

Tele-science & Ecogrid Working Group

Shinji Shimojo
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Participants

- Kenneth Chiu
- Jim DeRoest
- Rick McMullen
- Haiyan Au
- George Mclaughlin
- Kazunori Nozaki
- Seiichi Kato
- Hsiu-Mei Chou
- Fang-Pang Lin
- Steven Peltier
- Shinji Shimojo
- Ian Atkinson
- Susumu Date
- And more...

Tele-Science

We have seen various projects

– successfully completed & on-going

- Fang-Pang ECOGRID, NEESgrid
 - Fujikawa OMNIDirectional Camera
- Steven Peltier Tele-science Portal for tomography
 - Nozaki TDW as an infrastructure
- Rick CIMA (Common Instrument Middleware Architecture)
- Ian Organising sensors
- Heon NeedsGrid
- Jim HDTV streaming
- Heiyan An E-science: avian flu research

What next ?

Our group is growing and there will be a need for shared infrastructure of tele-science

PRAGMA blessed Stack ?

Rather than doing Top-down,
Let's go Bottom-up

Let's first identify all the needed
components and find out what have
been used.

Components needed

Authentication

Portal

Scheduler

Meta-scheduler

Workflow system

Control Protocol

Data storage

Data Movement/Data Conversion

Video/audio/data streaming (live/replay)

HTDV streaming

Capture/Store

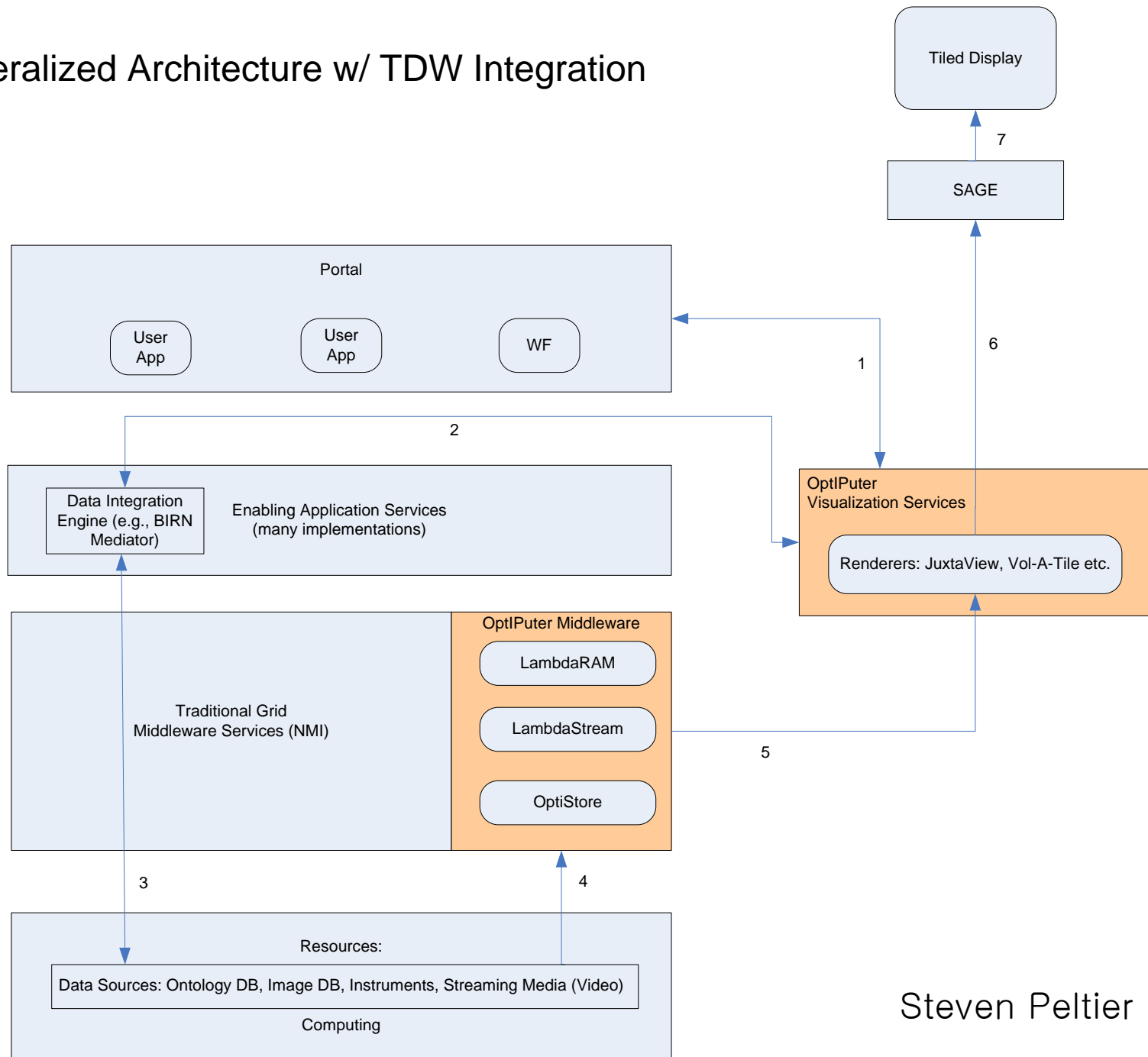
Chatting

Video conferencing

Visualization

Maybe a lot more.....

Generalized Architecture w/ TDW Integration



Steven Peltier

For each project,

Find out what software have
been used...

GT3, GT4, myproxy,
Access Grid, , , ,
Gridsphere

Make a complete report !
use e-mail and Blog

Our Future

- Set up Mailing list and Blog (Thanks Ken!)
- Briefly describe your tele-science infrastructure on Blog
- We will gradually come up with common architecture and infrastructure for telescience with help of other WG (especially Resource)
- We are going to apply to HPC Analytic Challenge
 - Competition is a driver to synthesize our effort !!