

Centro de Tecnología de las Comunicaciones, S.A.



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# Developing a worldwide test service



Málaga (SPAIN)

**CETECOM™**

Manufacturers, OEMs, vendors, resellers, distributors and service providers of **cutting-edge** technology (fixed or wireless) need rigorous testing and certification processes to **reach the global markets** in the **fastest** possible way and with the **highest quality** of service.

## MARKET REQUIRES:

- Test laboratories with a large spectrum of testing services covering the latest fixed and wireless technologies
- A one-stop service to provide a single interface for all testing and certification activities during product lifecycle
- High-tech test equipment
- Minimum lead-times, to reduce time-to-market
- Global acceptance of test reports
- High quality of service based on ISO 17025 accreditation

## Test Types

Protocol Conformance Testing

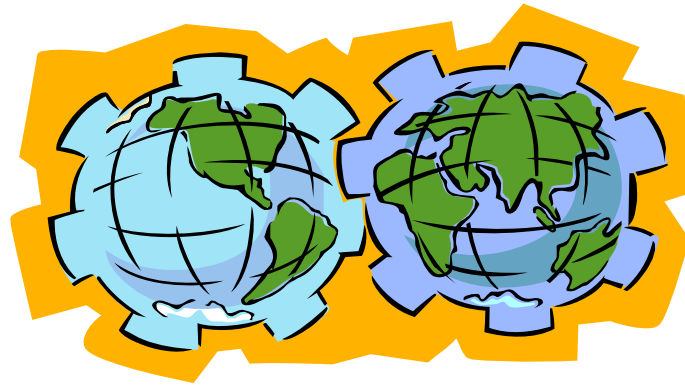
Radio Conformance Testing

Interoperability Testing

Regulatory Testing



**A vendor needs a global testing solution!  
Not only conformance and interoperability testing.  
All the product testing needs.**



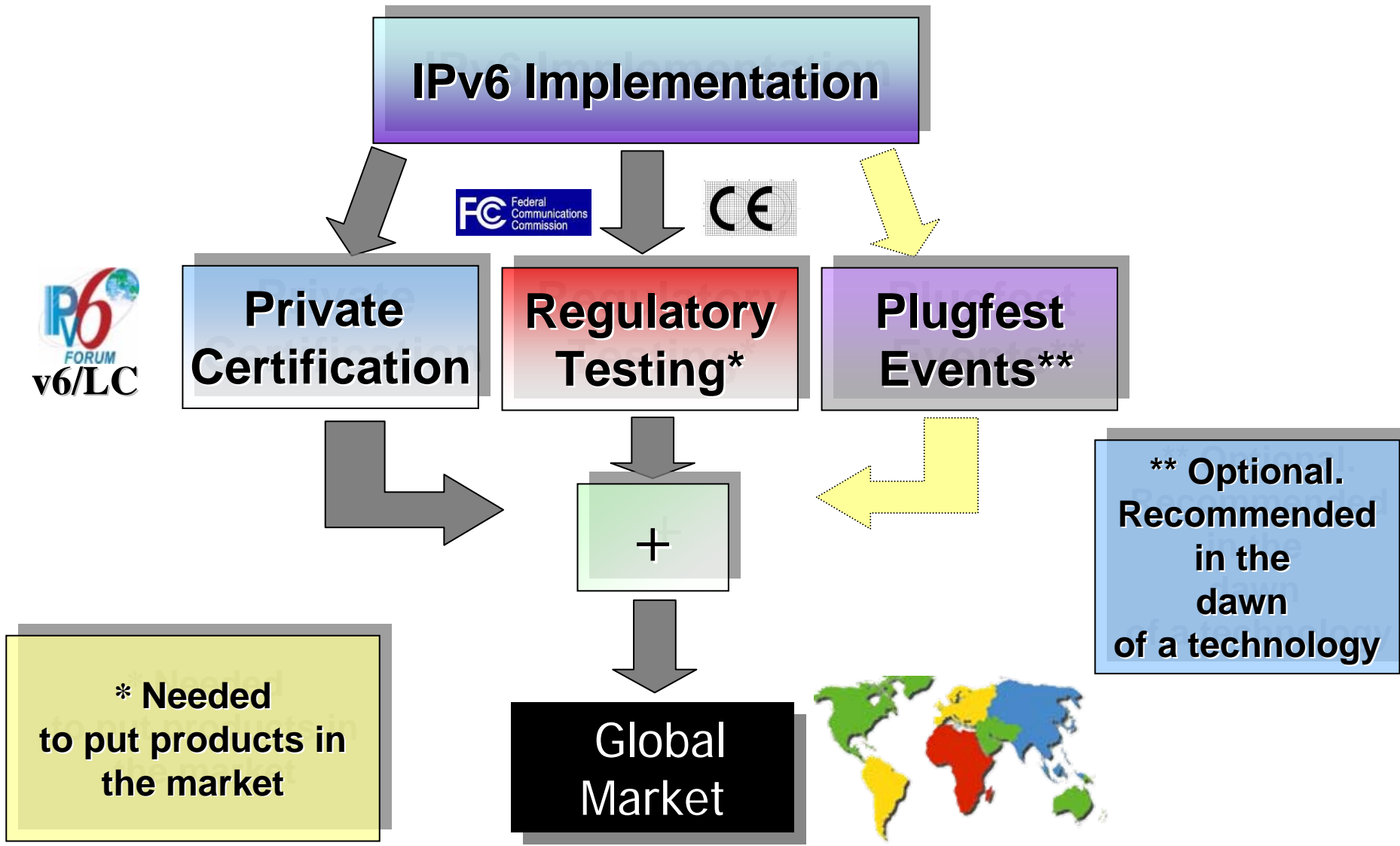
Internet  
experience  
will be totally  
transformed !

