Sea Ice Portal

an outreach activity within REKLIM

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Helmholtz Climate Initiative

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Overview

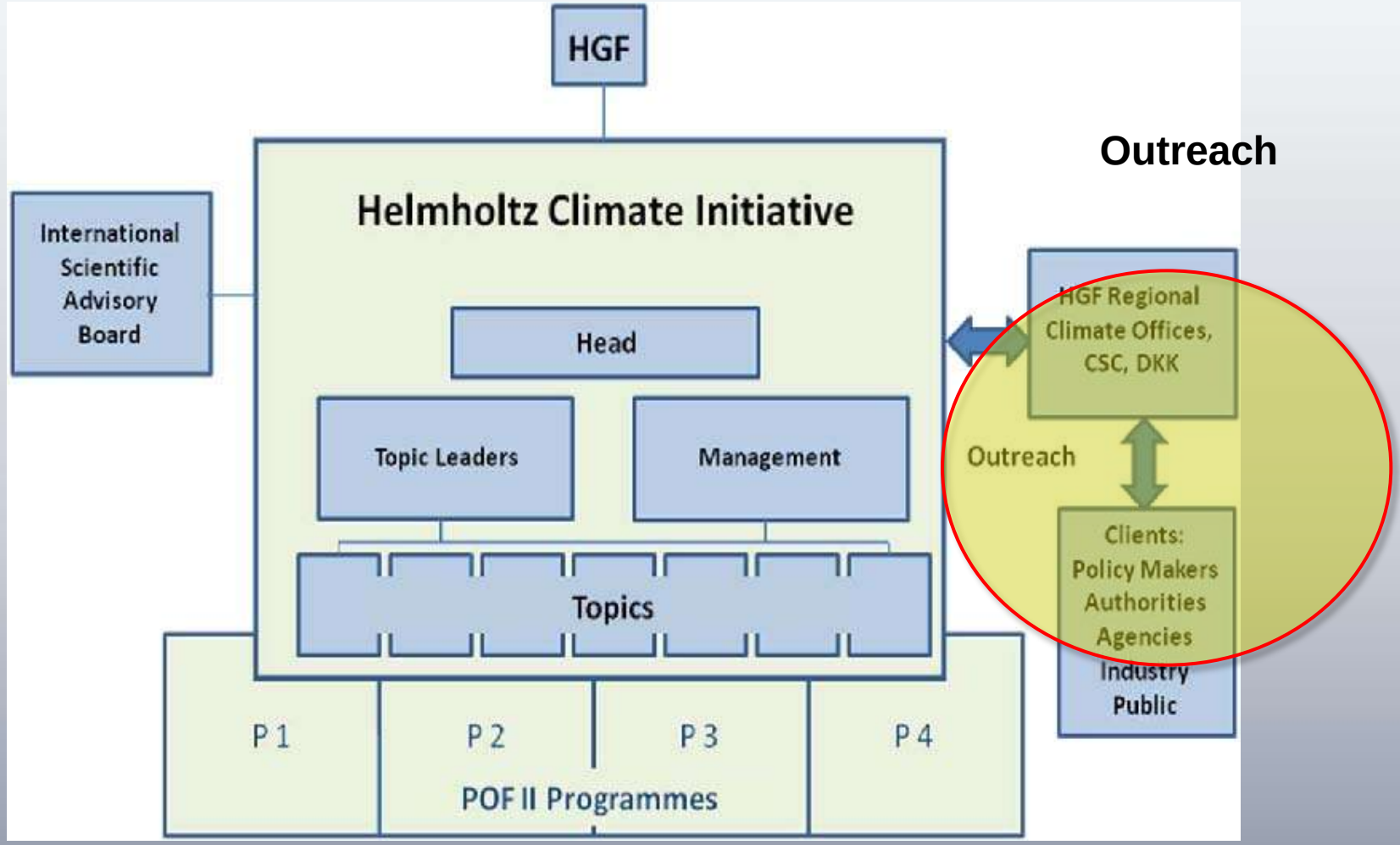
I What is the idea behind the sea ice portal?

II What is the portal structure so far?

III What is the data access problem?

IV What is a possible solution within the new portal?

OUTREACH WITHIN REKLIM



Part I

THE NETWORK OF REGIONAL HELMHOLTZ CLIMATE OFFICES

Climate Office for polar regions
Climate change related to polar regions and sea-level rise

North German Climate Office
changes in storms, storm surges, ocean waves, and coastal climate

Each climate office represents the regional aspects of climate research based on the scientific expertise of the respective Helmholtz centre.

