

# The Isabel Application

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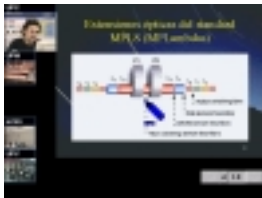


# ISABEL



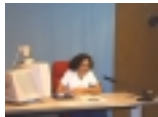
## ◆ Advanced multiconferencing system

- ▶ Developed at UPM since 1993 (RACE/ACTS/IST)
  - <http://isabel.dit.upm.es>
- ▶ Commercialised by Agora Systems
  - <http://agoratechnologies.com>

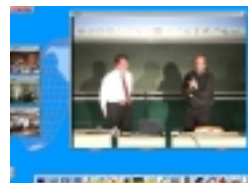


## ◆ To interconnect audiences or groups

- ▶ With a **large number of endpoints/users**
  - Effective multiconferences with up to 20 sites
- ▶ Over the Internet



## ◆ New service concept



# ISABEL Usage & Events

- ◆ RACE Summer Schools on ABC (93, 94, 95, 96)
  - ▶ ABC'93: 2 sites (Spain-Portugal)
  - ▶ ABC'94: 5 sites (Spain, Portugal, Switzerland)
  - ▶ ABC'95: 11 sites (Europe)
  - ▶ ABC'96: 20 sites (Europe & Canada)
- ◆ Distributed Congress (97-00):
  - ▶ Global 360s, Telecom I+D, Internet NG workshops,
- ◆ Industrial usage:
  - ▶ Initialy: Telemeeting/work service for Ericsson
    - Between Madrid, Aachen, Alsjo & Kista
  - ▶ Others: Vodafone, Telefonica, Portugal Telecom, .....
- ◆ Distributed courses (97-00):
  - ▶ PhD & graduate courses performed
    - Between Madrid, Barcelona, Valencia, Murcia, ...
- ◆ ***Madrid Global IPv6 Summit 2002***
  - ▶ First congress ***distributed over IPv6*** with ISABEL

