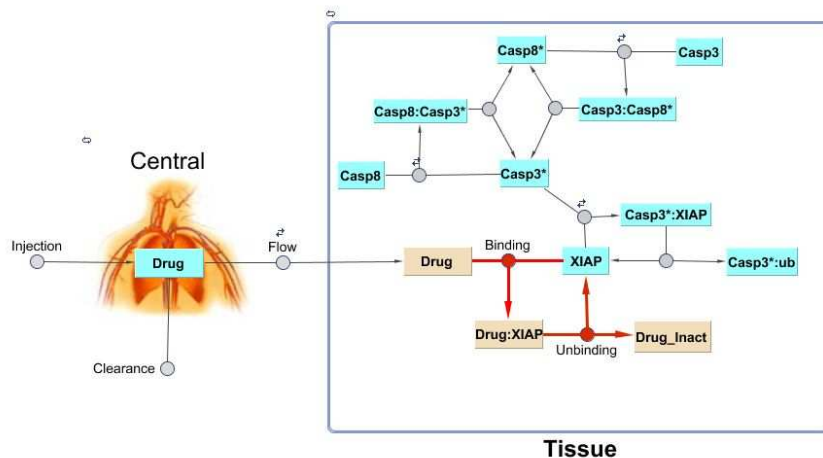


Parallel MATLAB with gLite

**MATLAB users can seamlessly transition
between desktops and Grids.**

Example: Systems Biology on Grid



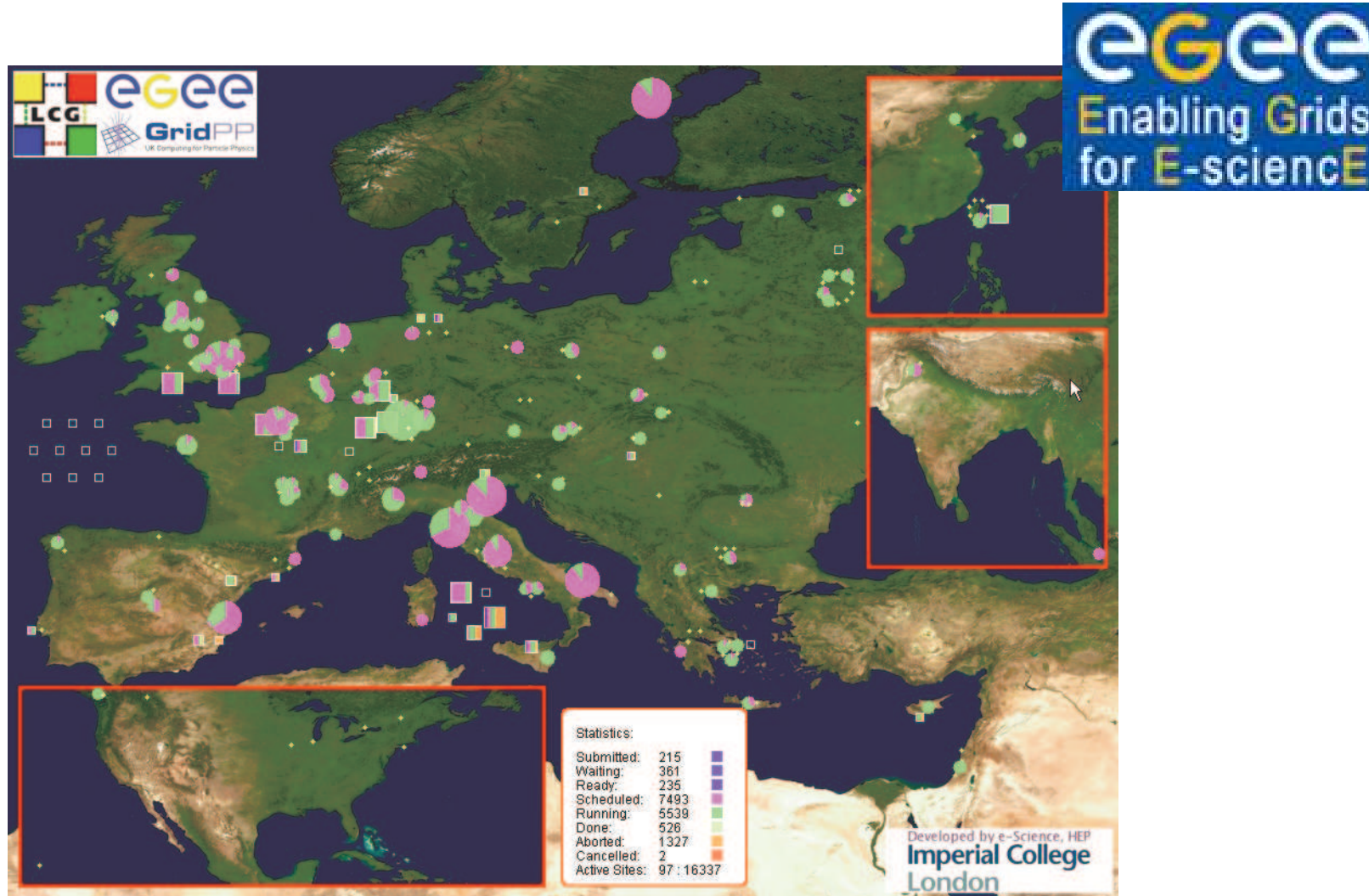
- Effect of drug injection rate on cell death
- Parameter Sweep – large number of independent simulations
- MATLAB® and SimBiology®

