

"Carnot institutes step up their international deployment"

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Building from 10 years of success at the national level, the Carnot institutes network is now organising to expand its partnership research offering at the international level and better support to companies operating on increasingly global markets. One of the aims of this new deployment effort is to heighten its presence in European projects, strengthen its scientific relationships with the international research community and, of course, bring growth to its partnership R&D for enterprises at the international level.

The network already enjoys a strong international foothold

Through some twenty affiliates or offices directly present on-site, the Carnot institutes network already has locations across the world. Its extensive involvement in research institute networks such as CLORA and EARTO in Europe, as well as multiple international associations (industrial, scientific, etc.) tells of its desire to have a bearing on the global scene.

As to the figures, they speak for themselves: in 2014, Carnot institutes recorded 75 M€ in R&D contracts directly financed by companies based abroad, in addition to which come 110 M€ in revenue from collaborative European research projects. This brought total revenue from partnership-based research between the Carnot Network and international socio-economic players to nearly 200 M€, or more than 20% of partnership revenue from the Carnot institutes network.

A "Carnot Europe" Group was specially created in 2013 to accelerate the participation of Carnot institutes in European programs (Horizon 2020, in particular).

In addition, the Consortium [GLOBAL CARE Initiative](#), which has grouped together the 5 Carnot institutes dedicated to human health since 2013, in order to pool their action internationally, show just how much potential the network holds: meetings have been held with more than 250 innovative companies outside France, and proved the foundation for in-depth discussions in the United States, Asia and Europe.

Stepping Up Efforts to Develop Internationally

In order to support and better promote its international partnership research activities, the Carnot institutes network is now rolling out a coordinated and pooled action plan.

The first step was to establish the organisation principles and targeted communication needed and to share experience and information within the network about the opportunities and features specific to the various countries and geographic zones across the world.

Also required was a ramp-up of the joint initiatives underway in order to allow better participation in international collaborative projects and especially in European programs.

The final component was dedicated to resource-sharing and improving capacity to run the integrated offer put together in the main economic sectors at the international level, in order to provide a more global response to companies' R&D needs.

In the words of Alain Duprey, Managing Director, *Association des instituts Carnot* :

"After 10 years in existence, the Carnot institutes network has now gained the maturity needed to expand its activities across the world and become known and recognised as a major global player in Corporate Research and Innovation". Partnership research at the international level is an outstanding development opportunity for Carnot institutes. By strengthening partnerships with our counterparts in research abroad and adjusting our research offerings to meet the demands of increasingly globalised markets, we will be able to offer more competitive and well-attuned responses, both to the innovation requirements of enterprises at the global level as to the international aspirations of French companies."

About the Carnot institutes Network

Carnot institutes, a technology-based growth hub

Carnot institutes are public research structures, accredited by the Ministry of Research following a highly-selective review process. Each Carnot institute makes far-reaching commitments in order to develop their partnership research : this implies R&D work in its laboratories enabling innovation in companies, from SMEs to major corporations. The aim is to boost the economic impact of Carnot institutes with companies, in terms of job creation, sales revenue nationally and on the export market and, thus, competitiveness.

Structured as a network in order to take full advantage of synergies, and working in constant contact with companies, Carnot institutes run proactive needs-based scientific sourcing. As such, they are able to boast a wide range of skills, which they use to anticipate and respond - professionally and at every stage of partnership - to the R&I needs of companies in the majority of business sectors.

With 27 000 research professionals, Carnot institutes serve 55% of the R&D contracts outsourced by public research companies, with only 15% of the human resources in public research.

Carnot institutes are recognised for the central part they are playing in the turnaround visible across French industry:

- a steadily growing number of research contracts financed by companies; a 51% increase in the total value of partnership research contracts with companies between 2010 and 2013, with a special focus on SMEs,
- each day, over €1.3 billion in research projects entrusted by industrial partners,
- research partnerships with more than 2,000 companies each year, including 900 SMEs,
- 2,600 young PhD holders, each year, trained in the cutting-edge professions which industry needs,
- a strong anchoring in the local communities, with institutes across the regions, working on the very ground where the Research & Innovation ecosystem players are found.

The Carnot system is run by the Ministry of Higher Education and Research and is managed by the National Research Agency. The **34 Carnot institutes** , found all across France, are federated under "*Association des instituts Carnot*", in charge of coordinating and promoting the network.

For more information: www.instituts-carnot.eu
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