



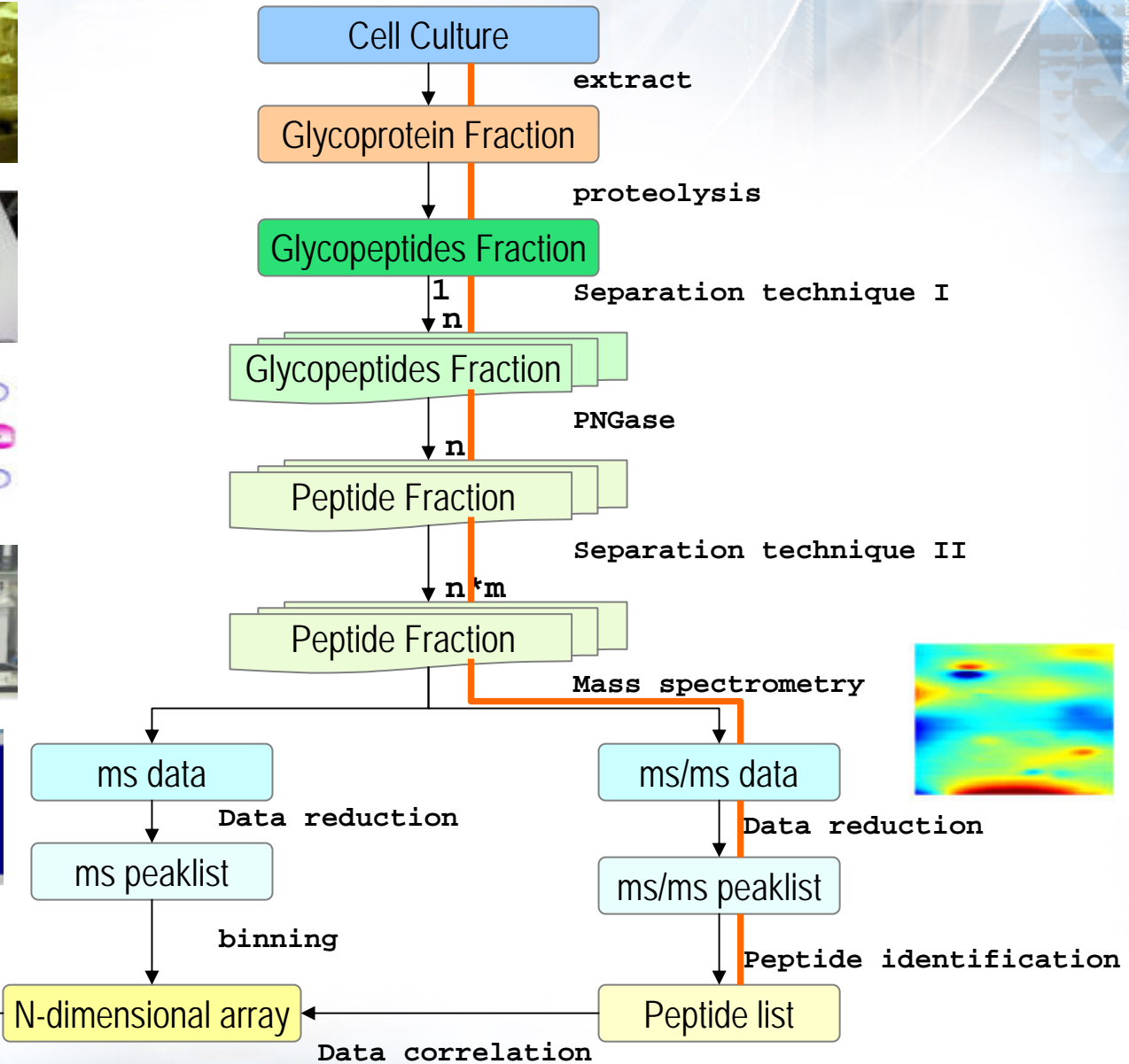
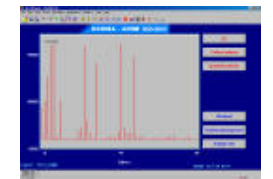
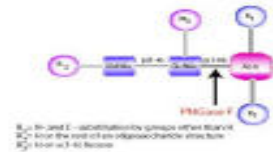
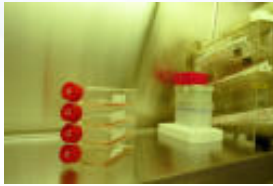
# Semantic GlycoProteomics Workflow

