

PPP-Future Internet

Input to Use Case workshop

TNO | Knowledge for business



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Smart Energy / Grids

eHealth / Healthy Living

Smart Agriculture

Smart Content

eGovernment

Smart Mobility

Smart City / Living



Use Case: Smart Content



Use Case: Smart Content Developments

The smart content use case is driven by the exponential increase of digital content and the need to come to **seamless and personalized media consumption**. The use case takes up the following challenges:

- cost effective metadata generation
- efficient content delivery over heterogeneous networks
- many devices, with widely varying capabilities
- many traditional and new, large and small creators of content

The smart content use case exploits evolutions such as:

- Media-aware Content Delivery Networks
- Web-based content distribution and consumption
- Federation of local and regional content delivery networks
- Cross-layer and multi-actor integration of network and service layer resources
- Device integration and cross-device services over heterogeneous networks
- Content-based multimedia indexing
- Semantic Web
- Personalized and Social Media, including recommendations and social tagging



Use Case: Smart Content Trackrecord

- **RUBENS / FascinatE / Cinegrid**
 - Next-generation media delivery networks of personalized media services
 - Cross-layer integration and optimized resource sharing throughout the value chain
 - Exploiting the capabilities of future Internet
- **B@Home / ConnecTV**
 - Social TV applications based on Presence, Recommendations and Experience Sampling
 - Exploiting the integration of social networks with traditional media services
- **PetaMedia (FP7 NoE)**
 - Reputation based recommendations in social media sharing sites
 - Sentiment mining in blogs and fora.
- **TRECVID**
 - coordination role in benchmark for content based video indexing, copy detection, semantic annotation
- **Videofingerprinting**
 - Roadmap development for the use of video fingerprinting technology in digital libraries