Climate Office for central Germany
climate change impacts and adaptation in the fields of biodiversity, hydrology, and society

South German Climate Office
regional climate modeling and extreme weather events

GOAL OF THE SEA ICE PORTAL:

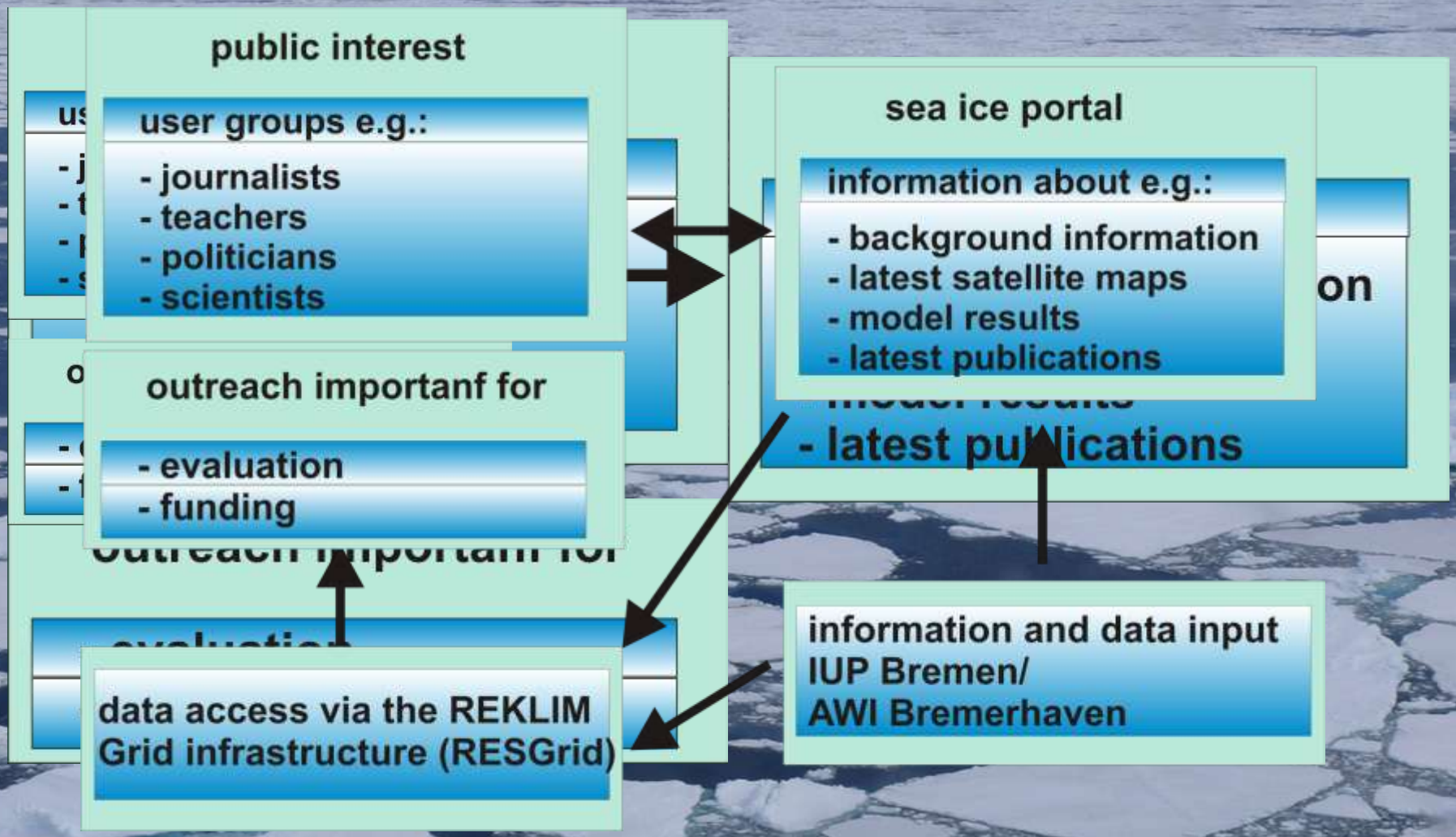
- is to bring together all important information resources about sea ice for a German broad public

FIRST PARTNERS IN THE PROJECT:

- the sea ice portal is an AWI initiative in cooperation with the University of Bremen (Institute of Environmental Physics)

- mainly focused on satellite measurements of sea ice from IUP Bremen
- input of AWI sea ice modeling group
- measurements of sea ice with e.g. airborne platforms at AWI

