

FIT-IT Goes Europe



Die Gemeinsamen
Unternehmen
ARTEMIS / ENIAC



Teaser for Austrian Kick-off Event May, 30th, Vienna



Outline

1. Embedding context, History & Rationale
2. JU Details & Governance
3. Call 1: All you need to know: Financing, Funding cycles, Evaluation
4. Resources and Contacts



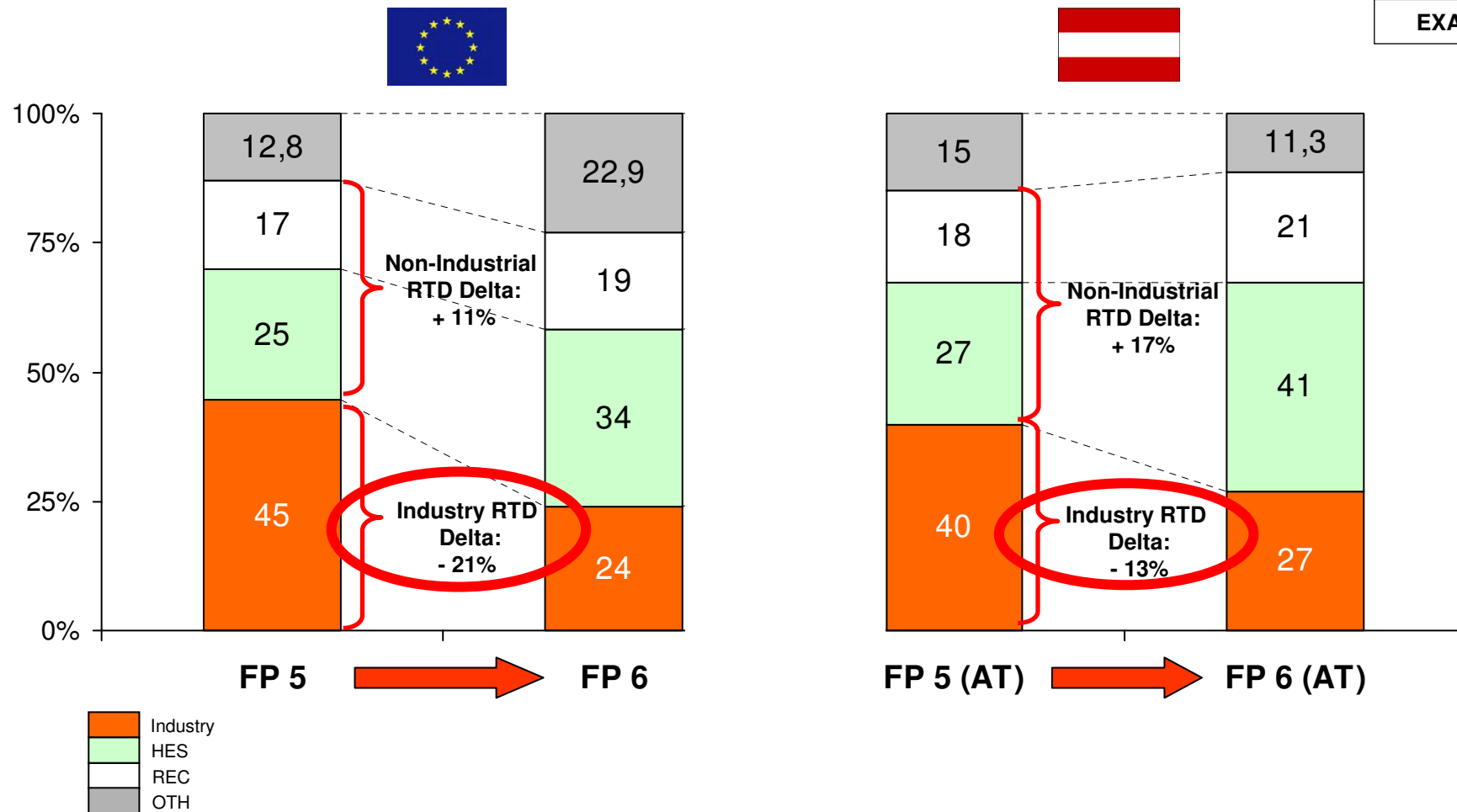
1. JU – and where it comes from...

