



# Information Society for All



Thematic Network (Working Group)  
IST-1999-14101



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






# Plan

## Part I: Background








-  RTD projects
-  International Scientific Forum

## Part II: IS4ALL overview

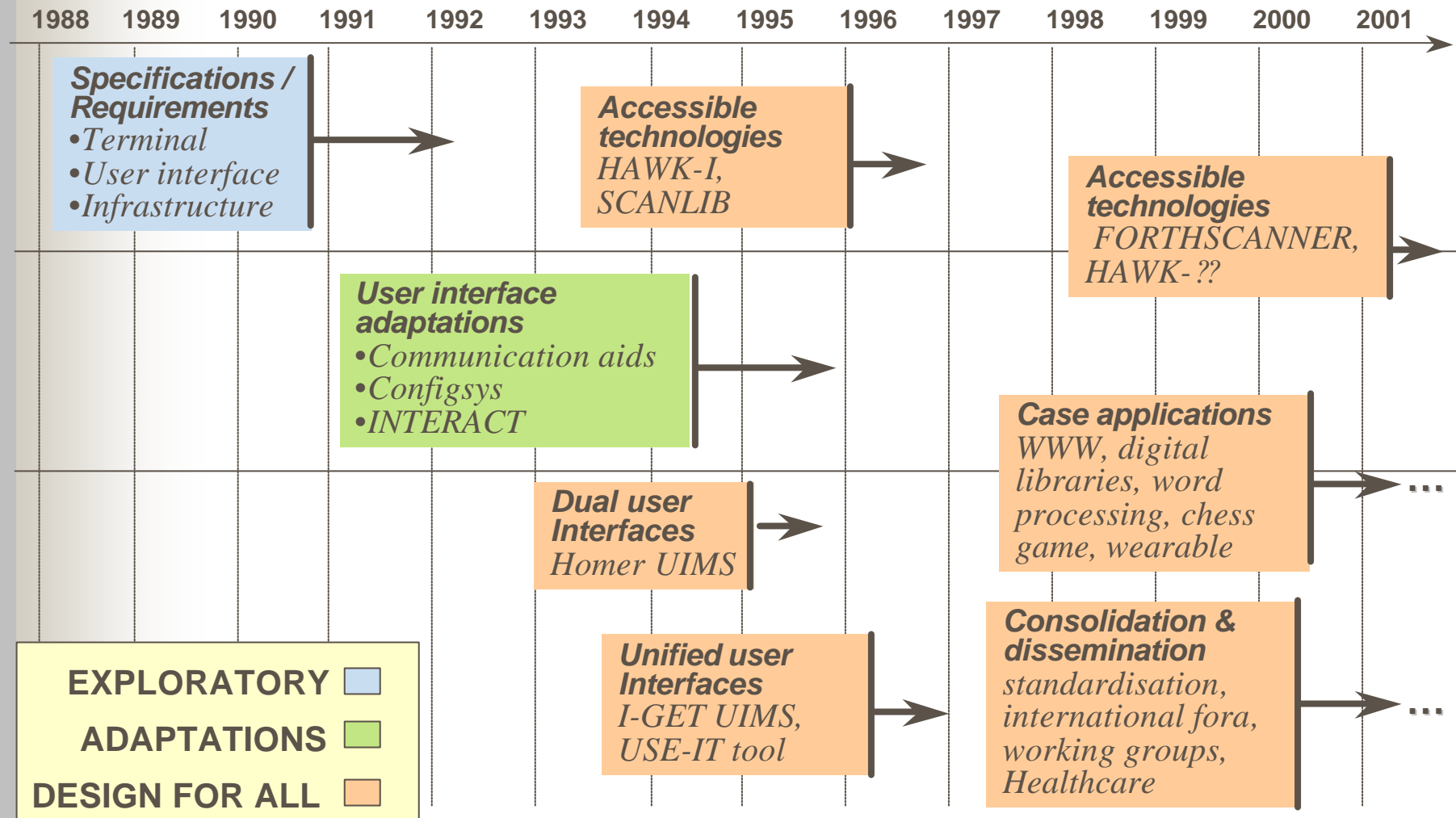
-  Aims, objectives and technical approach
-  Worlplan and structure
-  Expected outcomes

