

#### REACH112

**REsponding to All Citizens needing Help** 

An introduction and some details on the emergency access pilots

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# Agenda

- Accessibility of 112 in Europe
- REACH112
- Pilot countries
- Project partners
- Deployment
- Devices
- Description of the pilots
- Challenges



#### **Accessibility of 112**

- 70 million citizens with hearing impairment in Europe
- According to the EC, 112 accessible only in 7 countries
- Various trials in the EU countries have revealed that:
  - ✓ Fax is a slow procedure that requires pre-registration of users
  - ✓ SMS is widely used but less effective in an emergency due to unforeseeable time transmission
  - ✓ Specific proprietary chat services implemented at local level will not spread all over Europe.
- The experts unanimously agree these are not viable on the long run.



# **REACH112** background

 European Parliament Resolution on Sign Language 1998 (B4-0985-98)

Asks to: "ensure compatibility of telecommunications text and videophone equipment for deaf people across Europe."

2. INCOM report to COCOM 2004 (COCOM 04-08)

Reports need for urgent actions to improve access to communication for people with disabilities.

Puts highest priority on real time communication and emergency service access for deaf, deafblind hard-of-hearing and speech impaired people.

Fragmentation and low functionality observed.

Recommends to use the Total Conversation standards in IP networks to acheive good functionality and interoperability. SIP with RFC 4103 for text.



#### **REACH112 Contract**

Project Acronym: REACH112

Project Reference: CIP-ICT-PSP-238940

Contract Type: CIP Pilot Action B

Start Date: 01/07/2009

Duration: 36 months

End Date: 30/06/2012

Project Cost: 8,800,000 €

Project Funding: 4,4000,000 €

Project website: <u>www.reach112.eu</u>

PROJECT CO-FUNDED BY THE EUROPEAN COMMISSION

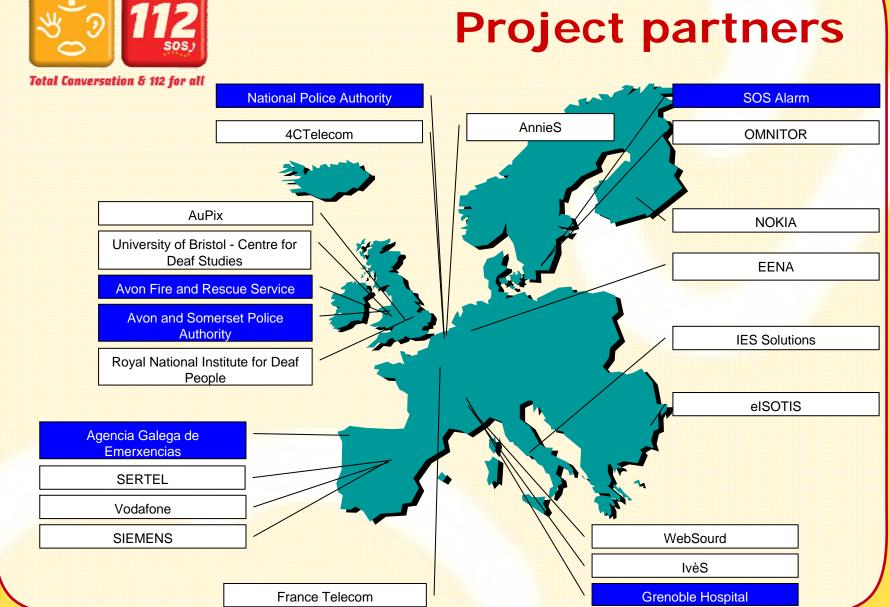


#### **Pilot Countries**

5 pilots countries6 Emergency Services









#### **REACH112** rationale

- 1. REACH112 will implement an accessible alternative to traditional voice telephony that will be suitable for all.
- 2. While people with disabilities find it hard to communicate with the existing solutions, REACH112 will provide modes of communication so that they will find a way to communicate in each situation, may it be with a live real-time text conversation, with sign language, with lip reading, with voice or with any simultaneous combination of these modes described by the concept of Total Conversation.
- 3. The service will be of benefit for all.



# **Objectives**

- 1. Improve person to person communication
- 2. Improve accessibility of 112
  - IP devices to be used by citizens
  - Total Conversation: simultaneous voice, real-time text and video (for sign language for instance)
  - Use of relay services (e.g. sign language to voice)
  - 12-month with real emergency calls (if any)



# **Implementation**

- REACH112 will implement a 12-month pilot in Sweden, UK, The Netherlands, France and Spain allowing disabled users to communicate at a distance with each other and directly with the emergency services
- 2. IP devices will be provided in the homes, workplaces and on the move, connecting the users simultaneously in video, voice and text.
- 3. The service will be integrated with existing TC platforms and emergency service frameworks.
- 4. Additionally, a protocol for the exchange of information between emergency services will be made available.