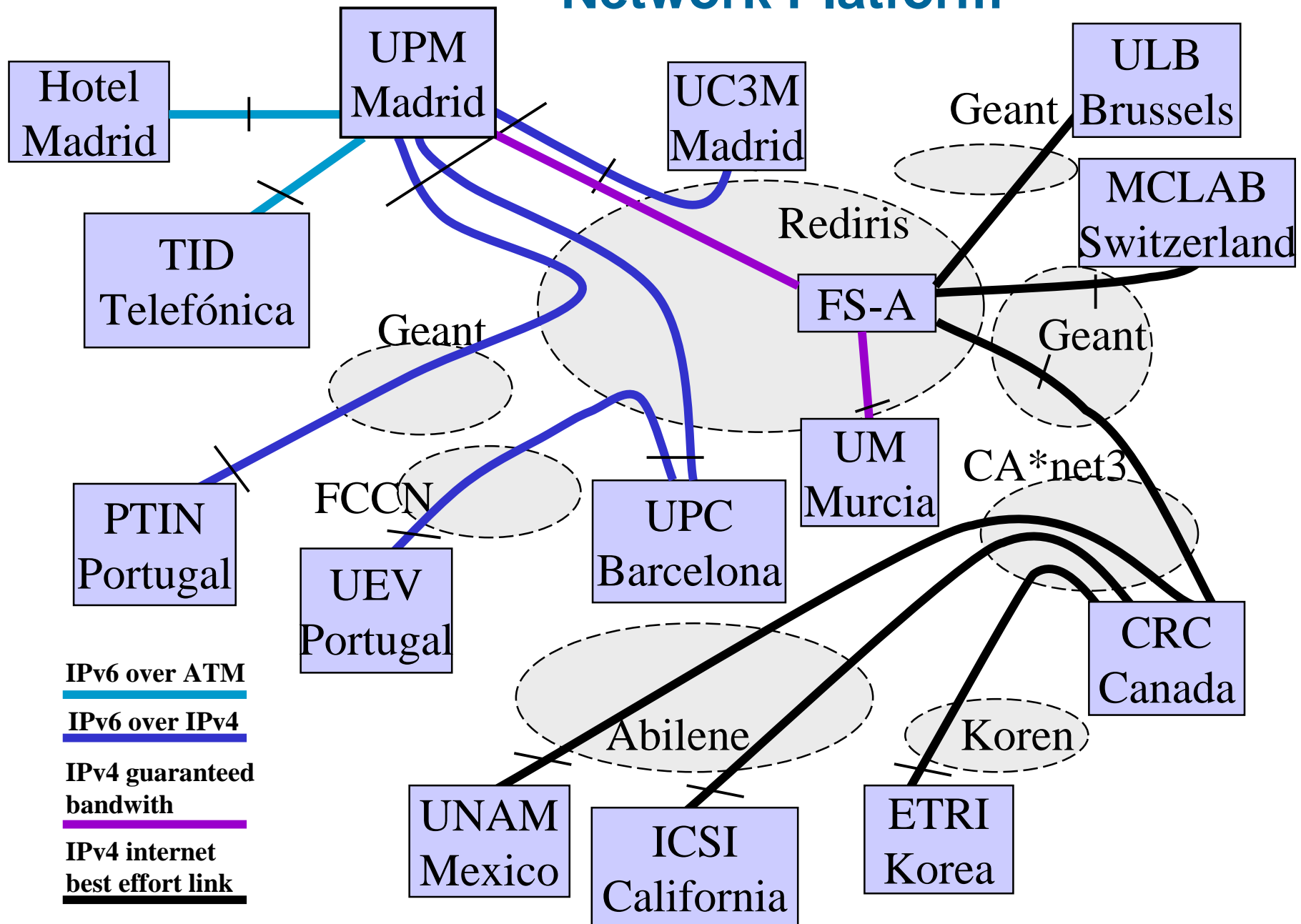
# LONG: Participants

- ◆ Portugal Telecom Innovacao
  - ▶ Vasco Lagarto, Francisco Fontes, Jacinto Vieira, T. Barata, F. Morgado
- ◆ TELEFONICA I+D
  - ▶ Pedro Lizcano, Carlos Ralli, Ruth Vazquez, Sheila Escribano, Cristina Peña
- ◆ Universidad Carlos III de Madrid
  - ▶ Arturo Azcorra, Alberto García, Carlos Manuel Pérez, Juan Ramón Hernández
- ◆ Universidad de Evora
  - ▶ Joaquin Godinho, Miguel Ramos, Mario Filipe
- ◆ Universidad Politécnica de Barcelona
  - ▶ Jordi Domingo-Pascual, Josep Sole, Josep Manges, Albert Cabellos, René Serral
- ◆ Universidad Politécnica de Madrid
  - ▶ Tomas de Miguel, Joaquín Salvachúa, Eva Castro, Alberto López Toledo, Santiago Pavón, Javier Sedano, Elena Apolinario, Maria Jose Perea, Juan Antonio Fernández

# Distribution of the Madrid Global IPv6 Summit

- ◆ Performed by the LONG Project
  - ▶ First large scale distribution of a congress over IPv6
    - With remote participation of speakers and participants
      - not only broadcast
- ◆ The network platform: IPv6 + IPv4 scenario
  - ▶ Makes the Summit a demonstration of the viability of transition scenarios
  - ▶ Includes:
    - IPv4
    - IPv6 over IPv4
    - Native IPv6

