



PLATAFORMA TECNOLÓGICA CHILENA DE  
INTERNET DEL FUTURO

*First*

# *First*

MACHI Technology Platform

Mario A. Bruno · October 13th 2011

Poznan, 26th October 2011  
Future Internet Assembly (FIA)



European Commission  
Information Society and Media



## Summary

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European Commission  
Information Society and Media





## MACHI Vision

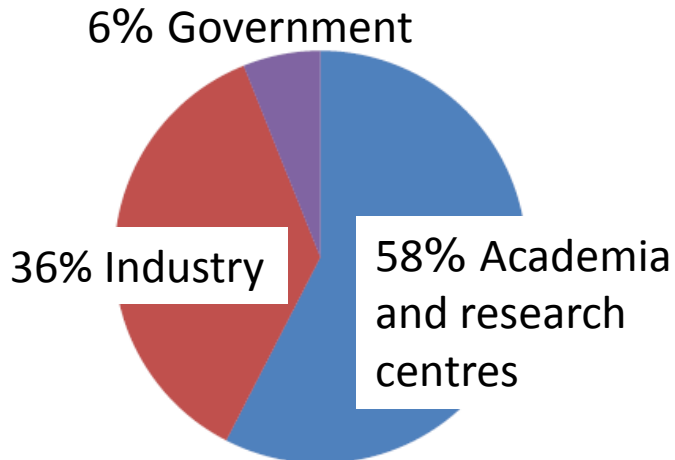
The main goal of the vision of MACHI technology platform is to **increase the international cooperation in R&D ICT projects between Chile and the European Union**. Chile needs to turn its outstanding ICT R&D potential into successful product development in order to be competitive worldwide, bringing together research centres, universities, industries and associations, in order to produce a common vision and a research strategy aligned with the country objective.

One of the main challenges in ICT and FI in Chile is the *Digital Development Strategy* launched by the Chilean Government. This strategy is intended to be a driver for economic growth, development of knowledge and social inclusion.

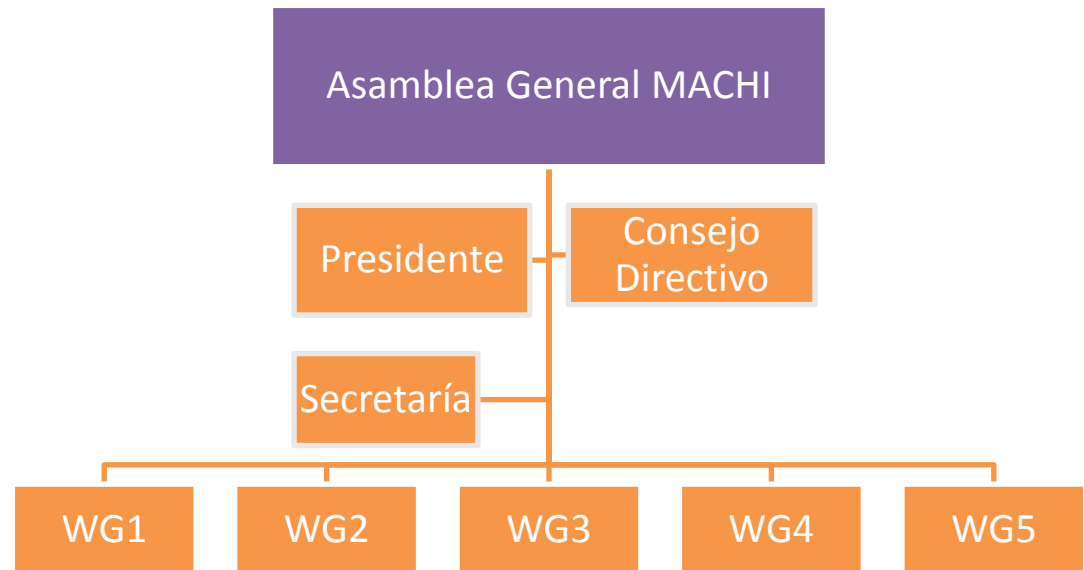
## MACHI Creation

Is dated on April 13th 2011, Santiago, with the signature of the Vision document.

### Demography



### Structure & Governance



## MACHI Achievements and forthcoming actions

2010

Acceptance of the Industry Associations

Support of CONICYT and CORFO

R&D Technology Areas Analysis is launch

1st National Event at CORFO

Support of REUNA

2nd National Event at UTEM (with REUNA support)- Steering Council is constituted

Vision Document

Signature of Vision and formal beginning of MACHI

MACHI Participates at Policy Dialogue Chile Union Europea

Strategic Research Agenda

Roadmap of Implementation

1st Machi General Assembly



MACHI is especially significant because Chile will be the host of the next EU-LAC Summit to be held in 2012.

## MACHI Working Group NESSI Chile

NESSI Chile focuses on Software and Systems for the development of IT services for vertical industries: animation, content, post-production and digital content, eHealth, eEnergy, eBusiness and eLearning.

Key representative: Pablo Caroca, GECHS, pcaroca@nectia.com



Software  
and  
Services

Pablo  
Caroca



Intelligent  
Integrated  
Systems

Héctor  
Torres

## MACHI Working Group EPoSS Chile

EPoSS Chile focuses on Intelligent Integrated Systems for the design of innovative products and services that integrate convergent technologies for applications in medicine, intelligent transport systems and energy efficiency.

Key representative: Hector Torres, UTEM, htorres@proteinlab.cl

## MACHI Working Group ARTEMIS Chile

ARTEMIS Chile is targeted to the R&D of Embedded Systems for Chilean ICT companies to export their electronic systems as well as intellectual propriety and to establish international networks in order to remain competitive and enlarge the markets beyond the LA region.

Key representative: Gerardo Rivas Perlwitz, AIE, [grivasp@gmail.com](mailto:grivasp@gmail.com)

ARTEMIS

Embedded  
Systems

Gerardo  
Rivas

Net!Works

Wireless  
and  
Mobile  
Communi-  
cations

Hugo Durney

## MACHI Working Group eMobility Chile

The main focus of eMobility Chile is the application of ICT research on Wireless and Mobile Communications to the transportation and environment areas.

Key representative: Hugo Durney, UTEM, [hdurney@utem.cl](mailto:hdurney@utem.cl)

## MACHI Working Group NEM Chile

The main application areas of NEM Chile are in the new business opportunities for Chile under the paradigm of the connected society: content authoring for multimedia professionals and UGC consumers, networking and delivery infrastructure and performance, as well as content searching and media presentation.

Key representative: Mario Bruno, University of Playa Ancha,  
[mbruno@upla.cl](mailto:mbruno@upla.cl)



NEM

Networked  
Electronic  
Media

Mario  
Bruno



## MACHI research areas

End to end Trust, Security, Privacy and Resilience; Business process modelling; Adaptive interactions; Service-oriented utility infrastructure.

Embedded Systems for the Security and Critical Infrastructures Protection; Manufacturing and production automation; Embedded Systems for Healthcare Systems; Methods and processes for safety-relevant embedded systems.

Networking and delivery infrastructure; Content search and media presentation; Technology drivers and enabling technologies; Content Creation; Media-related applications and business models.

Smart Systems for the Internet of Things; Smart Systems for Safety and Security.

Simplicity, efficiency and Trust for emobility.



## **MACHI potential cooperation with ETPs**

Energy demand

Demographic changes such urbanization, rural inclusion

Well being and ageing (AAL: Ambient Assisted Living)

Disaster management and rapid response to natural crisis

Sustainable industries and climate change

Digital Divide towards social inclusion and equal access to opportunities

Living Labs, Smart Cities and Internet of Things