

# UCL Department of Computer Science

Research and societal challenges

**An internet for one trillion users.**

- Connecting more devices than people
- Privacy, Security and traffic flow with ubiquitous connectivity

**Computer programs that do not fail**

- Through logic, design, and automatic verification.
- Automatic fault finding & repairing

**Computer-enhanced living.**

- Physical spaces: home, office, public places, cities
- Virtual worlds: games, productions, services.

**Healthcare tailored for the individual**

- Data-driven treatment development and deployment
- Self-management of health.

**The virtual marketplace**

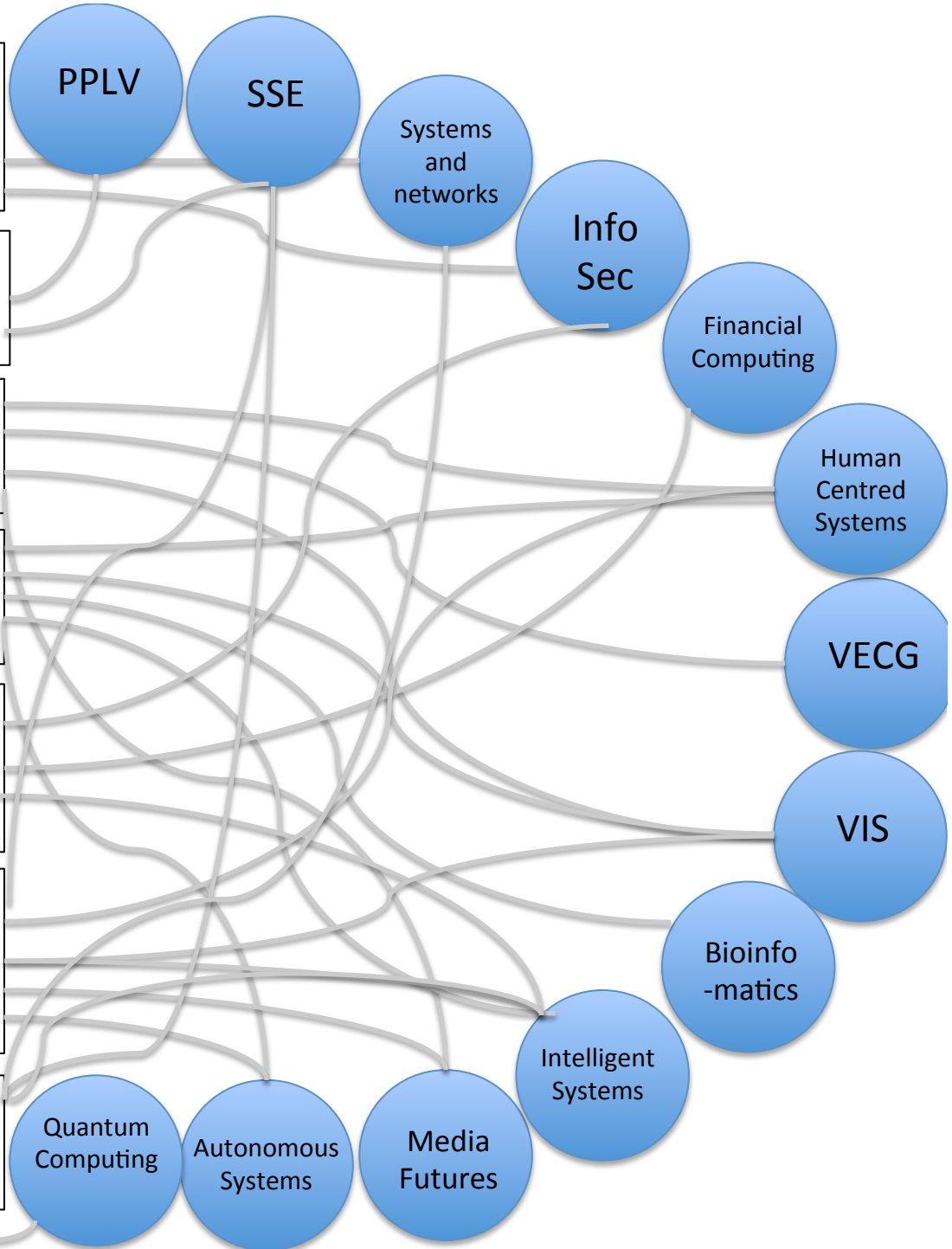
- Trust/reputation as currency
- Peer-to-peer economy
- Block-chain

**Technology for challenged environments/populations**

- ICT for (economic) development
- ICT for natural hazard/risk management

**Alternative computational platforms**

- Non-silicon computing: quantum, biological.
- Massively parallel systems.



# Research Mission

Our research enables a digital society  
by understanding the nature of  
information.