## Part III: Concluding remarks

# 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

# Universal access - The past decade



# RTD efforts & key results

## Novel interaction technologies

### Non-visual interaction

 COMONKIT (1995)

 HAWK (1995, 1999)

### Augmentated Windows

 SCANLIB (1995-1997)

 FORTHScan (1999-2001)

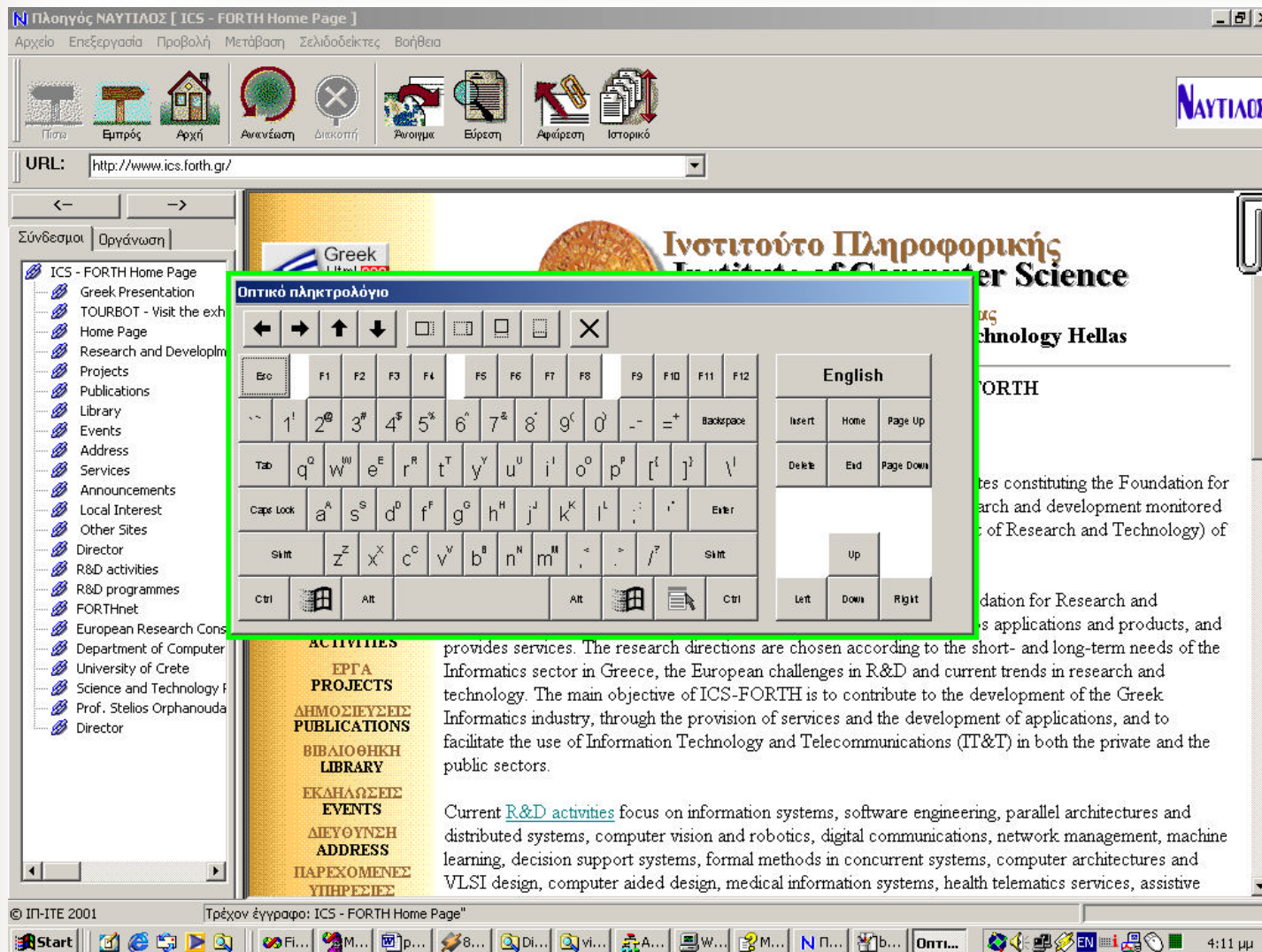
## Tools for unified user interface development