Example: Systems Biology on Grid

Part 1

Run on workstation with 2 local MATLAB workers

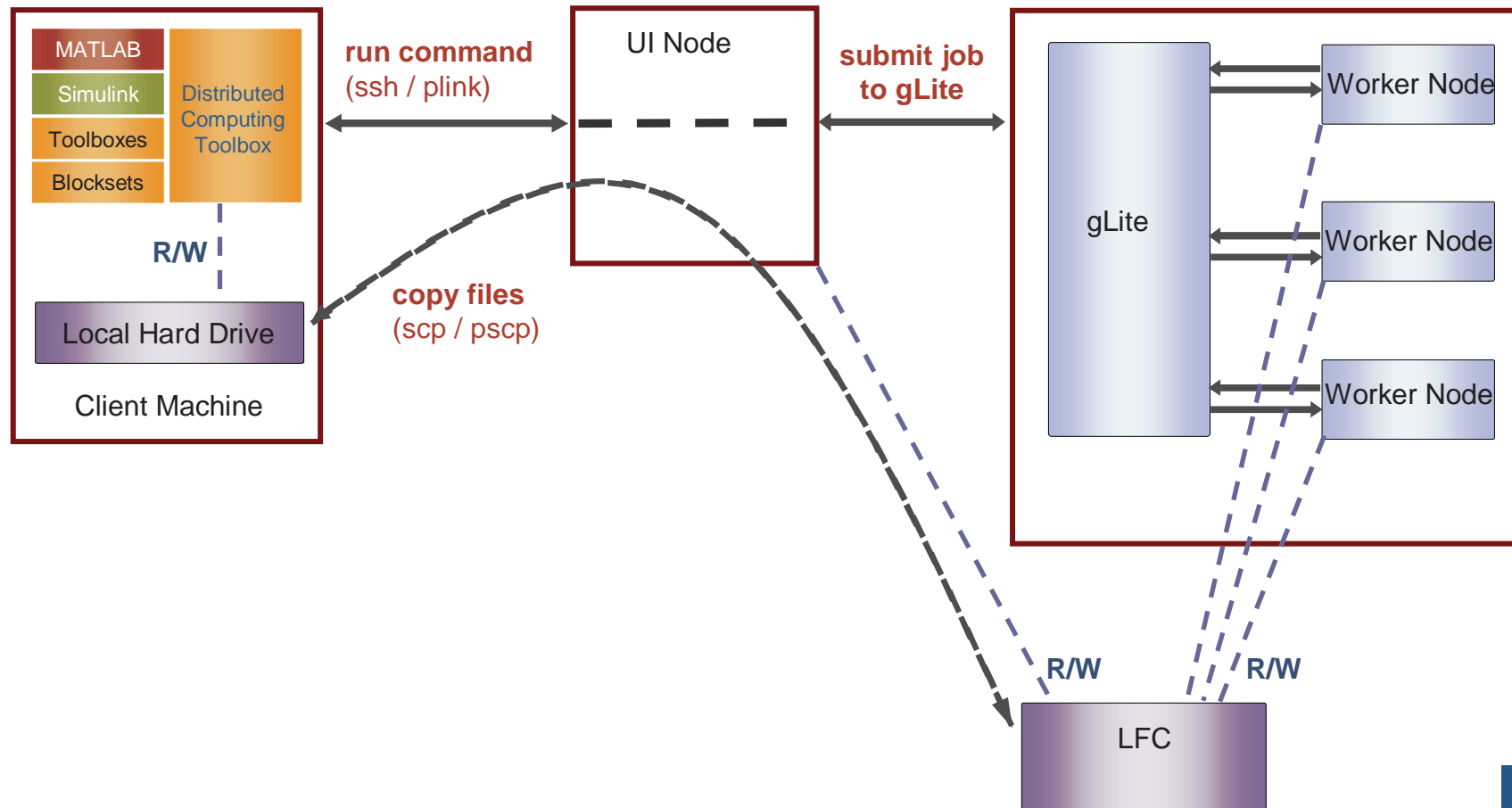
Run MATLAB code on EGEE Grid



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Integration of MATLAB and gLite

Step 1: copy input files to cluster monitor state



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Example: Systems Biology on Grid

Part 2

Run on EGEE Grid through gLite

...

without writing a single line of code

How?

Today's Test Environment

Grid software:	gLite v3.1
VO:	vo.lal.in2p3.fr
UI Node:	grid11.lal.in2p3.fr
MATLAB workers:	64
Cluster:	32 dual-CPU nodes Scientific Linux 4.5 Torque and Maui

Running your own MATLAB code on EGEE Grid

Technical Report

<http://doc.cern.ch//archive/electronic/egee/tr/egee-tr-2008-001.pdf>