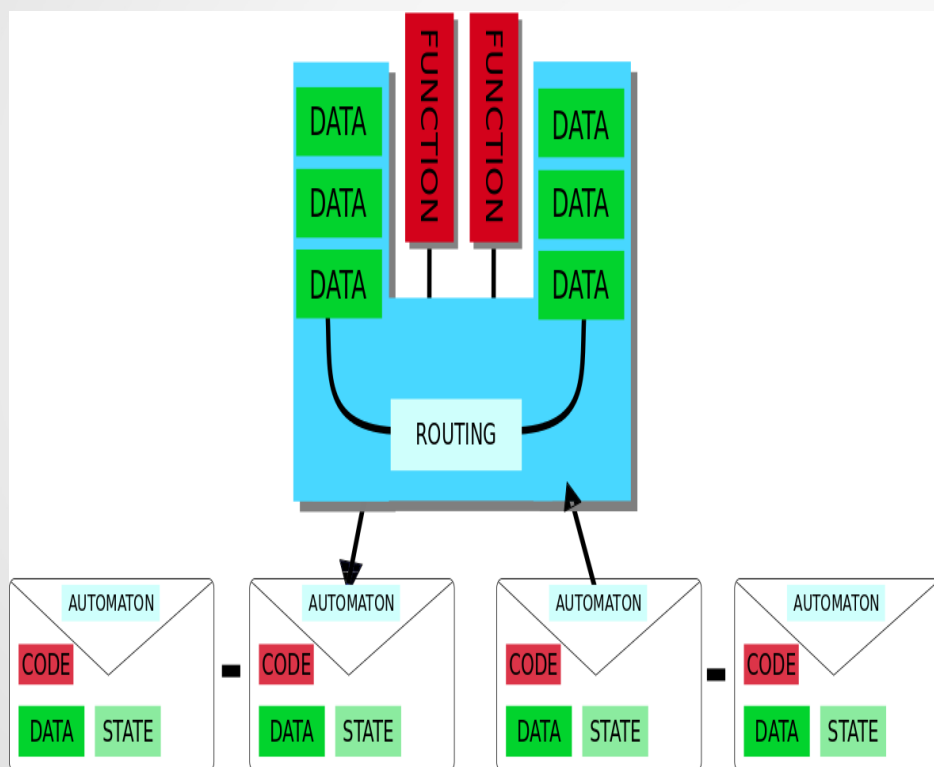
F647. 14:00



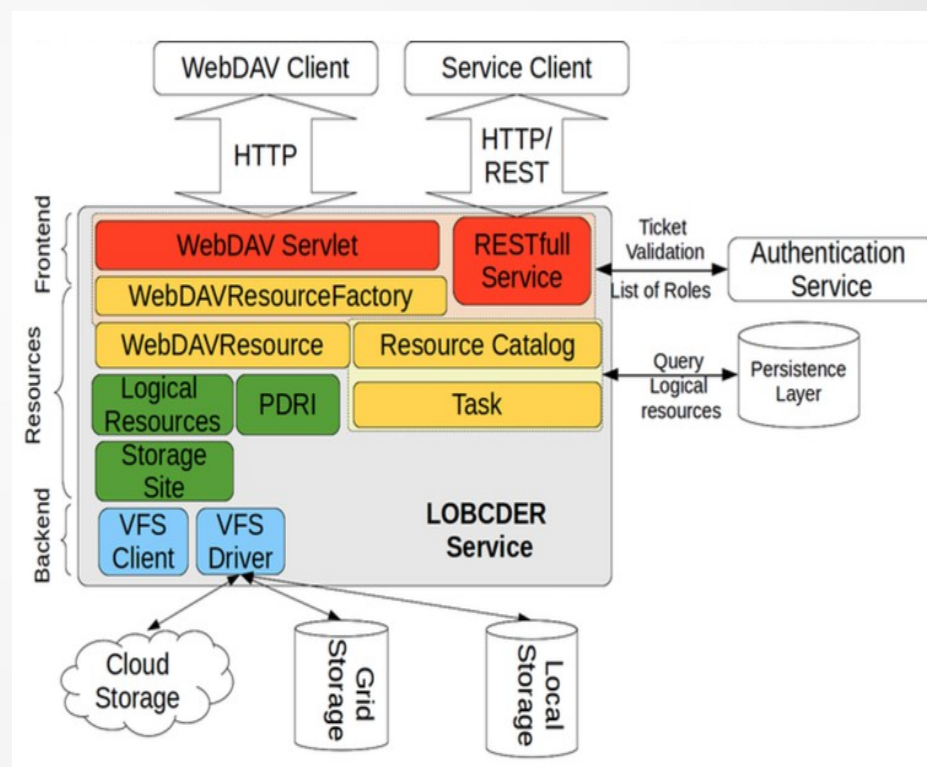
System and Network
Engineering



Pumpkin



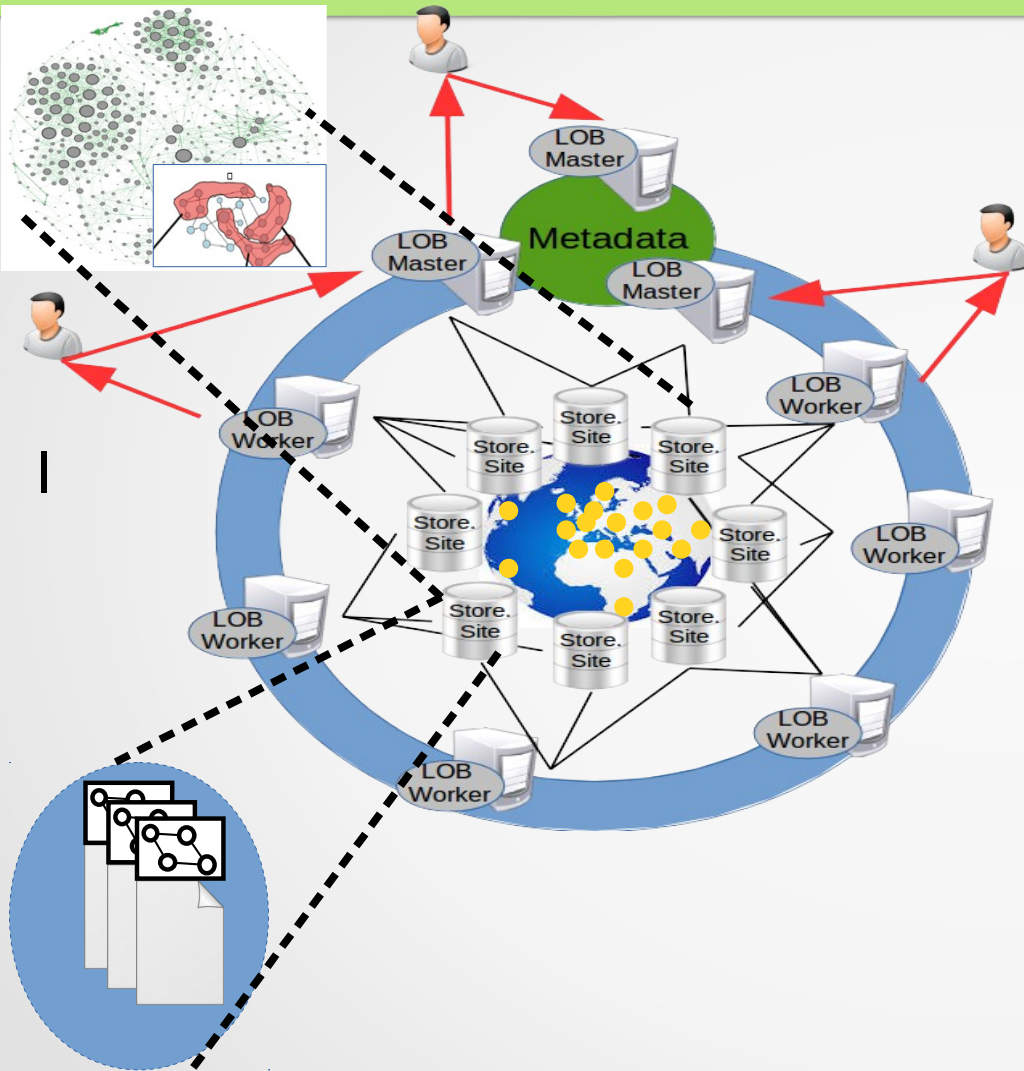
Large Object Data storage federation (LOBSCDER)



R. Cushing, A.S.Z Belloum, M.T Bubak, A. Oprescu, C.T.M. de Laat, **Exploratory Data Processing Using Non-deterministic Finite Automata**, workshop on Large Scale Distributed Virtual Environments on Clouds and P2P - LSDVE 2014 held in conjunction of Euro-Par 2014 Porto, Portugal

S. Koulouzis, D. Vasyunin, R.S. Cushing, A.S.Z. Belloum, **Cloud Data Storage Federation for Scientific Applications**, In Proceedings of the Euro-Par 2013: Parallel Processing Workshops, Lecture Notes in Computer Science, Aachen, Germany, Aug 2013.

Proposal for Msc project



- Problems/challenge
 - Is it possible to create an ecosystem where **scientific data** and **processes** can be linked through **semantics** and used as alternative to the current **manual composition** of eScience applications?
- Advantages
 - slows the ever increasing data production
 - Improve reproducibility of science
 - Increase re-use and sharing of processing, workflows and data

