

Panayotis Antoniadis, Jordan Auge, Timur Friedman



**Andy Bavier** 



Aki Nakao



## Objectives

## First step: Experiment setup

## Implementation

### Support the experiment lifecycle

**Setup**: annotate, filter and select resources **Live**: Real time monitoring and callbacks **Viz**: Visualize the results of experiments **Rewind**: post-process and analysis

### And more ....

- Build an on-line research community
- Share knowledge and best practices
- Learn user requirements and preferences
- Design informed federation policies

### **Basic principles:**

- Start simple and add complexity on the way
- Learn from the users

### **Key design choices:**

- 1) Build on the successful PlanetLab MySlice GUI extension of the node table
  - More than 400 PLE and PLC users use it today
- 2) Offer powerful annotation and filtering options to address heterogeneity and scale
  - Aggregation of numerous sources of information (system, performance, monitoring) by TopHat

Federation of resources and monitoring information in the same place

http://myslice.onelab.eu

## Use of **delegation** property of SFA

Different authentication options

### Local XMLRPC API acting as an SFA abstraction

Generic resource representation

### Standard web-design tools

Joomla!, jQuery

### High performance

- Personalized caching
- Asynchronous rendering and updates

#### Flexible and extensible

- Modular design, plug-ins
- Query model

# **Authentication and Authorization**

## Annotation, Filtering, and Selection

















