

FIRE Opportunity

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Three Themes

- Virtualization
- Federation
- Measurement and Monitoring

Virtualization

- Full-time sharing of resources
- Isolation of different (demanding) activities
- Key technical demand is flexibility in moving hardware/software interfaces from where they have been for 10+ years.

Federation

- Key issue is policies for the coexistence of different capabilities, different needs
- Explore through frameworks and new monitoring tools.
- Information needed crosses traditional domains – must share what has been considered proprietary information.
- Role for simulation here and game theory

Measurement and Modelling

- Build on recent advances in active measurement
- Objective must be free-standing distributed monitors, aimed at supporting autonomous operation
- This is a critical part of making Federation feasible