

Several Opportunities for the Successful Participation of Georgian Scientists in H2020 Programs

Givi Kochoradze



Classification of the Most Popular International Scientific Foundations in Georgia

■ Assistance Programs/Foundations:

ISTC	www.istc.ru
STCU	www.stcu.int
NATO	www.nato.int/science
TEMPUS	www.tempus.ge
ENPI	http://www.delgeo.ec.europa.eu/
INTAS	Closed in 2007

■ Applied Programs/Foundations :

EC FP programs	http://cordis.europa.eu.int
GRDF	www.grdf.ge
DFG	www.dfg.de
IFS	www.ifs.se
SNF	www.snf.ch



EC Scientific Contribution

- **The European Union is a world leader in research and innovation, responsible for 24% of world expenditure on research, 32% of high impact publications and 32% of patent applications, while representing only 7% of the population.**
- **It must be underlined that about 6% of representatives of third countries participated in FP7 and this number is increasing.**
- **In new H2020 program the interest of the Europe is to strengthen the EU's excellence and attractiveness in research and innovation as well as its economic and industrial competitiveness (creating thereby win-win situation); to tackle global societal challenges (such as climate changes, infectious diseases, food security, etc.) and support the EU external policies (ENP, Science diplomacy, ERA, etc.)**



EC FP7 Program

The screenshot shows the EC FP7 Program website interface. At the top, there is a navigation bar with links for 'About CORDIS', 'Print', 'Legal Notice', 'Search', and 'Contact', along with a language dropdown set to 'English (en)'. The main header features the European Commission logo and the 'CORDIS Community Research and Development Information Service' title. Below this is a secondary navigation bar with 'Home', 'News', 'Funding', 'Projects', 'Results', 'Partners', and 'Go local' buttons, and a 'Share' button. A search bar is located on the right side of this bar.

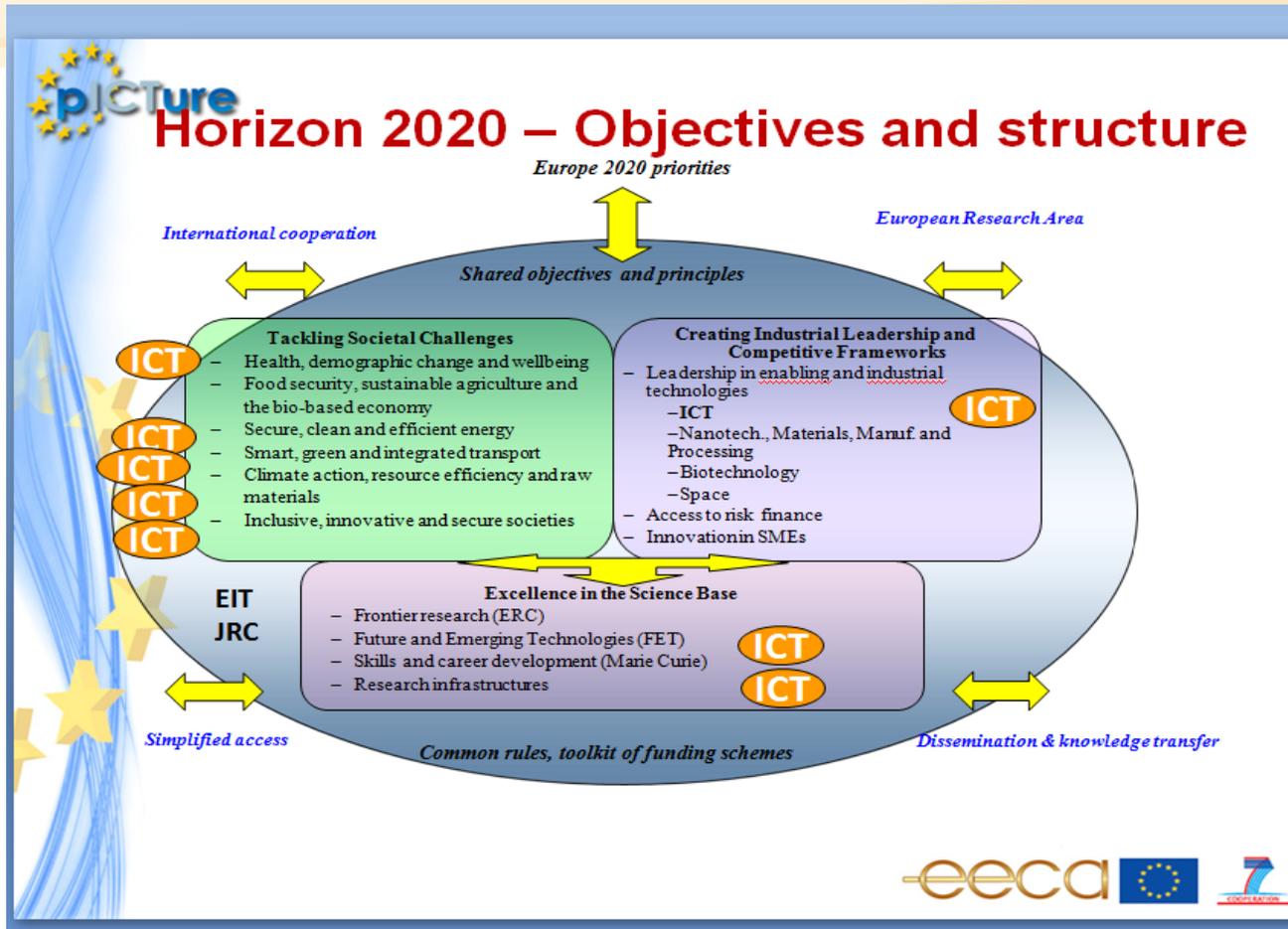
The main content area is titled 'Seventh Framework Programme (FP7)'. It includes a search bar with the text 'Search all CORDIS' and a 'Search' button. Below the search bar are links for 'New Search (Beta)', 'Map Search', and 'Advanced Search'. A 'Quick Links' dropdown menu is also visible.