THE PORTAL STRUCTURE



- initiative aims at enhancing the public outreach of REKLIM

SEA ICE PORTAL: DATA ACCESS PROBLEM

- ***Problem:*** (sea ice) data is stored at different sites

  e.g. AWI, DKRZ, Uni Bremen/Marum etc

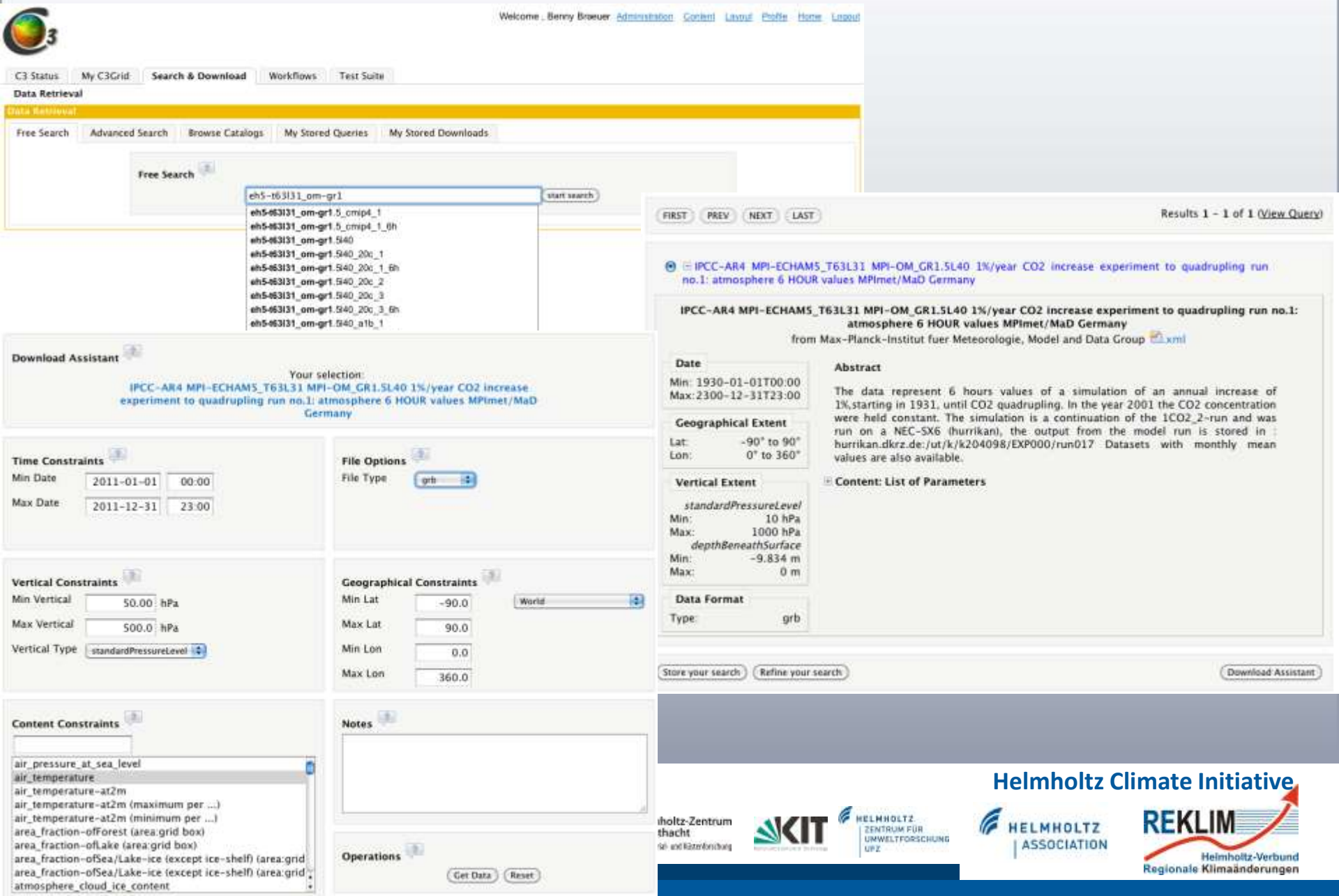
- ***Question:*** How to get access to these data without retrieving them individually from the provider?

