QLectives: Quality Collectives

Proposal Overview
Objective IST-2007.8.4
FET proactive

David Hales
TU Delft, Netherlands
QLectives – basic idea

• Complex systems models for quality
• “Qualitative Collectives” = self-organising techo-social communities producing and rating quality (for the group) e.g. academic communities, media-sharing groups
• Use complex systems models and simulation for a self-organising P2P infrastructure to support QLectives – in general
• Create two “living labs” of real users in science and media from existing communities

QLectives will understand, experiment with, design and build trusted and secure socially intelligent ICT systems composed of self-organising peers, that will enable and support emergent ‘quality collectives’ to transform, for instance, scientific innovation and media distribution.
QLectives – project structure

- Complexity theory for social modelling
- P2P algorithm design, simulation & prediction
- Empirical analysis of living lab datasets
- P2P platform and living labs implementation
- QLectives P2P platform

Active human techo-social communities:
- QScience living lab
- QMedia living lab
- Econophysics forum: thousands of active users
- Tribler.org community: 150,000 downloads

COSI Info. Event, Brussels
24/01/08 - QLectives
QLectives – Core Partners

**Social science**, agent-based simulation, computational sociology

Nigel Gilbert, University of Surrey, UK (lead)

**Complex systems science**, econophysics, empirically based models

Dirk Helbing, Luboz Buzna, Sergi Lozano, ETH Zurich, Switzerland

Yi-Cheng Zhang, University of Fribourg, Switzerland

**Self-organising ICT**, P2P, simulation and implementation

Mark Jelasity, University of Szeged, Hungary

Johan Pouwelse, David Hales, TU Delft, Holland

+ Leading European broadcast + SME (TBC)

COSI Info. Event, Brussels
24/01/08 - QLectives