The central part of the page features a grid of colored boxes representing different FP7 themes: 'Cooperation' (red), 'Ideas' (orange), 'People' (purple), 'Capacities' (pink), 'Euratom' (green), and 'JRC' (blue). Each box is accompanied by a small image related to the theme.

On the left side, there is a vertical list of links for navigation: 'FP7 Home', 'FP7 newsroom', 'Understand FP7', 'Participate in FP7', 'Find a call (Participant Portal)', 'Register your organisation', 'Prepare and Submit Proposals (EPSS)', 'Get support', 'Find project partners', 'Find a project', 'Find a document', and 'Register as an Expert (EMM)'. On the right side, there is a section titled 'What type of user are you?' with a list of participant types: 'Private company', 'Public organisation', 'Individual researchers', and 'Outside the EU'. Below this is a 'News highlights' section with the headline 'Largest number of calls ever for next round of FP7' and a date of '2012-07-10'. At the bottom right, there is a section for 'OLAF' with the headline 'To report suspected fraud involving money paid out by the EU'.



H2020 program



Priorities of Industrial Leadership

- **Industrial Leadership aims to speed up development of the technologies and innovations that will underpin tomorrow's businesses and help innovative European SME's to grow into world-leading companies.**
- **It consists of the following objectives:**
 - **Information & Communication Technologies (ICT)**
 - **Nanotechnology**
 - **Advanced materials**
 - **Biotechnology**
 - **Advanced manufacturing and processing**
 - **Space**



General Aims of Horizon 2020

Total cost of H2020 program is 80 billion EUR

- **Excellent science → 24 441 million EUR**
- **Industrial leadership → 17 016 million EUR**
- **Societal challenges → 29 679 million EUR**

The main goal is to increase GDP on R&D up to 3% by 2020

- **To direct at least 20% of the H2020 budget to climate - related objectives**
- **To significantly increase participation of and support to SME's (15% of the budget in „Leadership in enabling and industrial technologies“- LEIT and „Societal Challenges“)**



Partner Search Program

The name of the project is: Idealist 2018 (Transnational Cooperation among ICT NCPs).

Project web site: www.ideal-ist.eu

In IDEALIST are united ICT NCPs from 35 countries, among them is ICARTI from Georgia.

All IDEALIST projects had the same coordinator – German DLR (air space institute).

At present coordinator is ISERD Company from Israel.