# Network Platform

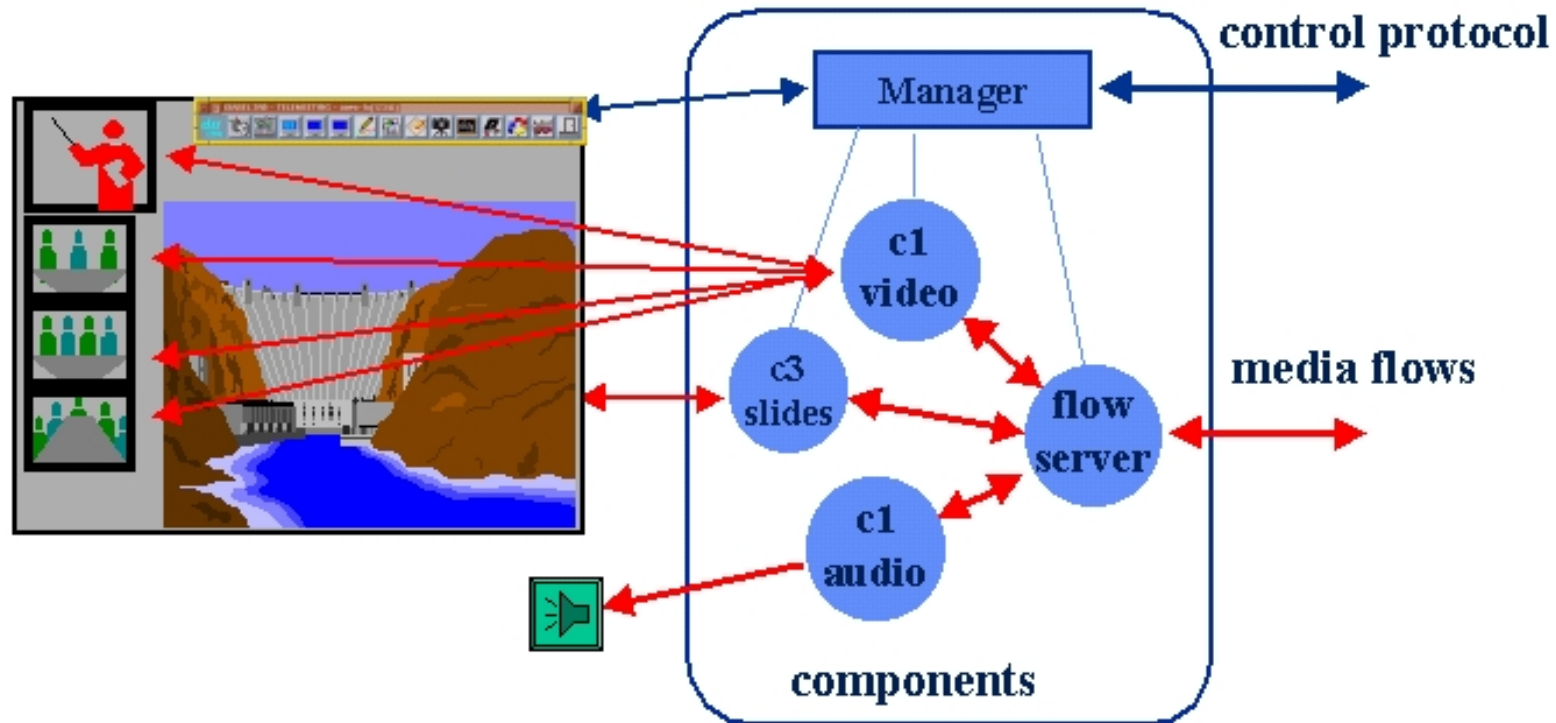


# Port of Isabel to IPv6

- ◆ Port to IPv6 obliged to redesign
  - ▶ Some Isabel modules
    - Reason: IPv4 conditioned architecture
    - Redesign leads to a more consistent architecture
  - ▶ Amount of work invested was reasonable
- ◆ Work still needed to take advantage of IPv6
  - ▶ Security, QoS, mobile IP, etc

# ISABEL Architecture

- ◆ Manager + media components + flow server





# Isabel Services

## ◆ Isabel is a meta-application

- ▶ For designing new services
- ▶ Service = { interaction modes } + management
  - Control panel: provides access to management function
- ▶ Interaction mode:
  - Particular set-up of audio, video, shared workspace, ... supporting a particular type of collaboration
  - Each participant is assigned a particular role.
    - Examples: Presentation, questions, debate, demonstration, ....

