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ADVANCED TOOLS AND SERVICES FOR IPv6 TESTING

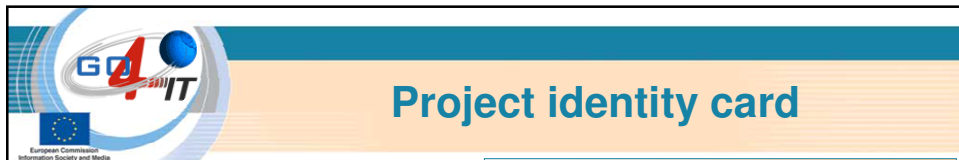
WWW.GO4-IT.ORG

## The Go4IT project

Toward a TTCN-3 open environment for IPv6 protocols testing




TTCN-3 User Conference 2006 - Berlin



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## Project identity card

- **Integrated Infrastructure Initiative**
  - Started in Nov 2005
  - 30 month FP6 project
- **Partners:**
  - France (ETSI, jTest, INRIA)
  - Germany (inno, Fokus)
  - Spain (Cetecom)
  - China (BII, CATR, BUPT)
  - Russia (Ispras)
  - Brazil (IPT)
- **Go4IT project intends to provide Research Infrastructure users with free TTCN-3 based IPv6 testing environment including test tools, test suites and the related services.**




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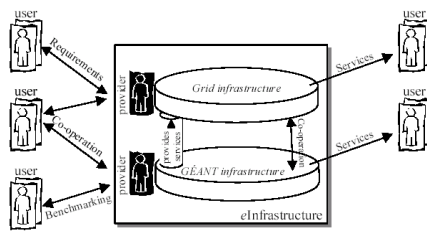
2





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## The DG INFSO/ Research Infrastructures Unit

- Go4IT: a project of the DG INFSO – Research infrastructures unit (F3)
- F3 Unit Work programme
  - **GÉANT** - provision of a high-capacity and high-speed communications network
  - **Grids** - deployment of advanced Grids-empowered infrastructures.
  - **Research networking test-beds** - deployment of advanced, user-driven large scale test-beds with the goal to integrate and validate the state-of-the-art technology.







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3



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## Go4IT activities and services

*The GO4IT project intends to provide Research Infrastructure users, the IPv6 development and user communities with IPv6 oriented test tools, test suites and the related services based upon the standardised TTCN-3 methods*


- Provide a roadmap to a free, open & generic test environment.
- Develop open & generic test tools for IPv6 protocols.
- Offer free test tools, test services such as plugtest events and related support.
- Raise user communities awareness of testing and validation methodologies.
- Disseminate worldwide.



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4




## Different participation levels

- For academic people
  - Education and training
  - Possible creation, debugging and update of ATS
  - Low cost solutions
  - Capability to implement and test new potential TTCN functionalities (access to the test platform source)
  - Possible re-use of efforts made by the community (share developed components)
- For test users
  - Confidence in the test environment
  - Validated test suites
  - Friendly interfaces
- For industrial users
  - Get time-efficient validation/certification solution at no or limited costs




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5

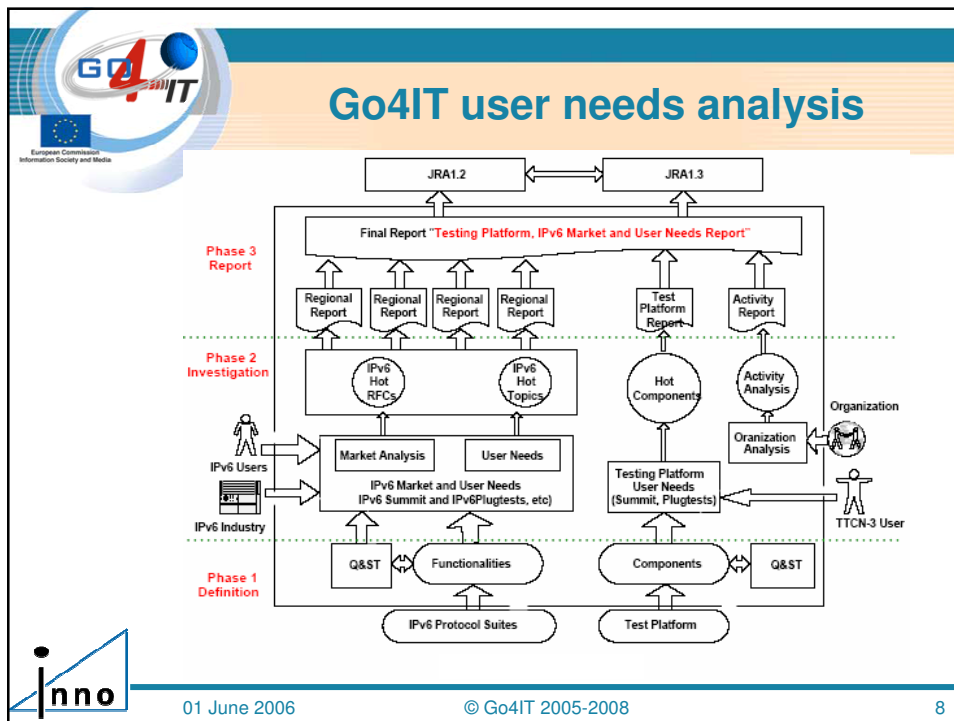
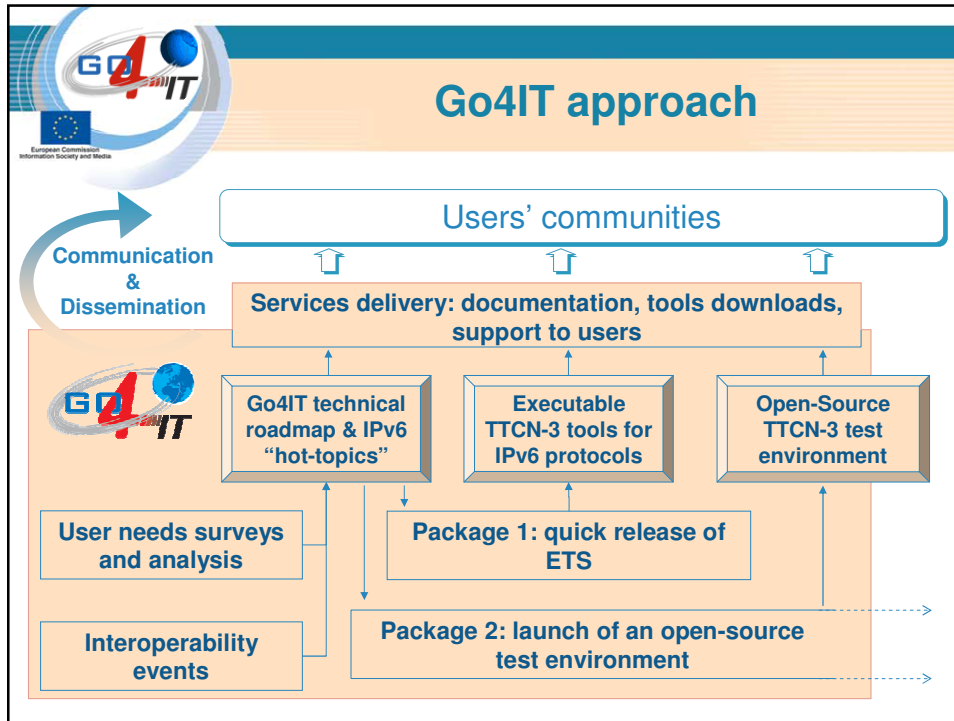



