



## NanoElectronics Roadmap for Europe: Identification and Dissemination

<b>D8.1</b>	<b>NEREID Advisory Committee</b>		
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### ABSTRACT:

This Deliverable reports on the proposed Advisory Committee of NEREID including both industry and academic leaders with competences in the fields of the roadmaps developed in the project but also with profiles corresponding to the application fields and social and business experiences. The Advisory Committee will meet annually and will provide written feedback to the NEREID consortium concerning: (i) the roadmap content, (ii) the format in which roadmap advances should be communicated to the specialists, society and political layers to maximize impact, (iii) future technical directions to follow, (iv) markets and business of high priority for Europe, and, (v) any other relevant feedback for better alignment with European and international initiatives. The feedback will be included in the annual report and will be communicated to the WP leaders for appropriate actions, when needed and possible.

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<sup>1</sup> PU = Public; CO = Confidential, only for members of the Consortium (including the EC services).

<sup>2</sup> R = Report; R+O = Report plus Other. Note: all "O" deliverables must be accompanied by a deliverable report.

<sup>3</sup> eg DX.Y\_name to the deliverable\_v0xx. v1 corresponds to the final release submitted to the EC.

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V1	01/03/2016	Final update	Final	EC
V2	01/09/2016	Update	Draft	internal
V3	06/09/2016	Final Update	Final	EC

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<sup>4</sup> Person from the lead beneficiary that is responsible for the deliverable.

<sup>5</sup> Person(s) from contributing partners for the deliverable.

<sup>6</sup> Typically person(s) with appropriate expertise to assess the deliverable quality.

<sup>7</sup> Status = "Draft"; "In Review"; "Released".

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## Executive Summary

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The Advisory Committee of NEREID includes high level representatives coming from both industry and academia with strong competences in the field of Nanoelectronics. A core activity of this Committee will be the international alignment of NEREID roadmaps with other initiatives, e.g. ITRS and IPWGN (International Planning Working Group for Nanoelectronics) activities. As the mission of the last one is to stimulate and enhance inter-regional cooperation in Nanoelectronics through information organization exchange, we do foresee some concrete exchanges between the two initiatives in terms of research vectors of international relevance and inter-regional cooperation examples in terms of roadmapping. The potential for interregional research calls on topics of common interest will be also investigated, and communicated to funding authorities.

Finally, this activity will allow to consolidate and harmonize some of the key messages, technical directions of high priority and recommendations resulting from technical roadmaps into a single European Technology Outlook for Nanoelectronics, with summaries written in non-technical language. This document will be provided to the parliamentary Science Commissions in the countries of the Consortium members and to the specialized commissions of the European Parliament. A close cooperation will take place with WP7 to optimize dissemination initiatives.

## Introduction

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This 2<sup>nd</sup> version of the Deliverable presents the updated proposal for the Advisory Committee of NEREID. It includes high level representatives and renowned experts coming from Industry and Academia from different regions. The Members cover all the main Technological domains of the Project and have a global vision of the future technologies and applications. They will allow the NEREID consortium to develop European roadmapping activities, taking into account the international trends and the growing markets.

This Advisory Committee could be updated if needed during the 3 years of the Project.

## Members of the Advisory Committee

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	<b>First name</b>	<b>Name</b>	<b>Expertise</b>	<b>Organisation</b>
1	Andreas	Wild	Chair of Advisory Committee	Past ECSEL and ENIAC JU Executive Director
2	Patrick	Cogez	Semiconductor technology	AENEAS Technical Program Manager
3	Robert	Plana	RF, Industry4.0	General Electric
4	Philip	Wong	Emerging devices	Stanford University
5	Max	Fleischer	Sensors and energy	Siemens
6	Jan	Rabaey	Low power design	UC Berkeley, USA
7	Peter	Ramm	Heterogeneous integration	EMTF Fraunhofer
8	Eric	Yeatman	Energy harvesting	Imperial College
9	Mart	Graef	Semiconductor technology	Delft University and Chairman of the AENEAS Scientific Council
10	Hiroshi	Iwai	Advanced nanoelectronic devices and materials	Tokyo Tech
11	Paolo	Gargini	Semiconductor technology	Stanford, USA
12	Jui-Lin (Ray)	Yang	Nanoelectronic applications and market trends	ITRI, Taiwan

## Conclusion

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In this Deliverable we have presented the proposed Advisory Committee of NEREID including both industry and academic leaders with competences in the fields of the roadmaps developed in the project but also with profiles corresponding to the application fields and social and business experiences. This Advisory Committee will meet annually and will provide written feedback to the NEREID consortium concerning: (i) the roadmap content, (ii) the format in which roadmap advances should be communicated to the specialists, society and political layers to maximize impact, (iii) future technical directions to follow, (iv) markets and business of high priority for Europe, and, (v) any other relevant feedback for better alignment with European and international initiatives. The feedback will be included in the annual report and will be communicated to the WP leaders for appropriate actions, when needed and possible. These activities will allow the NEREID consortium to develop European roadmapping activities, taking into account the international trends and the growing markets.