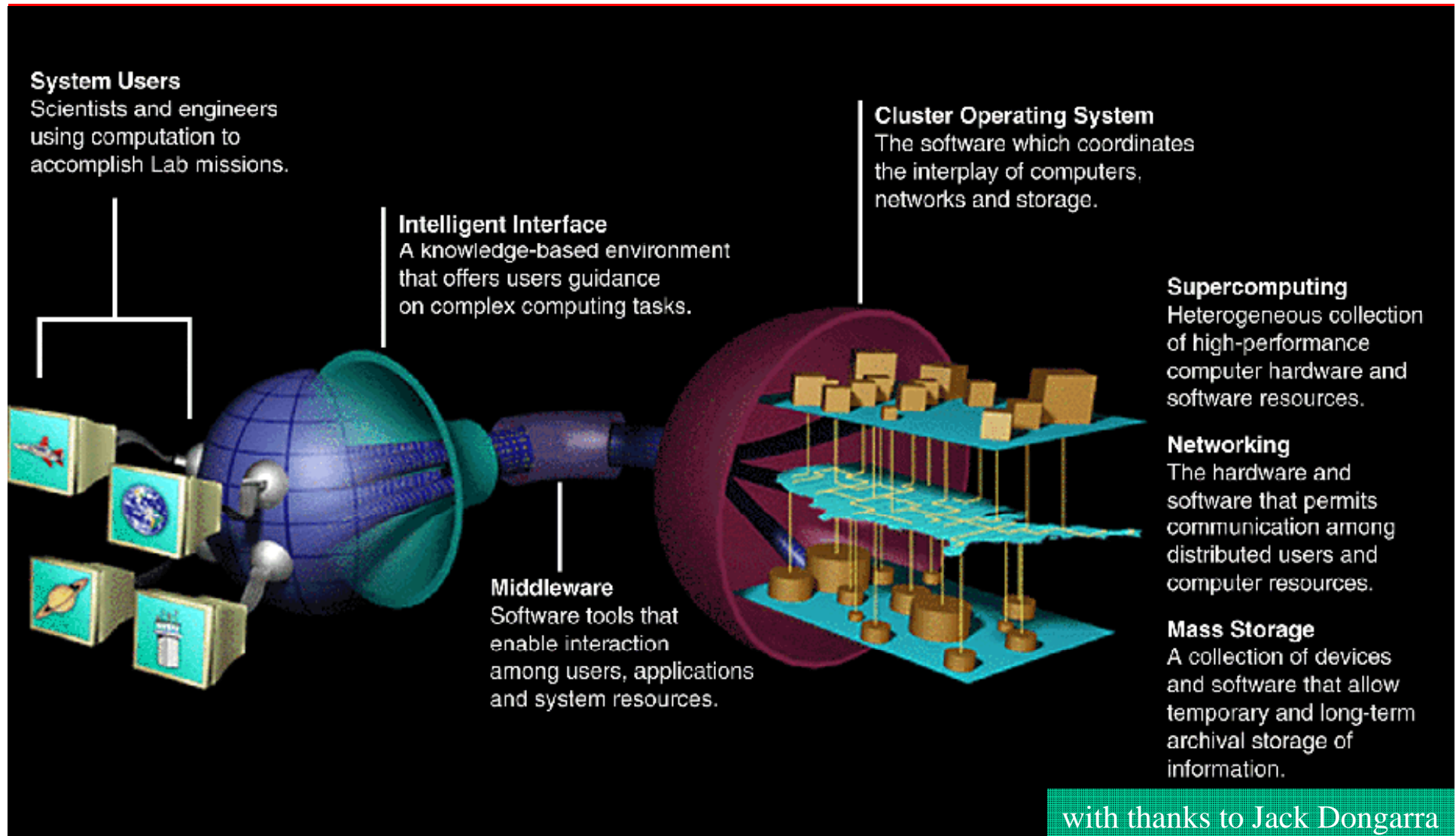




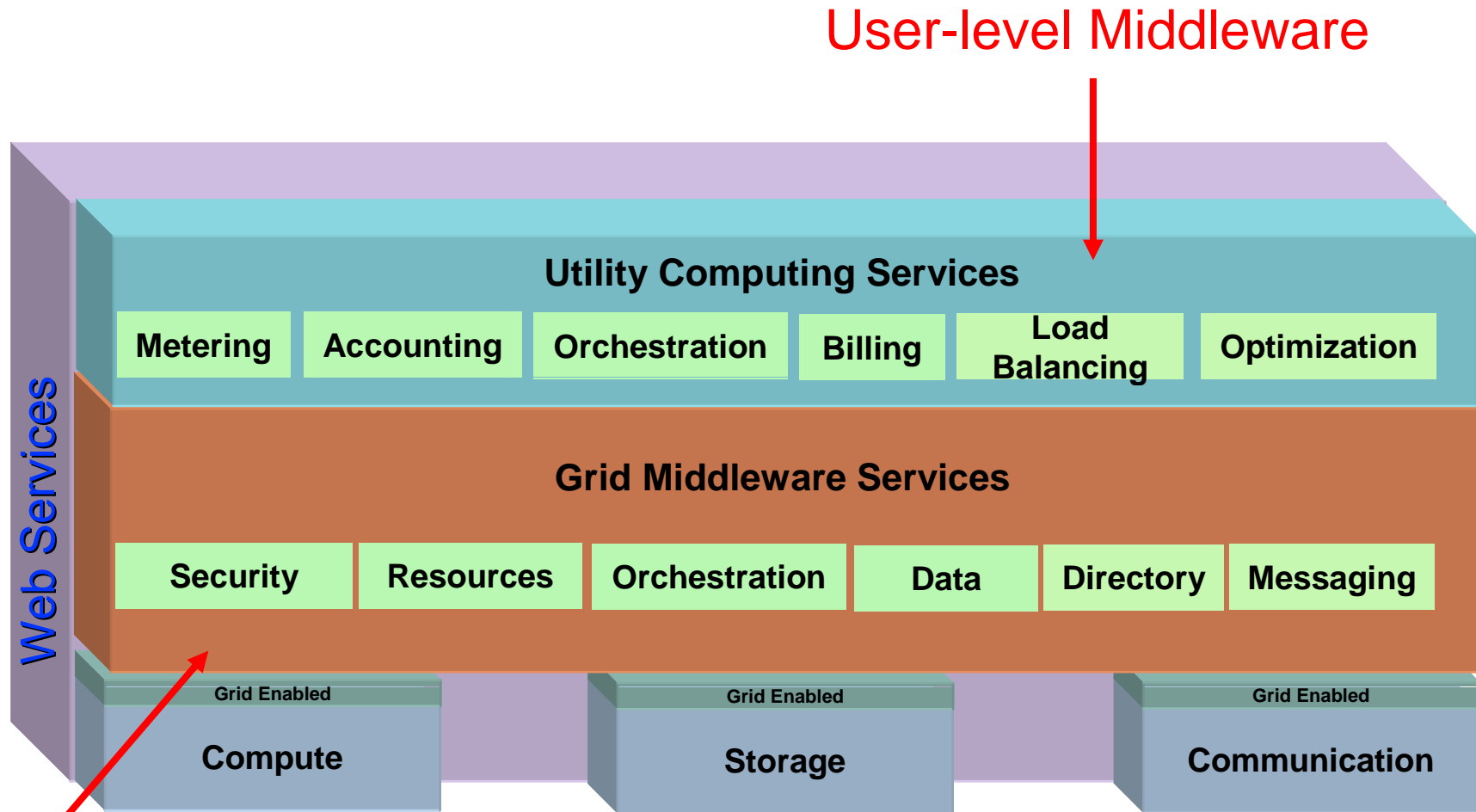
## Grid Middleware for Industrial Applications

