

MOCCA

The Mobile Cooperation and Coordination Action

The **M**obile **C**ooperation and **C**oordination **A**ction

www.ist-mocca.org

Dr. Fiona Williams

WWI Workshop, 23 June 2005, Dresden

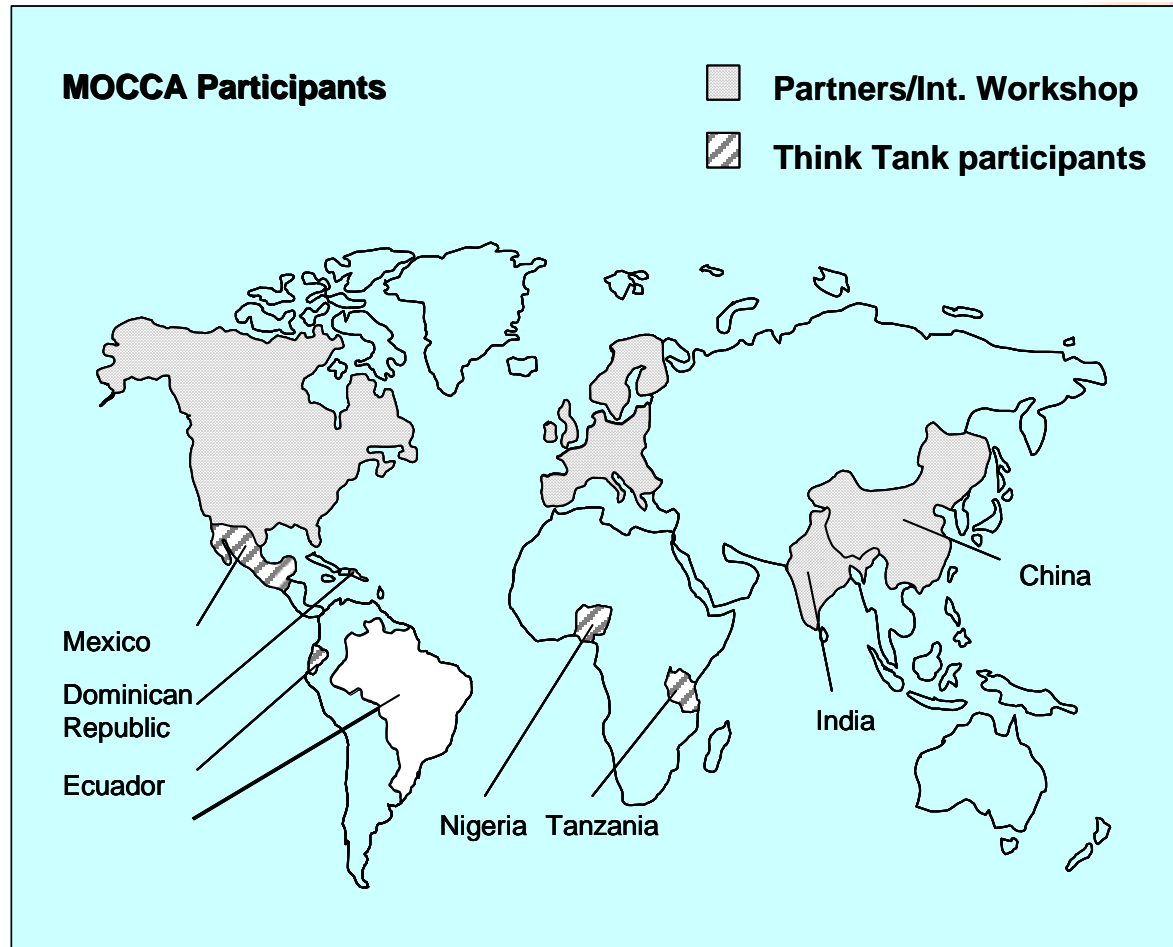


The MOCCA project

- ▶ European IST Coordination Action
- ▶ Project partners (13) are:
 - Manufacturers Ericsson,
Alcatel,
DaimlerChrysler,
Motorola,
Nokia,
Siemens,
 - Operators DoCoMo Eurolabs,
France Telecom R&D,
Telefonica I&D,
Deutsche Telekom TIC
 - Research Inst. EURESCOM,
 - Consultancy INRIA,
Ovum



MOCCA Participants



Timescale and Work packages

- Project started **01 June 2004**
- Project planned end 31 January 2006, extension of end date **30 June 2006**
- **WP1** – Issues of Common Interest in ERA, Eurescom
- **WP2** – User Expectations and Requirements in Developing Regions, Ericsson
- **WP3** – Improved International Collaboration, Siemens
- **WP4** – Project Management, Ericsson



Objective

MOCCA Strategic Objective

- ▶ MOCCA facilitates **European and international collaboration** on future mobile and wireless systems and their applications, paving the way towards **harmonised international standards**



