



**eGEE**  
Grid Observatory



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Enabling Grids for E-sciencE



# Visualizing the dynamics of e-science social networks

## Goal

Scalable interactive visual exploration of the spatiotemporal structure of data-access and data-sharing.

- Multi-scale : dealing with power laws
- Interactive selection of the representation
- Multi-attribute: can handle selection from VOs, failures, volume,.. (not implemented yet)
- Next steps: integrate time, issues are smoothness and continuity

## GO contributions

### Data acquisition

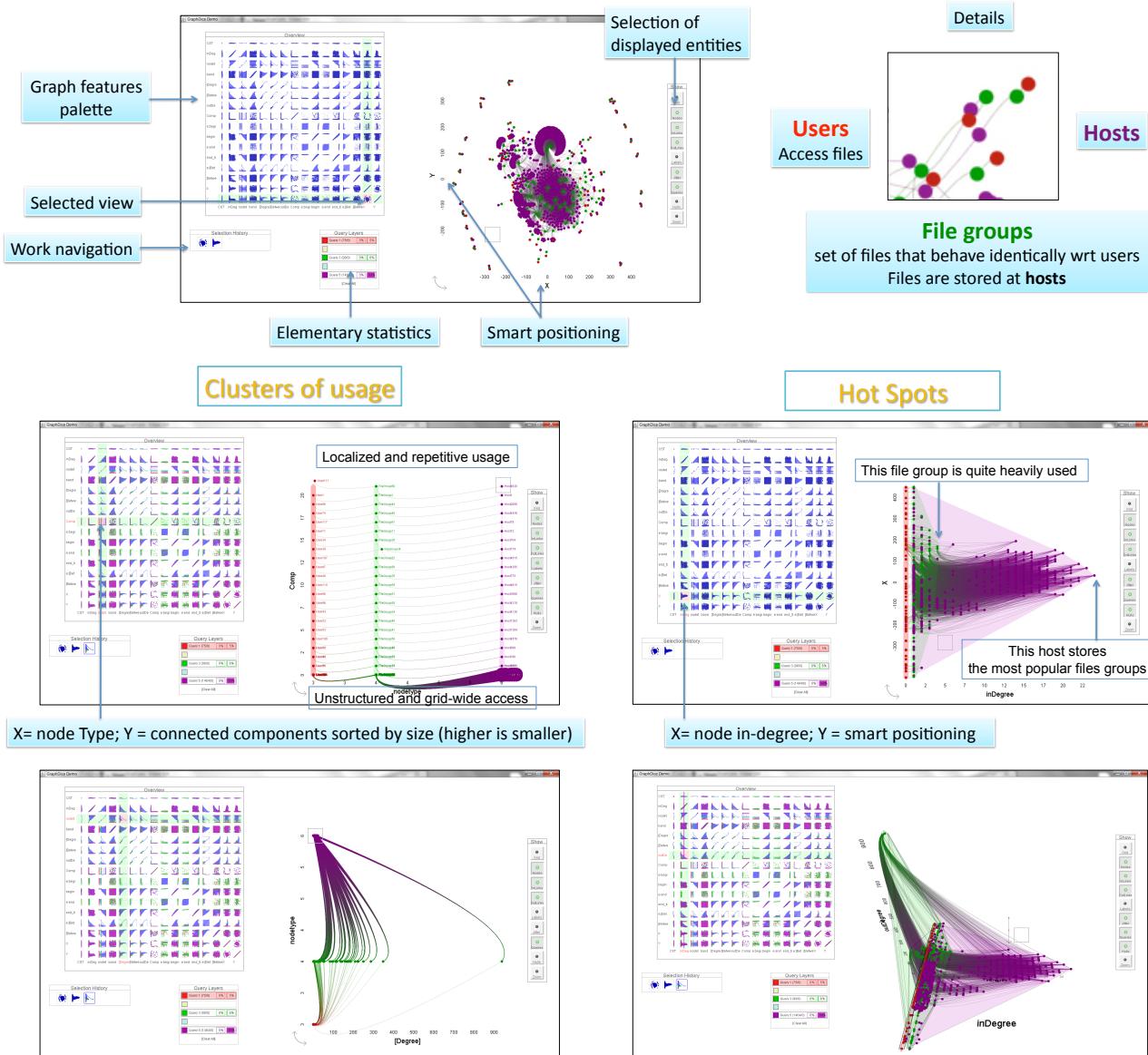
- Gridftp logs @LAL
- 1M files accesses
- 100K unique files
- date1-date2

### Identification and adaptation of the AVIZ GraphDice framework

### Data preparation

- SQL database
- user (anonymized), request and file host identifiers
- direction of the request (get or put),
- file name, transfer size, outcome (success or failure) timestamps.

A. Bezerianos, F. Chevallier, P. Dragicevic, N. Elmquist, and J.D. Fekete. GraphDice: A System for Exploring Multivariate Social Networks, to appear in EUROGRAPHICS 2010



Demo at the France Grilles booth Monday 5-7 pm, Tuesday 4-6 pm and on request!