

# Concluding Thoughts and Provocations

A woodcut-style illustration of a man in a red robe and cap looking through a telescope. He is seated at a desk with several open books and a window in the background. The scene is set in a room with a wooden chair and a window with a view of a building and a red roof.

**G. Longo & S. G. Djorgovski**  
AstroInformatics2010, June 2010

# Has the VO Concept Outlived its Usefulness?

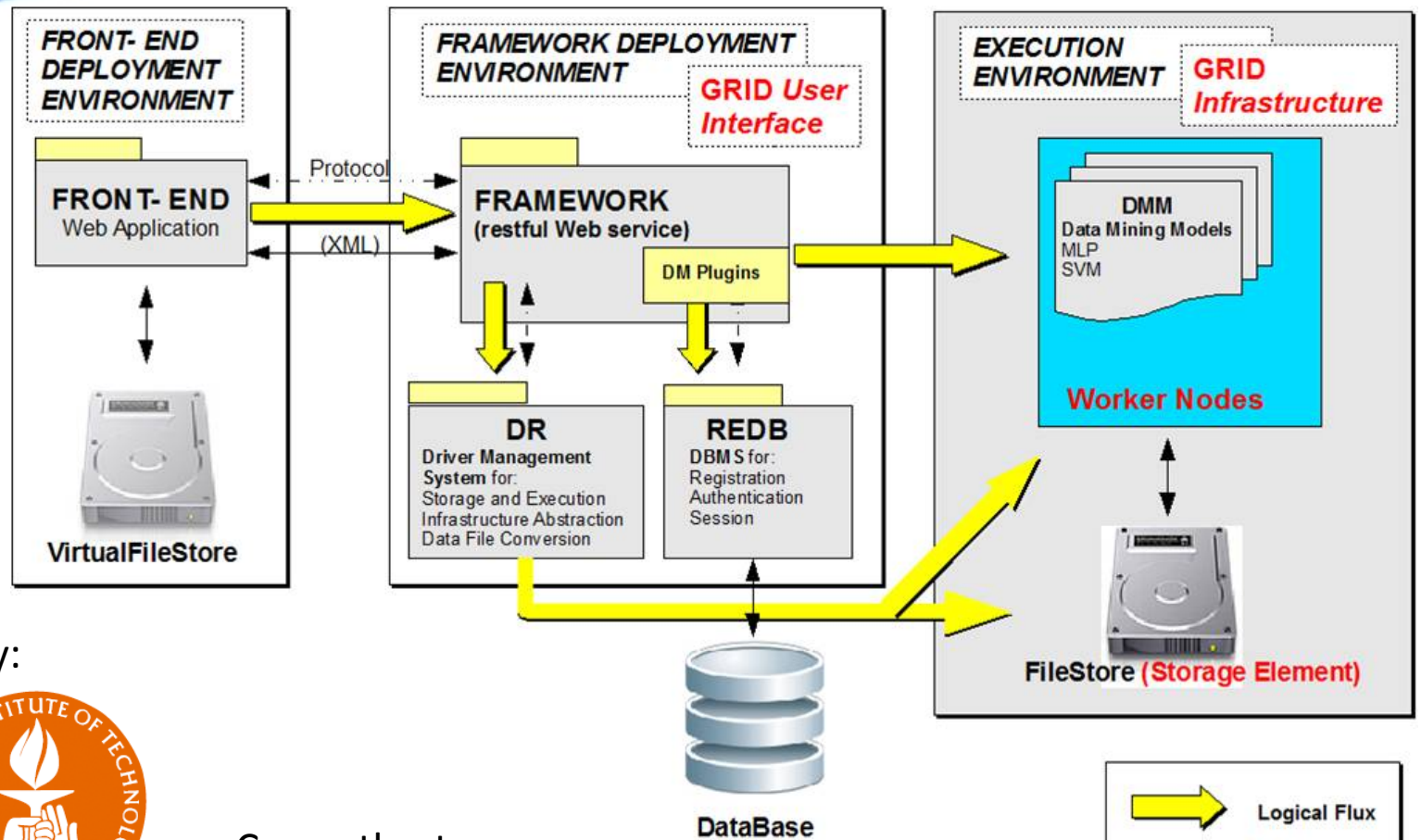
- Since its inception ~ 10 years ago, we have gone through ~7 cycles of the Moore's law
  - The technology landscape is very different now
  - We are entering the Petascale regime
- After ~ 10 years, still no significant, VO-enabled discoveries!
  - ♣ Community needs to see some significant science results, and soon
- The VO projects seem to be largely stuck in the “super data center” regime, and are staffed accordingly
  - So far little effort and expertise in data mining and knowledge extraction tools, etc.
- VO should be *an engine of innovation*, not lost in a software management bureaucracy and data infrastructure work
- Astroinformatics: a mechanism to engage a broader community

## What Comes Beyond VO?

# DAta Mining & Exploration



A powerful, expandable, web-based user-friendly data mining service for astronomy



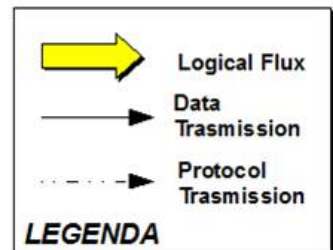
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... and donated to VO

Currently at:

<http://voneural.na.infn.it>



# The 10 Goals for the Next Year

(Suggested by A. Szalay, inspired by J. Gray)

What interesting, useful things can we accomplish over the next 12 mos. or so? **Suggest your ideas now, and/or in the blog.** For example:

1. A user-friendly data mining service
2. An electronic exchange forum for educational materials, experiences, etc., in the arena of e-science & astroinformatics
3. A user-friendly visualization package/service for exploration of highly-dimensional data sets
4. Hold the first entirely virtual conference or workshop in this arena
5. Establish a fully electronic, novel format, peer-reviewed journal for data, archives, algorithms, and other astroinformatics tools and methods

... etc., etc.



Please join us next year for

# AstroInformatics2011

Amalfi coast, Italy, summer 2011