

FIRE Preparatory Group Meeting

*Some
Considerations
on the Bright Future
of the
Internet*



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Go for Edges, where the Movement is

- The increased diffusion of **devices with communications/computing capabilities** is opening up the door to new unexplored possibilities & changing the nature of what we broadly call “Internet”
- Already appearing: context-aware applications, wireless sensor/actor networks, solutions based on ad hoc opportunistic communications
- User-centric, in line with other trends, Web 2.0, community-based systems etc.
- Foreseen: **pervasive computing/communication environments**
- Bottom line: the movement is at the edges

3 Possible Scenarios

- **Integration**: the “infrastructure” wins and all fringe networks get integrated. Yet another hourglass model
- **Coexistence**: infrastructure-based advanced services coexisting with other kind of networks, acting as clouds and working at the edge of the infrastructure
- **Takeover**: services generated in the fringe networks become the “standard”, infrastructure used just to provide “shortcuts” among far away clouds

Back to FIRE

Claim 1: clouds will drive what will happen in the core

Claim 2: need to experiments with users, not just with engineers

Open issues:

How to integrate it into large-scale testbeds & experimental activities?