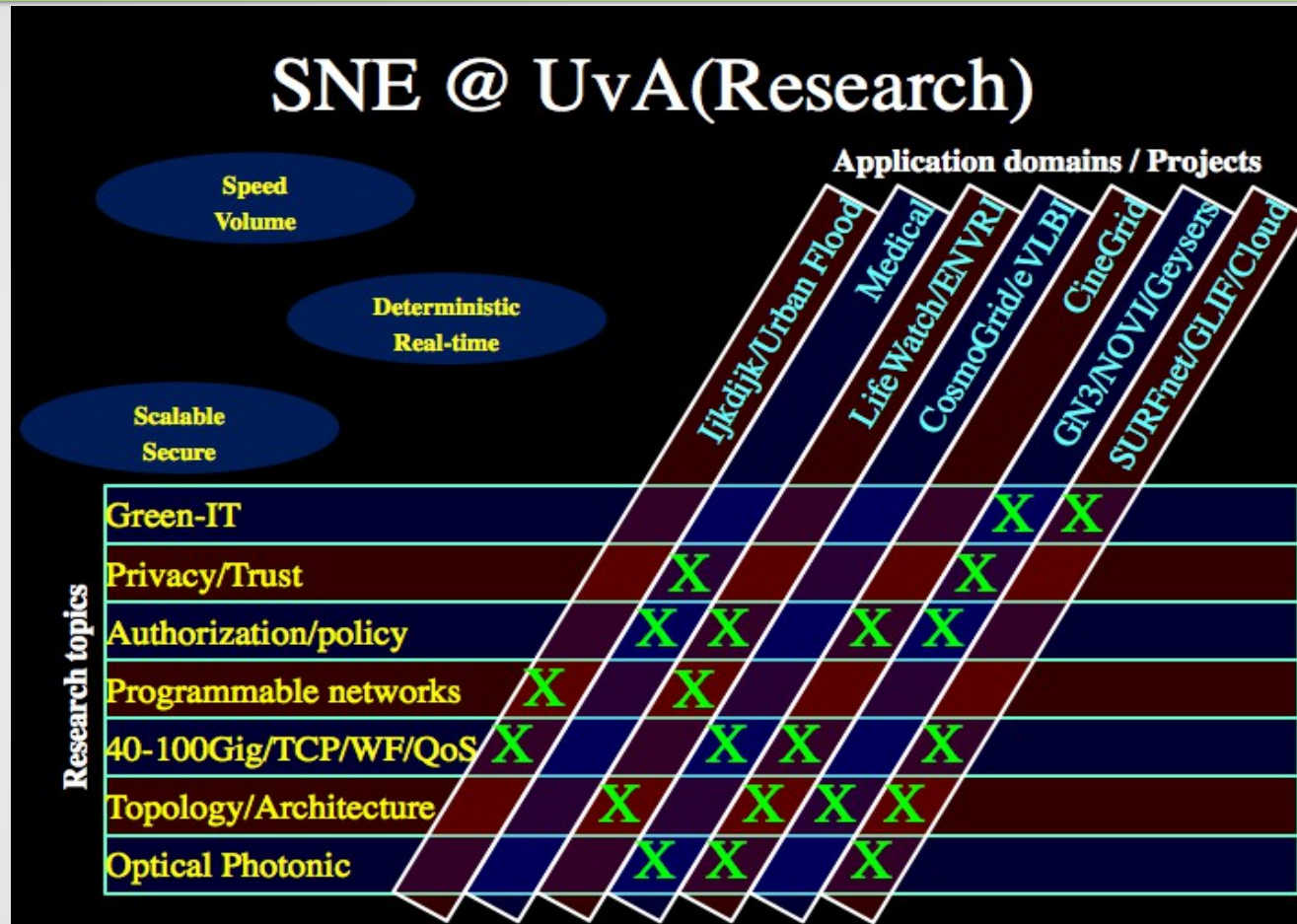
Closest related work

Alagiannis I, Borovica R, Branco M, Idreos S, Ailamaki A. NoDB: efficient query execution on raw data files, in Proceedings of the ACM SIGMOD International Conference on Management of Data. Scottsdale, Arizona; 2012:241-252.

More

- [Automata-based Dynamic Data Processing for Clouds](#), R. Cushing, A.S.Z. Belloum, M. Bubak, C. Laat, workshop on Large Scale Distributed Virtual Environments on Clouds and P2P - LSDVE 2014 held in conjunction of Euro-Par 2014 Porto, Portugal.
- [Cloud Data Storage Federation for Scientific Applications](#), S. Koulouzis, D. Vasyunin, R.S. Cushing, A.S.Z. Belloum, In Proceedings of the Euro-Par 2013: Parallel Processing Workshops, Lecture Notes in Computer Science, Aachen, Germany, Aug 2013.
- [Beyond Scientific Workflows: Networked Open Processes](#), R. Cushing, M.T. Bubak, A.S.Z. Belloum, and C. de Laat, In Proceedings of the IEEE International Conference on e-Science 2013, workshop on Analyzing and Improving Collaborative eScience with Social Networks, doi:10.1109/eScience.2013.51
- PUMPKIN
<https://github.com/recap/pumpkin>
- LOBCDER
<https://github.com/skoulouzis/lobcder>

SNE research topics



Group Web site: <https://ivi.fnwi.uva.nl/sne/>

Super computing demonstrations: sc.delaat.net

Youtube channel <https://www.youtube.com/channel/UCGg9iroTc8iF6wi2OezBxKw>