## Bioinformatics Group

Presented By: Satya Sanket Sahoo



# Semantic GlycoProteomics Workflow



Glycopeptide identification and quantification

Signal integration

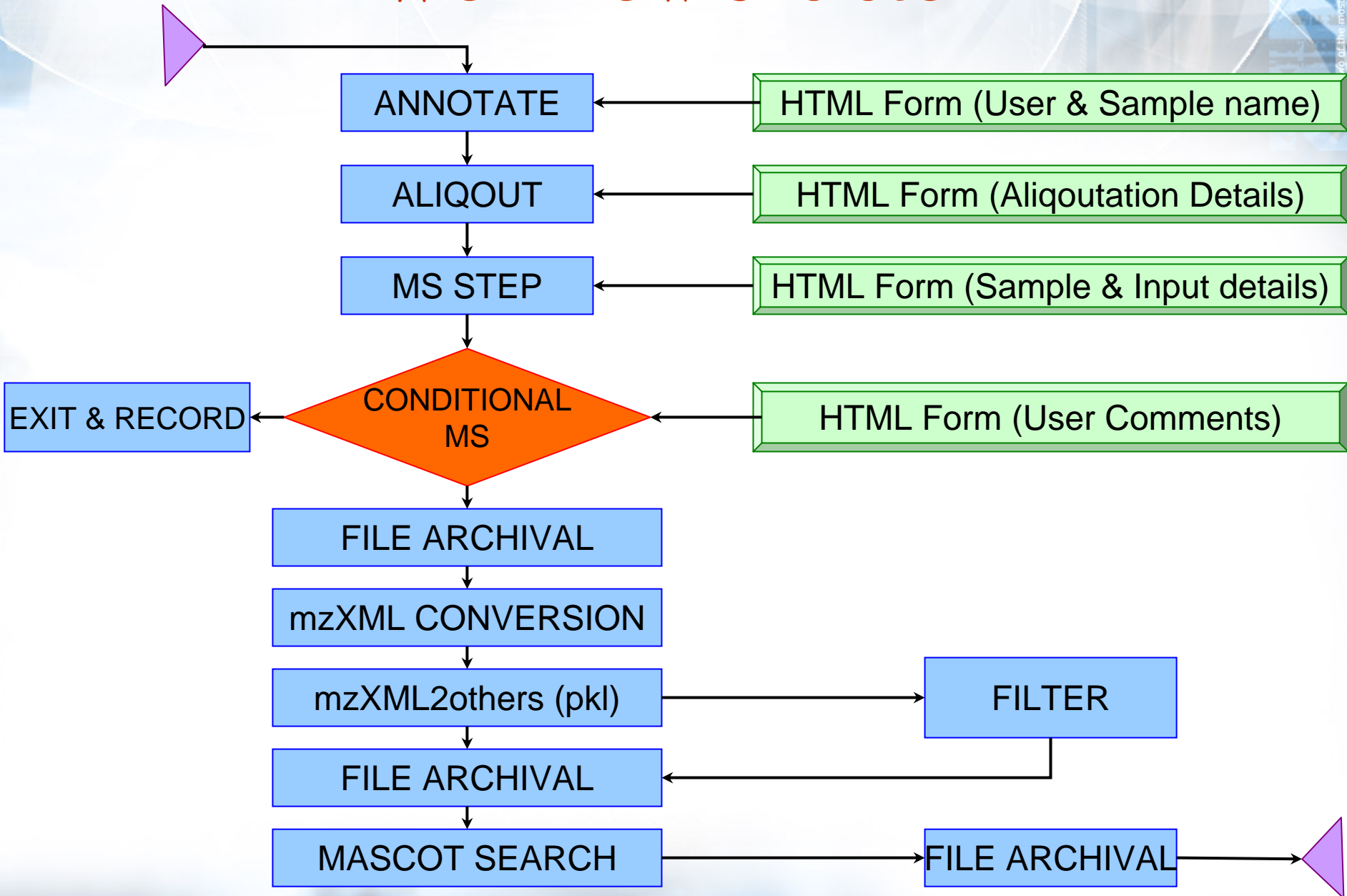


# Workflow Objectives

- Automate creation, processing and archiving of experimental data
- Enable tracking of current state of a job and/or data
- Automatically switch to alternate machines/application in case of failure
- Enable creation of Data and Process Provenance

