

1 What do we want to do?

- make data access & processing a fundamental right
- do big science
- do it energy efficient
- do it scalable and efficiently
- automate everything (press 1 big red button that does whatever you want)
- adapt to new HW and SW
- **manage dynamic changes in resource need**
- do it all in bounds of cost, energy and reliability

2 What is Cloud Computing?

There are certain US norms for different types of applications

- **IaaS** Infrastructure as a Service
You sell resources
- **PaaS** Platform as a Service
You sell for example tables or a website
- **SaaS** Software as a Service
You sell some usable software (Spotify, Facebook, etc.)

We will focus on **IaaS** because PaaS and SaaS just build on top of that.

3 IaaS properties

- On demand / Pay per use of resources
- Elasticity
the resources available can grow and shrink according to demand
- Resource pooling
multiple people share the same resources
- Full automation
is the dream
- Quality
is important

Maybe continue this?