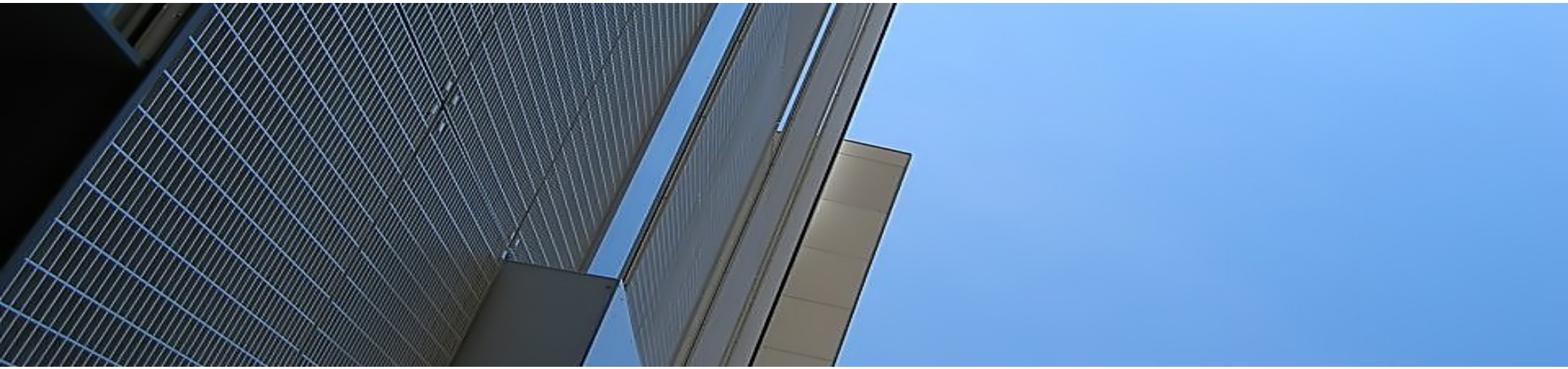
CINCO

Collaborative and interoperable computing



CINCO group

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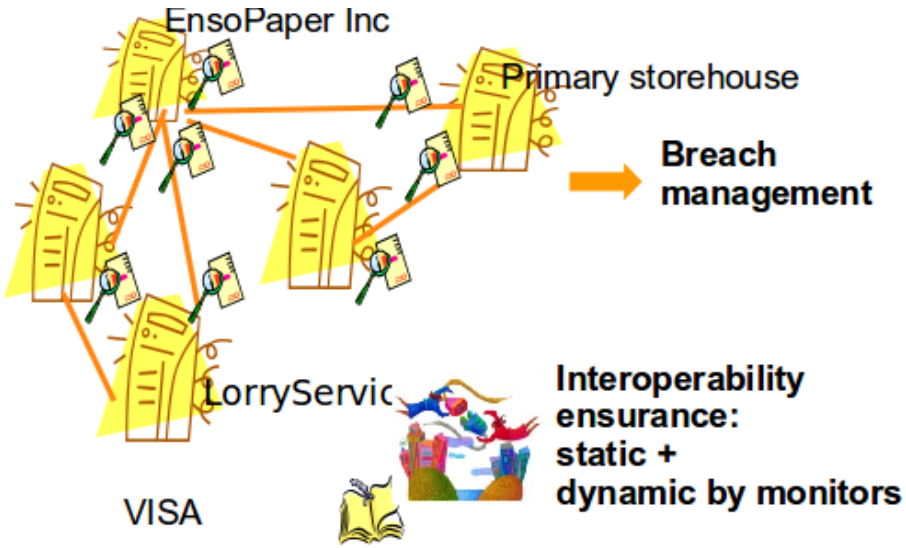
CINCO group vision

Organisations and individuals expect to themselves

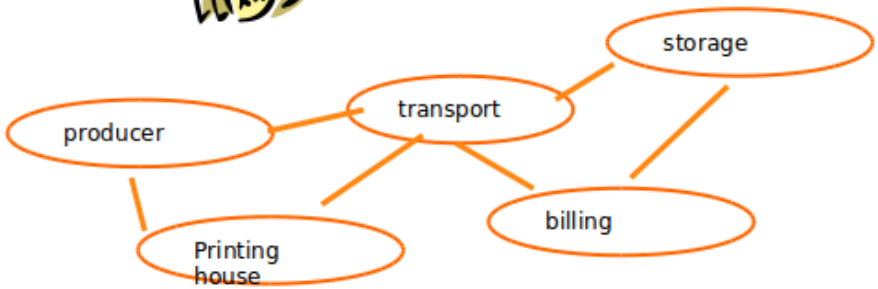
- easily and safely **compose new collaborations** from open service markets;
- **dynamically manage** these constructs with their private policies;
- be able to **trust** the **correctness** of the **collaboration** (regulations, intentions, incentives);

