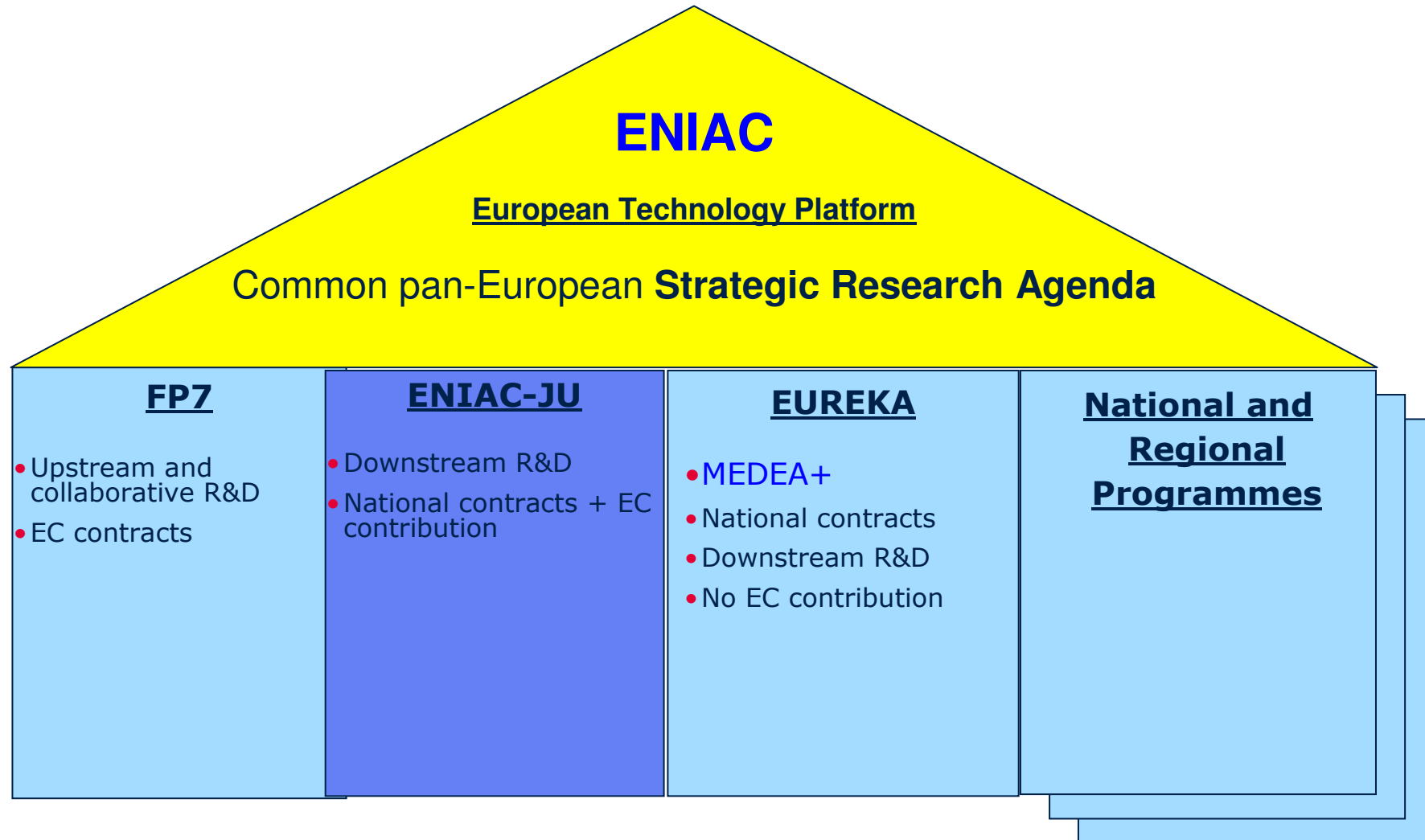


The Future of the ENIAC Platforms with JTI

Norbert Lehner,
Infineon Technologies AG, Germany

- n Future always starts with the past ...
- n The actual situation and status of ENIAC
- n The first call
- n Next steps and challenges



The Strategic Research Agenda becomes mature ...



