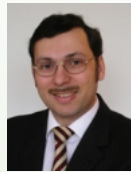


# Overview on Panlab

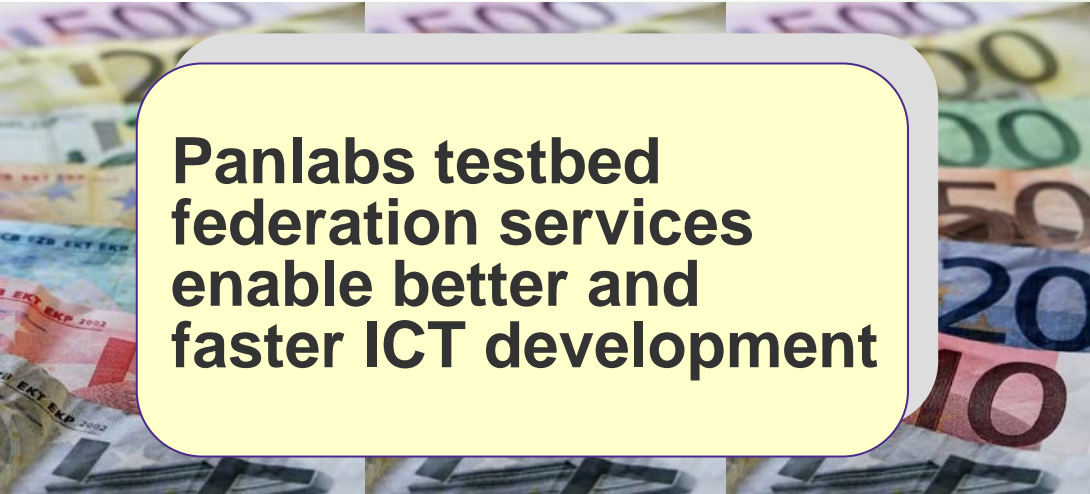


**Milon Gupta, Eurescom**  
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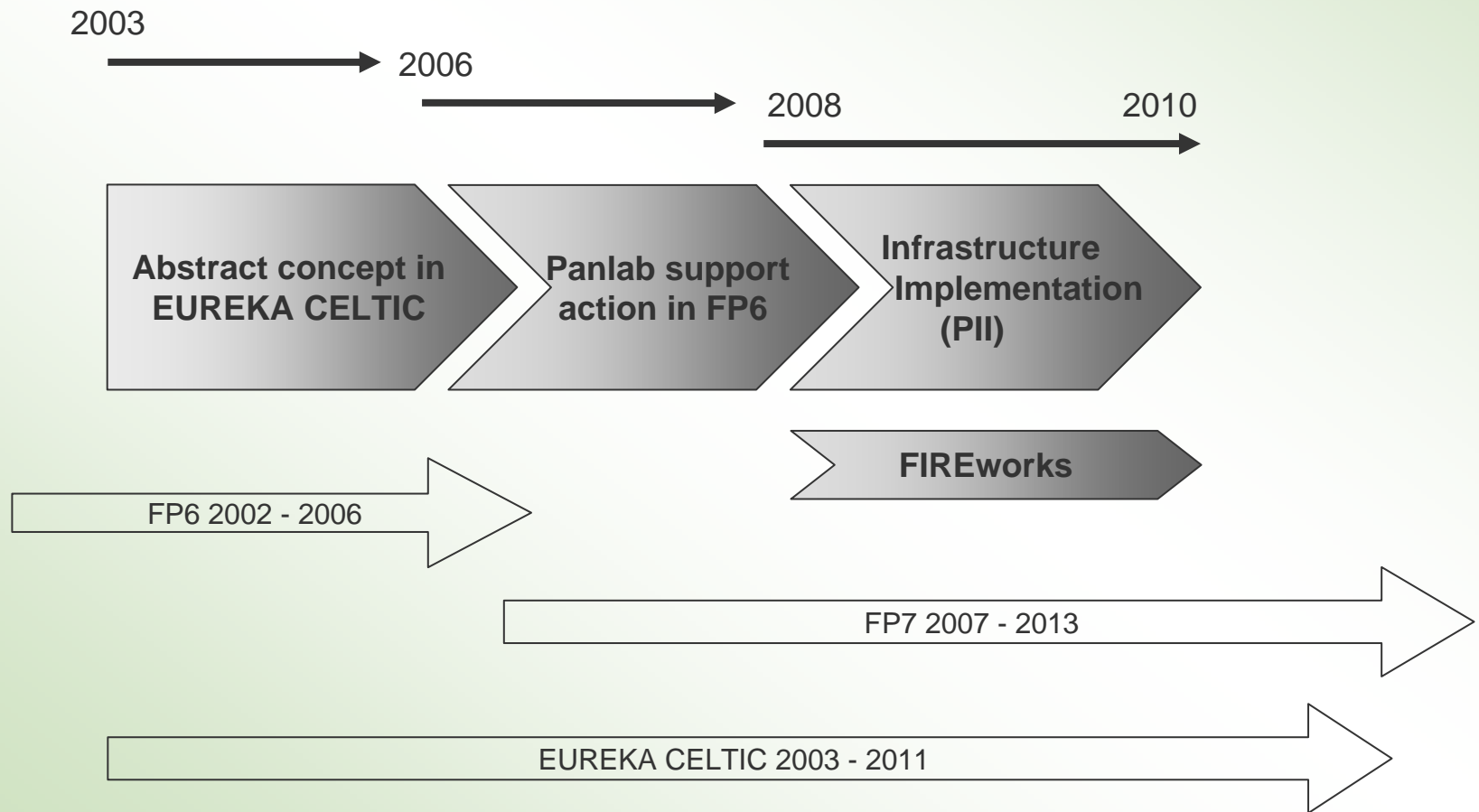
Training Seminar of the Spanish Panlab Cluster  
1 July 2010, Barcelona, Spain