- IPv6 will **enable us to connect everyone and everything to the Internet**, allowing two-way Internet connectivity, similar as offered today by the phone system
- IPv6 will allow to develop new applications in very different and new areas: Broadband, VoIP, 3G and 4G mobiles, Home Networks, Car-2-Car, IP mobility and more

*“...the mobile worker population will increase from more than 650 million worldwide in 2004 to more than 850 million in 2009” (source:IDC)*

IPv6 is going to be everywhere,  
... and (almost) **EVERYTHING** is going to be wireless

# TOWARDS A WORLDWIDE IPv6 TEST SERVICE



## Main entities involved in IPv6 testing and certification

**Standardization Organizations:** They develop technical specifications and test specifications for IPv6 protocol testing



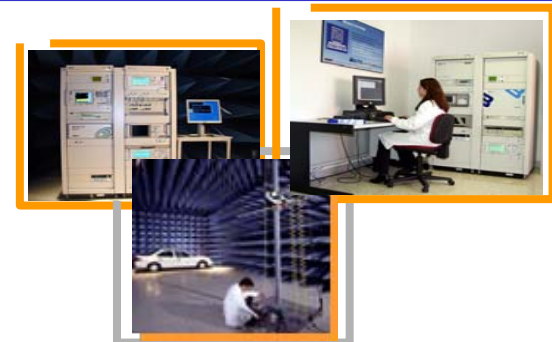
**Entity owner of the certification process:** In charge of the process and policies to obtain the IPv6 certification. In this case, it is an activity within the IPv6 Forum



**Certification body:** They certify the products. In this case, the IPv6 Logo Committee (v6LC)



**Accredited laboratory:** They perform the tests according to the test specifications (conformance, interoperability, regulatory testing and more if needed)



## IPv6 Forum



- The IPv6 Forum is a worldwide consortium of leading Internet vendors, Research & Education Networks, with a clear mission to promote IPv6 in the market
- To avoid customer confusion, a single world certification program is highly required
- To manage the certification programme, the IPv6 Forum created the **IPv6 Logo Committee (v6LC)**. This committee has launched a certification program called the **"IPv6 Ready Logo Program"**



