

Editorial

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Photonics Roadmap Now Online

The MONA project (Merging Optics and Nanotechnologies) has been launched in June 2005 by the European Commission within its 6th Framework Programme in order to bridge the gap between photonics and nanotechnologies. The ultimate objective of the project is the development of a European **roadmap** for photonics and nanotechnologies.

After significant achievements realized during the first year the project has been mostly dedicated to the building of the nanophotonics/nanotechnology roadmap and its dissemination. This roadmap will hopefully be used for defining the future priorities of European RTD in the field of nanophotonics.

During the 1st MONA symposium/2nd MONA workshop which took place in Grenoble, France on November 28-29, 2006 more than 100 enthusiastic experts in Nanophotonics, coming from 13 European countries discussed and updated a first draft of the roadmap prepared by the MONA-consortium.

On January 25, 2007 the MONA workshop on Building a Nanophotonics Roadmap took place in San Jose, California. This Roadmapping Workshop specifically aimed for international input and coordination concerning: Photonic-Electronic convergence, manufacturing on a commercial scale, market development and international cooperation.

The results of both of these workshops have been integrated into the roadmap's drafts by the MONA consortium partners and sent to a list of European experts from the Nanophotonics academy and industry to collect their remarks and suggestions.

We are now ready to present this work to the entire photonics community and search for their feedback. From now on you will have the possibility to find all relevant information about the Nanophotonics roadmaps on the MONA website: <http://www.ist-mona.org> and e-mail your comments and suggestions to the authors. Deadline for your suggestions is June 15, 2007 . On page 2, you will find the user's guide to access the roadmap and be part of the project.

This roadmap is yours; we're looking forward to your participation and input.

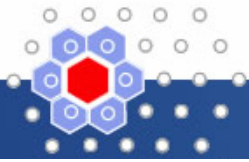
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Nanophotonics Roadmap Online: User's Guide

In May 2007 the visitors from the Nanophotonics community will have access on the MONA website to the roadmaps drafts created and updated by the MONA consortium. This tool has been implemented in order to get a feedback from the largest number of stakeholders possible.

How does it work?

Based on market study and technological inputs, the most relevant combinations of nanotechnologies / materials / applications have been identified.

The following diagram shows a list of the roadmaps available that can be downloaded from the MONA Website.

The interested visitor has then the opportunity to give his opinion, make remarks or suggestions and send it to the author of the roadmap.

Here are the 5 steps to participate:

1. Login to the MONA Website: <http://www.ist-mona.org>
2. Open the roadmap page, select the roadmap draft which is of interest to you and download the roadmap to have access to the document.
3. After having consulted the document, you may have comments or suggestions to be sent to the author of the roadmap. All you have to do is login by filling in the email address form.
4. You now have the possibility to select the roadmap draft of your choice by clicking on the blue bullet, then type your message and click on the "send" button. You can send an attached file too.
5. Your message and email address will be forwarded to the the author of the document as well as the project coordinator who will have the opportunity to discuss it with you and eventually integrate your remarks and suggestions to the final version of the roadmap.

You have an important part to play, don't miss this opportunity to give your opinion.

The final roadmap will be presented to the European Commission and will determine the future R&D priorities in the field of Nanophotonics. And more important, it will be broadly disseminated to the entire Nanophotonics community.

	Optical interconnects	Datacoms/ Telecoms	Lighting	Data storage	Imaging	Sensors	Displays	Photo voltaics	Instrumentation / metrology
Semiconductor quantum dots & wires in Silicon including colloidal nanostructures									
Semiconductor quantum dots & wires in III-V including colloidal nanostructures									
Semiconductor quantum dots & wires in II-VI including colloidal nanostructures									
Plasmonics / metallic nanostructures including colloidal nanostructures (metal)									
Photonic Crystals / High index contrast nanostructures in silicon									
Photonic Crystals / High index contrast nanostructures in III-V									
Photonic Crystals / High index contrast nanostructures in other materials									
Organic nanostructures									
Carbon Nanotubes (CNT)									
Integration of nanophotonic materials/ structures with electronic ICs/Silicon Photonics									
Nanoparticles in glass or polymer									
Left-handed metamaterials									

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