Expect to have available

- **multiple well-governed ecosystems** in which to do and develop business;
- **collaboration management utilities**
- **subjective protective facilities** (trust, privacy, value, strategical match)
- Coherent development environment
- Ecosystems that evolve and scale (sustainability)



Partner search and selection (trust decision)



CINCO group research mission

- To develop solutions for service interoperability and management of dynamically formed collaborations
- The solutions are
  - maturely enabled by *open service ecosystem architecture and governance*;
  - supported by a *global infrastructure* that supports interoperability and *contract-based* collaboration management (establishment, control and breach recovery); and
  - complemented with *service-oriented software engineering* and system composition practices.

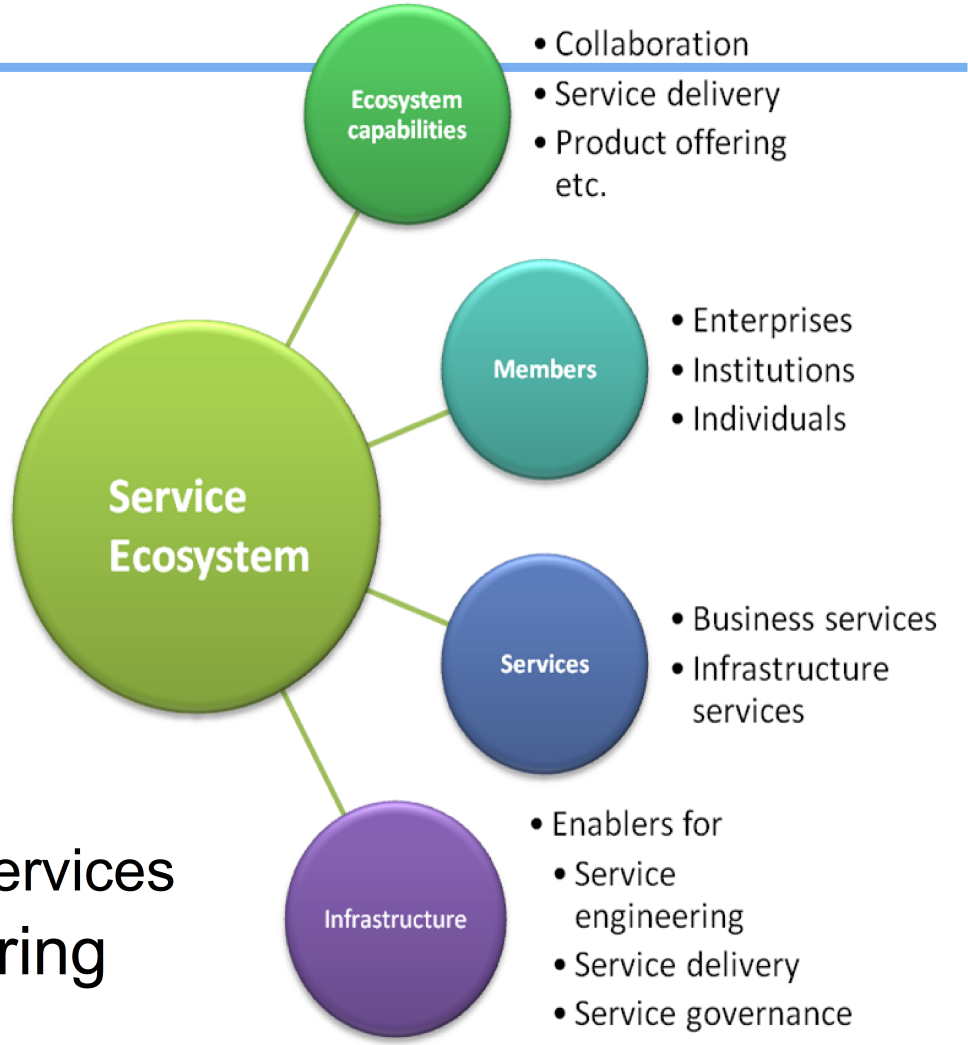
CINCO group mission

To educate experts for the following roles

- enterprise engineers for global networked business
- ecosystem infrastructure renewers
- creators of tools and methodologies for developing software-based services and service systems, involving appropriate quality aspects of the services and systems
- developers of governance facilities for aligning business and computing systems