## IPv6 Ready Logo Program goals



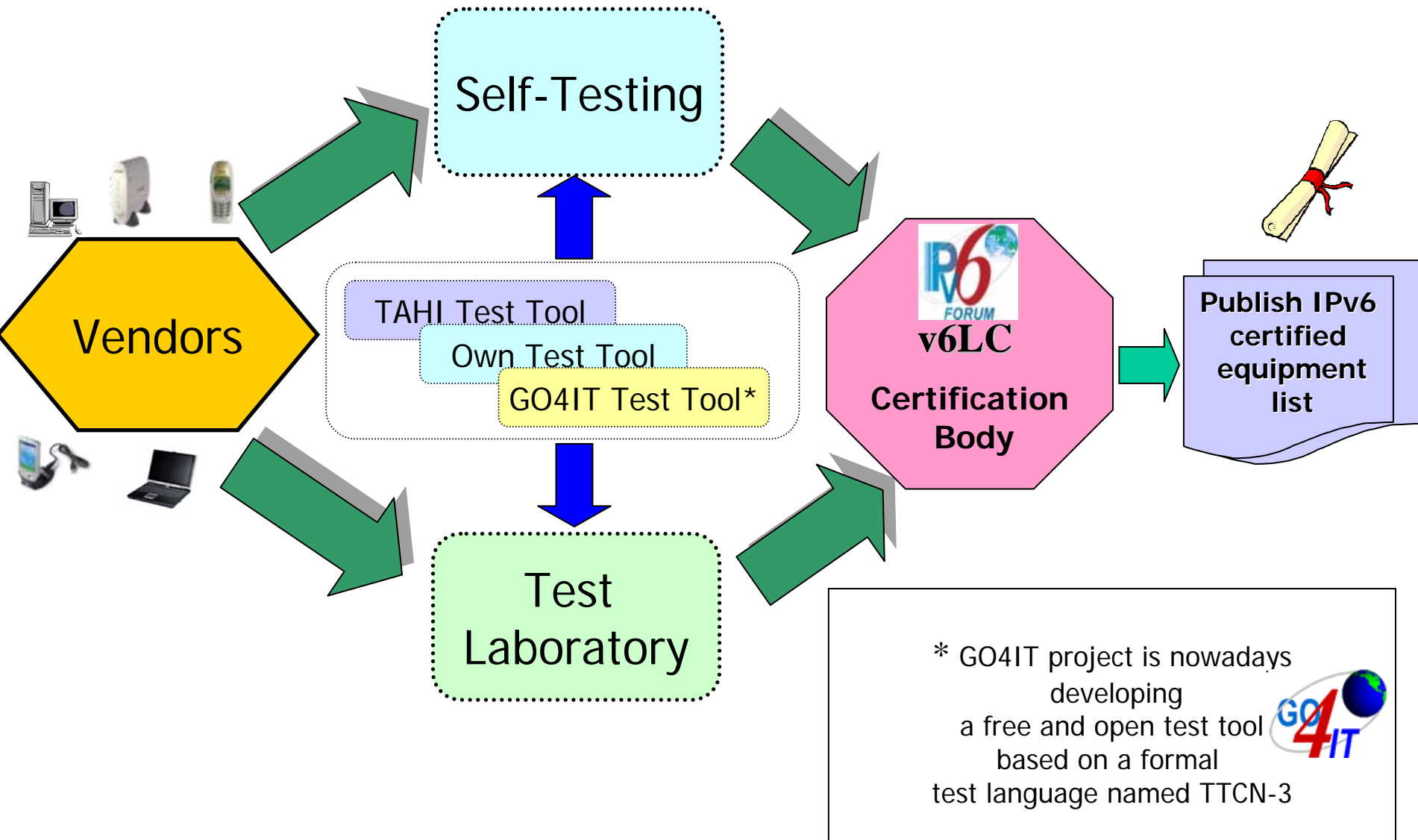
- **Objectives:** To assist with IPv6 deployment by supplying test specifications
- **Resources:** Implementation of a “smooth” certification programme in **Phase 1** (started in March 2003) and an optimum programme in **Phase 2** (started in early 2004)
- **Mission:** To define a procedure for assignment of the IPv6 Logo and insure its distribution. Also, to define and establish test specifications for conformance and interoperability for IPv6.

- The IPv6 Ready Logo Program provides the test specs and sets the procedures and policies to obtain and use the logo
- Your IPv6 implementation **must pass the 100%** defined conformance and interoperability tests to get the logo
- There are two alternatives to obtain this logo: “self -test” using developed test tools or third party testing in an **IPv6 Ready testing laboratory**



You can let one of these labs take care of all the process if you want to minimize the time required for logo testing

