

GIANT | HIGH LEVEL FORUM

Leading Innovation Ecosystems



2014

Promising Innovation Areas

Grenoble, September 29–30, 2014

Rhône-Alpes Région



GIANT
INNOVATION CAMPUS

GIANT | HIGH LEVEL FORUM

Leading Innovation Ecosystems

An **international forum** hosted by the **GIANT** Innovation Campus



The High Level Forum was initiated by Jean Therme, Director of Technological Research CEA, CEA Tech. This annual event is attended by an international community of decision makers from the worlds of higher education, research, and industry, as well as civic and political leaders.

With each passing year, the High Level Forum—which now counts 17 participating innovation campuses—has earned increasing recognition as a truly remarkable international event.

The High Level Forum's objectives are to:

- encourage and strengthen cooperation between the world's most powerful innovation ecosystems, and
- provide a forum for developing common strategies for maximizing the social and economic benefits of participating campuses' activities.

Montreal
Harwell/Oxford
Chicago
Stanford
North Carolina
Atlanta
Pasadena
Hsinchu



The High Level Forum is a Grenoble, France-based event hosted off-site at a partner campus every other year:

- **2012** - GIANT Campus, Grenoble, France
Topic: Research and innovation policies and governance and financing of innovation ecosystems
Participants: 11 countries, 13 delegations
- **2013** - Caltech Campus, Pasadena, CA, United States
Topic: Commercialization of research results and transfer of technologies
Participants: 8 countries, 13 delegations
- **2014** - GIANT Campus, Grenoble, France
Topic: Promising innovation areas
Participants: 12 countries, 17 delegations
- The 2015 High Level Forum will be held in October in Tsukuba, Japan.

Grenoble

Milano

Lausanne

Dresden

Warsaw

Haifa

Thuwal

Tsukuba

Daejeon



The High Level Forum 2014: Promising innovation areas

Program



Grenoble, France Mayor **Eric Piolle** kicked off the High Level Forum 2014 by urging the attendees to make sure that innovation is used to make progress on the world's major societal issues.



Jean Therme, Director of Technological Research CEA, CEA Tech and Deputy Director for Renewable Energies, CEA, touched on milestones that have marked the development of the GIANT Campus since 2012 and gave an update on the campus' three centers for applied research (MINATEC, GreEn, and NanoBio), basic research (EPN Science Campus, Institut Néel-CNRS, and INAC), and technology management (Grenoble Ecole de Management).



In his remarks, **Dr. Alim-Louis Benabid** (an internationally-renowned neurosurgeon, Founder and Chairman of the Board of Clinathec-The Edmond J. Safra Biomedical Research Center, and winner of the 2014 Lasker Award and the 2015 Breakthrough Prize), underscored two aspects of innovation that were addressed throughout the High Level Forum talks:

• New organizational strategies for innovation ecosystems

Introduction



Richard Dasher

*Director, US-Asia Technology Management Center
Executive Director, Center for Integrated Systems
Consulting Professor, Stanford University*