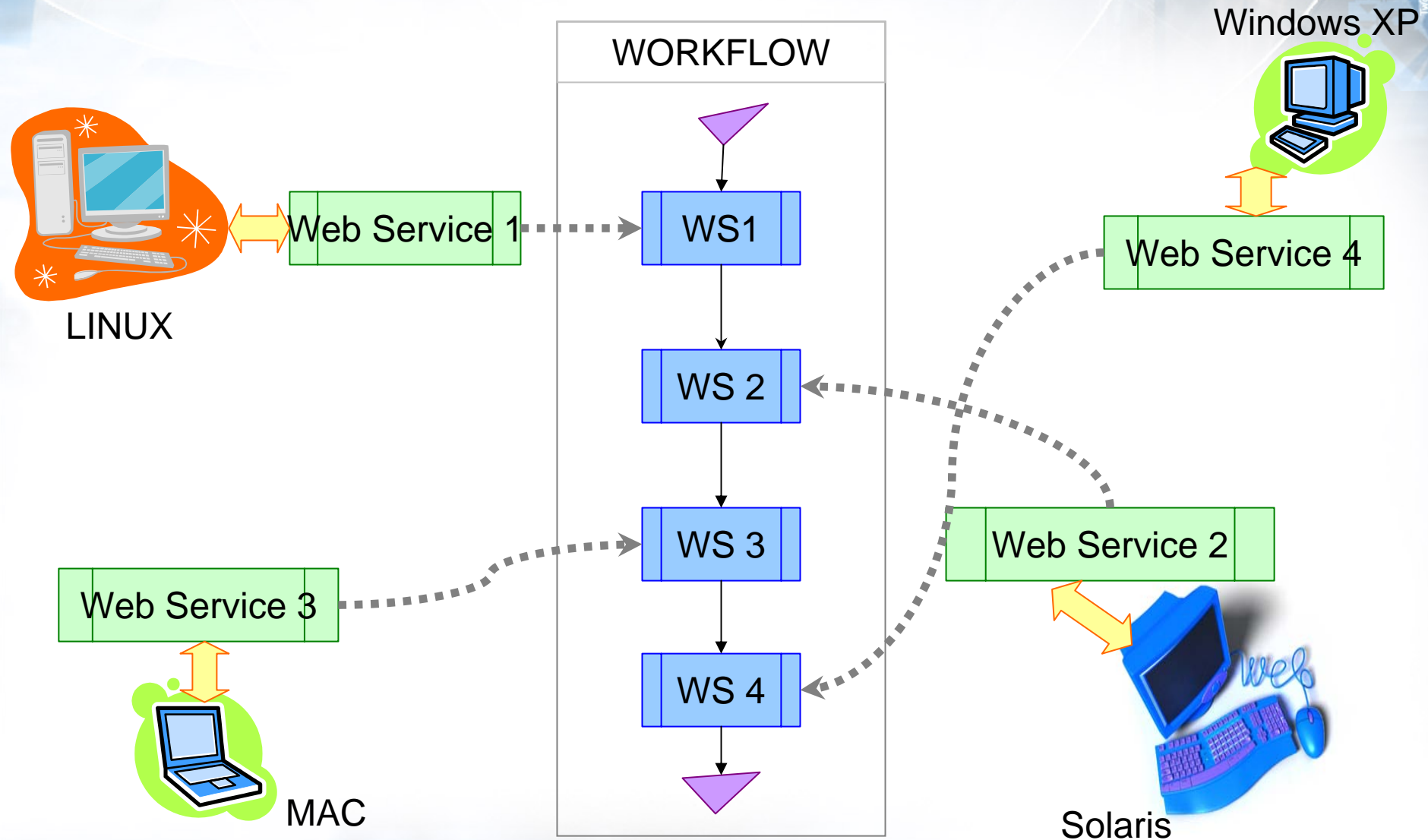


# Workflow skeleton



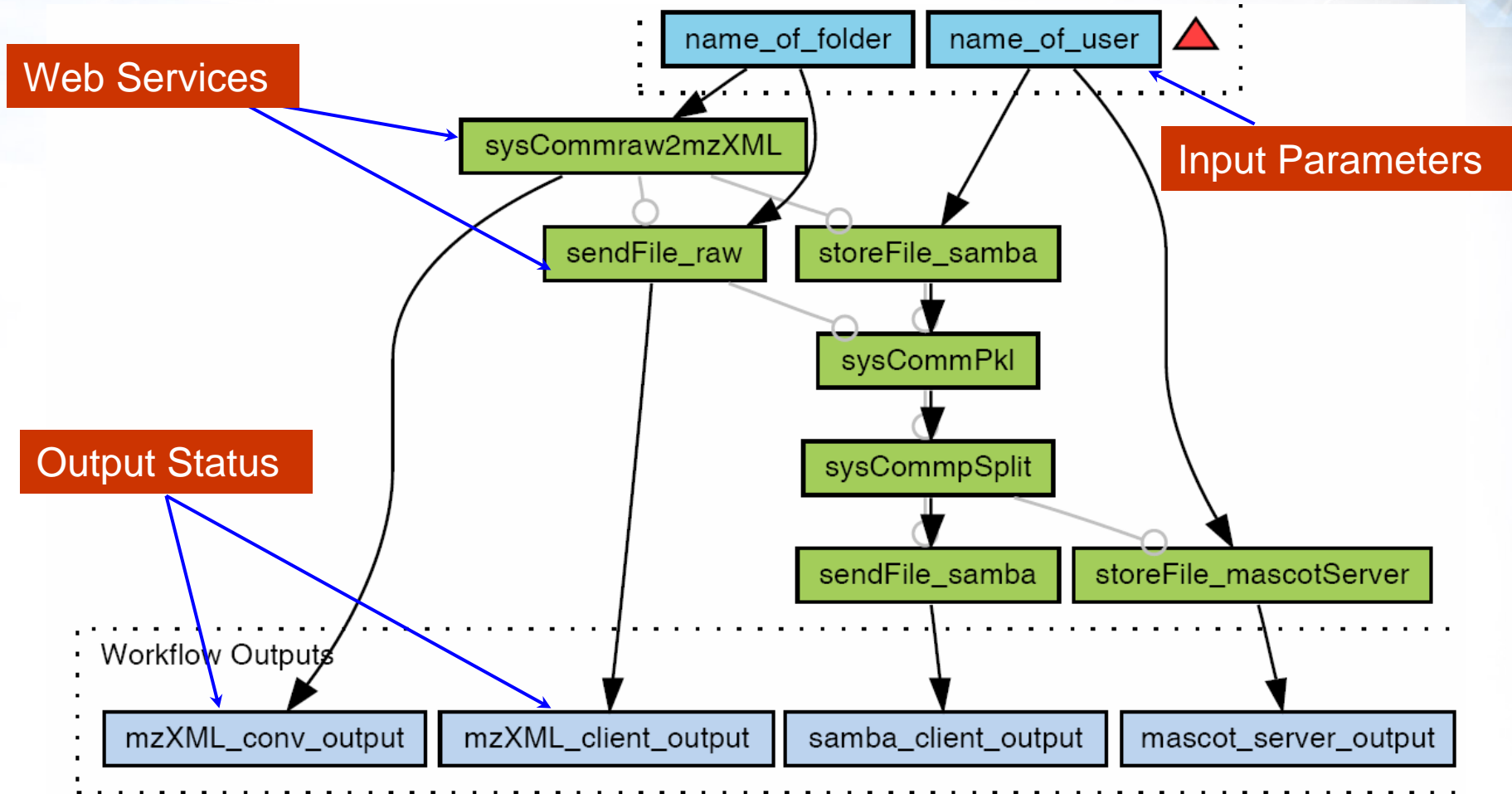


# Web Services based Workflow = Web Process





# Snapshot of Workflow (Taverna workflow engine)





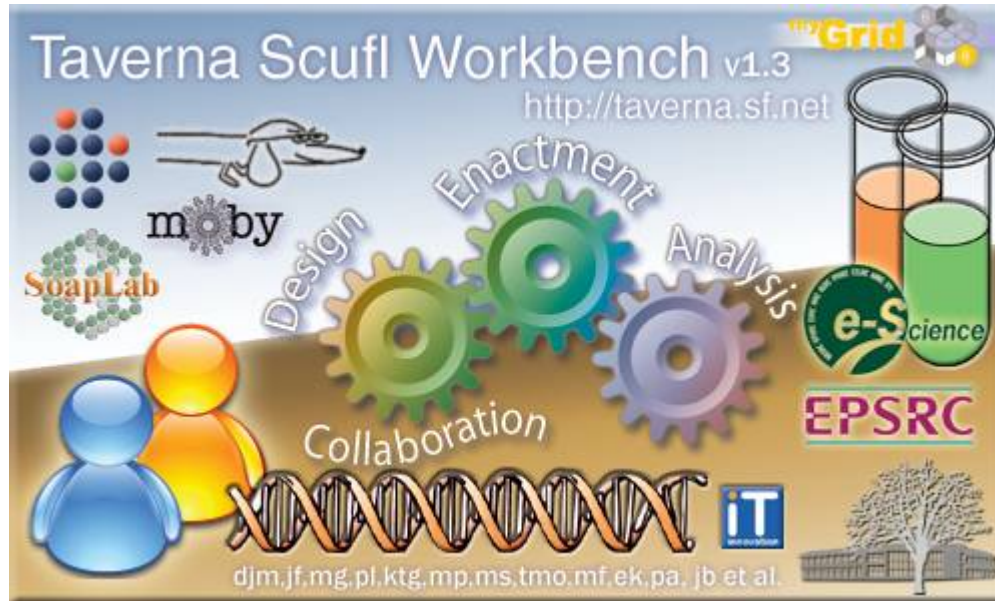
# Semantic Web Process

- Add Transaction Semantics
  - ❖ Rollback
  - ❖ Recover
- Search and integration of alternate Web Services
  - (<http://glycomics.ccrc.uga.edu/stargate>)
- Semantic Annotation of Experimental Data



# Demo

## Taverna\* Workflow Execution Engine



\*<http://taverna.sourceforge.net>