# CERTIFICATION PROCESS OVERVIEW

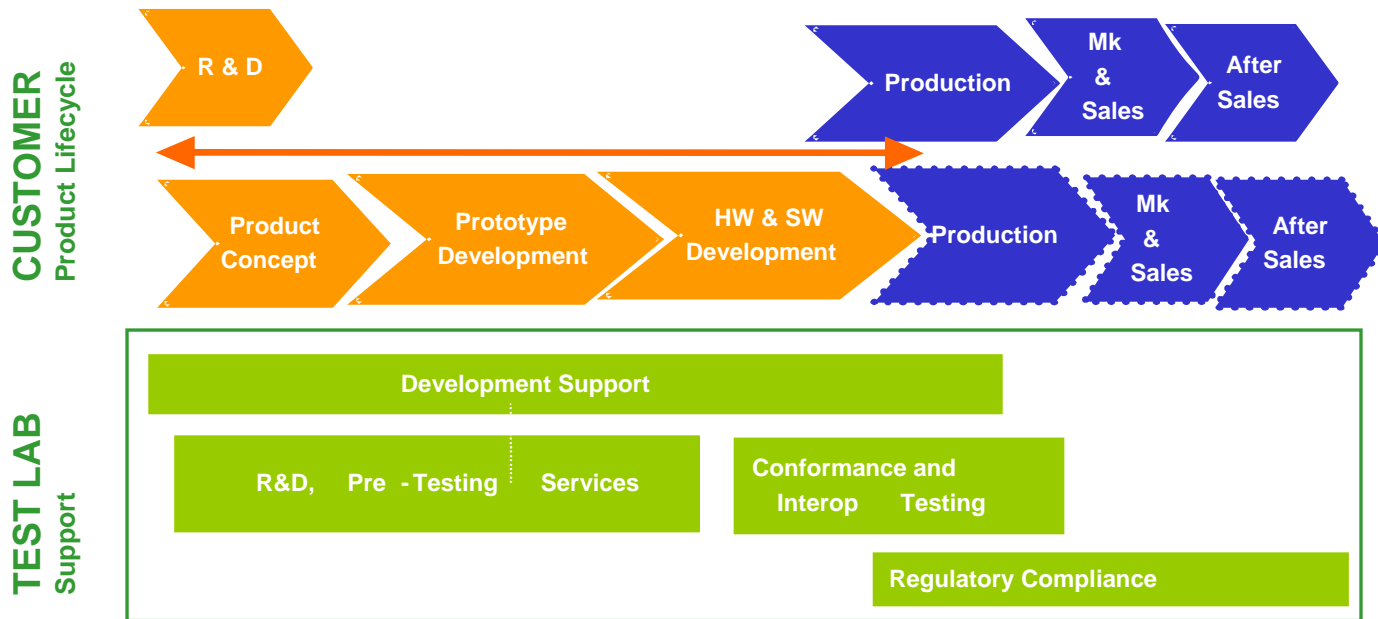


\* GO4IT project is nowadays developing a free and open test tool based on a formal test language named TTCN-3