November 2005

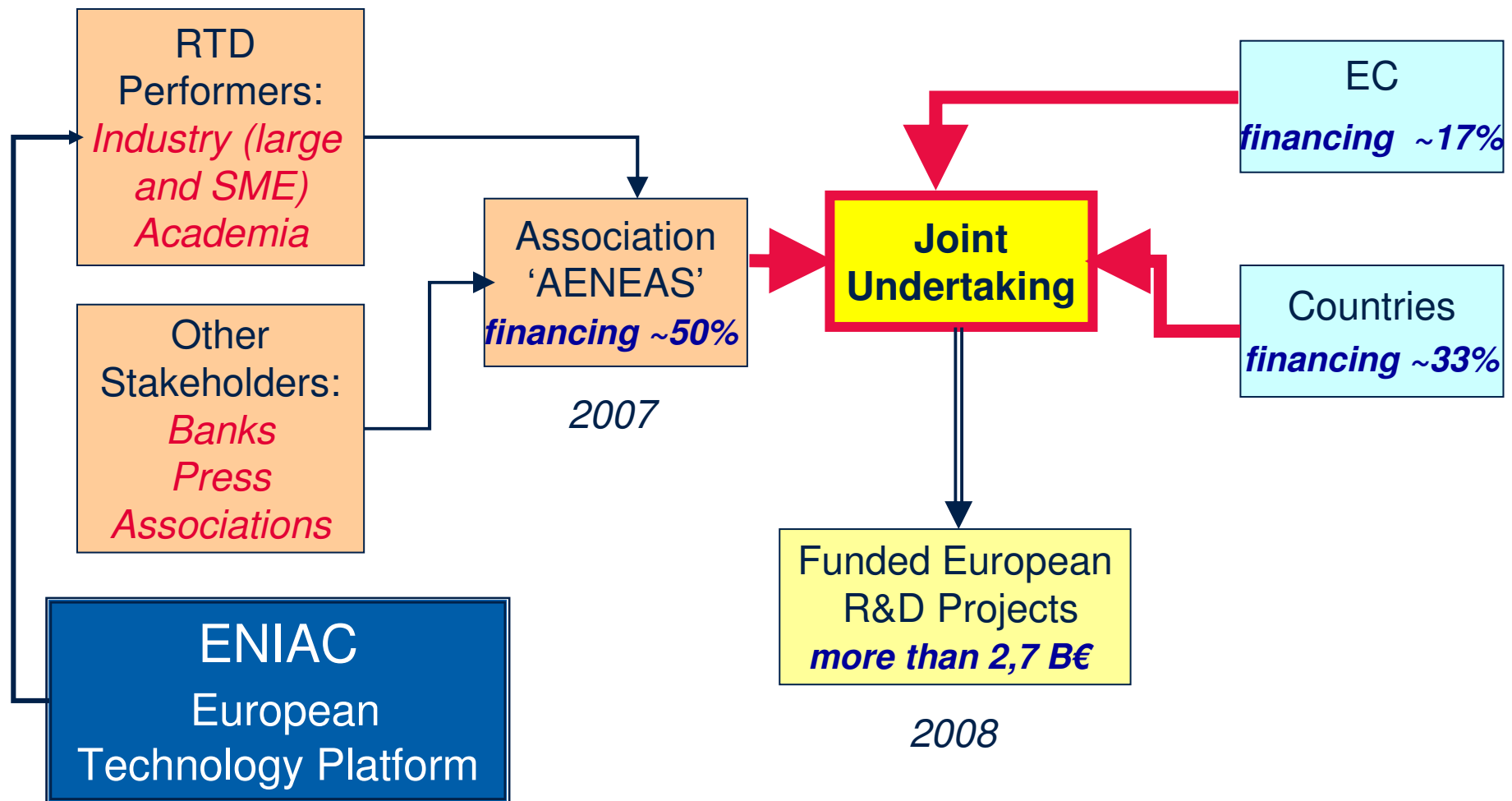


November 2006



November 2007

The new funding and co-operation instrument is the *Joint Technology Initiative* – a trilateral contract, based on the Association AENEAS 



∨ Establishment of the Association AENEAS:

