

# Copernicus Climate Data Store Workshop

3-6 March 2015



## Working group topic

### Wednesday 4 March: The 'Toolbox'

**We have provided the questions below to help stimulate discussions in the working groups. Please note they are not a set list of questions that need to be answered. Additional questions and comments are welcome.**

- From a user perspective
  - How important is that the portal provides a set of analysis tools that can be invoked from a browser?
  - Which kind of processing tools will be of most benefit to you?
  - Do you need the flexibility to manipulate the maps and graphics provided by the C3S portal to tailor them to suit your own needs?
    - What software packages will users use to interact with maps?
  - Should the toolbox be available as a set of downloadable libraries and tools?
    - What programming language should these tools be in?
  - Should the toolbox be a set of analysis services that can be parametrised and invoked remotely?
    - Assuming that these analysis services are compute intensive, would you be ready to pay the services of a cloud provider?
  - Should the C3S provide means to "bring computations to data"?
    - Should this be limited to a prescribed set of tools?
    - Should the C3S portal allow users to upload their own tools?
    - How could Cloud Computing help us?
- From a portal perspective
  - What kind of interactive analysis tools does your portal offer?
  - Do you offer batch access to analysis tools?
    - What protocols/standards are you using?
  - How do you ensure quality of service (e.g. queues, priorities, limits)
    - How do you guarantee a fair use of the services
    - How do you avoid denial of service attacks (even unintentional)
  - How do you "charge/bill" users for using large amount of resources
  - Do you make use of commercial Cloud Services
    - If yes, do you have any experience you would like to share?