Several Research Policy triggered causes



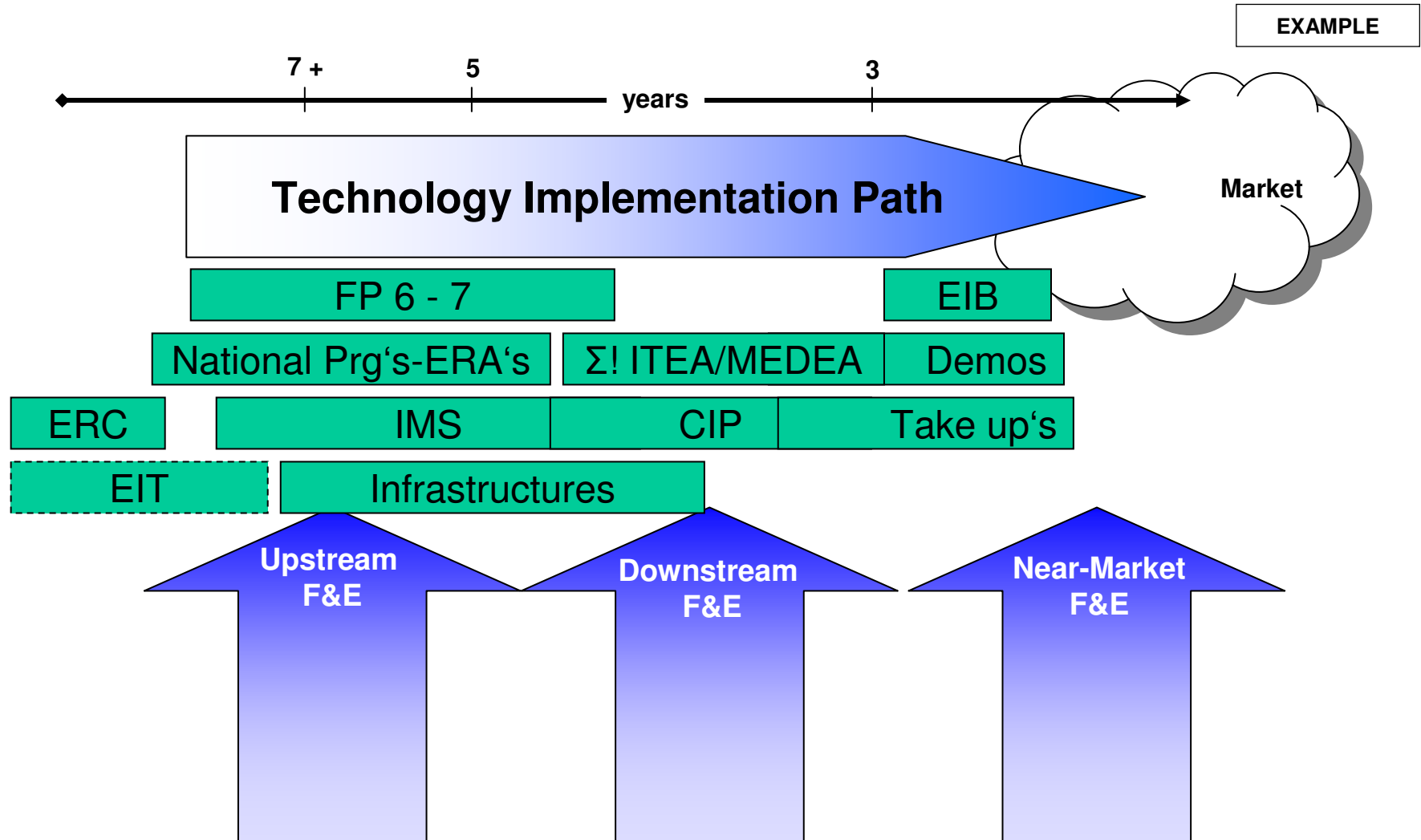
- FP 5 -> FP 6:
 - Decreasing Industry participation
 - Failed or fragmentary upscaling of project size
 - ETP-Hype
 - Lack of sectoral coherence in programme SO's
- Emergence of RTD-impact discussion (Lisbon!)
- ERA dynamics
- New awareness for Instrument Portfolio
- Sectoral global RTD competition (f.ex. offshoring)
- Historical $\Sigma!$ shortfalls