 PIM, G-DISPEC, USE-IT, I-GET

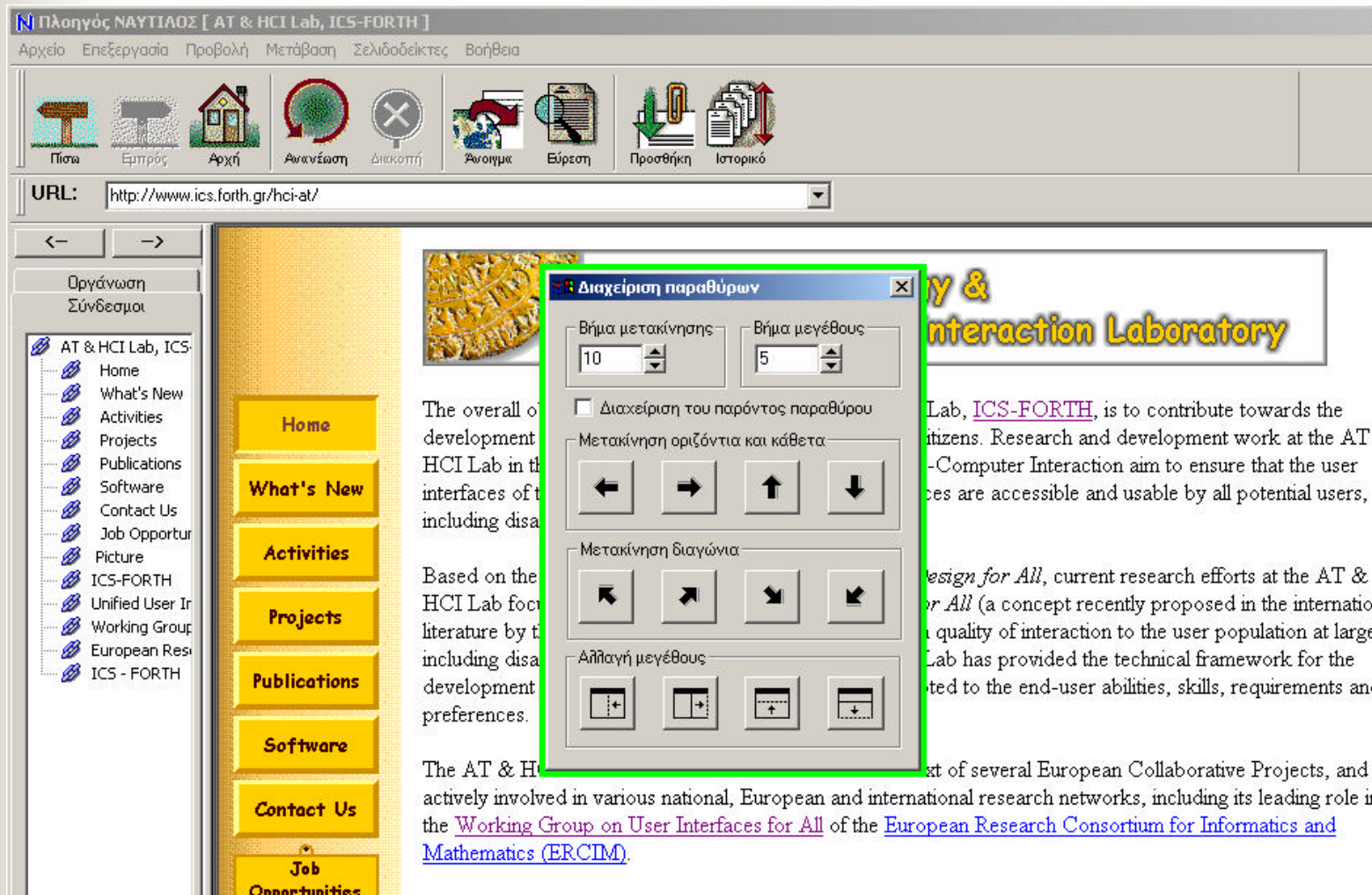
## Application in Web browsing

 AVANTI, NAYTILOS

# NAYTILOS Web Browser (2001)



# NAYTILOS Web Browser (Cont.)



The screenshot displays the NAYTILOS Web Browser interface. The title bar reads "Πλοηγός NAYTIAOΣ [ AT & HCI Lab, ICS-FORTH ]". The menu bar includes "Αρχείο", "Επεξεργασία", "Προβολή", "Μετάβαση", "Σελιδοδείκτες", and "Βοήθεια". The toolbar contains icons for "Πίσω", "Εμπρός", "Αρχή", "Ανανέωση", "Διακοπή", "Άνοιγμα", "Εύρεση", "Προσθήκη", and "Ιστορικό". The address bar shows the URL "http://www.ics.forth.gr/hci-at/".

The main content area displays a website with a sidebar on the left containing a tree view of links: "AT & HCI Lab, ICS-FORTH", "Home", "What's New", "Activities", "Projects", "Publications", "Software", "Contact Us", "Job Opportunities", "Picture", "ICS-FORTH", "Unified User Interface", "Working Group", "European Research Consortium", and "ICS - FORTH". The main content area features a large yellow button labeled "Home" and a list of other links: "What's New", "Activities", "Projects", "Publications", "Software", "Contact Us", and "Job Opportunities".

A dialog box titled "Διαχείριση παραθύρων" (Window Management) is overlaid on the main content area. It contains the following controls:

- Buttons for "Βήμα μετακίνησης" (Move step) and "Βήμα μεγέθους" (Size step), both set to 10 and 5 respectively.
- A checkbox labeled "Διαχείριση του παρόντος παραθύρου" (Manage the current window).
