

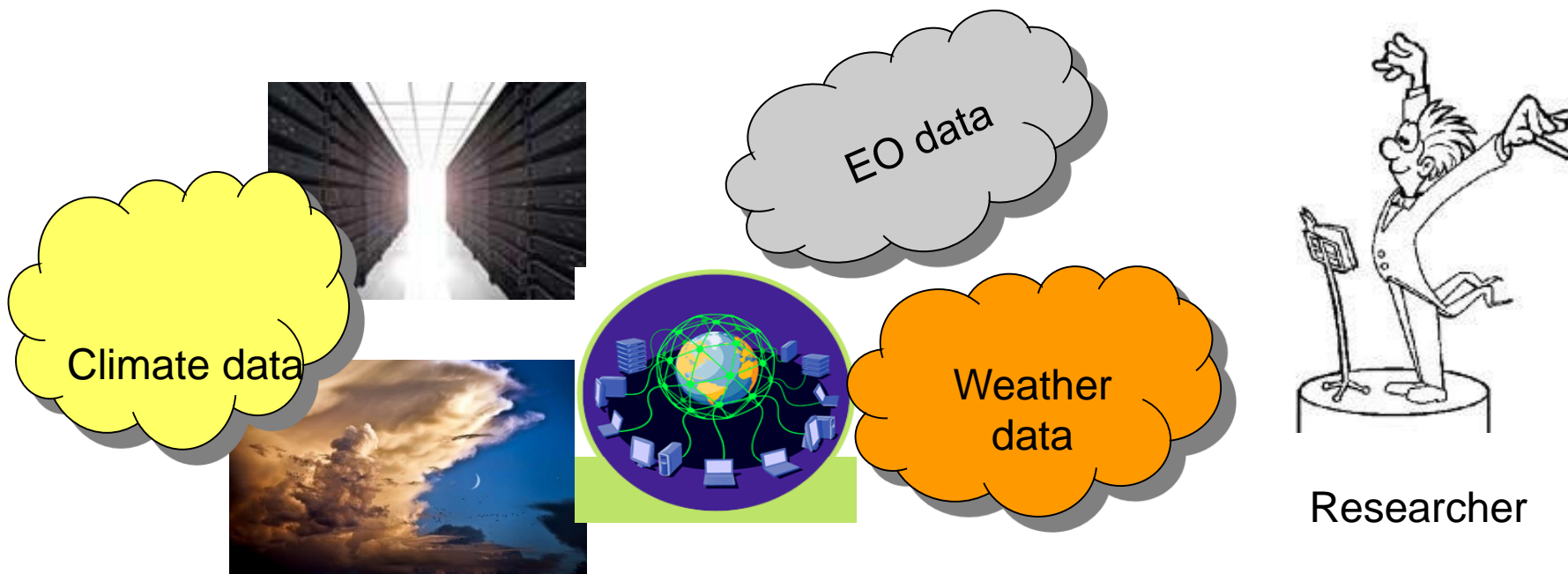
Updates on Earth Sciences Applications

EGI CF 2014

Horst Schwichtenberg



Orchestration Workflow of Data analysis and Data modeling applications with efficient data transfers between Data, and Grid, or HPC infrastructures or cloud computing



An architecture hiding complexity of the underlying infrastructures through mechanisms to manage automatic mapping of credentials, data access adapters and to call heterogeneous security protocols

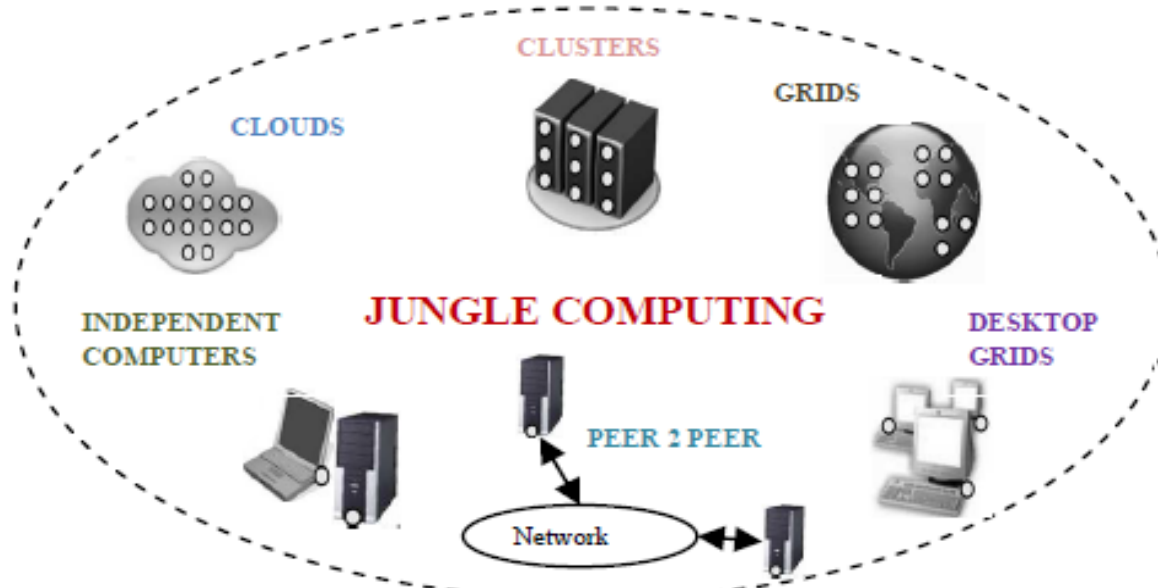


Figure 6.1: The jungle computing - a diverse collection of computing

“The distributed computing system uses multiple computers to solve large-scale problems over the Internet. It becomes data-intensive and network-centric. The applications of distributed computing have become increasingly wide-spread.” Kanhanwal & Singh, 2012

- Service of Science or Command Line (CLI) ?
- Are Science Gateways flexible enough ?
- What type of user is a typical Earthscience User – CLI or Drag+Drop User ?
- Are today's Workflow tools able to manage the jungle?