AENEAS is a legal person, registered in Paris

The Article of Association and the Supplementary Agreement have been formulated in accordance with the targets of AENEAS (and ENIAC), the French law for associations (dated 1901) and our “twin” ARTEMISIA

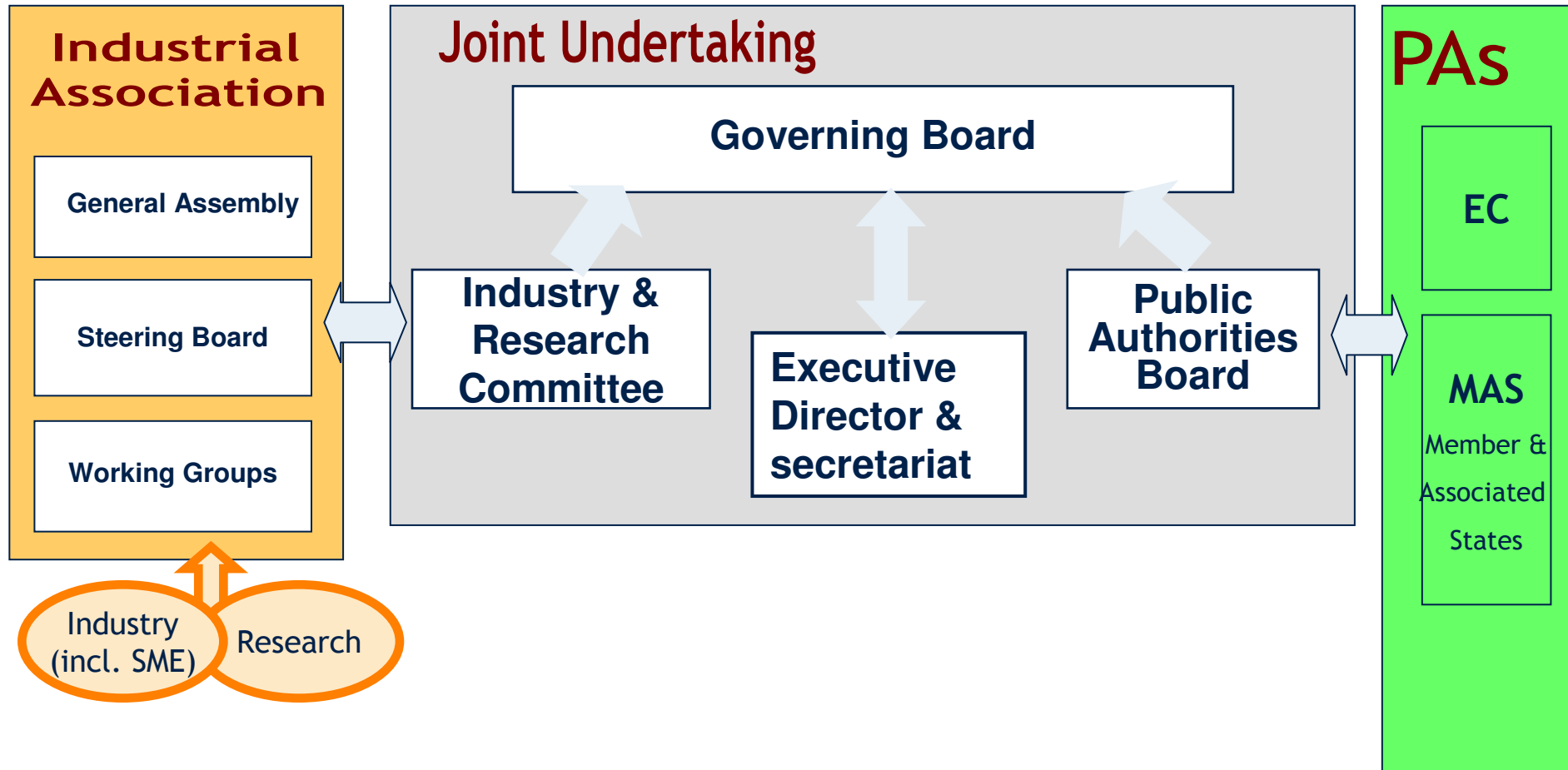
The Board, the President, the two Vice-Presidents, the Secretary and the Treasurer have been elected by the General Assembly

