

# ISPRAS in Framework Programmes

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# Presentation Overview

**Go4IT:** Advanced tools and services for IPv6 testing  
<http://www.go4-it.eu/>

**ISTOK-RU:** Information Society Technologies to Open Knowledge. Russia.  
<http://www.istok-ru.eu>

**ISTOK-SOYUZ:** Information Society Technologies to Open Knowledge for Eastern Europe and Central Asia  
<http://www.istok-soyuz.eu>

**CORACLE:** High-level parallel computation models and their run-time support  
Joint EU-RU ICT Call

Challenges and Lessons Learnt



# Project identity card

## Integrated Infrastructure Initiative

Started in Nov 2005

30 month FP6 project

## Partners:

France (jTest, INRIA)

Europe (ETSI)

Germany (inno, Fokus)

Spain (Cetecom)

China (BII, CATR, BUPT)

Russia (Ispras)

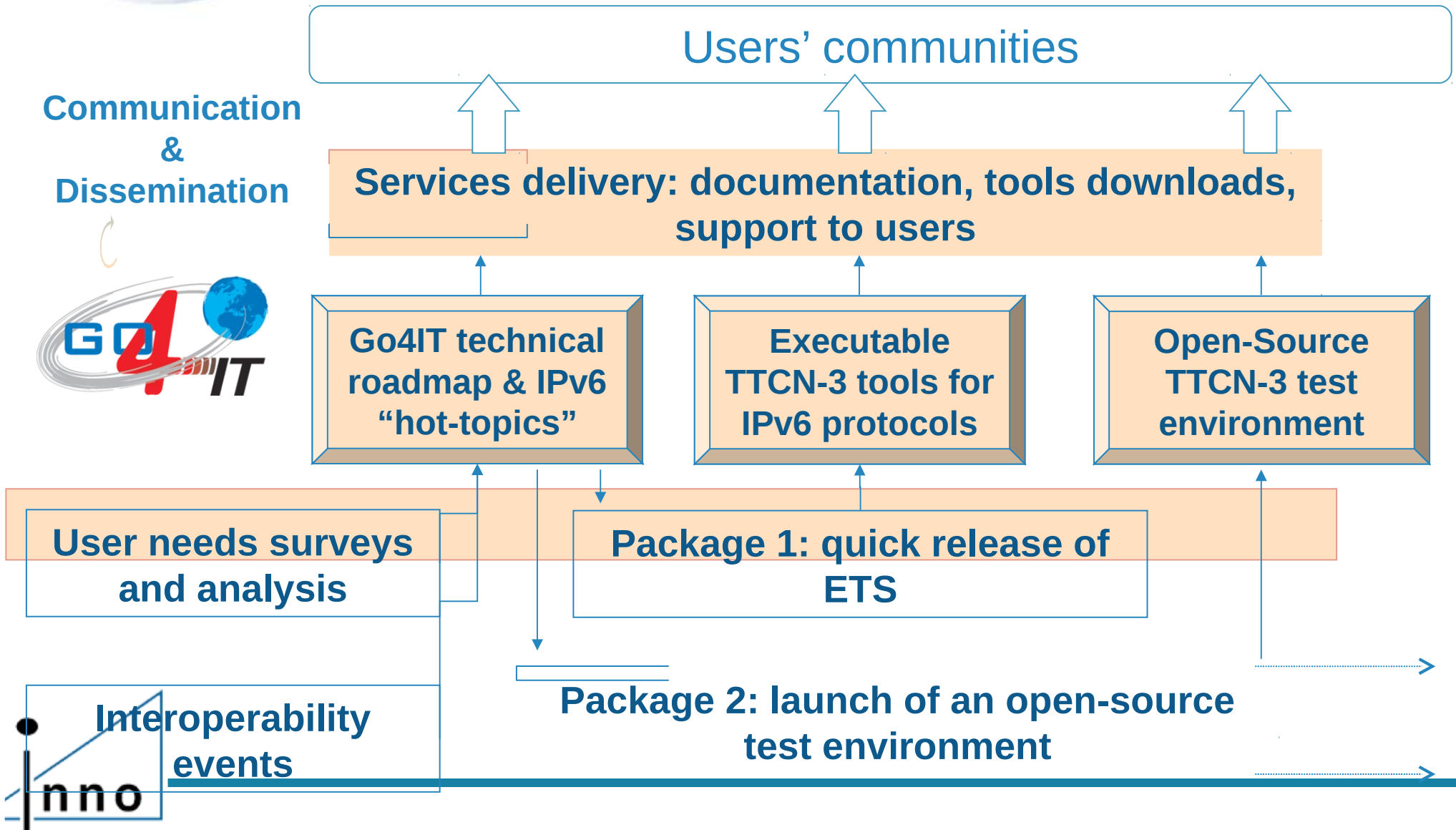
Brazil (IPT)

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*.