- Federation of ICT testbeds
  - Interconnection of two or more independent testbeds
  - Purpose: provide a uniform approach for accessing testing resources
- Federated testbeds
  - Owned by different organisations
  - Located in different geographical places
  - Heterogeneous technologies

- Creation of a richer environment for testing and experimentation
- Main benefit for testbed users:
  - No need for development of own testbeds
- Main benefit for testbed providers:
  - Better utilisation of testbeds
- More efficient experimental research



**Panlabs testbed  
federation services  
enable better and  
faster ICT development**

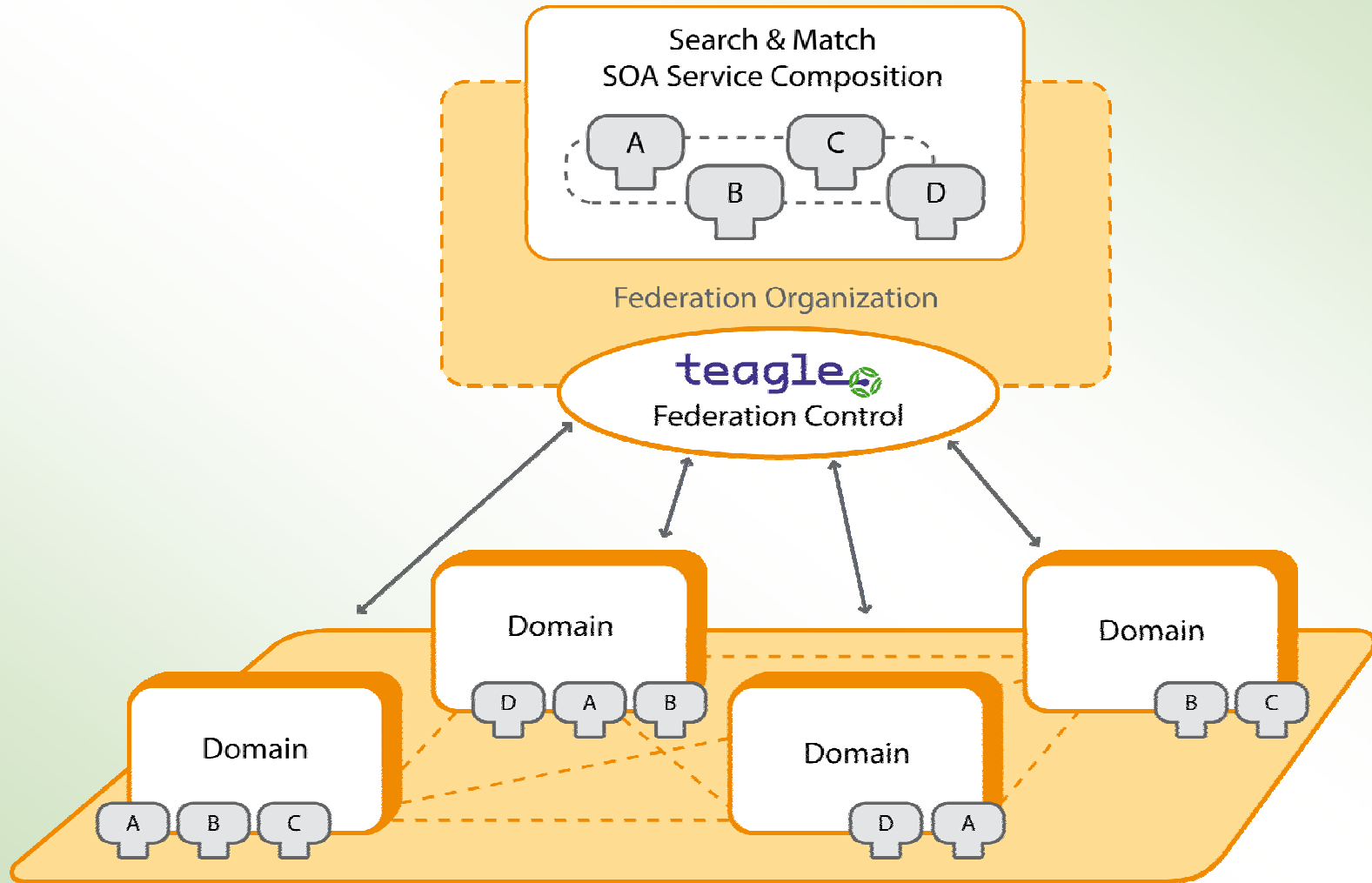


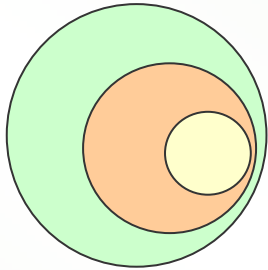
- Open federation as a design principle
  - Geographically disperse
  - Technologically diverse
- Openness as fundamental principle
  - For all relevant stakeholders
- End-user role and experience included
- Dynamic and evolving over time
  - Based on the requirements of the users
  - Led by latest technology developments
- Operated under common management framework under a common management authority

- Sustainable research infrastructure
  - Wide availability of experimental facilities
  - Continuous development of testbeds
    - Latest technologies / user requirements
  - Compact and clear federation operation
- Societal and economic impact
  - Easier way to R&D results
  - Shorter time to market
  - Larger economic growth

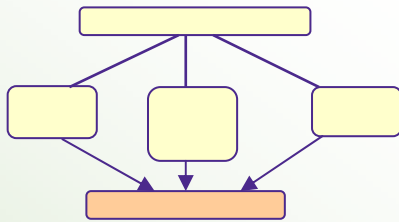
- Target
  - Regulation of all related legal issues
  - Efficient conclusion of contracts
    - Applying of contract templates
    - Ensuring individual negotiations among customers and providers
- Federation contracts
  - For testbed providers and customers to join Federation
  - For specific test resources and testing sessions
- Addressed issues
  - IPR, Confidentiality, Access rights, etc.

- Testbed specification and integration
  - Panlab repository
- Search for testing configuration
  - Customers' requirements
  - Set-up of testing sessions
- Execution of tests
  - Configuration and validation
  - Collection and evaluation of results
- Usage of existing results and configurations