Speakers



Moshe Sidi

Senior Executive Vice President, Technion



Stephen E. Cross

Executive Vice President, Georgia Institute of Technology



Kenichi Ichihara

Mayor, Tsukuba



Michiharu Nakamura

*Chairman, Tsukuba Global
Innovation Promotion Agency*

Facilitator



Jean-Charles Guibert

Director, Minathec, CEA Tech

• The impact of the digital transition

Introduction



Jean-Louis Gassée

Venture Partner, Allegis Capital, Palo Alto

Speakers



Charles Elachi

Director, Jet Propulsion Laboratory, Pasadena



Ollivier Dyens

Deputy Provost, Mc Gill University, Montreal



Andrea Cuomo

Executive Vice President, ST Microelectronics

Facilitator



Gabriel Crean

Director, European Affairs, CEA Tech

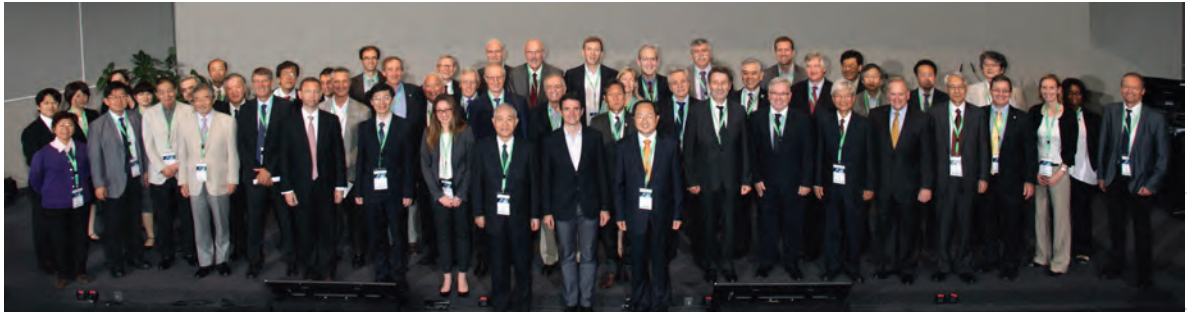
Tsukuba, Japan Mayor **Kenichi Ichihara** and representatives of the Tsukuba innovation ecosystem concluded the High Level Forum by inviting the participants to attend next year's edition in Tsukuba.

Highlights



by Marcel Morabito
*Senior Advisor to CEA Tech
Coordinator, High Level Forum
Professor, Sciences Po Paris*

- The digital revolution is speeding transformations that will have far-reaching impacts on our economies and societies. This environment calls for new behaviors. In other words, we must “adapt and be creative, or die”.
- If we are to win the digital revolution—or even come out of it alive—we must focus on so-called “exponential” projects. These are projects that offer strong potential, whether it is in terms of disseminating a new technology, product, or service, generating savings, or increasing revenue. Only the most disruptive—and, therefore, the riskiest—ideas can drive the emergence of these “exponential” projects.
- The talks at the High Level Forum 2014 made one point very clear: our innovation ecosystems—whatever their unique drivers and objectives are—will be called upon to play a decisive role in this new environment. These ecosystems’ start-ups and technological research centers will effectively boost the competitiveness of their members’ traditional lines of business, by:
 - giving “traditional” businesses access to value-enhancing innovations, and
 - creating an environment in which stakeholders can work together to facilitate the emergence of “exponential” projects.



Conclusions and outlook



by Jean-Daniel Tordjman

Senior Advisor to CEA Tech

President of the Ambassadors' Club

Former Ambassador of the French Competitive Cluster Network

If we are to work together, we need trust. We need communication. We need to get to know each other better. And each year—2012 and 2014 in Grenoble and 2013 in Pasadena—the High Level Forum has let us work towards this goal that we all share. We have built a friendly, **yet high-level network we can all count on, and that is crucial.**

Today's scientists are city-dwellers—much like the rest of the global population, which will be 69% urban by the end of this century. And, **from Tsukuba's innovative city to the redevelopment of Roosevelt Island in New York (a project The Technion – Israel Institute of Technology is involved in) and Grenoble's expansive urban redevelopment program driven by GIANT**, the vast majority of projects discussed at the 2014 High Level Forum are helping make our cities better.

What Klaus Schwab has often said about Davos—that if you come away with even one new idea or contact, it was worth the trip—is also true of the High Level Forum. **We are all facing similar—if not the same—issues. Which means that we can all benefit from each other's experiences. My feeling is that we all come away with much more than a new idea or a new contact. And that is what makes the High Level Forum such a valuable opportunity.**

And we can be sure that the **High Level Forum 2015** in Tsukuba will mark another major step toward an even stronger global network.

The aim of the GIANT campus

In Grenoble, at the heart of the French Alps, the GIANT partnership is forging dynamic new links between research and industry to foster the technological breakthroughs of the future.

The aim of the GIANT project is to respond to major challenges confronting our society today, such as:

communication technologies, renewable energies and environmental problems, bioscience and healthcare.

Such challenges require the regrouping of people and means in a coherent environment that favours multidisciplinary, exchange, confrontation, reactivity, diffusion of knowledge and sharing of skills.

The GIANT Innovation Campus is located in the 250-hectare Presqu'île scientifique district. Backed by local and regional government agencies and officials, the campus is home to eight highly-innovative institutions:

- from the academic world
 - Grenoble Ecole de Management (Grenoble EM)
 - Grenoble Institute of Technology (Grenoble INP)
 - the University Joseph Fourier (UJF)
- major French research institutions
 - Commissariat à l'énergie atomique et aux énergies alternatives (CEA)
 - Centre National de la Recherche Scientifique (CNRS)
- leading European laboratories
 - European synchrotron radiation facility (ESRF light source)
 - Institut Laue-Langevin (ILL neutron source)
 - European Molecular Biology Laboratory (EMBL for molecular biology)

