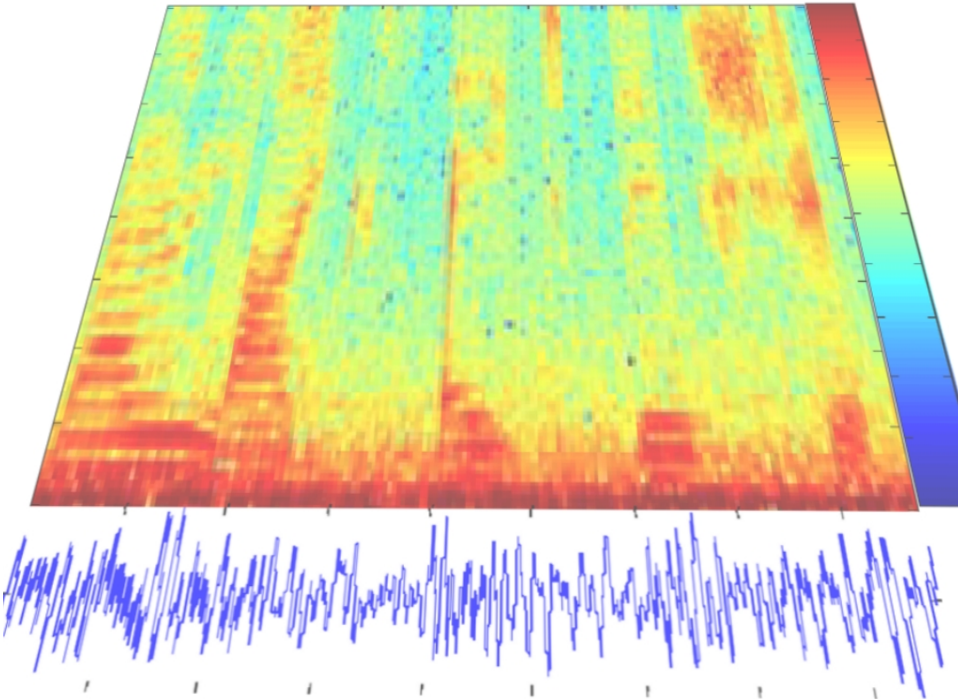


ACQIA



**Acoustic Computing
49ml Applications**

**Hearing and Listening
remote environments for
provide information services**

*“State of the Art, Opportunities and
Challenges of Acoustic Computing
for Artificial and Ambient
Intelligence Applications and
Information Society services”*

