Contract N° 257964

NANOTEC
Ecosystems Technology and Design for Nanoelectronics

Coordination Action
Information and Communication Technologies

Deliverable D 6.1
Press Release at project launch

Due date of deliverable: M2
Completion date: M4

Start date of project: 1 September 2010 Duration: 30 Months

Organisation name of lead contractor for this deliverable: Catalan Institute of Nanotechnology

Approval

WP Leader	☒	**Coordinator**	☒

Project co-funded by the European Commission within the Seventh Framework Programme (2007-2012)		
Dissemination Level		
PU	Public	X
PP	Restricted to other programme participants (including the Commission Services)	
RE	Restricted to a group specified by the consortium (including the Commission	
CO	Confidential, only for members of the consortium (including the Commission Services)	

Partner	Please, give a short description (1-3 sentences) of partners contribution to this deliverable
ICN	Gather inputs from all partners, write press release and upload it on several online media
All partners	Send inputs for press release

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1. Aim of this task

The purpose of writing and circulating a press release on the start of the project was to enable external professionals working in nanoelectronics to find out about the NANO-TEC initiative, and hopefully to trigger out curiosity in following the activities of this coordination action.

2. Work done

The first draft of the press release was circulated among all partners by the coordinator before the kick-off meeting. This enabled discussion on the document during the same event, and led all partners to send their feedback right afterwards. The final resulting press release is annexed to this deliverable report, and was sent to the following online portals:

- Cordis wire: http://cordis.europa.eu/wire/index.cfm?fuseaction=article.Detail&rcn=24912

- NANO-TEC press releases area: https://www.fp7-nanotec.eu/node/419

Moreover, the final press release was sent to all partners, asking them to upload it on their respective news sections, and to circulate it to external collaborators potentially interested in the project. This resulted in several links on the partners' websites, as exemplified below.

- http://www.icn.cat/index.php/en/funded-projects/projects/project/nanotec-ecosystems-technology-and-design-for-nanoelectronics

- http://nanolab.epfl.ch/#NANOTEC

The press release is annexed to this deliverable report. The task was successfully completed: in total, the press release page was visited 50 times, with an average of 3 different users per day throughout the monitoring period, which lasted from March 2011 until January 2012.

Annex 1: NANO-TEC start press release

BUILDING a NANOELECTRONICS DESIGN and TECHNOLOGY COMMUNITY in EUROPE

Most experts agree that scaling CMOS technology is coming to an end in the next decades. The question asked are then what comes after? Which kind of technology can be used instead? Will Europe play an important role in technologies beyond CMOS? Will the European industry have a significant market share using emerging technologies? And if not, what will happen to European industries in, for example, the automotive and energy sectors, which are orders of magnitude bigger and are heavily dependent on electronic system competences? Will they shrink and fade away due to the lack of native innovation? Estimating the importance of future Nanoelectronics to calculate the risk for its dependable markets is like looking at the tip of an iceberg to calculate the risks of a ship wreckage.

To prepare for the future, Europe needs a strong R&D competence in Electronic System Design to integrate technology in emerging design processes. To this end, the European Commission is funding the Coordination Action project NANO-TEC (ICT-2010-257964) where leading stakeholders in Nanotechnologies R&D have come together to establish a joint design & technology community in Nanoelectronics in Europe. This community will have to face the new challenges of technology and the concomitant engineering questions towards novel industrial products emanating initially from academic research.

For the next generation of devices and systems, design and technology go hand in hand in industrial R&D. However, for future generations in nanoelectronics, design and technology are not sufficiently integrated to ensure a fast uptake should the proof-of-concept stage succeed. The capability of European industry to transfer and exploit research results in nanoelectronics depends on the availability of integrated solutions provided by, for example, the design and technology communities. There are fascinating ground-breaking results from research based on, for example, single atoms, molecules, semiconductor nanostructures, graphene and DNA strands, to name just a few. However, these have to be integrated into either existing or future system platforms, and usually meet design constrains at this stage, as an afterthought. The objective of the Coordination Action “Ecosystems Technology and Design for Nanoelectronics” (NANO-TEC) is to address this mismatch by bringing design and technology together at an earlier stage in research. NANO-TEC aims to increase the probability of uptake by industry of the results of academic research and to foster a new way of collaboration within the European Research Area.

A special focus will be placed on raising awareness among public authorities on the importance of such effort. One of the activities of NANO-TEC will be a series of workshops, each with a different focus and objective designed to become familiar with the challenges faced by the science underpinning future nanoelectronics and the concurrent engineering design questions. The workshops will count with experts from the Americas, Asia and Europe. The topics of the workshop will range from molecular electronics, through silicon-based electronics and heterogeneous integration, all the way to spintronics and quantum information processing in the first instance.

The NANO-TEC consortium will work closely with the Scientific Community Council of industry-led ENIAC Technology Platform towards a position paper in Emerging Nanoelectronics. NANO-TEC will

develop a state-of-the-art web platform for working groups, facilitating discussions, meetings, communications and access to an information repository. It will form an interface to disseminate the project results to the public and to experts in the field. All together, these initiatives will constitute a set of working tools for experts in nanoelectronics, who will gather in specialist groups, thus becoming a reference point to explore the needs of future nanoelectronics in Europe.

About NANO-TEC:

NANO-TEC is led by the Catalan Institute of Nanotechnology and is funded by the ICT theme of the 7th Framework Programme of the European Commission. There are 11 partners in the NANO-TEC consortium. These other 10 partners are Valtion Teknillinen Tutkimuskeskus VTT from Finland, German Edacentrum GmbH and Foschungszentrum Juelich GmbH, Chalmers Technical University of Sweden, the Polish Institute of Electron Technology, Delft University of Technology from the Netherlands, the Greek National Centre for Scientific Research "Demokritos", Tyndall National Institute from Ireland, the Ecole Politechnique Fédérale de Lausanne and the French Centre National de la Recherche Scientifique CNRS. All the partners are experienced in working in large consortia distributed over the European Union and contribute with their organisational and integrative expertise together with visionary research and ambitious goals in nanoelectronics. The scientific and social challenges of NANO-TEC can only be achieved with a constellation such as this, aided by global experts and strong links to industry to ensure a broad coverage of its topic at European level.

NANOTEC website: www.fp7-NANOTEC.eu
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