Three “Chambers” have been installed for

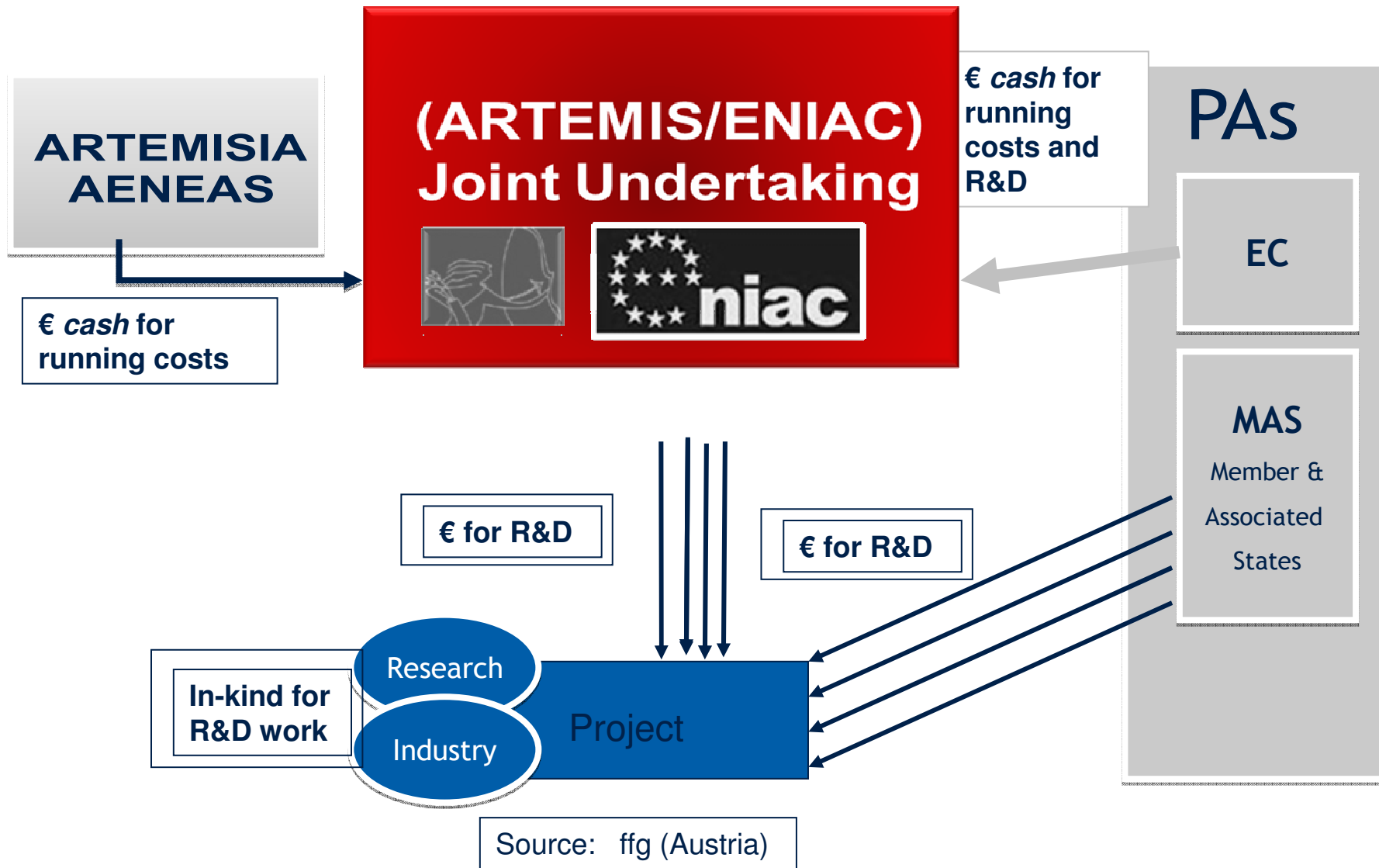
- large industry
- SME
- Academia

This allows all categories of members to align with each other and to formulate their specific wishes.