# Go4IT approach





# ISTOK : Project's parameters

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# ISTOK overall view

## ISTOK implementation steps

Elaboration of EU-RU ICT collaboration TAXONOMY **R1**

Constitution of a Database with 2000 ICT contacts **R2**

25 interviews **R3**

10 e-Forums **R4**

ISTOK events **R5**

Bibliographical analyse **R6**

Competence profiles of 200 people on the competence platform

15 joint FP7 proposals

Min. 8 ICT priorities for EU-RU collaboration

## ISTOK mapping steps

R1 R2 R3 R4 R5 R6

Elaboration of the evaluation criterias **R1**

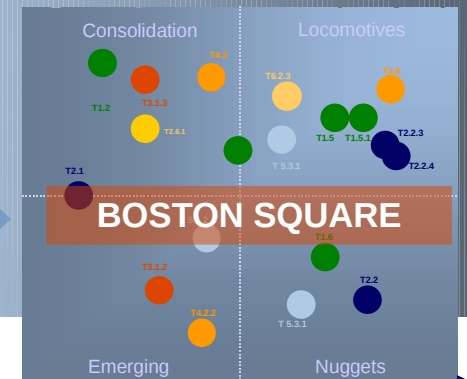
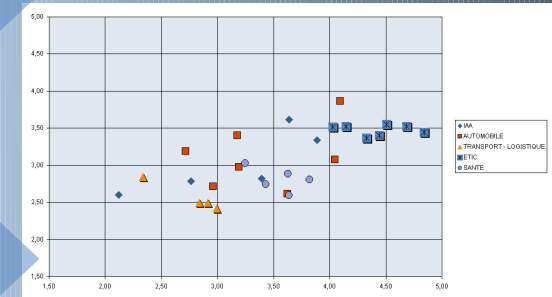
Weighting exercise

Analysing

Validation by expert group

Podium of ICT priorities

Internal criteria					
Field	Field weight	N°	Criteria	Criteria weight	Absolute weight
1. Adequacy to Russian potential for R&D and exploitation	25	1	High level scientific competences and/or applied research for the considered area exist in Russia	3	9,4%
		2	Research exploitation (eg. Private companies) and/or technology transfer centres and/or training centres exist in Russia for the considered area	2	6,3%
		3	Russia offers an originality compared to other regions in the considered area	3	9,4%
		4	Russia is a worldwide leader in the considered area	5	15,6%
		5	This area is one of the priority for Russian government	3	9,4%
Sub-Total				16	Adequacy for Russia
2. Adequacy to European potential for R&D and exploitation	25	1	High level scientific competences and/or applied research for the considered area exist in Europe	3	9,4%
		2	Research exploitation (eg. Private companies) and/or technology transfer centres and/or training centres exist in Europe for the considered area	2	6,3%
		3	Europe offers an originality compared to other regions in the considered area	3	9,4%
		4	Europe is a worldwide leader in the considered area	5	15,6%
		5	This area is one of the priority for Europe	3	9,4%
Sub-Total				16	Adequacy for Europe
<b>Total</b>	<b>50</b>			<b>32</b>	<b>100%</b>



BRINGING ICT COMMUNITIES CLOSER

Information Society Technologies to Open Knowledge  
for Eastern Europe and Central Asia

# Information Technologies to Open Knowledge for Eastern Europe and Central Asia



# Geographical coverage



# Project goals and objectives

Increase strategic alliances between European ICT research and research of Eastern Europe and Central Asia



**Extended ICT community for benefits of EU R&D**

**Identification of promising ICT technological areas** for cooperation with target countries (5 per each)

**5 Network and brokerage events. Integration into NoE and ETP** (25 organisations from EECA)

**20 partnerships for FP7 proposals**

# Project #07.514.11.4001

High-level parallel computation models and their run-time support  
Project goal: compiler and run-time support for effective  
programming of high-performance apps for heterogeneous systems

Each node has one or more FPGAs

High-level dataflow models and low-level support techniques (based on C,  
OpenCL, MPI) are considered

## Participants

Russia - ISP RAS (with CC RAS)

EU - University College Dublin, University of Innsbruck,  
University of Munster, Instituto de Engenharia de Sistemas e Computadores  
Investigação e Desenvolvimento em Lisboa

# Cooperation possibilities

- Using programming models for heterogeneous systems and load balancing/communication algorithms developed by project partners
- Using compiler support developed for GCC, OpenCL, MPI and test applications
- Extending programming models jointly developed by project partners for future heterogeneous exaflop systems

# Potential for Future Cooperation

Safe Linux ecosystem:

Standardization, verification

Model-driven engineering of mission-critical systems

Linux-based

Security, safety

Vulnerability detection

Trace analysis

High-performance computing, cloud computing

Information management, semantics

Compiler technologies

# Challenges

Consortium members have their own list of interests

High efforts at the initial stage

Success rate: 10-20%

Proficient coordinator required!

Formal nature of evaluation

Strictly adhere to Call terms

Skill “read between the lines” required

Complicated paperwork

Proficient coordinator required

Negative cash flow risks

Unusual financial procedures

# Lessons Learnt

Proactivity required

- Wide network of contacts

- Solid project ideas anticipated

Framework Programmes are not for money

- Funding is 1-3 men-year per year

- Contacts network widening

- Potential for future cooperation

Framework Programmes are not for new or basic research

- Funding is ~1-3 men-year per year

Valuable experience of EU style of work