- Buttons for "Μετακίνηση οριζόντια και κάθετα" (Horizontal and vertical movement): left, right, up, and down arrows.
- Buttons for "Μετακίνηση διαγώνια" (Diagonal movement): four diagonal arrows.
- Buttons for "Αλλαγή μεγέθους" (Change size): four corner handles.

The background text on the website includes the following paragraphs:

The overall development of the AT & HCI Lab in the interfaces of the AT & HCI Lab, including disabilities.

Based on the AT & HCI Lab focus on the development of the AT & HCI Lab, including disabilities, development preferences.

The AT & HCI Lab is the result of several European Collaborative Projects, and it is actively involved in various national, European and international research networks, including its leading role in the [Working Group on User Interfaces for All](#) of the [European Research Consortium for Informatics and Mathematics \(ERCIM\)](#).

The AT & HCI Lab, [ICS-FORTH](#), is to contribute towards the citizens. Research and development work at the AT & HCI Lab, ICS-FORTH, aim to ensure that the user interfaces are accessible and usable by all potential users, including disabilities.

Design for All, current research efforts at the AT & HCI Lab, ICS-FORTH, (a concept recently proposed in the international community) aim to ensure a quality of interaction to the user population at large, including disabilities. The AT & HCI Lab has provided the technical framework for the development of the end-user abilities, skills, requirements and preferences.