# The s

- PC/Laptops
- Videophones
- Textphones i.e. telephone with a screen and a keyboard, designed for people with hearing problems.
- Mobiles 3G video phones
- Mobile text phones
- Smartphones
- Total conversation phones







#### **Devices**



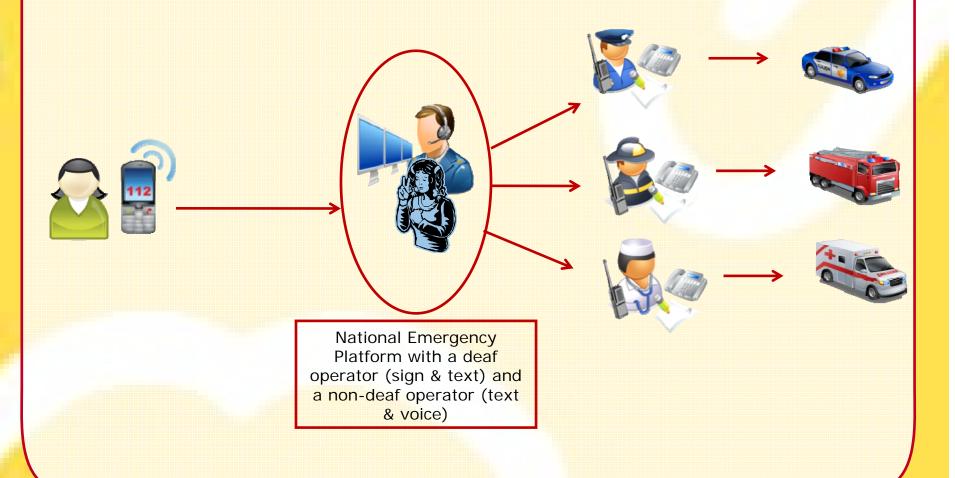






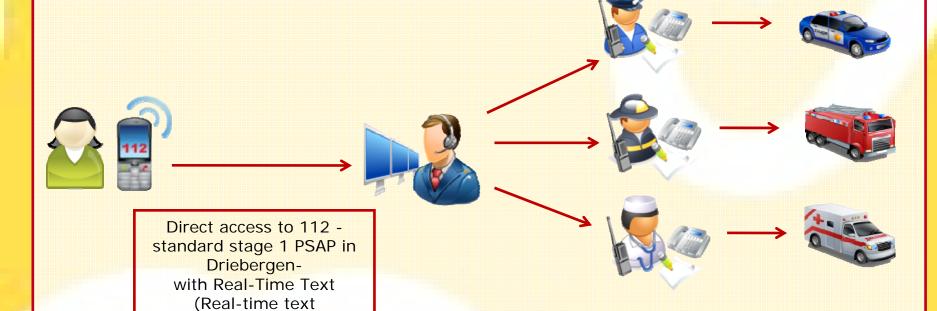


#### **Pilots: France**





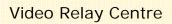
#### **Pilots: the Netherlands**

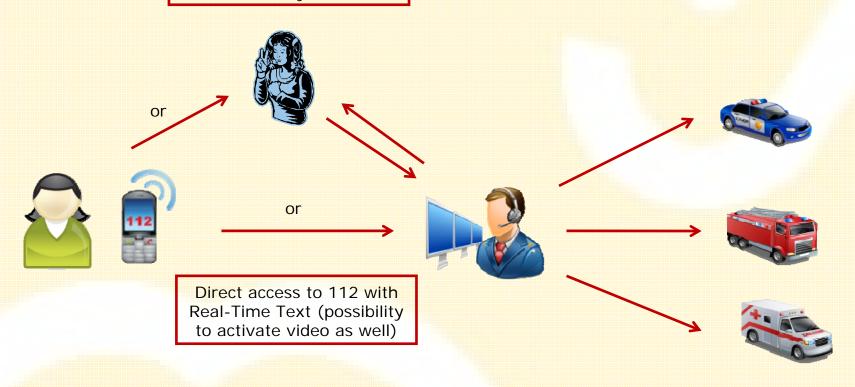


discussions ultimately continues with local PSAPs)



# Pilots: Galicia, Spain

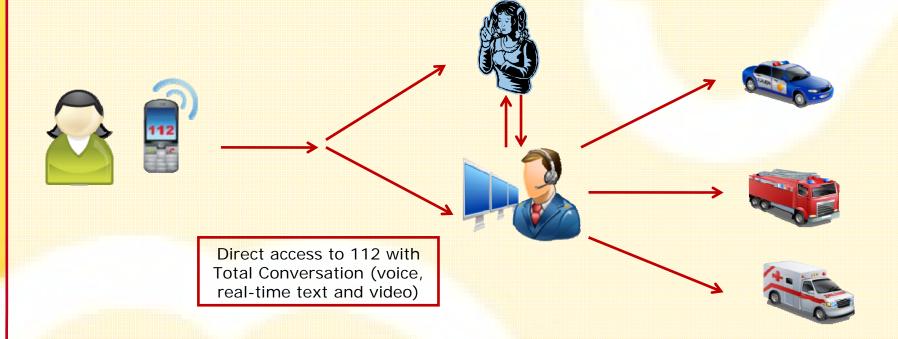


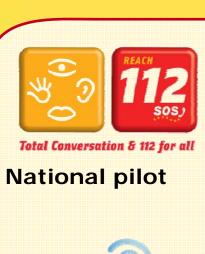




#### **Pilots: Sweden**

Video Relay Centre activated at the same time





Relay Centre: sign language/text to Voice

#### Local pilot



Local emergency center (fire, EMS or Police) with sign language operator using video, text and voice

# **Pilots: UK**













#### Challenges for emergency services

- Adaptation of emergency services to new media: video and real-time text
- Routing the emergency call to the right PSAP
- Getting caller-location information



#### Challenges for industries

- Full interoperability of services and standards
- Routing of the emergency calls and relay with third parties
- Getting caller-location information
- Make it a service valuable for all



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