Approach

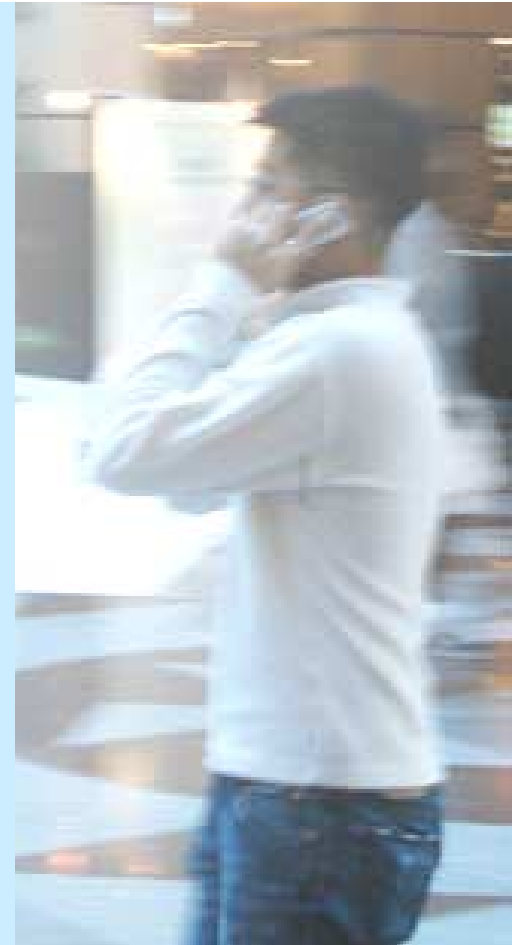
MOCCA approach

- ▶ MOCCA approach - “**open to all**”
- ▶ All interested **ERA** projects are invited to participate
- ▶ Collaboration with research programmes **worldwide** is supported
- ▶ To achieve its results MOCCA makes use of desk research, **workshops**, **Task Forces**, and a **Think Tank** of leading experts



Issues of Common Interest in ERA (WP1)

- ▶ Task:
 - Identification of common issues via questionnaire and workshops
 - Facilitate mutual understanding and future harmonisation of approaches by bringing people together within the ERA
- ▶ Results:
 - **Identification** of 140 relevant ERA projects
 - **4 Workshops** to identify topics for collaboration between projects held in September 2004
 - **4 Task Forces** established, several workshops organised and work still on-going
 - **Wireless applications and scenarios – vehicles**
 - **Mobile broadcast**
 - **Open Source Middleware**
 - **Business Models and stakeholder expectations**



User Expectations and Requirements in Developing Regions (WP2)

▶ Task:

- Desk research
- **3 Tank Meetings** – Chair : Roland Hüber
- Extra **Eastern Europe** meeting, 16 February
- **Two case studies** - Wireless Health services in South America, Spectrum allocation in India
- **Web site** established for input and discussion
- Preparation of report and dissemination of results

▶ Results:

- June 2005 Think Tank Report
- Requirements of emerging markets **identified** and being made **visible** to the wireless research community in Europe, in particular
- Extensive dissemination of results globally via panel sessions, presentations, publications and input to ITU



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The MOCCA Think Tank



MOCCA Overview

Think Tank - Key Findings

- **Markets** – Intercept (leap-frog) not follow
- **User requirements** – Simplicity
- **Applications** – Quite different – local
- **Business Models** – Quite different
- **Technologies** – Lower frequencies best
- **Public Policies** – supportive policies needed, particularly for back-bone infrastructure
- **Regulation** – Copying the developed markets is not the best option
- **Full report: www.ist-mocca.org**



Think Tank – Key Results

- Emerging markets will have wireless and mobile networks as their **dominant network** technology in coming years with no legacy networks
- This will turn the **network planning models** of the past on their heads and the critical mass of emerging markets will drive the development of new wireless applications
- They will have **mass markets** for **applications engineered for wireless networks**. They will need these wireless applications before they are needed in the developed world.



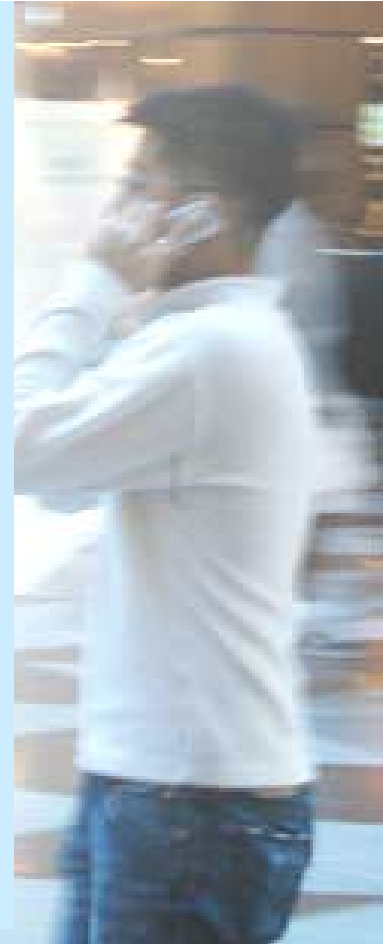
Improved Intercontinental Collaboration (WP 3)

Task:

- ▶ Exchange and Collaboration with Non-European Research Programmes
- ▶ Assistance regarding International Fora and Standardisation and Regulatory Boards

Results:

- ▶ September 2004 - Deliverable describing how Standards associations work with contact points for them
- ▶ Creating **awareness of changes** in the global picture,
- ▶ Stimulating discussion on **how to deal with the changes**
- ▶ Providing a **forum for discussion** in workshops and symposia



Workshop Plans

- **MOCCA - WWI US workshop**, San Diego, 6 July 2005
- **MOCCA - WWI Asian Workshop, Challenges of Beyond 3G Systems**, Shanghai, 21-22 October, 2005 (*Collocation with China-Japan-Korea annual international research meeting*)
- **MOCCA - WWI European Symposium**, Paris, France, 6-7 December, 2005
- **MOCCA - WWI Asian Workshop**, Japan, YRC, January/February 2006
- **MOCCA - WWI US Workshop** – first half of 2006



Thank you for listening !

See www.ist-mocca.org
for more information

