



FIREweek 2010

On Potential Synergies between

FIRE and the FI PPP

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FIRE supporting FI PPP

FIRE facilities for Core Platform & Application Development

FIRE offers facilities for FI PPP development & experiments:

- **FI PPP core platform** deployed, tested and enhanced utilizing FIRE experimental facilities
- **FI PPP usage areas** can deploy *or federate* their testbeds (incl. the FI PPP Core Platform) on top of / *with* FIRE infrastructures in order to test and enhance usage-area specific enablers and applications

FIRE facilities / projects provide a broad range of

- **Network Options** (mobile, fixed, dedicated, emulated and controlled, standard internet, etc.)
- **Heterogeneous Resources** (HW, SW, clouds, platforms, "things", etc.)
- **Tools & Services** (testing, management, cont. integration tools, etc.)
- **Best Practices for testbed** setup, operations, maintenance, experiments

→ potentially highly valuable assets for the FI PPP



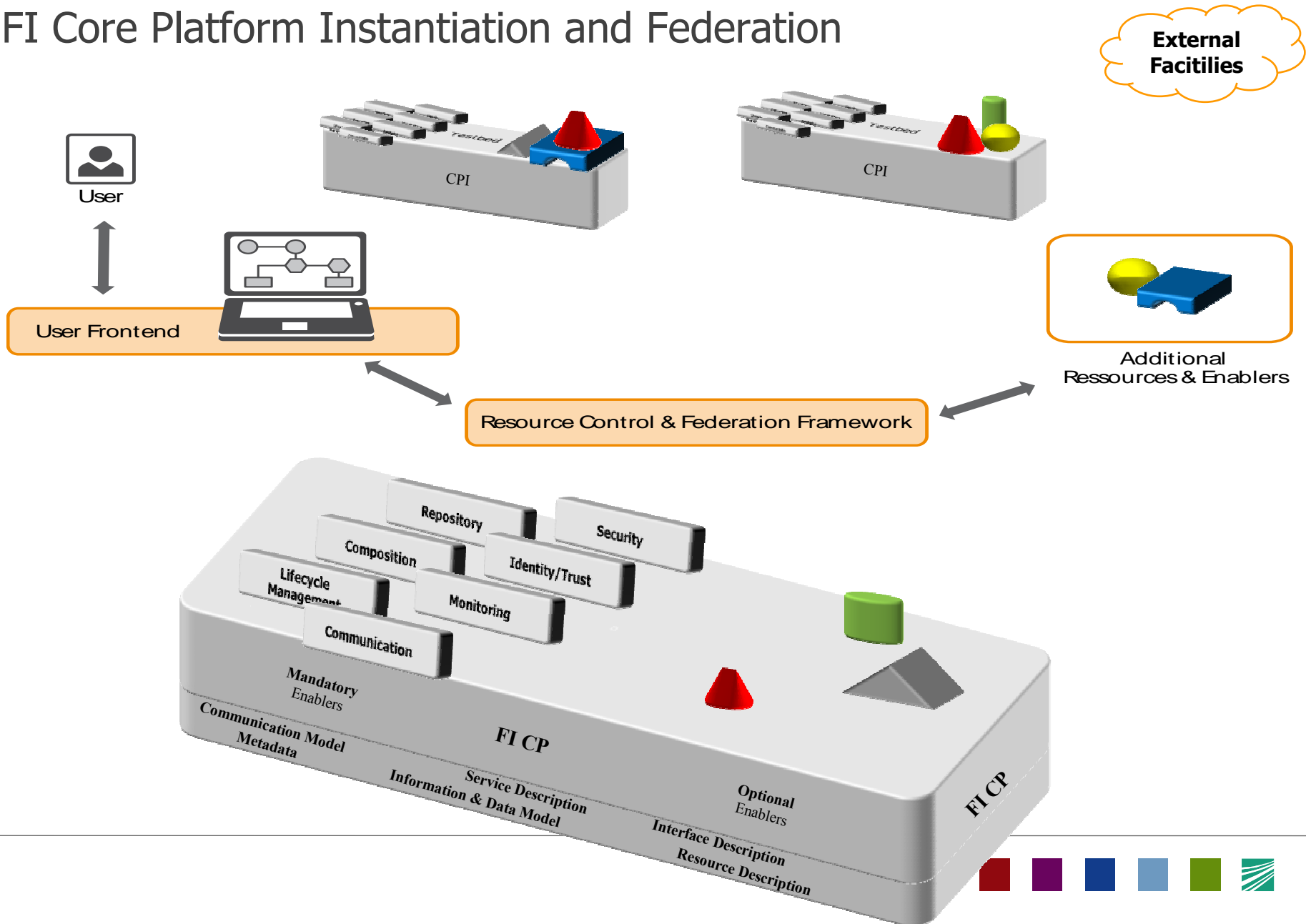
Federation Mechanisms to facilitate the FI PPP Evolution

Parallel Evolution of Core Platform and Application Domains

- Flexible FI PPP CP Instantiation for different FI usage areas testbeds
- Parallel evolution of the FI PPP CP and usage areas requires **repeated, continuous, flexible and dynamic FI CP instantiation and federation mechanisms**
- FI CP instances (CPIs) comprised of mandatory generic enablers (GEs) as well as optional GEs → **CPI Composition & Federation required**
- **Cross-domain federation of CPIs** / usage area testbeds with external infrastructures and resources for:
 - Integration/deployment of CPIs into/on top of heterogeneous hardware, network, cloud infrastructures
 - Integration of additional resources (e.g. special hardware) into usage area testbeds
 - Federating several CPIs & usage area testbeds with external facilities (e.g. FIRE facilities)



FI Core Platform Instantiation and Federation



Thank's for listening!

Any Questions ???