SEA ICE PORTAL: DATA ACCESS SOLUTION (APPROACH)

- One portal as interface to distribute data
- Access to the data via the REKLIM Grid infrastructure (RESGrid)
  - is based on the project „Collaborative Climate Community Data and Processing Grid (C3Grid)“
  - reuse of established technology

Part IV

SEA ICE PORTAL: C3GRID PORTAL



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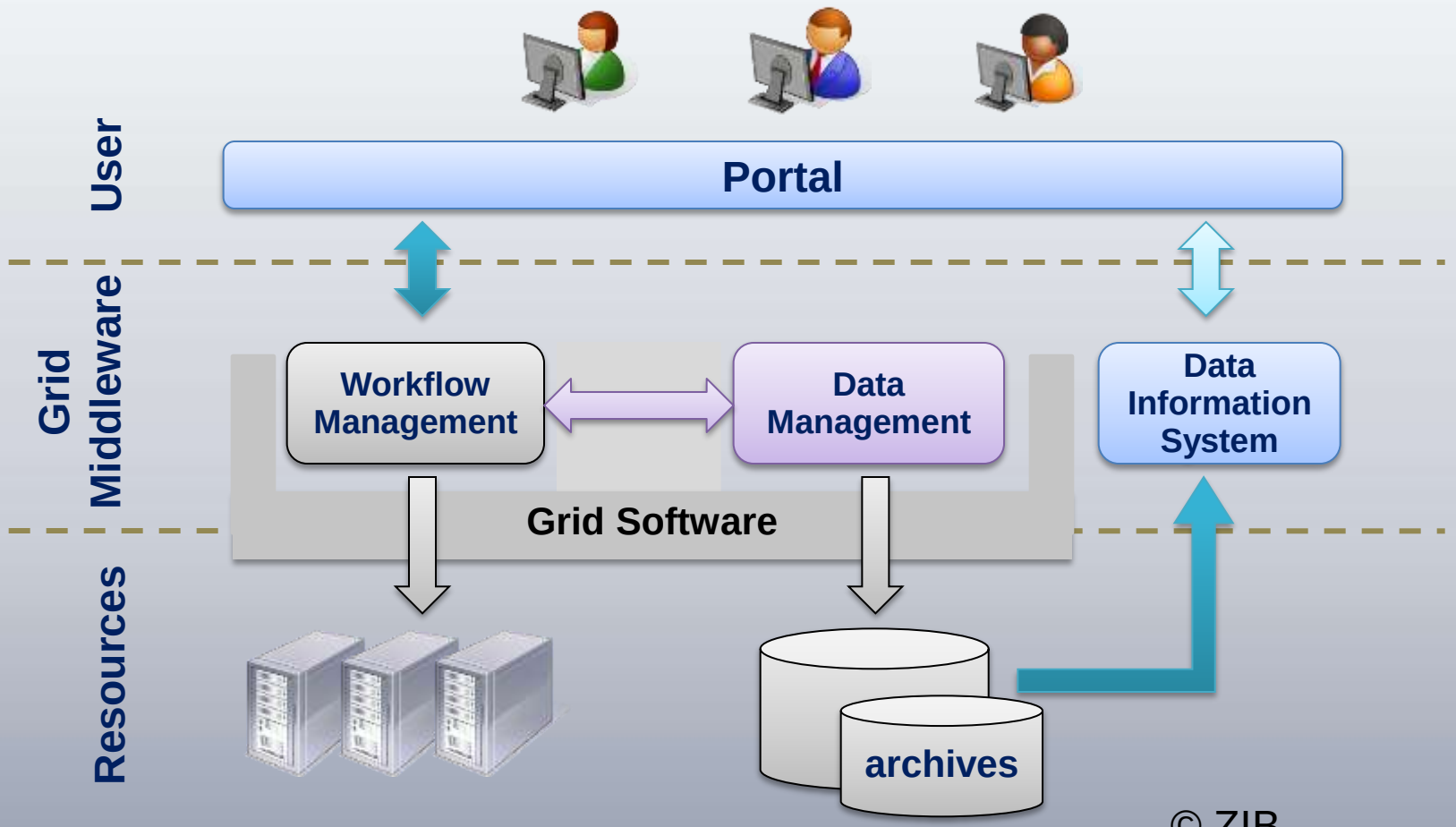
SEA ICE PORTAL: C3GRID ARCHITECTURE



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SEA ICE PORTAL: CURRENT STATUS

- Sea Ice Portal will provide access to C3Grid infrastructure, but contains an own pool of metadata, especially for sea ice related data
- Development is in progress
- You have data you would like to see in the portal? Speak to us for further details!



Thank you for your attention!



Who is interested to see more please contact us!

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