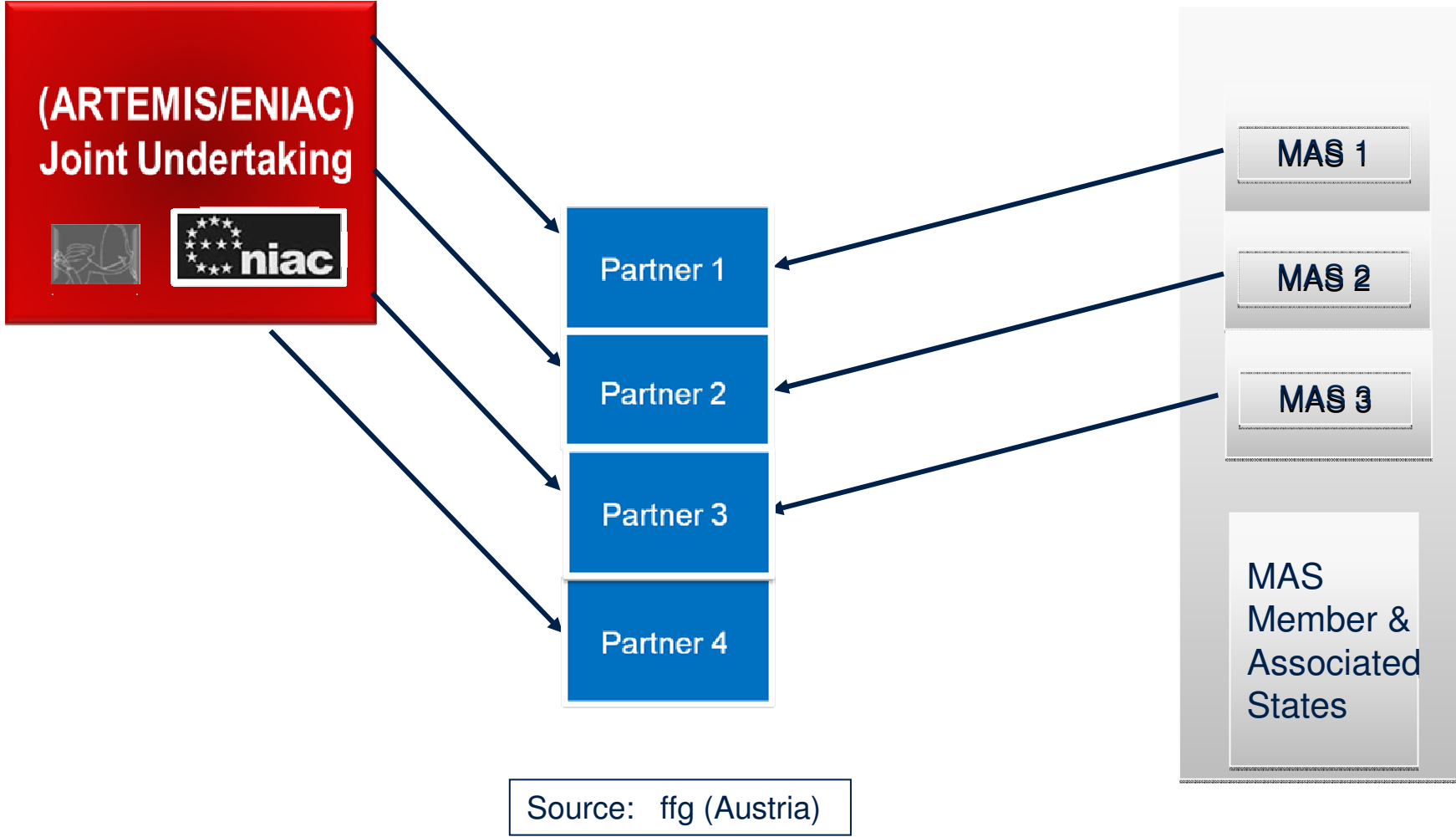
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Funding flow