**The Future Internet
Public-Private-Partnership:**

**When smart technologies
connect people.**

Open constituency building event

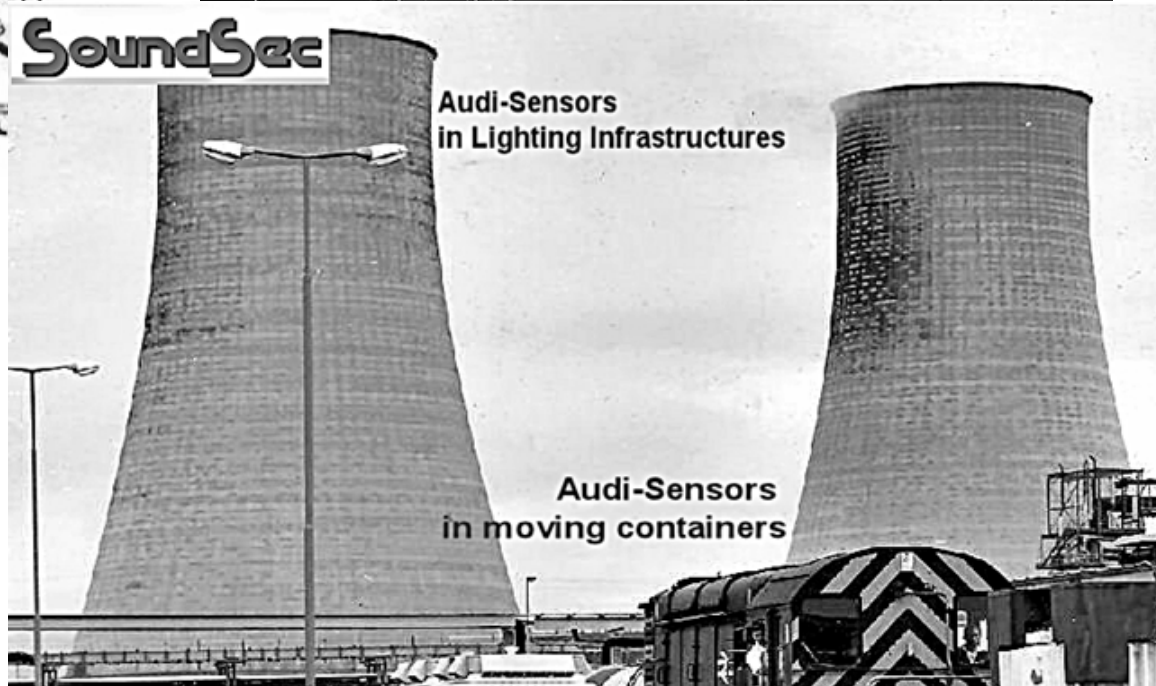
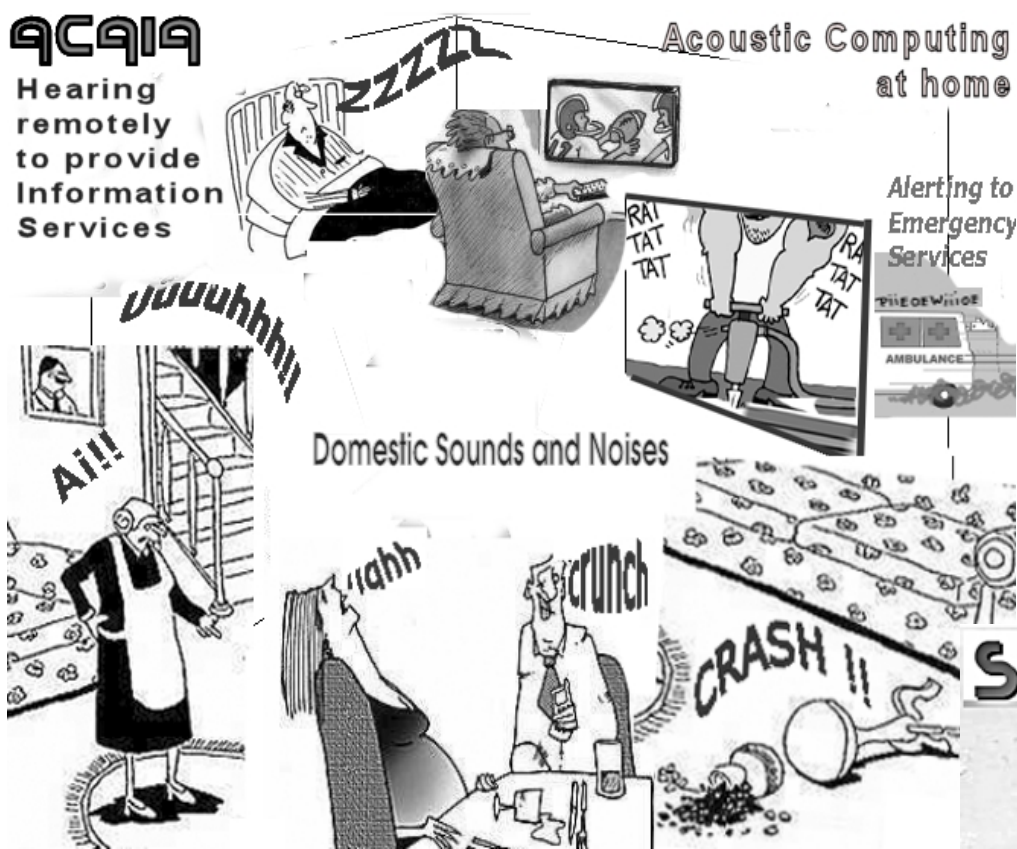
12 March 2010 –Acropolis,Nice