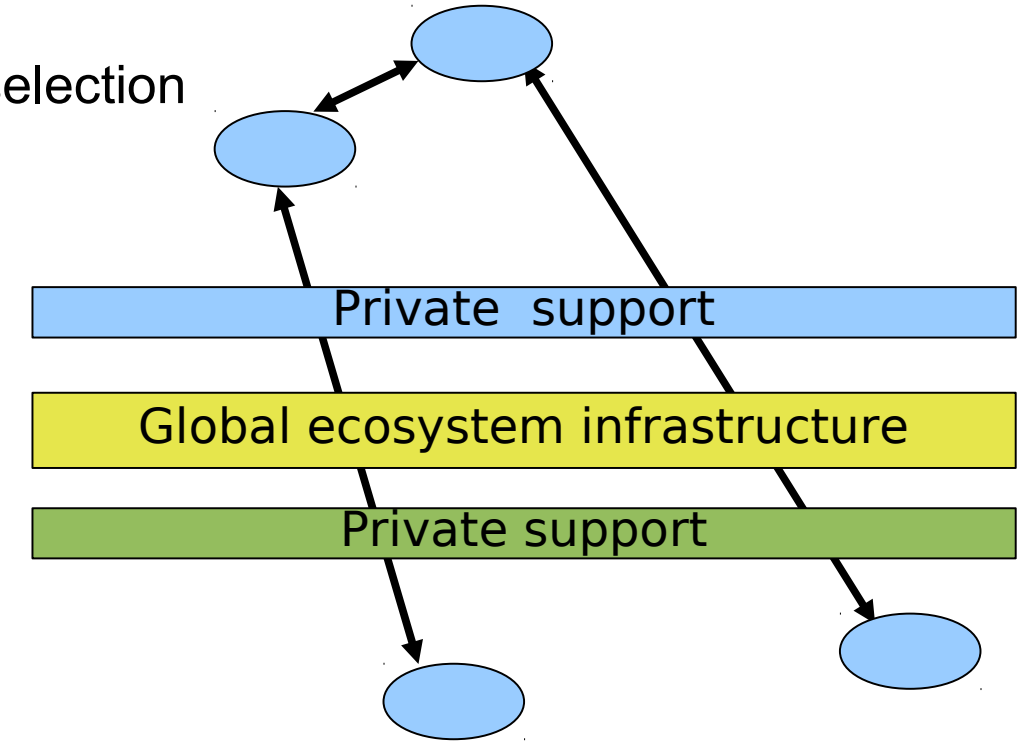
Application domain ecosystems

* Example areas
  - crisis management
  - healthcare
  - document distribution
  - shared workspace
  - swapping tasks
* Populating the ecosystem
  - software-based applications
  - business processes that join those services
* Service oriented software engineering methodologies and tools
  - experimenting with MDE tools and processes
  - experimenting with modeling tools
  - verification and validation of products



B2B collaboration support infrastructure
Renewal and competing solutions

- **eContract management protocols**
  - Partner discovery and multi-way selection
  - Refining negotiation
  - Monitoring, breach detection
  - Breach management
  - Trust management
  - Reputation management
  - Identification management
  - Privacy management



