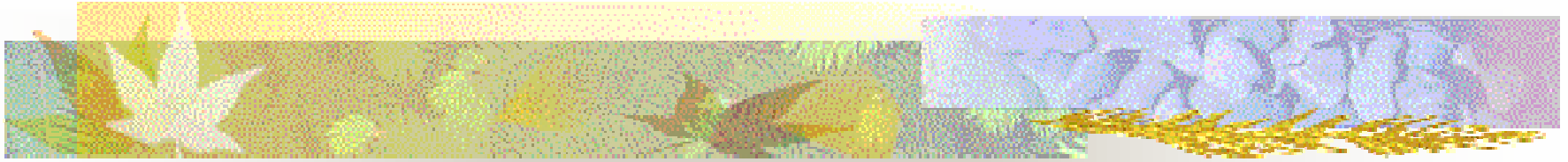
Information Society for All

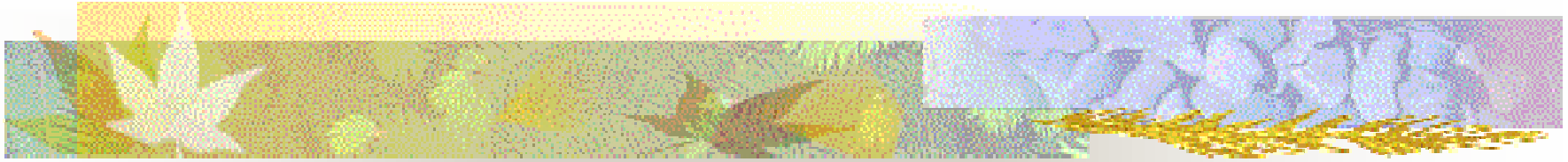


Thematic Network (Working Group)

IST-1999-14101

The support of the European Commission is acknowledged for funding the project work.

Overview



- What it is
- Background
- Aims and objectives
- Working Group members & structure

What it is ...

- A three-year IST-funded Thematic Network (Working Group) establishing a wide, interdisciplinary and closely collaborating network of experts to provide the European Health Telematics industry with a comprehensive code of practice on how to appropriate the benefits of universal design.

Background

- EU-funded RTD work
  - RACE-IPSNI, TIDE-GUIB, TIDE-ACCESS, ACTS-AVANTI, W3C-WAI
- ERCIM Working Group
  - “User Interfaces for All” (UI4ALL)
- International Scientific Forum (ISF)
  - Three workshops, two White Papers
- International collaboration

Aims and objectives

- Four main objectives:
  - **Consolidating** existing knowledge on Universal Access in the context of IST into a comprehensive code of design practice.
  - **Translating** the consolidated wisdom to concrete recommendations for Healthcare Telematics.
  - **Demonstrating** the validity and applicability of the recommendations (concrete scenarios)
  - **Promoting** the Universal Access principles and practice in Healthcare Telematics

Working Group members

Coordinator

- ICS-FORTH (GR)

Members

- EHTEL (B)
- MS-HUGe (B)
- CNR-IROE (I)
- GMD (DE)
- INRIA (F)
- FhG-IAO (DE)

Universal Access

- Access by any (authorized) user to digital content and information from anywhere and at anytime

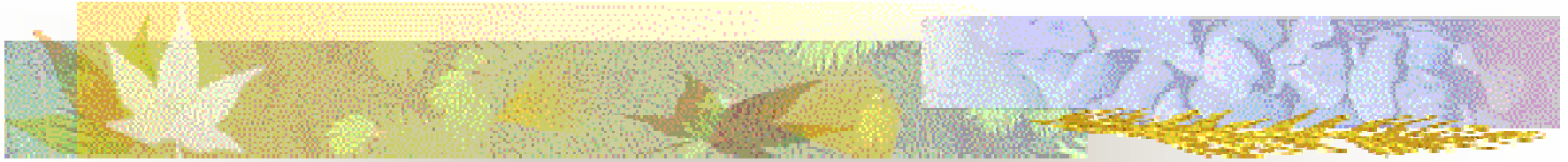
Universal design myths

- It is politics!
- It is good only for a few!
- One size cannot fit all!
- It is expensive!
- It is NOT cost-effective!
- It is a utopia!

