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FIRE Research as a driver for the FIRE facilities

Socio-economic aspects and
their need for a facility

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The epidemic deployment model

- **The Internet**
- **Web and later, web 2.0 (blogs, wikis, etc.)**
- **WiFi & later the FON community**
- **Wikipedia**
- **Social software (Orkut, FaceBook, etc.)**



Users drive research on the future Internet

- **Content fuels the Internet evolution**
- **Explosion of mobile applications**
- **Any content gets online very quickly**
 - YouTube, Twitter
- **People spend hours a day on their social networks**
 - Exchanging pictures, video, links, ideas, etc.
 - Changing privacy rules and perception
- **A lot of content**
 - Dynamic, volatile, interactive, interfering



Research drives platform deployment

- **MobiClique (HAGGLE project)**
 - A mobile social application that leverages user's social network in its real life interaction
 - All phones become a node in the platform
 - Huge application opportunities depending on what data is transferred (disaster recovery, health, etc.)
- **P2P content dissemination (NaDa project)**
 - Store content in home networks and access content where it has been created
 - All homes and gateways become a platform node
 - It is green (et c'est pas une grenouille)



Where research and platform rejoin !

- **Platform with no application scenario fail!**
- **Seeking for socio-economical impact requires**
 - Usage motivates research and platforms
 - Experimentation, sometimes at large scale
 - Cooperative project seed
 - Autonomic architecture
 - Epidemic deployment model



Next grand challenge

- **The crowd beats the cloud!**
 - All devices serve content!
- **Wireless, wired, and mobile**
 - A web page or a blog can be stored on a cell phone
 - Social information supports propagation
- **Manage and access huge amounts and diversity of content worldwide**
 - Totally distributed
 - Very volatile
 - Serve numerous application
 - Information has to be fused



From the cloud ... to the crowd



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BACK-UP



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