ARDA and the rest of the world

Jeff Templon, David Groep

ARDA Workshop
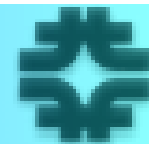
CERN

21-22 January 2004
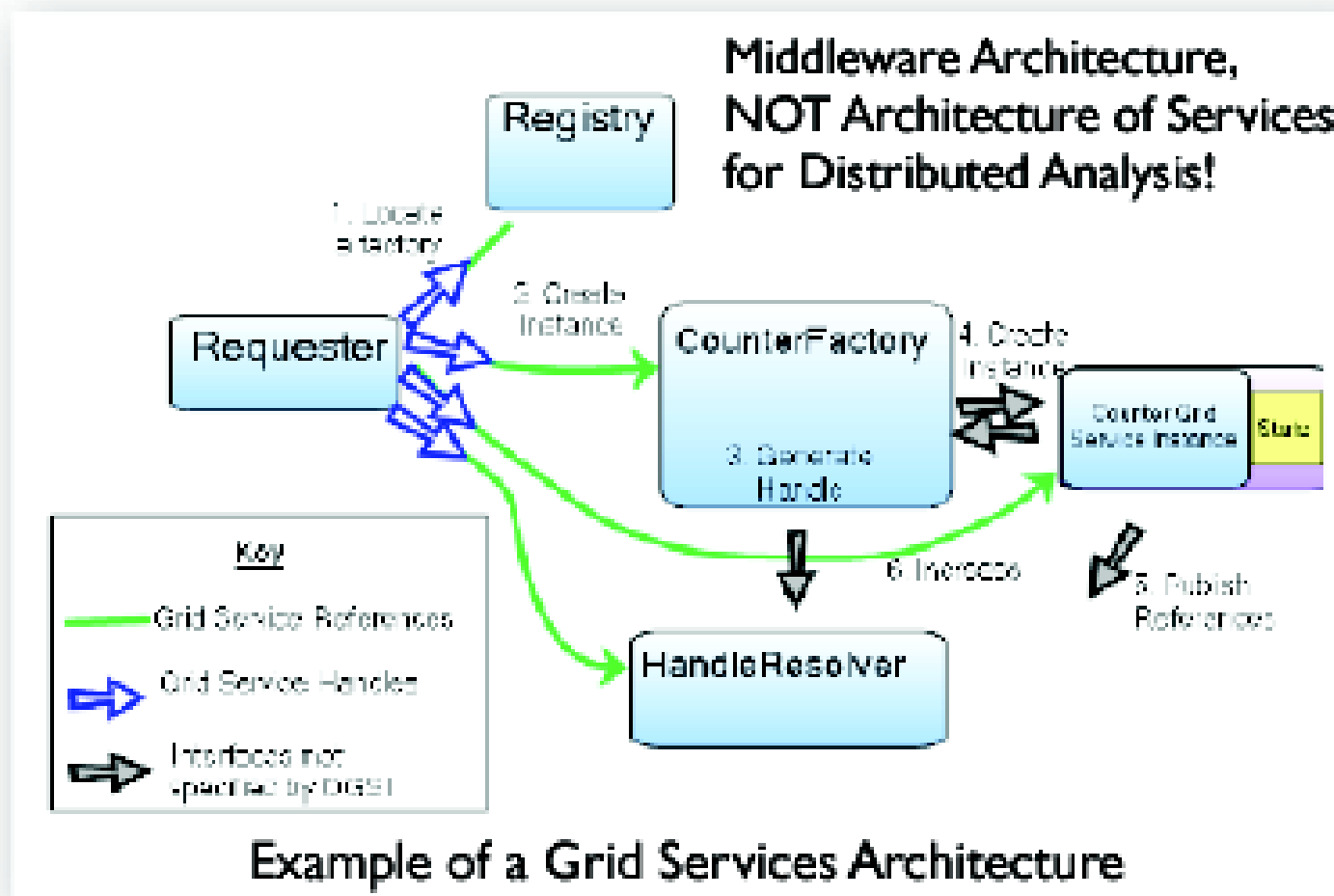
Grid Services Architecture vs. Architecture of the Services for Analysis:

➡ **ARDA is NOT about how the middleware services function!**

Middleware Architecture, NOT Architecture of Services for Distributed Analysis!

