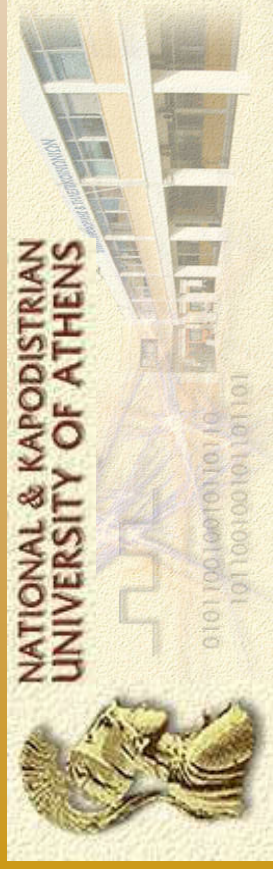


National & Kapodistrian University of Athens (N.K.U.A.)

SCAN Lab

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NKUA – SCAN in the FI PPP Usage Areas



⇒ Usage Areas of Interest

- Content Management,
- Smart Energy Grid,
- Transport, Mobility and Logistics,
- Utilities and Environment.

⇒ Views on Content Management

- Self-Described Content within an Integrated approach for content management (interfaces/resources heterogeneity, meta-data, global knowledge),
- Need for Digital Content to be advertised, traded and exchanged,
- Content owner/provider, Content Aggregator, Content User: dynamic roles (re)assignment,
- Need for open and flexible interfacing infrastructures, resources, stakeholders, and value.

⇒ Indicative Required Functionalities and Core Platform

- Unified data and Information Management featuring High autonomy and Self-x capabilities for content self-adaptation,
- Personalisation capabilities related to service and application deployment and provisioning,
- Service/Content conceptualisation, repositories secure management and aggregation; Service composition, brokering, and execution,
- Content/Service indexing, searching and discovery,
- Evolvability, extensibility, scalability...

⇒ Experimentation Environment

- Evolutionary approach building on existing infrastructures at national and European level.
- Federation of pilots and platform emerged from relevant research projects,
- Cooperation between mere testbeds coming from industry and universities.

⇒ NKUA – SCAN Role

- Technical Use cases definition for extracting both application and functional requirements,
- Driving the architectural and interface specification,
- Cohesion mechanisms and evaluation metrics for architecture/platform capabilities fine-tuning and optimization during the system lifecycle,
- Business cases viability will be also exploited,
- Test scenarios definition for both national and European experimentation.

⇒ NKUA-SCAN experimentation and pilots

- NKUA team will leverage on its involvement in the FIRE initiative
- NKUA exploits multiple software and hardware platforms for reconfigurable and cognitive systems from EU projects for experimentation and testing activities, e.g.
 - Dynamic Content adaptation,
 - Cognitive and Personalised Service Composition/Adaptation and Provision over heterogeneous telecommunication environments,
 - Location – based services platform.
- Using OCTOPUS testbed infrastructure (PANLAB member), NKUA has worked on experimenting on **Self-management schemes for techniques coverage and capacity optimization.**