# International Scientific Forum


- ✍ Ad-hoc group of experts
- ✍ Three meetings
  - ✍ San Francisco, USA, 1997 (1st meeting)
  - ✍ Crete, Greece, 1998 (2nd meeting)
  - ✍ Munich, Germany, 1999 (3rd meeting)
- ✍ Two white papers
  - ✍ Common **vocabulary**
  - ✍ **Research agenda**
  - ✍ Contribution to the EC IST Programme (**CPAs**)
- ✍ Foundation for IS4ALL

# The International Scientific Forum

## An international network for



-  discussion
-  exchange of experience & practice
-  collaboration

## Overall objective



-  promote the establishment of a favourable environment for the creation of an Information Society acceptable to all citizens

# 1st meeting

## Objectives


-  assess the state of the art & stimulate developments
-  advance the existing wisdom towards universal access in the emerging Information Society

## Outcomes




-  R&D agenda (identifying short, medium and long term targets)
-  White Paper (published in the IJHCI, 10 (2), 1998, 107-134)

# 2nd Meeting

## Objectives




-  Review and consolidate the outcome of the previous meeting (cf. White paper), focusing on four thematic topics, namely *HCI design*, *Usability*, *User interface software technologies* & *Standardisation*

## Outcomes




-  Evolving R&D agenda,
-  White paper (published in the IJHCI, 11 (1), 1-28)
-  Deliverable to EC

# 3rd meeting

## Objective





-  Widen the scope of applicability of universal access principles into emerging technologies and application domains
  -  Digital Libraries
  -  Health Care Telematics

## Outcome

-  Deliverable to EC
-  Contribution to the EC 5 FP (Cross Programme Actions)
-  Working Group

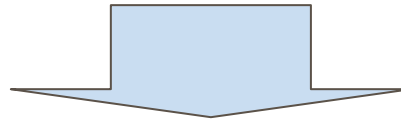
# IS4ALL - Aims and objectives

 Four main objectives:

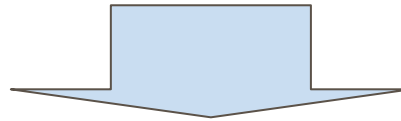
-  **Consolidating** existing knowledge on Universal Access in the context of IST into a comprehensive code of design practice.
-  **Translating** the consolidated wisdom to concrete recommendations for Healthcare Telematics.
-  **Demonstrating** the validity and applicability of the recommendations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

# Project phases

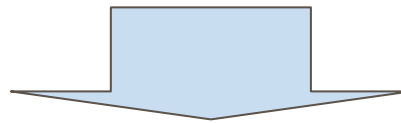
**Develop** Universal Access code of practice