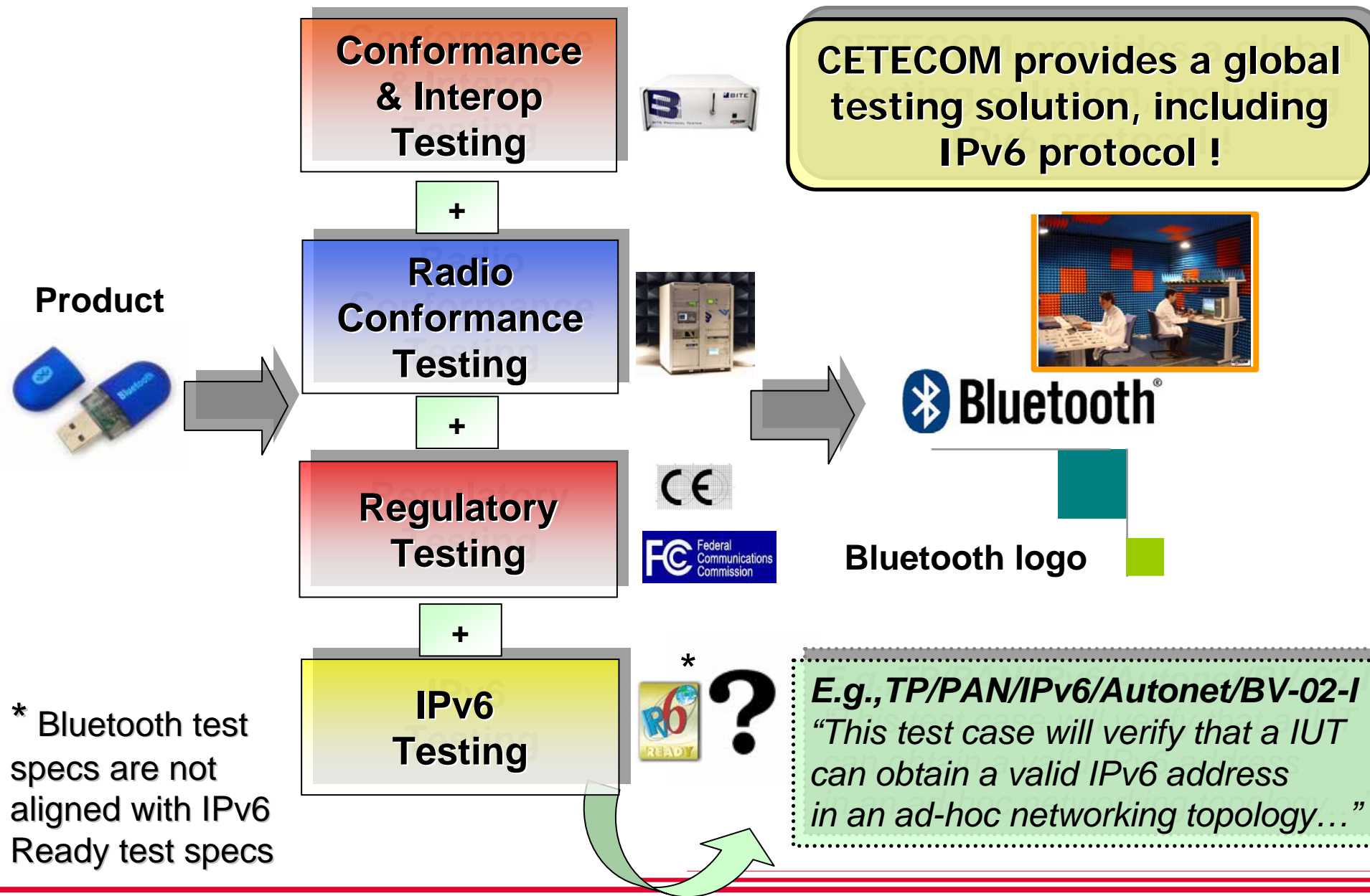


CETECOM is a world leader in design and development of test systems and testing services for wireless and mobile technologies.

CETECOM is also a test tool developer with products in the market for mobile and wireless technologies such as 2G (GSM/GPRS/EDGE), 3G (WCDMA), Bluetooth, Wi-Fi, WiMAX, RFID, etc.



# CERTIFICATION SERVICES FOR IPv6: AN EXAMPLE



- The **GO4IT** project will provide a generic low cost test environment and associated test services, together with free of charge executable test suites, targeting IPv6 focused testing
- The outcome of this project will contribute IPv6 Ready Logo Programme Phase 2 and later phases
- CETECOM leads the **SERVICE ACTIVITY**
- As a result of the Service Activity, it will provide among others:
  - Test-Services for IPv6 testing
  - Executable test suites, fulfilling user and market needs
  - Consultancy services
  - A support and maintenance activity to be provided through a web portal to beneficiary communities with functionalities such as: FAQs, white papers, user manuals, newsletters, discussion forum, etc.



For more information: [www.go4-it.org](http://www.go4-it.org)

Thanks for your attention!  
Carlos Pérez Ruiz ([cperez@cetecom.es](mailto:cperez@cetecom.es))



**HEAD OFFICE:** Parque Tecnológico de Andalucía - C/ Severo Ochoa, 2 - 29590 - Campanillas - MÁLAGA - SPAIN, Tfn.: +34 95 261 91 00 - Fax: +34 95 261 91 13  
**SEVILLA OFFICE:** C/ Isaac Newton s/n - 3ª Pl. - Centro de Empresas - Pabellón de Italia - Isla de la Cartuja - 41092 - SEVILLA - SPAIN, Tfn.: +34 95 460 00 09 - Fax: +34 95 460 00 09  
**MADRID OFFICE:** C/ Luxemburgo, 4 Bajo 1. Urb. Las Jaras - 28224 Pozuelo de Alarcón - MADRID - SPAIN

**CETECOM™**

Málaga - Sevilla - Madrid