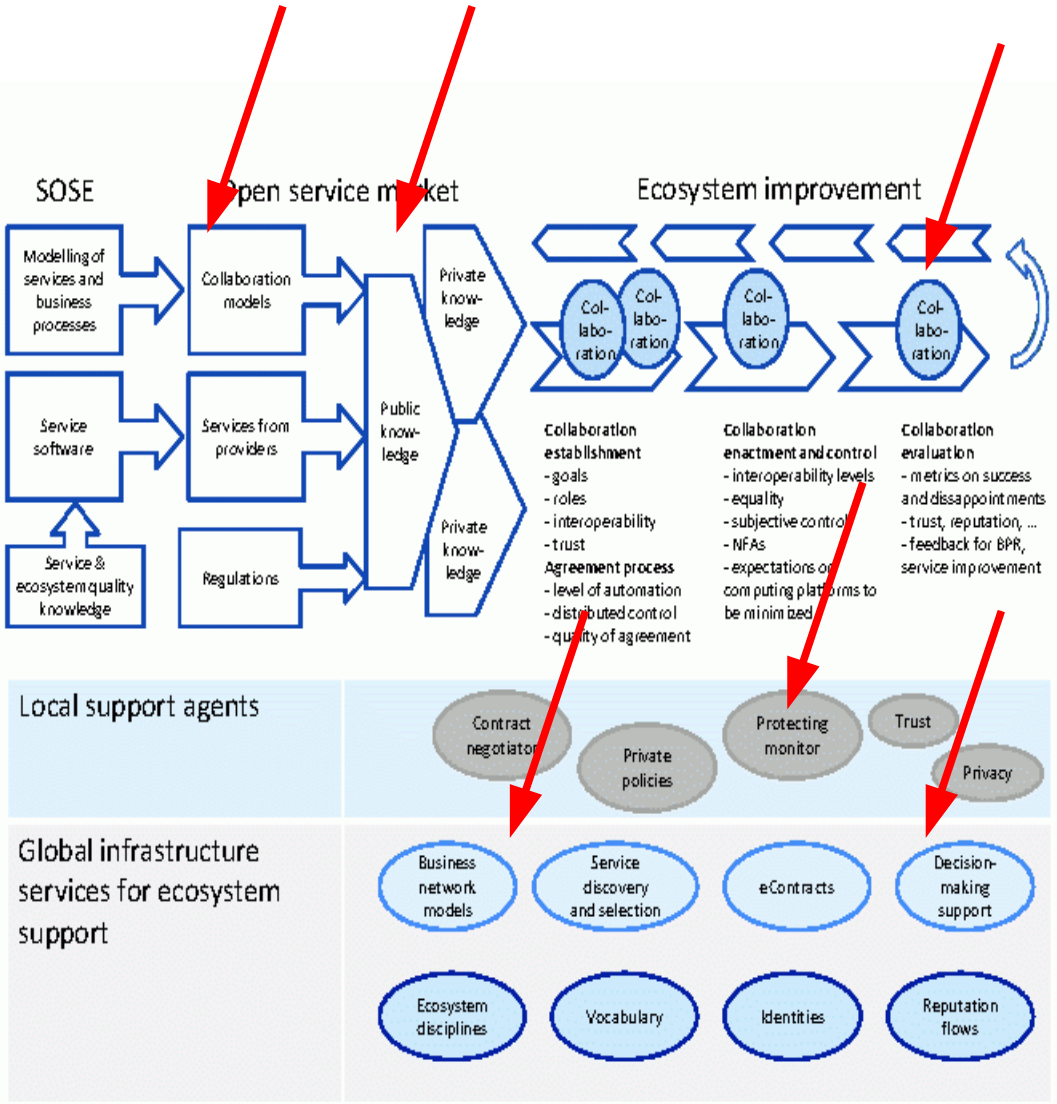
- **Meta-information services**
  - Service type repository
  - Business network model repository
  - Service offer repository
  - Reputation information flows

*** Platform issues**

- ESB, WS*, cloud, agent systems
- Open binding platform

Enchanging or adding ecosystem or collaboration users' control interfaces

* Graphical administration
  - policy languages and mappings to technical monitor data
* Graphical modeling of BNMs
  - RM-ODP toolbox
* Embedded verification
  - protocol verification
  - Z, MAS, Petrinets, ...
* eContract graphical interfacing
  - decision support
  - demonstrating collaboration progress



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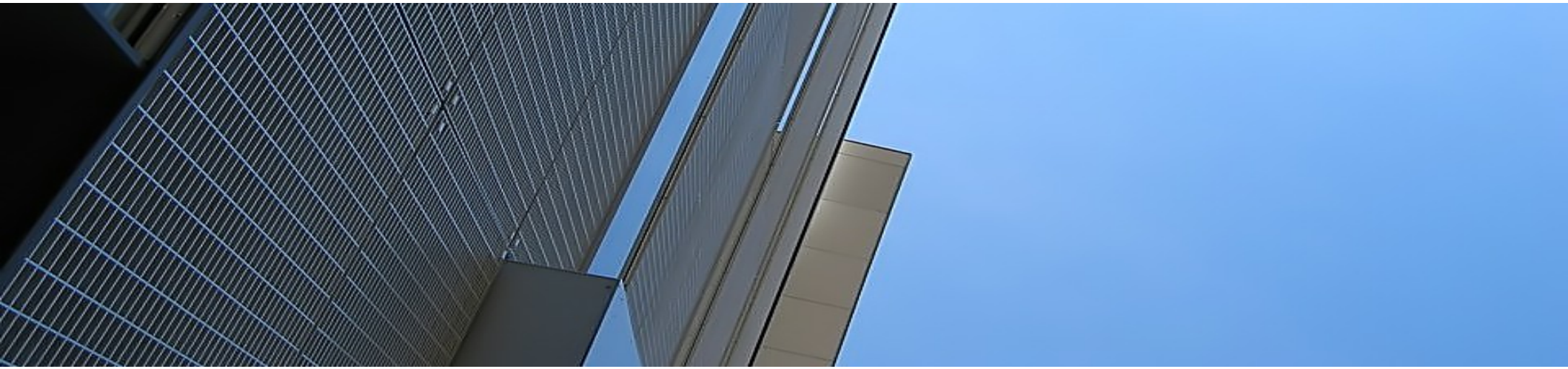

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