In a first empirical user study, the following six information and communication services have been evaluated:

1. **Weather Information Service**: A service that provides weather information.
2. **Event Recommendation Service**: A service that recommends events (e.g., theatre play, concert or movie).
3. **Ticket Order Service**: A service that allows you to order tickets for events.
4. **Personalized Music Service**: A service that plays music from a music collection.
5. **Personalized News Collage Service**: A service that provides a personalized news collage (e.g., a news collage that addresses your interests sport and politics, etc.).
6. **Adaptive News Service**: A service that provides the same news as described above but in different ways (e.g., via audio or via text and images) depending on the location of the user.

Afterwards, subjects evaluated the six services with regard to the following dimensions:
- Perceived enjoyment
- Perceived usefulness
- Perceived ease of use
- Situation-service fit
- Behaviour-service fit
- Modality-service fit
- Spatial-service fit
- Usage intention

**3 Results**

Overall, 55 subjects participated in the study in June 2011. The quantitative results are shown in Tab. 1. Overall, they indicate that the six services have been perceived significantly positive.

Suggestions for improvement that participants gave frequently are listed in the following:
- The widgets on the touchscreen are sometimes too distracting. The mirror as such should be the “main functionality” in the bathroom. Thus the content should be placed more in the periphery or should be draggable.
- The proximity sensors should better fit to the individual location of a user in front of the mirror.
- The widgets on the touchscreen should be more personalized.
- The overall response time of the Aml system should be increased.

Additional services requested by the participants are:
- Date and time service
- Social network services
- Email & calendar services
- Movie, television and radio services
- Home automation services

**2 Method**

Participants were asked to play through pre-defined situations that have been identified as being relevant by two pre-tests with over 100 test persons. One example of such a situation was:

“It’s Thursday morning. I get site-specific weather information when I am brushing my teeth in the bathroom. Based on weather information and my calendar, free-time event suggestions are given (e.g., Today, 8 p.m. – Sneak preview at CinemaOne). Do you want to order tickets?”

![Spatial placement of the six information and communication services](image-url)