

**POSITION PAPER FOR
TOWARD A FUTURE INTERNET PUBLIC PRIVATE PARTNERSHIP
2ND USAGE AREA WORKSHOP**

- 1. What use case and scenario in your area would you consider the most appropriate and representative one for large-scale experimentation with the Future Internet platform to be built starting from 2013?**

The main challenge which we see in respect of the Future Internet is the ability to propagate advanced functionality across multiple network domains, organised and managed by independent entities.

The current internet is very effective at propagating connectivity across multiple domains; it is notably weak in terms of its ability to guarantee performance, monitor performance and manage identity in other than single domains.

In the GÉANT project today, we are already piloting the management of bandwidth and performance monitoring across multiple domains. We plan to couple this with a distributed identity management capability, with the aim of aligning “user-management” of dedicated resources across multiple management domains. We think this is the most representative use case scenario that would be appropriate for large-scale presentation.

- 2. What innovative Internet functionality and technologies would you consider important for your suggested use case and scenario (e.g. context awareness, sensor networks, advanced real time processing capabilities handling huge volume of data, ad hoc service composition and mash-up, managed broadband connectivity and services, embedded media support for interfaces easing the interpretation of processed contextual data, etc.)?**

Virtualisation (i.e. the ability to make a single homogenous network appear as if it is a set of heterogeneous networks, managed and configured by separate identities, capable of delivering very high data rates, eg 1Gbps or higher.

- 3. Which of the identified functionalities would you expect the Future Internet core technology platform to deliver to support your and other usage area scenarios?**

Standard control plane capabilities and a ubiquitous, performance monitoring environment.

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- 4. What kind of experimentation environment would you consider necessary for broad large scale testing of the platform to be developed in your use area? What would be needed to experiment new services and applications cutting across use areas (services and application mash-up) and building a new services and application ecosystem around the prototype implementations of the platform?**

Regarding this question, we consider that a dedicated, wide-area test bed, provided by a number of independently managed domains, is a vital component of an experimental environment.

- 5. How do you see the potential role of your organisation in the FI-PPP, in the context of Usage areas taking a prominent role in the Initiative, to ensure an appropriate application driven approach?**

DANTE is the Coordinating Partner of the GÉANT network, which is the advanced pan-European research and education network. Together with its national research and education network partners, we are in a position to cooperate with other network operators to provide skills, experimental experience and elements of an underlying test bed.

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DANTE