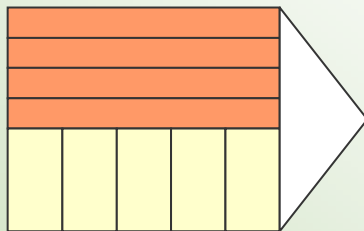




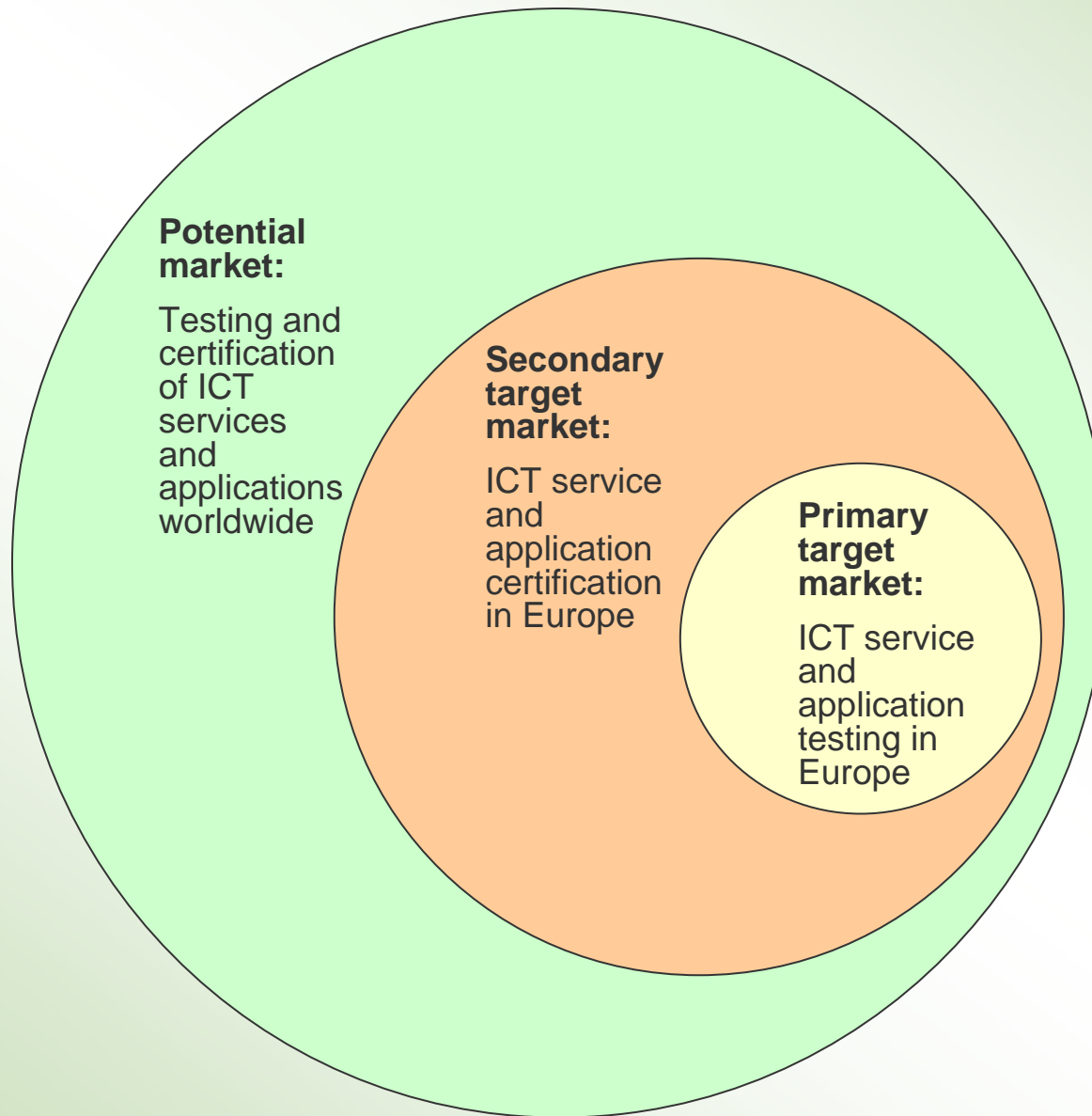
- Who
  - Market
  - Customers

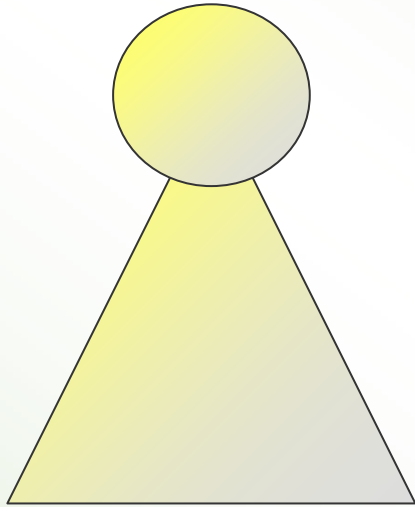


- What
  - Service
  - Value proposition



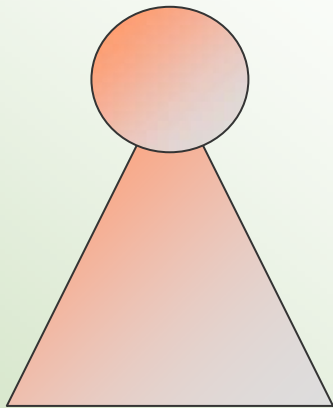