## Go4IT organisation

- Networking
  - Manage and coordinate the project
  - Communicate and disseminate project results
  - Organize Interoperability events
- Joint Research
  - Identify users needs
  - Define the roadmap toward an open and generic TTCN-3 based test environment
  - Develop new Abstract Test Suites (ATS)
  - Develop and implement the test environment
- Service
  - Provide Executable Test Suites available for free for download
  - Provide support to Go4IT tools users




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6






## Go4IT Interoperability events

- Objectives and benefits of the interoperability events organised with ETSI IPv6 Plugtests are:
  - Access in one place a wide range of tests provided by various test companies
  - Check the interoperability of products with those of international and active market players
  - Run the tests of the IPv6 Ready Logo phase-1 and Phase-2.
  - Improve and debug IPv6 implementations by:
    - running the available Interoperability and Conformance tests
    - running the TTCN-3 tests.
- 1<sup>st</sup> interoperability event: 9/12 April 2006 - Beijing
- 2<sup>nd</sup> interoperability event: 13/16 November 2006 -Cannes




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## Go4IT package 1

- Package 1 will permit quick offer and quick supply of test services to IPv6 community
- It will propose
  - An Executable Test Suite based on the ETSI IPv6 STF276 work
  - An Executable Test Suite based on an IPv6 « hot-topics » ATS to be defined during the users' needs analysis
- As a minimum, all the runtimes required to run the ETS will be provided




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## Go4IT package 2

- Package 2 roadmap targets a term longer than the project itself
- Package 2 focus is 'open' and 'generic' TTCN-3 test environment
  - Open means
    - Conform to TTCN-3 specification
    - Based on open-source principles
  - Generic means
    - Environment can incorporate user adaptations
    - Use of vendor-specific code into ATS will be avoided
    - Target re-usability of developed modules with other TTCN-3 test environments
- Package 2 will propose within Go4IT
  - The technical roadmap
  - An Open Source software forge
  - A working demonstrator of the Go4IT test environment




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## Go4IT Roadmap

★ Project start										
★ Users and market needs analysis										
★ Technical roadmap										
★ Launch of web-portal										
★ Start of community enlargement										
★ New IPv6 'hot topics' ATS										
Beta version of test environment (Package 1) ★										
Final version of test environment (Package 1) ★										
Working prototype Package 2 ★										
Project end ★										
Q4-05	Q1-06	Q2-06	Q3-06	Q4-06	Q1-07	Q2-07	Q3-07	Q4-07	Q1-08	



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12



## Welcome to join us !

Go4IT offers different levels of user participation enabling you to contribute according to your specific interests and competencies.

Involvement can be from "being aware" right up to "active contribution".

- **Be informed:** share aims and results while accessing for free the full services offered by the Go4IT project and having the opportunity to give your feedback ... **Go4IT forum**
- **Contribute:** Get privileged access to private information and tools and participate in technical and dissemination activities ... **Go4IT factory**
- **Coordinate:** ensure the project deliverables remain aligned to the overall objectives of Go4IT and the interests of individual contributors...**Go4IT consortium**



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## Feel free to visit our website

<http://www.go4-it.org>

- Project information
- Documentation
- News
- Discussion forums
- On-line users support
- Software forge



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**Meet us at the IPv6 summit,  
November 2006**

- Go4IT is co-organiser of the French IPv6 summit – November 2006 in Cannes
  - IPv6 tutorial on Monday 13 followed by on Thursday 16 with a practical Workshop with 100 connected PCs
  - IPv6 interoperability event on 13 - 16 November
  - Conferences on 14-15 November
- You are kindly invited to come and meet us
- More information: <http://www.v6summit.com>



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**Thanks for your attention**



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