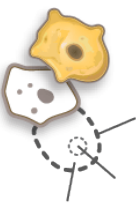# BioPortal Architecture and Plans
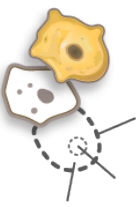## November 29, 2011

Ray Fergerson

NCBO Project Director

Stanford University

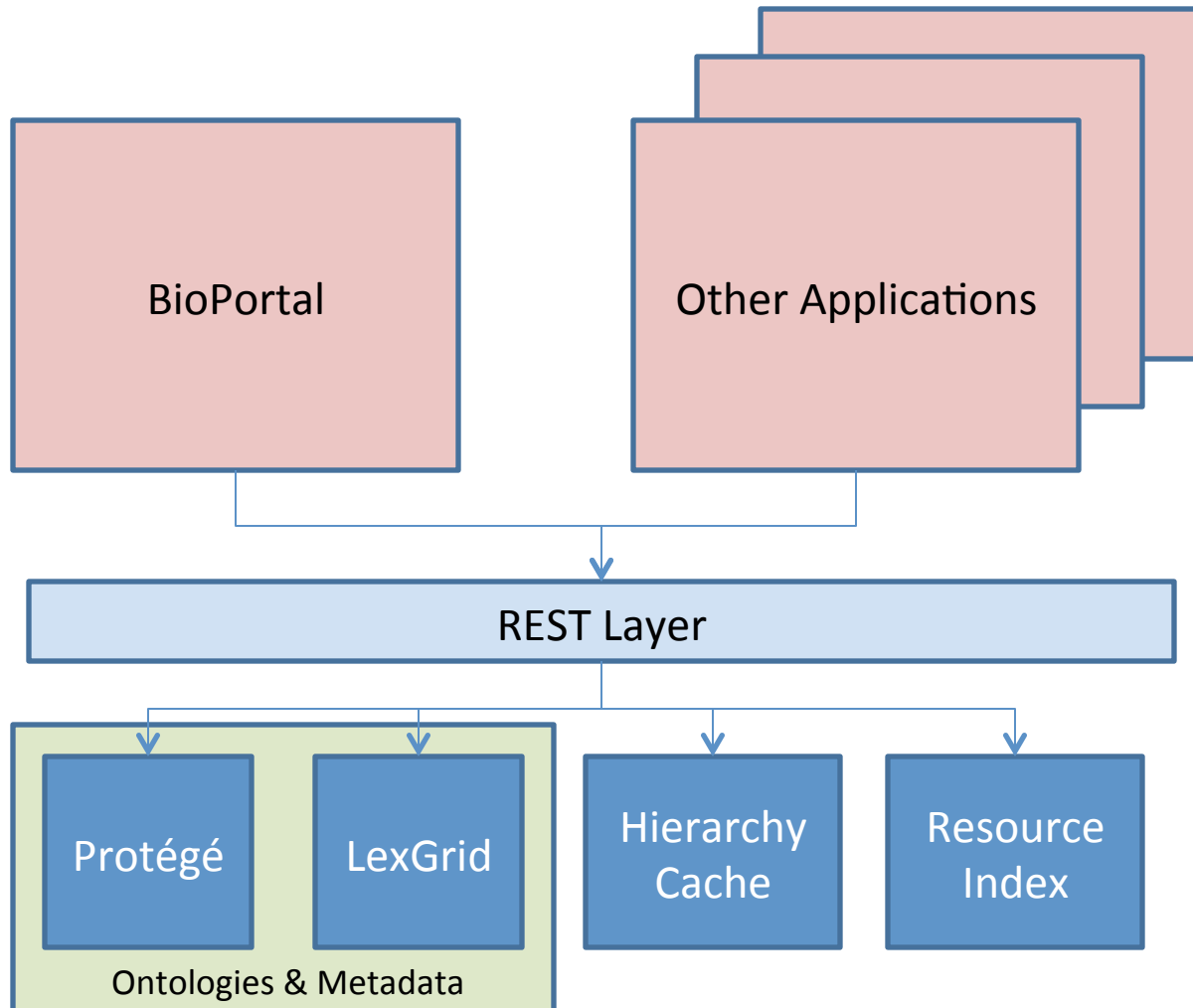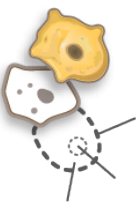ray.fergerson@stanford.edu