Grant agreement establishment

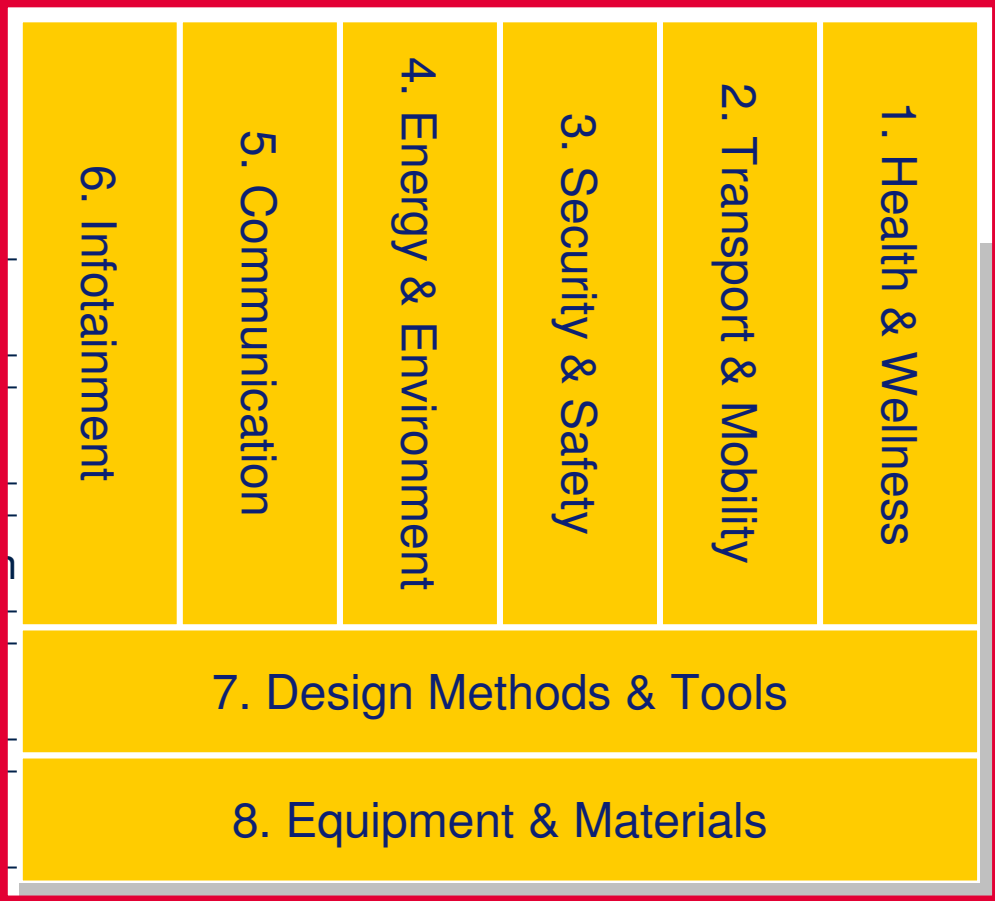


JU sub-program mapping on ENIAC SRA



ENIAC JU MASP and RA

- More Moore
- More than Moore
- Heterogeneous Integration
- Design Methods & Tools
- Equipment & Materials
- Beyond CMOS



Industry priorities for 2013 and beyond



n **Introduction**

- o ENIAC Strategic Research Agenda
- o ENIAC Joint Undertaking

n **Implementation strategy**

- o Scope and focus
- o Priorities and synergies

n **Programs**

- o Nanoelectronics for Health and Wellness
- o Nanoelectronics for Transport and Mobility
- o Nanoelectronics for Security and Safety
- o Nanoelectronics for Energy and Environment
- o Nanoelectronics for Communication
- o Nanoelectronics for Infotainment
- o Design Methods and Tools for Nanoelectronics
- o Equipment and Materials for Nanoelectronics

n **Preparing the roadmap**

- n The **Annual Workplan** is a subset of the Multi-Annual Strategic Plan
- n Selection of topics is done by IRC in consultation with PAB, using the following criteria
 - o Industry urgency
 - o Synergy with related other JTIs (ARTEMIS, Innovative Medicine, Clean Sky) and ETPs/clusters (EPoSS, Photonics21, CATRENE)
 - o Alignment with PA support
- n Targeting **vertically integrated projects** in **selected subprograms** leading to representative **demonstrators**
- n The Annual Workplans define the technical content of the JU Calls