Thomas Fahringer

# The Grid



# Modern Grid Middleware Stack

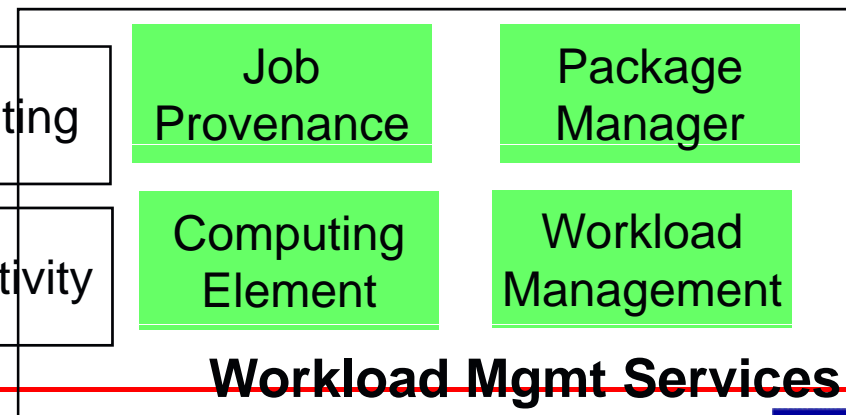
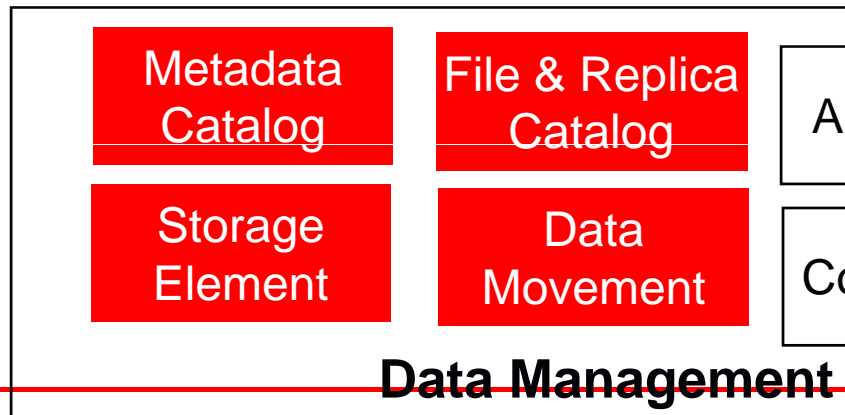
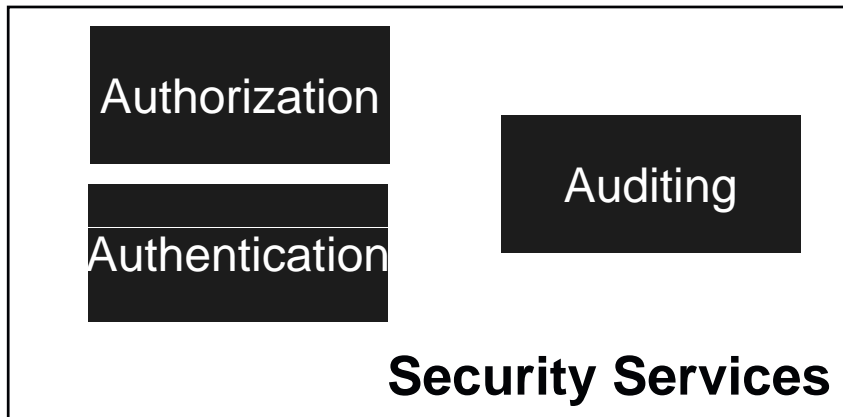


Core Middleware

with thanks to John Barr, Intel



# gLite Grid Middleware Services



- Knowledge and Data Management
- Grid Information, Resource and Workflow Monitoring Services
- Resource Management and Scheduling



# Grid Middleware Systems

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## Examples:

- CNGrid
  - CROWN
  - gLite
  - Globus
  - Unicore
  - Etc.
- 
- Some of them focus more on the core services, others on user-level middleware, some cover both
  - Idea of this session:
    - Experience with industry applications developed or operated on modern Grid middleware



# Online-Games: Killer-Applications for Grids



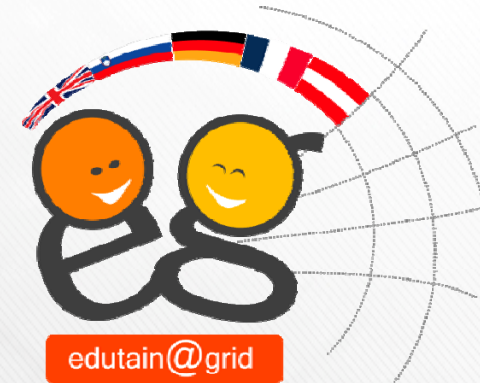
## Huge Market

- Videogame Market: €33 billion in 2007
- €0,7 billion online games revenue in Europe

# Edutain@Grid

[www.edutaingrid.eu](http://www.edutaingrid.eu)

EU funded STREP



## A Grid Environment for Interactive Gaming and E-Learning

### Lead Partner and Project Details:

Thomas Fahringer, University of Innsbruck, Austria

7 partners in total, approx. 2,5 Mio Euro total funding

Project duration: Sept 2006 – Aug. 2009

University of Münster (Germany), IT Innovation (UK), University of Linz (Austria), Darkworks (France), BMT (UK), Amis (Slovenia)





# Grid Middleware for Industrial Applications

## Session Talks

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- Li Rubao - ICT - Information Grid with New Intelligent Engine
- Gabriel Zaquine - CERN - gLite
- Kai Nan - CNIC - Virtual Laboratory: Exploring e-Science at CAS
- Yongjian Wang - BUAA - aviation grid application and pharmacy application
- Giulio Galiero – ENG - Grid and Finance

