

# MASP: The Multi annual strategic plan of ENIAC

MASP will band together the Strategic Research Agenda of ENIAC with die Annual Workplan



**The Multi Annual Strategic Plan – also called as MASP – of the ENIAC Joint Undertaking (JU) will enable researchers of the Nanoelectronic community to plan their R&D project in line with the ENIAC calls for the next 3 years. MASP is intended to describe the target markets, technical challenges and the plan for implementation together with a view on what may be funded for the next 5 years. This article describes the MASP instrument and gives a short outlook on the next call for the work programme in 2009.**

## ENIAC targets society’s needs

Nanoelectronics provide intelligent solutions to meet many of our important social and economic needs. A key benefit of Nanoelectronics will be the feasibility of adding intelligence and interactivity to our everyday environments. To meet society’s needs there is a great demand for more and intelligent computing power into all the objects around us in our offices, our cars, our homes and elsewhere. At the same time, all these everyday items would be provided with sensory and response mechanisms to allow them to interact with us and our surroundings.

European leadership needs co-operation and interaction between all key players: European research centres, major producers of semiconductors, materials, equipment and applications, high technology small and medium-sized enterprises, national and regional authorities, universities and financial institutions. The European Technology Platform on Nanoelectronics and its governing structure European Nanoelectronics Initiative Advisory Council (ENIAC) have the mission to bring together all these leading players to develop and implement a coherent European vision, making the best use of European talent and infrastructures to ensure European leadership in shaping the future.

## What are the difference between SRA, MASP and AWP?

To reach the mission of ENIAC R&D, projects will do their research and development under the umbrella of the JU financed in a public private partnership. In contrast to CATRENE, ENIAC will announce yearly calls. Projects will submit their proposals referring to the technical objectives of the call. Three instruments have been established to break down the vision of ENIAC into a yearly work plan:

- » The ENIAC Strategic Research Agenda (SRA) is created through concentrated efforts from industry, academia und public authorities across Europe. It is launched to guarantee Europe the earliest access to leading edge integrated components and design skills for application in high technology products and services. It is the instrument to describe long-term objectives.
- » The regularly updated Multi Annual Strategic Plan (MASP) uses the SRA to explain the short- and medium-term technical objectives of R&D in the next years.

- » The Annual Work Programme (AWP) describes the content of the next call and is a “detailed subset” of the short-term objectives of MASP. R&D project consortia can check if their project proposals will fit into the next call.

## Technical objectives are split into Sub-Programmes

To be able to maintain consistency of the JU roadmap, topic selection within the MASP will be primarily along the axis of long-term societal needs and lead markets. The six societal segments identified in the ENIAC SRA are “Health and Wellness”, “Transport and Mobility”, “Security and Safety”, “Energy and Environment”, “Communication”, and “e-Society”, leading to segmentation in six application-specific Sub-Programmes. In addition, the technology domains “Design Methods and Tools”, and “Equipment and Materials” are two more cross-domain Sub-Programmes with dominant cross-application aspects, bringing the total to eight.

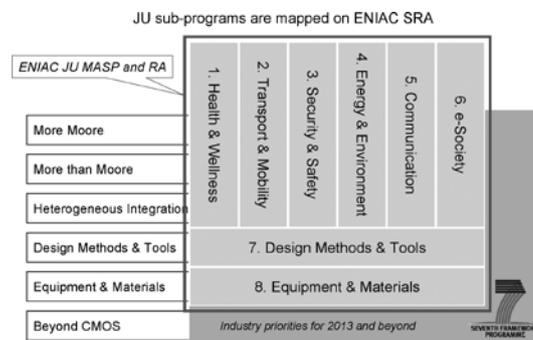


Figure E.01: Mapping the JU RA on the SRA technology domains

AENEAS is the non-profit industrial association that will continue the activities of the ENIAC platform and represent the nanoelectronics RTD partners in the JU. It will allow its members to participate in the Joint Technology Initiatives (JTI) and provide ENIAC with a legal backbone.

## Outlook

ENIAC plans the next R&D projects call in 2009 out of the following Sub-Programmes.

- » SP1: Health and Wellness
- » SP2: Transport and Mobility
- » SP6: e-Society
- » SP7: Design Methods and Tools for Nanoelectronics
- » SP8: Equipment and Materials for Nanoelectronics

## What inside a MASP?

The MASP will include the aspects of the AWP but is

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