

Bon FIRE

Building service testbeds on FIRE

*Services Testbeds Panel
Service Wave 2010*

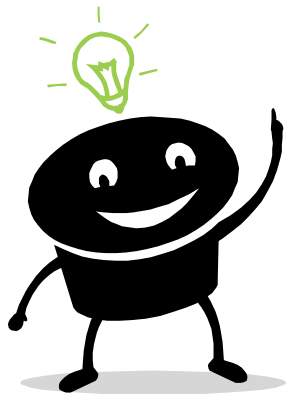
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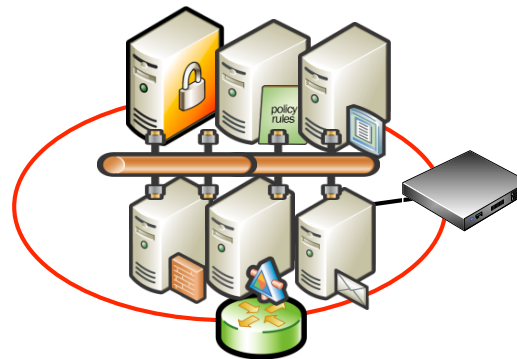
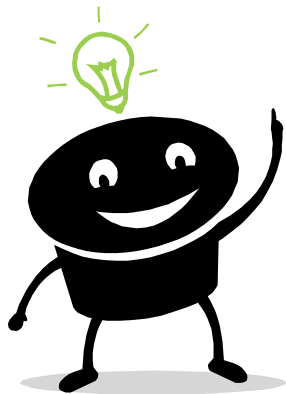
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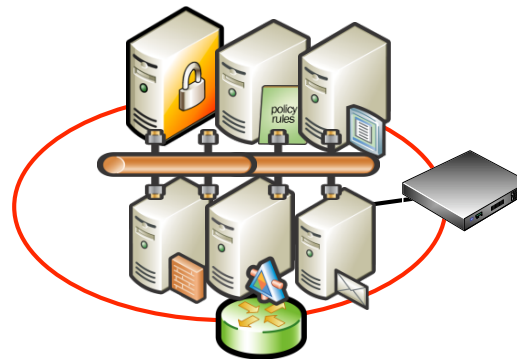
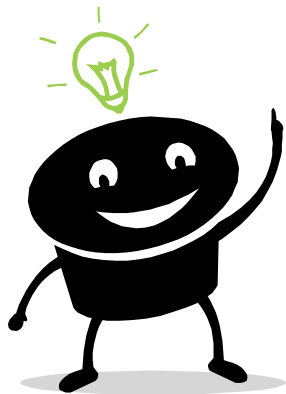
**Do you have *ideas* for innovative cloud
and service technologies?**



Do you need *infrastructure* resources to prove them?



Do you need *money* to make it happen?

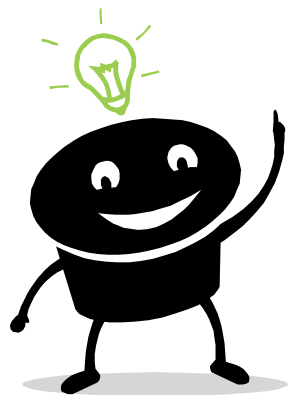


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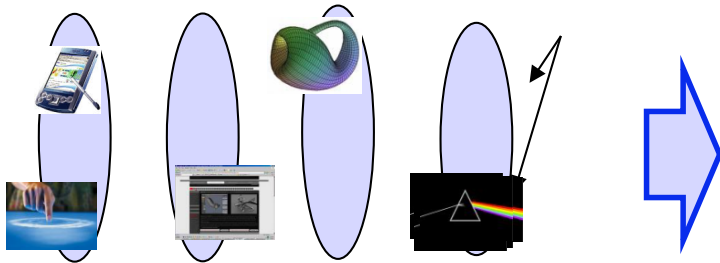
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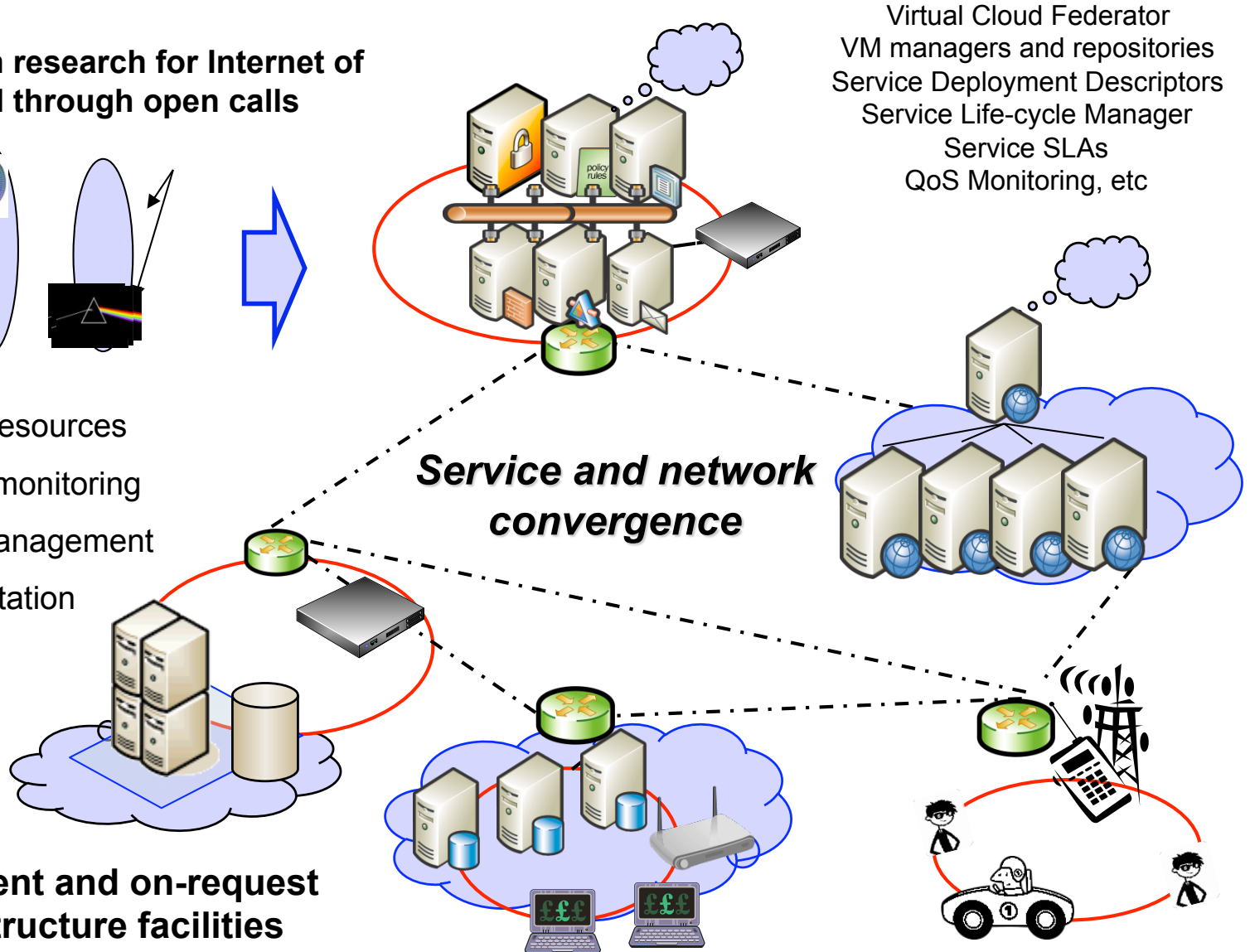