- How
  - Organisation
  - Resources





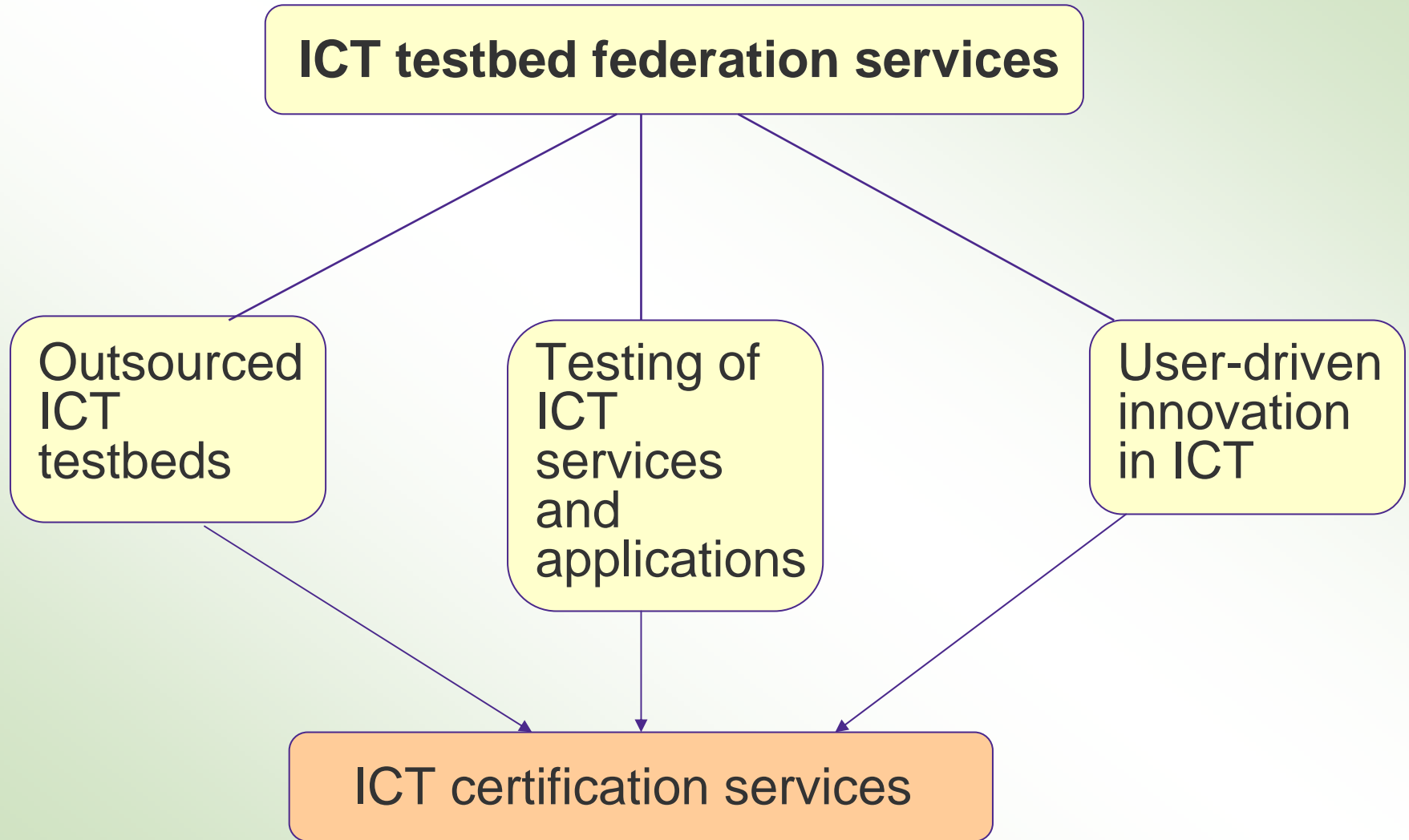
## Testbed users

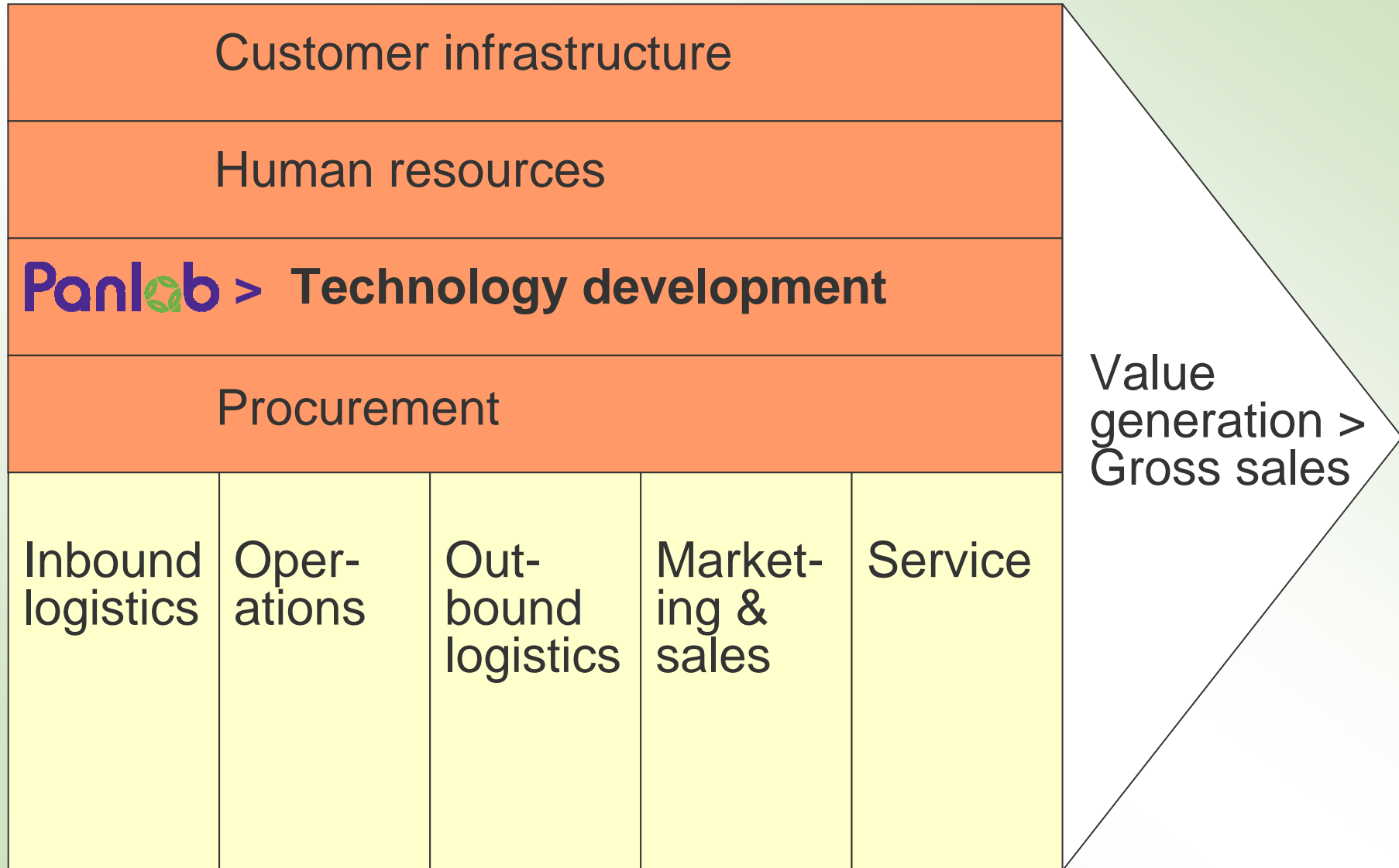
- Large ICT companies
  - Network operators
  - Telecoms manufacturers
- ICT research institutions
- SMEs in ICT



## Testbed providers

- Large ICT companies
  - Network operators
  - Telecoms manufacturers
- ICT research institutions





- Panlab website
  - [www.panlab.net](http://www.panlab.net)
- Panlab Office
  - <http://www.panlab.net/office.html>