Our view

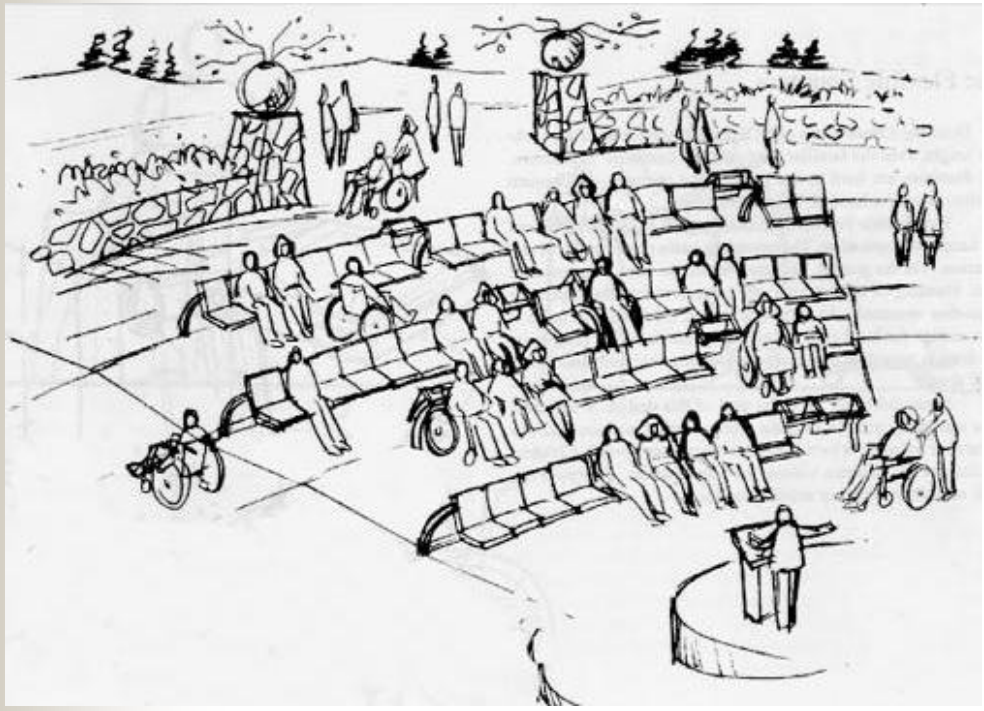
- Universal design is
  - practicing good design principles
  - an indication of how bad we design today
  - a call against *minimum-time-to-market*
- Universal design is a challenge rather than a utopia
  - we need to learn how to do it
  - we need appropriate methods and tools

Technical work



- The IS4ALL approach

The concept



It is possible to design most manufactured items and building elements to be usable by a broader range of human beings, including children, elderly people, people with disabilities, and people of different anthropometric measures.

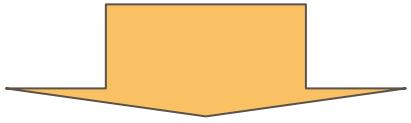
Project focus

- Universal access as a quality attribute with functional and non-functional implications
- IS4ALL seeks to investigate:
  - content organisation and management
  - user interface development
  - the processes involved

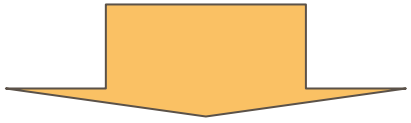
Project phases

Develop Universal Access code of practice

Articulate guidelines for how to use universal access in Healthcare Telematics

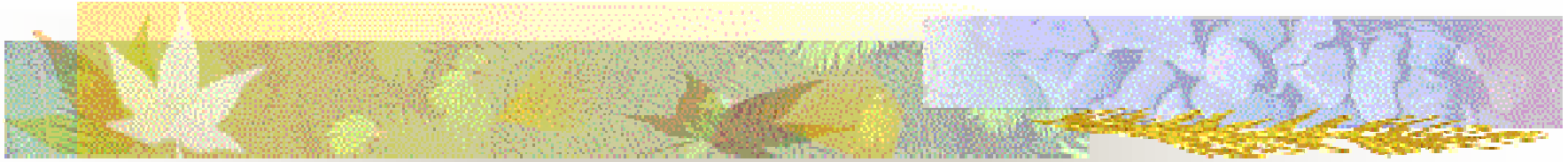


Apply universal access principles in specific scenarios



Promote universal access principles into vendor requirements

Expected outcomes



- Milestones
- Universal access code of practice
- Results specific to Healthcare Telematics

Project milestones

- Definition of an appropriate set of instruments for data collection
- Best practice code for Universal Access
- Scenarios to demonstrate the validity and applicability of such a code of practice
- Code for Healthcare Telematics practice
- Development of validation strategy
- Outreach

Universal access code of practice

- Process guidance
  - High level principles which extend ISO 13407
- Techniques
  - Universal access filters
    (for argumentative requirements engineering)
  - Unified design method
    (for interaction design)
  - Questionnaire
    (for evaluating tentative designs)
- Examples & case studies

Healthcare-specific results

- A process model detailing how universal access can be accounted for in Healthcare Telematics
- Prototypical implementations of Healthcare-specific artifacts (electronic healthcare records) & recommendations
- Universal access filters in Healthcare Telematics
- Design rationale and examples