Outline

- Current Architecture

- Planned Architecture

- Plans
  - Current Development
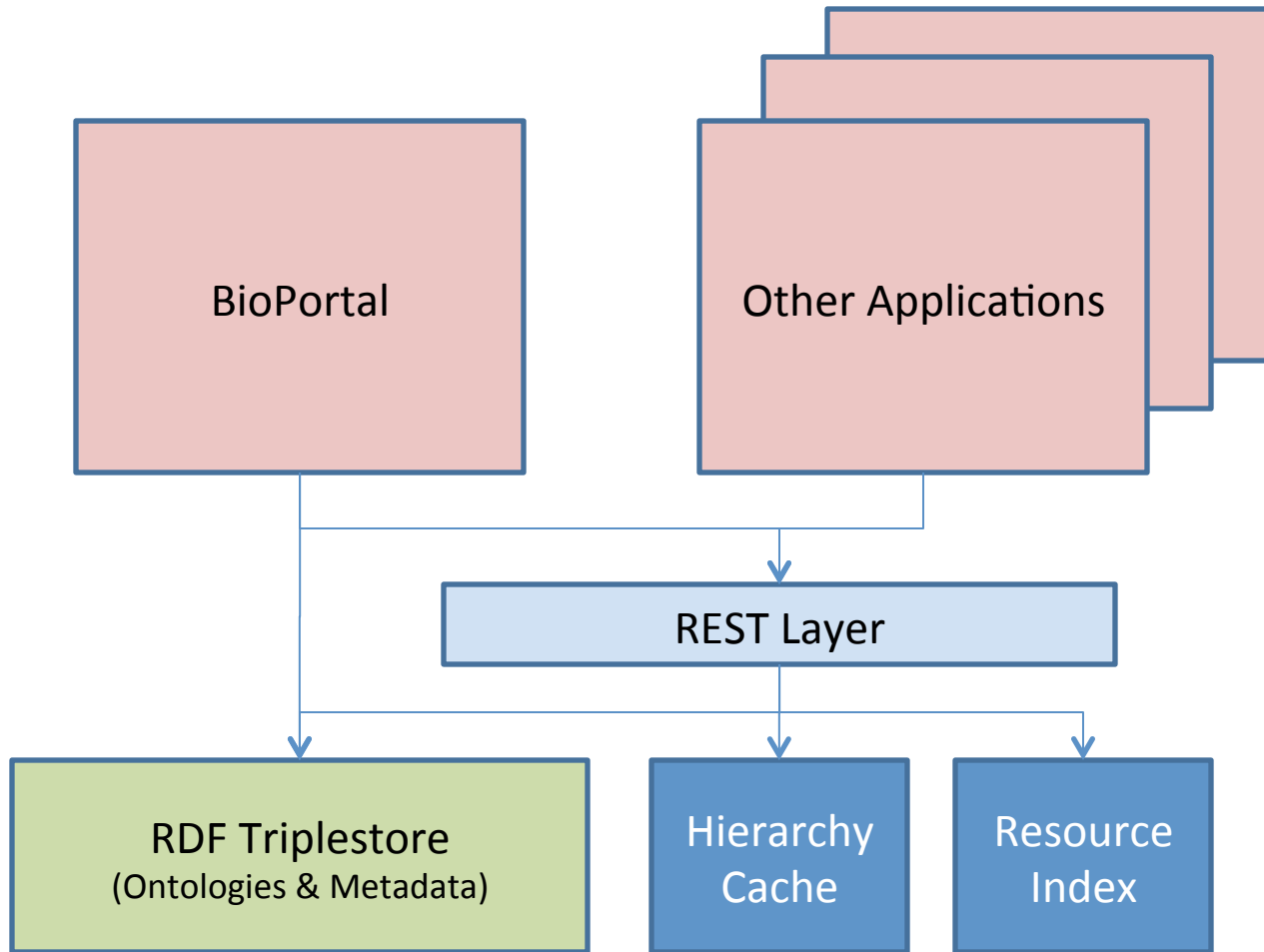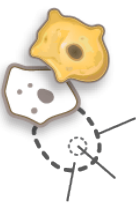 - Future Development
  - Not on the radar
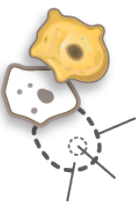
Current Architecture
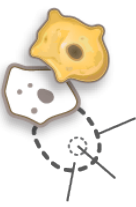
Planned Architecture

Current Development (I)

- Ontology Recommender (Done)
    1. Accept a paragraph or two of text
    2. Analyze its use of ontology terms
    3. Recommend closely matched ontologies
- Access control for ontologies (Done)
    - Private: Submitter designates user access
    - Licensed: Submitter provides license for user acceptance
- Improved support for OWL 2 (Done)
- Support for RDF triple-store (public alpha, Q3)
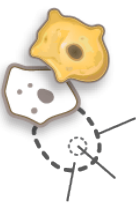- Generate automatic mappings between all terms in all ontologies (Q1)

Current Development (II)

- *MyBioPortal*: limiting visible ontologies (Q1)
- Alternate entry points to limit visible ontologies (Q1)
- Improved ontology visualization (Q2)
- Removal of all usage of Flash technology (Q1)
- Allow installations to add/remove tabs (Done)
- Common Terminology Services v2 (CTS2) interface (proposed OMG standard) for BioPortal (private alpha, Q1)

Future Development

- Definite
  - Move infrastructure to cloud
  - Better integration with ontology editors

- Possible
  - UML support

No Current Plans

- *Workflows*
  - (beyond ontology status & notes)
- Common Logic
- Other file/model formats
- Rules
- Reasoning over ontologies