2008	SP2. Nanoelectronics for Transport and Mobility SP3. Nanoelectronics for Security and Safety SP4. Nanoelectronics for Energy and Environment SP7. Design Methods and Tools for Nanoelectronics SP8. Equipment and Materials for Nanoelectronics
2009	SP1. Nanoelectronics for Health and Wellness SP5. Nanoelectronics for Communication SP6. Nanoelectronics for Infotainment SP7. Design Methods and Tools for Nanoelectronics SP8. Equipment and Materials for Nanoelectronics

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- n Member States: 58 M€
- n JU contribution: 32 M€
(55% of 58 M€)
- Total funding: 90 M€**
- n R&D actors: minimum 90 M€
(in kind)



Austria	4
Belgium	1.5
Czech Republic	1.5
Estonia	0
France	8
Germany	15
Greece	0.5
Hungary	1.32
Ireland	1
Italy	10
Netherlands	10
Norway	1.5
Poland	1
Portugal	0.5
Spain	1
Sweden	1
United Kingdom	0

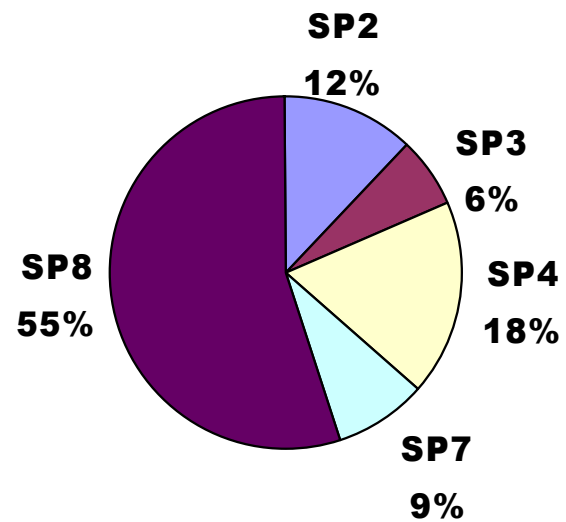
Call 1 text published on 8/5/2008,

Results ENIAC call 1 submission: facts and figures



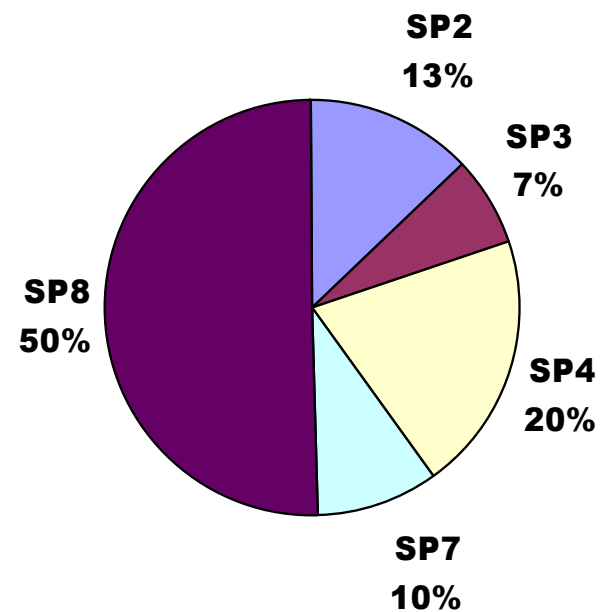
- n Proposals: 12 for a total amount of 427 M€
- n Requested funding: 193 M€
- n Member states involved: 20
- n Participation: 265 participations out of 167 different organisations
- n Industry participation: 56% from 94 different companies requesting 67% of funding
- n SME participation: 36 % of total participants (more than 60% of companies) deliver 22% of total person months requesting 14% of funding
- n Large companies: 20 % of total participants, deliver 54 % of labour, cover 63% of the total cost requesting 53 % of the total funding.
- n Universities, institutes,...: 44% of total participants, deliver 24 % of labour, cover 24 % of the total cost requesting 33 % of funding.
- n Average more than 20 participants and 35 M€ cost per proposal.
- n Most major actors in European semiconductor industry involved.