- > [View Partner Searches](#)
- > [Launch a New Partner Search](#)
- > [Opportunity finder](#)
- > [Find your Representative](#)

Ideal-ist addresses ICT companies and research organizations worldwide wishing to find project partners for a participation in the Horizon 2020 program of the European Commission. Ideal-ist offers a unique and quality-labelled Partner Search and other services helping to ease participation in Horizon 2020. Learn more [About ideal-ist](#)

Open calls [View All](#)

- > H2020 – EU-JAPAN – 2014
Close date: 10/04/2014
- > H2020 – FoF – 2014/2015
Close date: 20/03/2014
- > H2020-EINFRA-2014/2015
Close date: 02/09/2014
- > H2020-ENERGY-EE-2014/2015
Close date: 05/06/2014
- > H2020-ENERGY-LCE-2014/2015
Close date: 07/05/2014

Recently Published Partner Searches

- > PS-IT-89787: SPAIN-TING: Spacetime-Inspired Computing
- > PS-ES-89283: Knowledge as a Service: exploring the Big Data paradigm towards knowledge generation for smart and advanced technological applications
- > PS-ES-89830: MDE-Health
- > PS-IT-89363: single chip safety microsensors

[View All](#)

In QA process

- > PS-IT-89228: (RAFT) Using the RFID technology against the freight thefts along the supply chain
- > PS-NO-89154: Inclusive-MT
- > PS-NO-89152: Inclusive-MT

[View All](#)

ICT Events

[View All](#)

- > Towards 2020: New Horizons for RTD and Innovation in the Western Balkan Region
- > AAL-Forum 2014

ICT News

[View All](#)

- > First competitive call for experiment proposals under the European Clearing House for Open Robotics Development (EChORD++) project





QA label Partner search

PS ID	Proposal Name	Publish date	Call	Objective	Country	Quality Label	Status
PS-IT-89787	SPAIN-TING: Spacetime-Inspired Computing	13/03/2014	H2020-FETOPEN-2014/2015	FETOPEN 1 – 2014/2015: FET-Open research projects	Italy		Open
PS-ES-89283	Knowledge as a Service: exploring the Big Data paradigm towards knowledge generation for smart and advanced technological applications	07/03/2014	H2020-ICT-2014	ICT 15- 2014: Big Data and Open Data Innovation and take-up	Spain		Open
PS-ES-89830	MDE-Health	06/03/2014	H2020-HEALTH-PHC-2014/2015	PHC 26 – 2014: Self-management of health and disease: citizen engagement and mHealth	Spain		Open
PS-IT-89363	single chip safety microsensors	06/03/2014	H2020-ICT-2014	ICT 2- 2014: Smart System Integration	Italy		Open
PS-IT-89725	Phrase-based Ontology Enabled Multilingual Natural Language Machine Translation	06/03/2014	H2020-ICT-2014	ICT 17- 2014: Cracking the language barrier	Italy		Open
PS-AM-89835	Enhancing the security and efficiency in cloud applications by Polynomials and White-box encryption (POLYBOX).	05/03/2014	H2020-ICT-2014	ICT 32- 2014: Cybersecurity, Trustworthy ICT	Armenia		Open
PS-SI-89391	CryptoCloud	05/03/2014	H2020-ICT-2014	ICT 7- 2014: Advanced Cloud Infrastructures and Services	Slovenia		Closed
PS-GR-89705	Intelligent Routing in real-time environment	28/02/2014	H2020-TRANSPORT-MG-2014/2015	MG.7.1-2014. Connectivity and information sharing for intelligent mobility	Greece		Open



SPAIN-TING: Spacetime-Inspired Computing



[Reply to partner search](#)

PROJECT OVERVIEW

PS ID: PS-IT-89787

Status: Open

Date of last Modification: 13/03/2014

Date of Publication: 13/03/2014

Call Identifier: H2020-FETOPEN-2014/2015

Objective: FETOPEN 1 – 2014/2015: FET-Open research projects

Funding Schemes: Research & Innovation Actions

Evaluation Scheme: One stage

Closure Date: 29/09/2015



Serching partners interested in multidisciplinary research on computational universe conjecture and emergent computational patterns in discrete models of spacetime

PROJECT DESCRIPTION

Proposal Outline:

Investigating the clever solutions invented by nature, in several billion years of evolution, for supporting life processes in the biosphere, is, today, a well consolidated practice in multi-disciplinary research areas such as bio-inspired computing, whose benefits in terms of technological innovation are already being delivered.

Project SPAIN-TING starts from the basic and highly controversial assumptions that (i) Nature is fundamentally computational, meaning that the complexity observed in the Universe is the manifestation of the emergent properties of pure information processing activities; and, more crucial, that (ii) computation occurs at all levels, down to the physical level of subatomic particles, and below. Not only 'life is evolving software' (as recently suggested by G. Chaitin), but spacetime itself, intended as the ultimate, discrete fabric of the cosmos, computes.

