The UCN goal is to design a system architecture for user-centric connected media services, including the development of a prototype.

The UCN system architecture was initially conceived for an innovative TV/movie recommender, taking into account users’ contextual information, security and privacy aspects. From the initial design the UCN architecture has since been extended to support other local services such as home network diagnostics and assistant living applications.

Capabilities

- Recommendation system for movies and TV programmes, exploiting users’ contextual information (SmartTv)
- Home Network diagnostics: Identification of throughput bottlenecks in home wireless versus access link
- Assisted Living Services (SmartSense)
- Population presence estimation
- Privacy preservation

Consortium

[Logos of various partners]

A new communication paradigm that leverages in-depth user information to discover and deliver content in the most optimal conditions at any time, for a given user in a specific context.

UCN is a EU-funded FP7 project under agreement number 611001
The UCN consortium is developing a set of core components and deliver prototypes for a new generation of Internet-based applications and services. These core components include a Personal Information Hub (PIH), which contains a scalable, robust data store, a Publish-Subscribe system and audit mechanisms.

System Overview

System Architecture - Specific Instance of SmartTV

- **APP IPTV**
- **APP IPTV Mobile**
- **TV Guider**
- **Now up**

**SmartTV**

- **Recommender**
  - Live Recommendation
  - Channel Recommendation
  - Recordings Recommendations
  - Programme Recommendation
  - Search
  - Highlights

**SmartTV API**

- EPG
- Trend Programs
- User Profile

**SmartData (PIH on the cloud)**

- **Context Broker & Id Management**
- **Privacy & Security**