



Cloud Research Break-out B

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Cloud Research wish list

Recommendation for WP	Why is this a priority (Challenges or gaps)	What technological innovation is needed	Impact on market	Main beneficiary
1. Trust	Enable increasing cloud adoption	Tradeoffs between security and privacy/perf (client/host). Real-time threat analysis and presentation, accountability, dynamic/usable certification, data IPR	Market growth and jobs.	All stakeholders
2. Disruptive Applications and usage patterns	Drive the changes beyond resource sharing services, disparate data sources and sinks (IoT, Mobile, Gaming, data science ...) getting people to interact in any ways, e.g. Social networks, social interaction	Customization, self-adaptation, responsiveness (highly), self*, application driven cloud management (sensitivity), interoperability, data gravity/mass	Enhanced enabling power. Engage new cloud consumers	All stakeholders
3. Dynamic real-time Heterogeneous clouds	Hybrid, multi, federated, portability of data and applications	Dedicated design patterns, programming models, Performance, management, benchmarking/metrics, [policies, economics and legal ramifications]	More choice, better competition, clear gain for small players	SMEs, public administrations

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4. Cloud Operations	Providing large scale cloud is still restricted to small no. players	Datacentre relevant customization, self-adaptation, (highly), self*, automation, equipment interoperability, monitoring, energy efficiency, responsibility	Simplifying provision of cloud services, multiple layers from the same provider	Consumers[users of cloud] through more choice, providers{simplification and cost reduction of operation}, private cloud more similar to public cloud enabling easier transition
5- Business models	Engage new users	Not only technology but models and processes to apply new apps and deliver new services	Engage new cloud consumers (EU + local)	European citizens