Background

Although, much is known regarding the design of context-aware assisted systems using video, voice, temperature sensing, gas detection, etc. **In the XXI century**, and given the importance that humans give to both normal and rare sounds in their living/working open/close environments, **it is incredible to notice that information coming from acoustic signals is often underused in modern ICT to provide reliable and useful information services.** Internal and external sounds and noises are contributing to the nature environment for affecting human behaviour, the cultural, spiritual and psychological states and supporting activity. The hearing is one of our faculties by which stimuli from outside or inside the body are received and felt, as the faculties of sight, smell, touch, taste, and equilibrium.

Sounds as an omnipresent information source can provide human and robotics an efficient and rich situation and location awareness including attention-switching mechanisms compared to other human senses, hearing and listening behaviours.





For instance, when we hear a loud noise coming from another part of the house we often infer we some accuracy what has or is happening in that room even without having direct visual inspection of the room is a new information and communication technology to collect and merge available data, contents, applications, devices and nets in new integrated applications and services to the society.

Three basic questions of Sounds4EeB to answer:

1.- Is it necessary to light all the car-parks and accesses and heating halls if there isn't anybody?

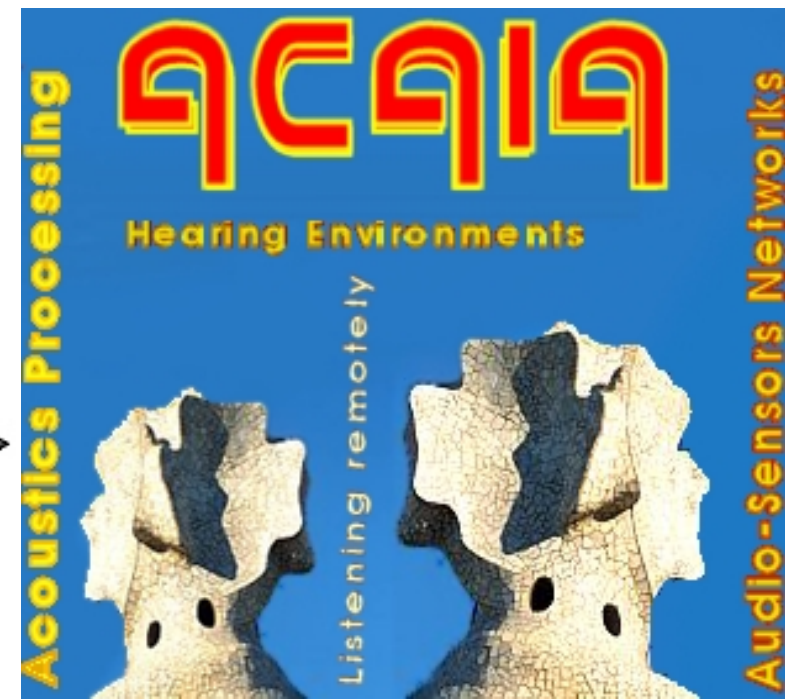
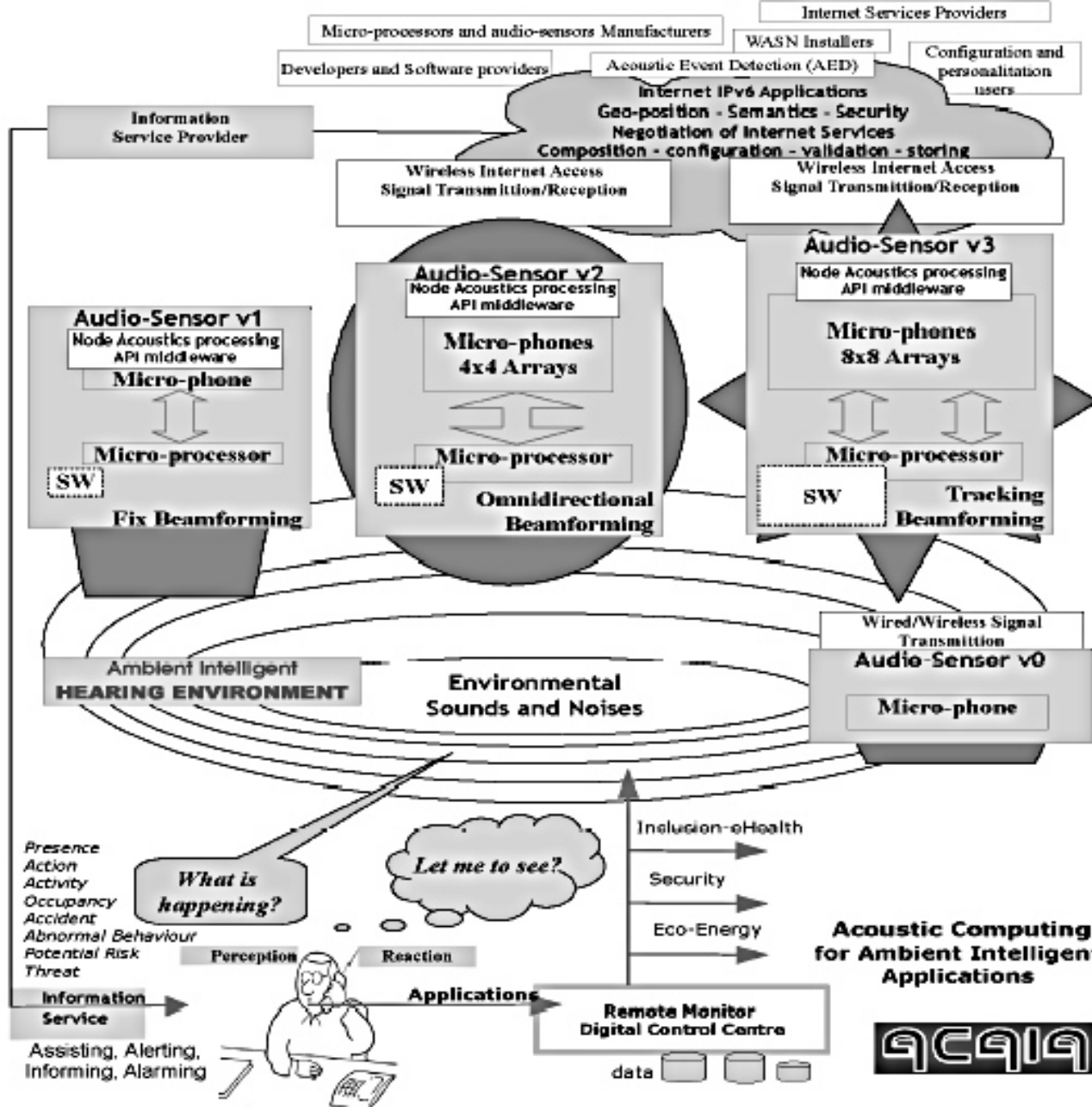


Sounds4EeB



2.- Are the available scientific knowledge and technology products sufficient to save energy consumption in a modern airport?

3.- Is the investment in ICT to reduce energy socio-economically and ecologically profitable for the construction sector and the society?



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Acoustic Computing for Ambient Intelligent Applications



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*Audition, the natural hearing sense,
 Acoustic computing from the environmental sounds and noises
 to application in smart environments to provide reliable information services
 for assisting. for monitoring. for alerting. for alarming*