Total eligible costs



Total: 437 M€

Requested funding (EC + Nat)



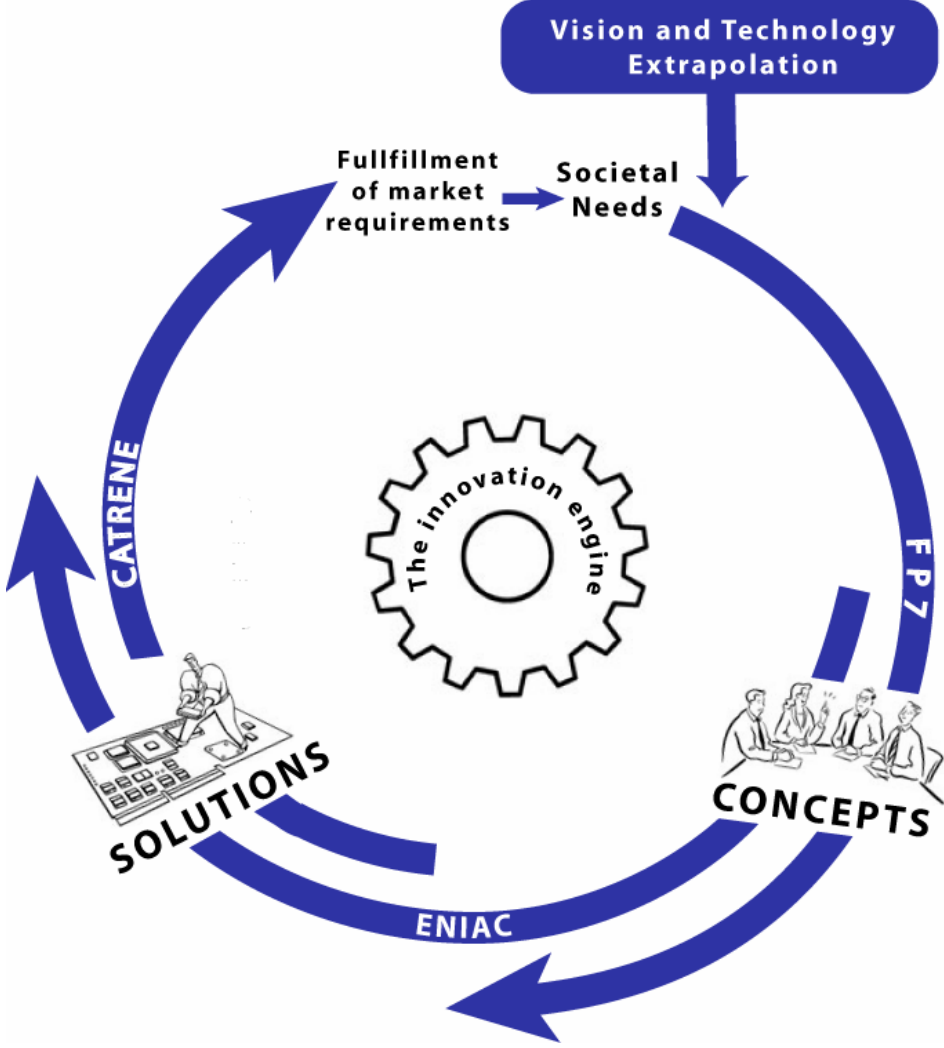
Total requested: 193 M€

- n More than 130 M€ for the car industry (SP 2 and SP4) with total 80 participants!
- n More than 100 M€ for lithography and metrology!
- n 25 M€ / 20 partners for energy reduction at home!
- n Components and technology for security of portable applications.
- n Manufacturing, design, SiP, packaging, integration, CNT

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- SRA revision next year
- Preparation of MASP - adopt end November
- Preparation of AWP - adopt end November
 - First ideas: SP Health, E-Society, Communication
 - Topics not covered in design, equipment and materials
 - New action for SMEs
 - (Questionair with AENEAS - lining up process & timing with the open call in CATRENE - open to all topics in White Book of high industrial and market relevance)
- Both Calls (ENIAC-CATRENE) expected February - March 2009

Synergy, overlap or competition? “The innovation engine”



Synergy, overlap or competition ? “The innovation engine”