The conjecture of a discrete, network-based, algorithmic spacetime can be naturally placed in the context of established fundamental physics research (and quantum gravity), and dialogue with efforts in that area (e.g. with the Causal Set Program) is useful, but we expect contributions also from the fields of theoretical and evolutionary biology, of complex networks, and others. The most ambitious and visionary objective of this project is to open a path toward the identification, crucially by massive simulation, of some of the 'clever' computing solutions that may be hidden at the lowest scales (Planck, presumably) of the physical universe, in view of their technological exploitation in the form of spacetime-inspired computing.

PARTNER PROFILE SOUGHT

Required skills and Expertise:

We look for individual researchers, or groups, with the following skills:

- Discrete models of spacetime (Causal sets, Causal Dynamical Triangulations, Spin Networks, NKS), Physics of spacetime (Lorentz metrics and invariance, Minkowski and de Sitter space,...).

Complex network science (scale free, percolation, ...).

- Computer science. Simple models of computation (Turing machines, cellular automata, boolean networks, graph rewriting systems, ...). Genetic algorithms. Massive parallel systems. Simulation of agent-based systems.

- Dynamical systems, chaos theory, self-organisation and emergence.

- Theoretical and evolutionary biology, artificial life (Kauffman, ...).

- Computational universe conjecture (Zuse, Fredkin, Wolfram, Lloyd, ...).

Description of work to be carried out by the partner(s) sought:

Theoretical research on, and massive computer simulation of algorithmic discrete models of spacetime satisfying key physical requirements (e.g. Lorentz-invariance); identification of emergent information-processing solutions in view of their technological exploitation.

Type of partner(s) sought:

Universities, public research institutions, research departments of private companies.

Looking for a Coordinator for your proposal:

No

PROPOSER INFORMATION

Organisation: CNR Italian National Research Council

Department:
ISTI Istituto Scienza e Tecnologie Informazione

Type of Organisation: Research Center

Country: Italy



Reply to partner search

Expression of Interest Form

Express Your Interest: insert your comments and data

 [Information on the PS](#)

Comments

Your Comments to the **Required Skills and Expertise** : *

Highlight your skills and expertise proving inference to those requested in this Partner Search

Your Comments to the **Work to be carried out by the partner(s) sought** : *

Highlight your capacity and resources available in carrying out the work requested

Your Comments to **Type of partner(s) sought** : *

Highlight that your profile matches the type of partner sought

List here very shortly your experience of working on EU Programmes, National Programmes and Publications: *

My organisation participated in an IST/ICT Project before

My organisation coordinated an IST/ICT Project before

Your Data

First Name: *

Last Name: *

Organisation: *

Type of Organisation: *

Department: *

Fax Number:

Phone Number:

Web Address:

City: *

Country: *

Street:

Postal code:

Email: *

Brokerage Events

- **In November 2013 IDEALIST organized Brokerage Event in Vilnius.**
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- **In October 2014 IDEALIST organized Brokerage Event in Florence (Italy).**
- **June 2015, EC funded NoGAP Project provided attendance of Georgian scientists-technologists on technology fair in Frankfurt, Germany.**



H2020 Key Drivers

- **Focusing on parts of the societal challenges with high potential for sustainable competitiveness, innovation and growth;**
- **Using dedicated measures to leverage and boost engagement of industry;**
- **Providing access to finance, which is an essential condition for successful innovation;**
- **Developing the new knowledge and contributing to skills, which underpin excellent research and innovation, and promoting EU excellence;**
- **Boosting the industrial deployment of enabling technologies;**
- **Addressing the research and innovation divide;**
- **Supporting strong partnership with Member States;**
- **Ensuring a strategic approach to international cooperation, to facilitate access to the best researchers and the best sources of expertise globally.**
- **FP7 and now H2020 are devoted to the creation and development of the European Technology Platforms (ETPs).**
- **At present there are 35 technology platforms in Europe.**
ICT technology platforms: NEM, NESSI, Net!works and Photonics21.



Contact Information

Dr. Givi Kochoradze

Executive Director of ICARTI

Tel/FAX: 995 32 2362003

Mob. 995 599 292516

E- mail: gcp@ip.osgf.ge

