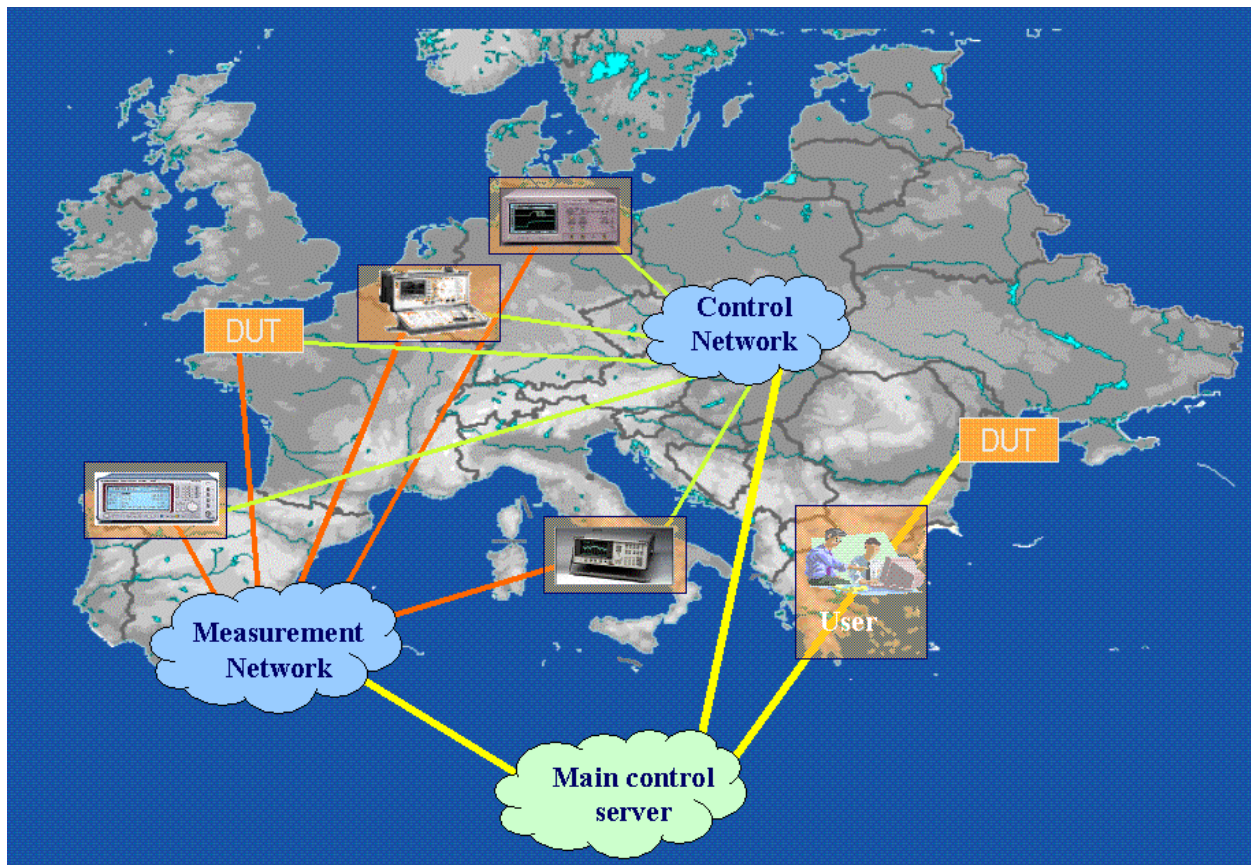


# Technological Network for Instrumentation and Measurements in Telecommunications

## Introduction

The remote access to complex laboratory equipment and the possibility of remotely driving experiments and measurements represent appealing issues of great interest and relevance for research, educational and industrial purposes. The range of topics potentially involved is very large, including, among others, applications in all fields of engineering as well as of medicine, biology and physics. Significant experiences in this field are now propelled by the availability of a large set of programmable instruments and by the surprisingly rapid growth of networking infrastructures. As a matter of fact, current technology allows to set-up a network of instruments able to share not only the results of measurements but even data and signals which have to be analysed.



## Goals

The project is devoted to deploy and interconnect a group of testbeds, located in Naples and Catania, in order to share the resources provided by the instrumentation set constituting the core of the overall distributed system. This (prototypal) “shared” laboratory should represent a first step for more ambitious projects, involving a large number of laboratories, spread over Italy and Europe. The short time objectives can be summarized as follows:

- to integrate and extend the measurements testbeds, implemented through the Projects “LABNET” (in Naples) and “Multicampus” (in Catania). Both these projects belong to the “Cluster 16” (Multimedia) plan funded by MIUR.
- To set-up a prototypal “shared” laboratory, where both measurements results and measurement objectives (i.e., signals and data to be analyzed) travel through a suitable network.

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## **Partners**

Within CNIT, the project is jointly developed by The National Laboratory for Multimedia Communication in Naples, and the Research Unit at the University of Catania.

## **Project status**

Beginning: July 2003

End: June 2005

**Total funding:** 800,000 Euro