

I'CityForAll

Age Sensitive ICT Systems for Intelligible City For All



The project I'CityForAll aims at **enhancing the sense of safety** and **self-confidence of presbycousic persons** whose hearing degradation increases with age. For elderly persons, this is impacting on the **intelligibility of vocal messages** and their **perception** of the distance-direction of alarm sounds and of their alarming power.

The project consortium focuses on finding ICT solutions for 2 situations:

1. Mobility in public confined spaces

Smart loudspeakers for better intelligibility of vocal messages in terms of listening effort and sound quality.

2. Mobility in the urban spaces

System embedded in vehicles for better localization of alarm sounds (e.g. ambulances, police cars) and an appropriate enhancement of car signal alarms (e.g. safety belt warning, lane change warning).

I'City4All Products: SIM^{ForAll}₁ | SpeechConformer₁ | AGC^{ForAll}_{1,2} | AlarmSniffer₂

These products were designed following “for All” concept. As result, presbycusic persons will be able to perceive sounds clearly without affecting sound quality for normal hearing people.

I'CityForAll Partners

UPD (France), ENEA (Italy), TUM (Germany),
CRF (Italy), CENTICH (France),
ACTIVE AUDIO (France), EPFL (Switzerland)

Subcontractors

LinkLab -TELNET (Tunisia), ESCOOP (Italy)
U2S-ENIT (Tunisia)

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