Experimentally driven research for Internet of Services selected through open calls



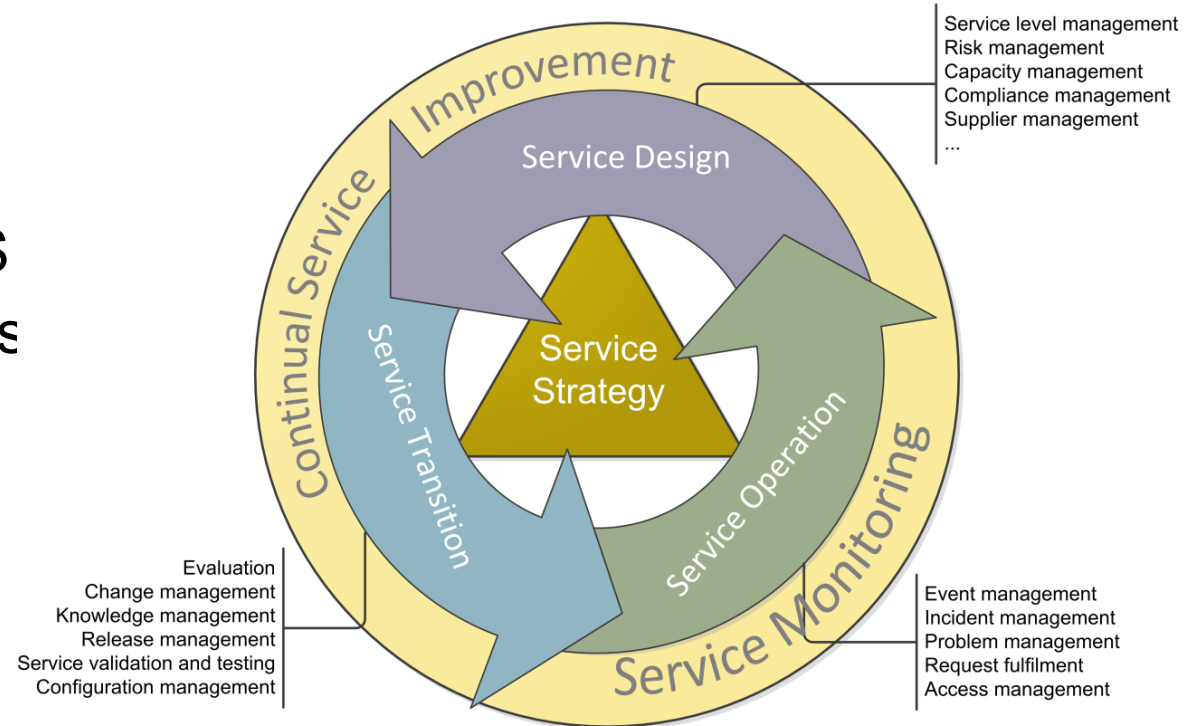
- Heterogeneous cloud resources
- Advanced control and monitoring
- Experiment lifecycle management
- Large scale experimentation

Permanent and on-request infrastructure facilities



Need for common activities in service testbeds?

- Testbeds have roles throughout the service lifecycle
- Tests are broad with the trend towards *aaS
- Generally three classes of testbeds funded (commercial public, private, public/private)
- Need to promote connected as well as common activities



General challenges for sustainable testbeds

- Users/customers need control
 - what services they consume, how much is used, and by whom
- Service providers need independence
 - maintain control of their own resources
- Accountability must be addressed at many levels (QoS, SLAs, usage and cost)
 - best effort not really good enough for anyone
 - centralised brokers have inherent difficulties
- Security must to be commercial standards
 - especially for near to market experiments
- Maintenance must be cost effective



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