**Articulate** guidelines for how to use universal access in  
Healthcare Telematics

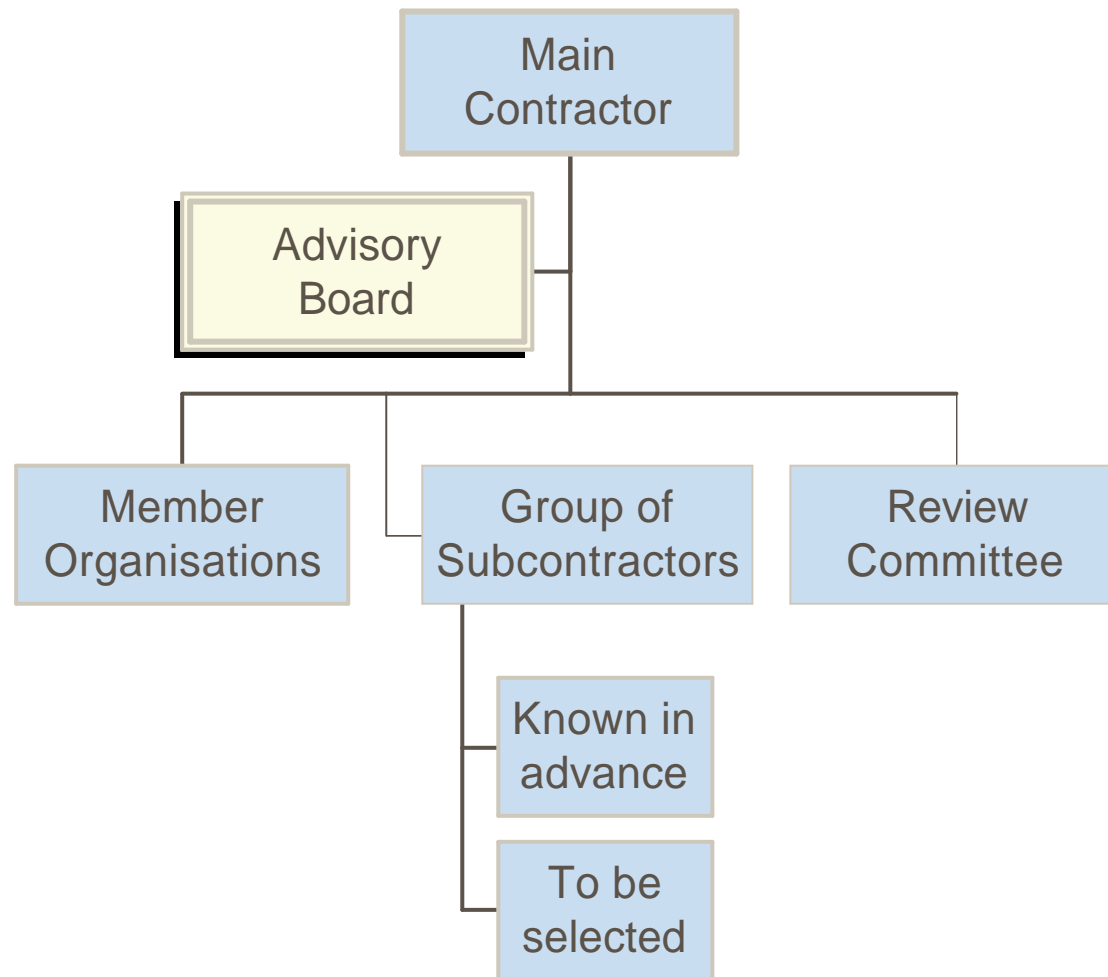


**Apply** universal access principles in specific scenarios



**Promote** universal access principles into vendor  
requirements

# Working Group Structure



# Working Group members

 UA access and HCI

 ICS-FORTH

 CNR-IROE

 GMD

 INRIA

 FhG-IAO

 From Healthcare  
Telematics

 EHTEL Consortium




 MS-HUGe

# Subcontractors

## Organisations

-  SERCO, UK
-  UCL, Belgium
-  UniKENT, UK
-  UniLINZ, Austria
-  DFKI, Germany
-  MA Systems & Control
-  STO, Germany

## Individuals

-  Prof. Salvendy,  
Purdue University, USA
-  Prof. Costabile,  
University of Bary, Italy
-  S. Haataja,  
Nokia, Finland

## Reviewers & others

# State of the art

- ✍ IS4ALL is now under way
  - ✍ The project is 10 months old
  - ✍ Web site <http://is4all.ics.forth.gr>
  - ✍ Poster and leaflet
  - ✍ 1st Seminar scheduled for November 19, 2001 during the EHTEL Conference
- ✍ First review scheduled for October, 2001

# Objectives of the focus group

- ✍ Raise awareness about
  - ✍ aims and objectives of the project
  - ✍ its distinctive focus and technical approach
  - ✍ its novel attributes
  - ✍ its potential impact
- ✍ Create a community of potential collaborators
- ✍ Facilitate bilateral interactions and exchange of opinion
- ✍ Feed the data collection activity of IS4ALL