Example of a Grid Services Architecture

What ARDA missed

- ◆ The interests of external (not located at large international accelerator centers like CERN) users

- ◆ The interest of external (not large international accelerator centers like CERN) sites
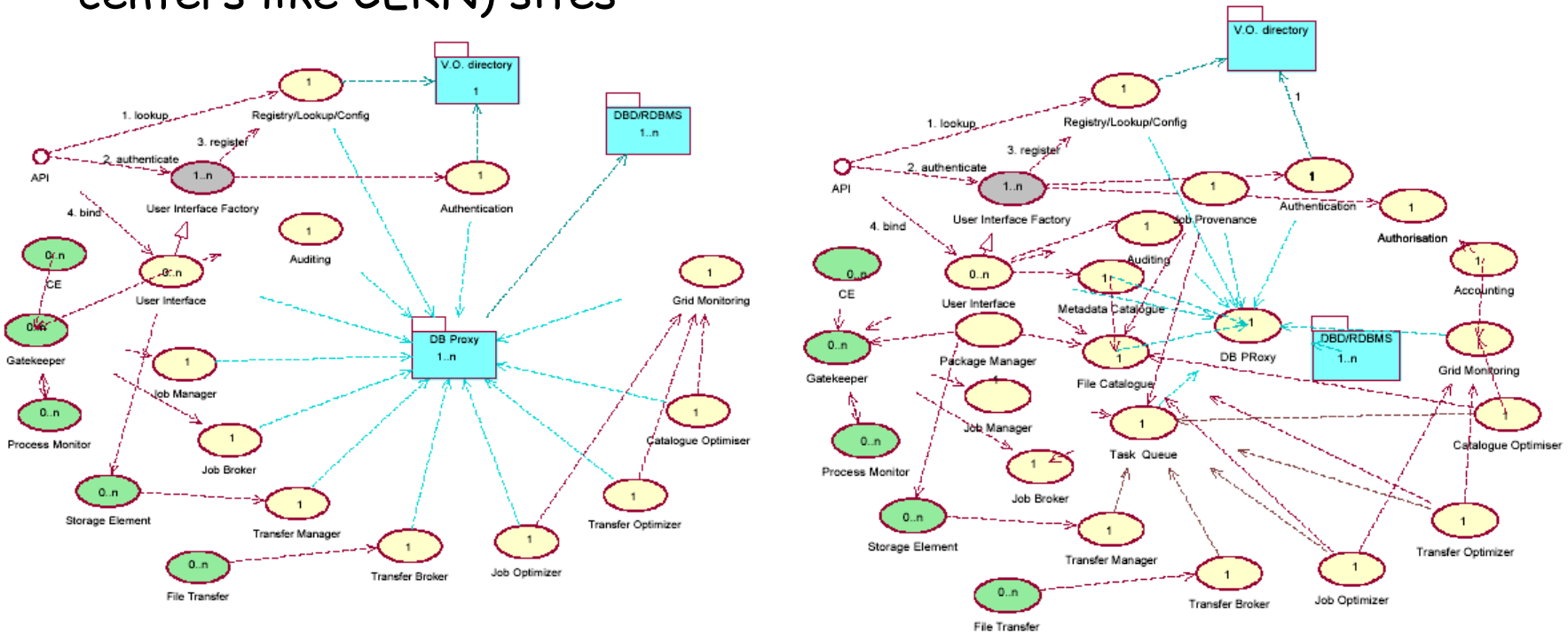
User-Centric, Not VO-Centric!

- Placing all authorization/authentication at VO level is evil

- This is essentially Globus CAS V1, and it is such a bad idea that even *Globus* dropped it!

- Robs users of flexibility – it is quite difficult to encode the typical computing use patterns of grad students as VO policy!

- Analysis by the students done *from home institute,* not at CERN!

- Robs sites of flexibility – external sites (70% of LCG!) will not only have CERN VOs

- User-centric auth is one of few things in Globus that works well!

- VO-centric auth breaks original HEPCAL requirements (on which HEPCAL-II are based)

ARDA & EGEE

- We have a unique chance here: candidate for GGF standard in several areas

- Idea: have ARDA team, EGEE team, and VDT team all implement their versions of components

- Will require fixing problems from previous slide 1st

- Not only can we present *de facto* GGF standard, but can also destroy an evil from previous projects: *hidden dependencies*

- Important to address a crucial aspect of JRA1 EGEE proposal: standardize **wire protocol!** Interface standardization is not enough!