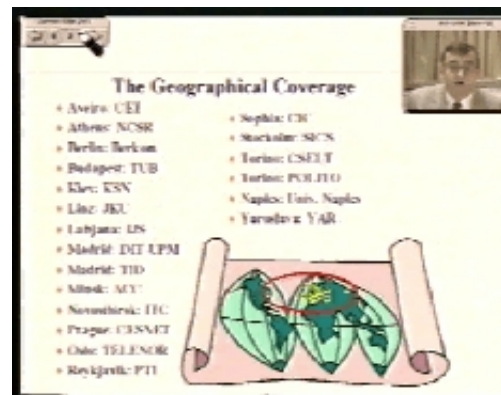
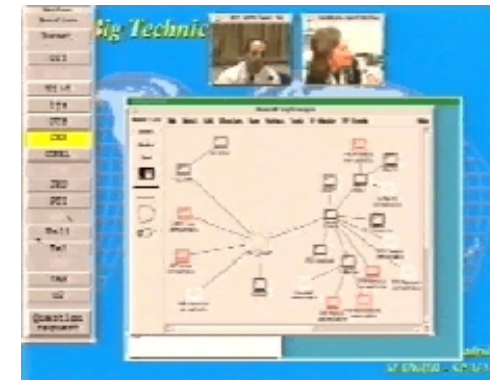
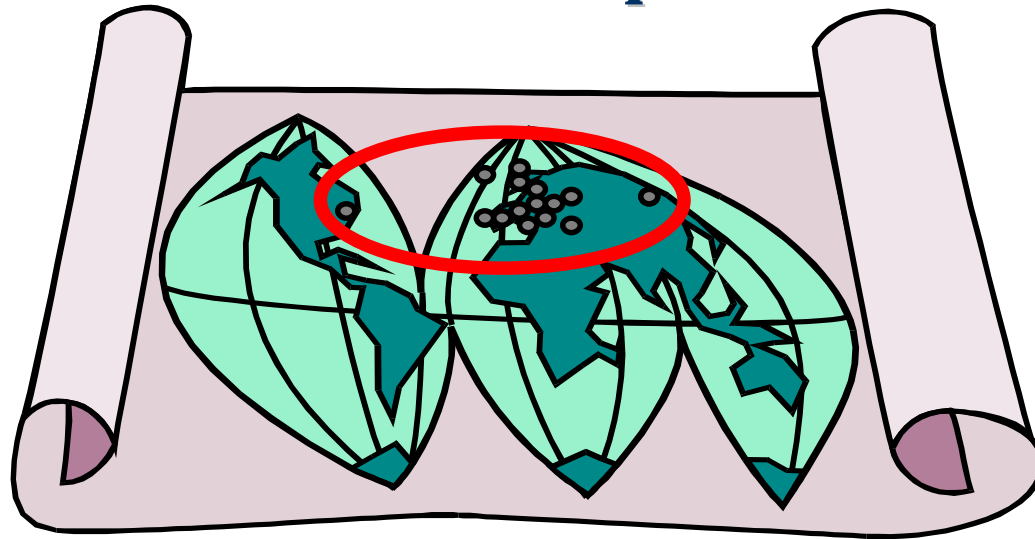
## ◆ Distributed event = sequence of interactions

- ▶ Selected during the event operation by means of the control panel.

# Big Technical Trial

october 1997

North America, Europe, Asia: 16 sites



# Conclusions

- ◆ The Isabel distribution of the IPv6 Summit
  - ▶ can be considered a validation of the transition scenario for IPv6
  - ▶ IPv6 product maturity has improved very significantly
    - From Madrid 2001 Global IPv6 Summit
- ◆ Port of Isabel to IPv6 was achieved in a reasonable time
  - ▶ Software for Real time videoconferencing
    - Very demanding: stability, performance, etc
- ◆ Isabel Service Concept
  - ▶ has proven sound for a transition scenario
  - ▶ Isabel is a
    - Network independent component coordinator