



PLATAFORMA TECNOLÓGICA CHILENA DE  
INTERNET DEL FUTURO

*First*

Future Internet Roadmap  
Chilean Technology Platform  
Net!Works Initiatives  
2011



European Commission  
Information Society and Media



*First*



# Universidad Tecnológica Metropolitana

## Programa de Prospectiva Tecnológica e Innovación

**Hugo Durney Wasaff PhD**  
Director de Investigación y  
Desarrollo Académico

**pro<sup>te</sup>in<sup>lab</sup>**<sup>®</sup>  
tecnología e innovación para el diseño de productos

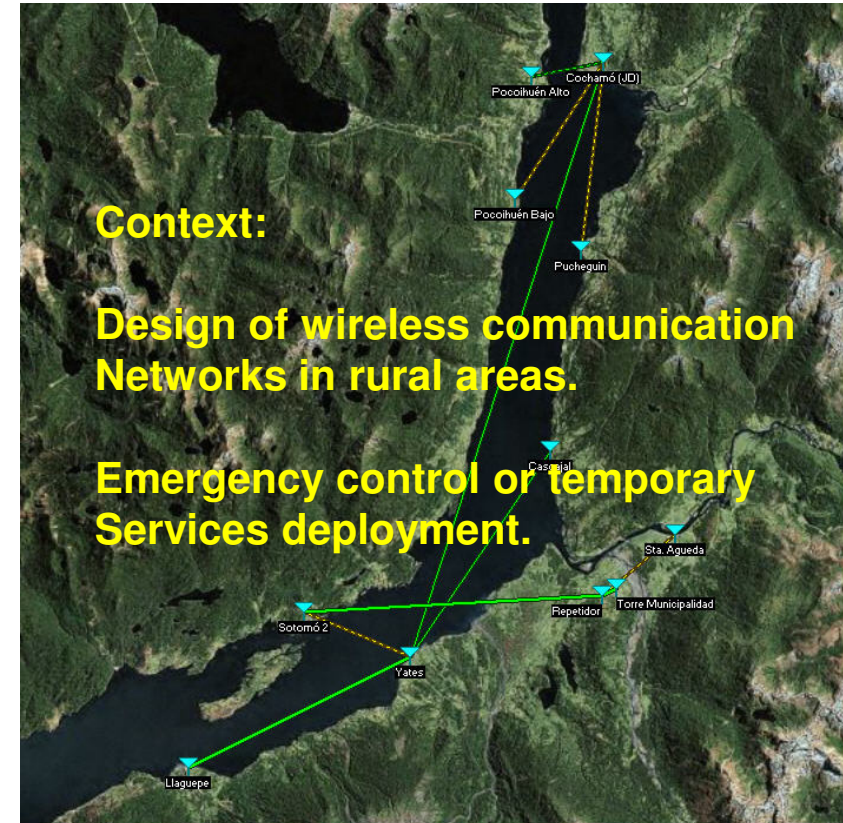
## Multitask portable wireless units for on-site prospective data acquisition and wireless network design.

### Challenge 1

- Objectives 1.1 “Future Networks”  
1.3 “Internet Interconnected Objects”  
1.4 “Trustworthy ICT”.

### Challenge 6

- Objective 6.2 “ICT Systems for energy efficiency”.





## Objective:

To develop a pre-competitive prototype of a multitask autonomous wireless repeater and prospective data acquisition unit for wireless networks design, capable of registering on site measurements about its own digital radio links behaviour to tune the predictions of link coverage distance previously obtained with modelling or simulation tools.

The prototype or prototypes should be scalable or to other intermediate solutions and applications like seismic sensors networks, remote video surveillance, remote access to weather stations, communications coverage in emergency situations, simple relay station to extend Internet access in a tandem of repeaters.

*First*



¡Muchas Gracias!

hdurney@utem.cl



[www.utem.cl](http://www.utem.cl)



[www.proteinlab.cl](http://www.proteinlab.cl)