Decreasing FP's Industry Participation*

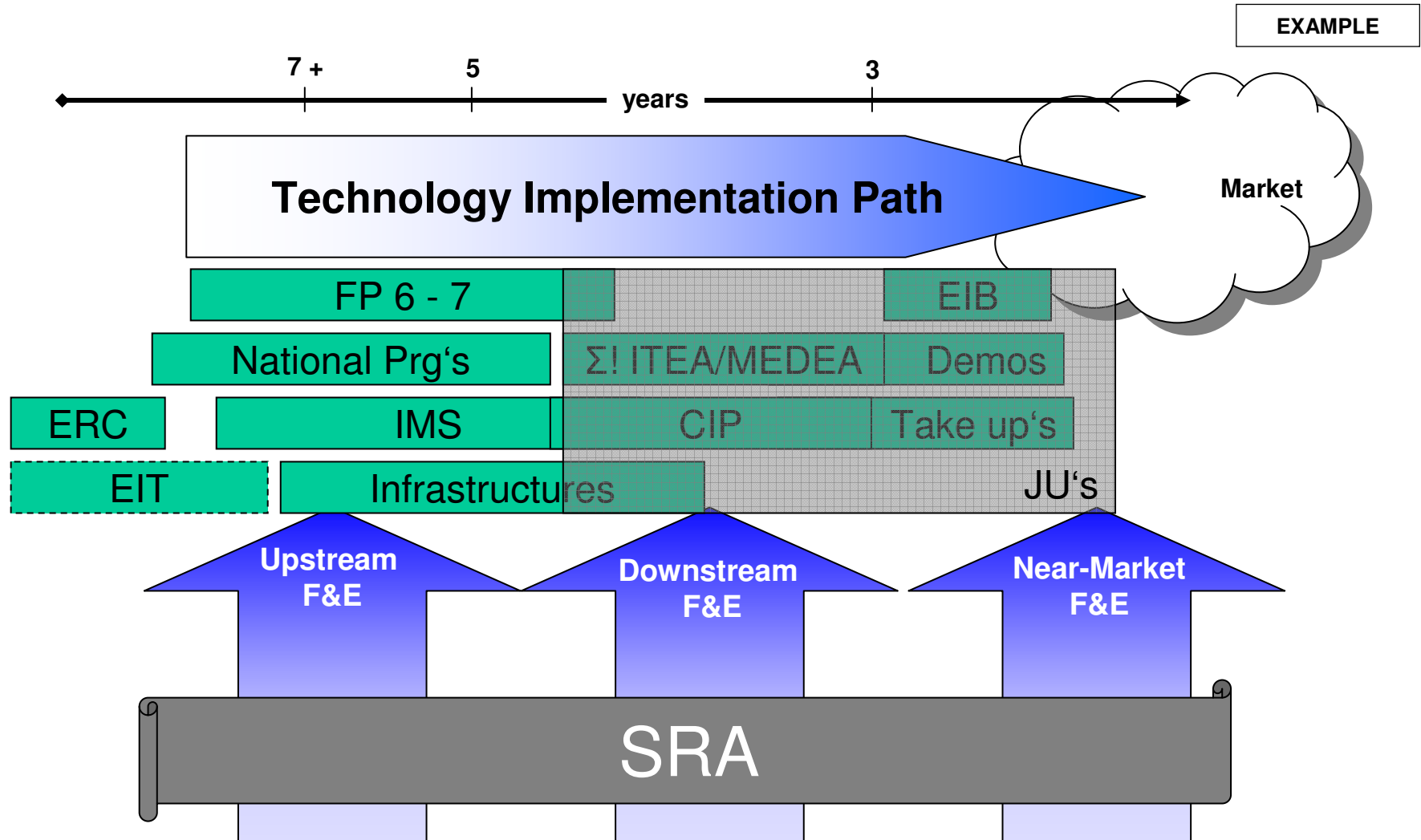


* Share of successful participation
 FP 6 - IST/grand total

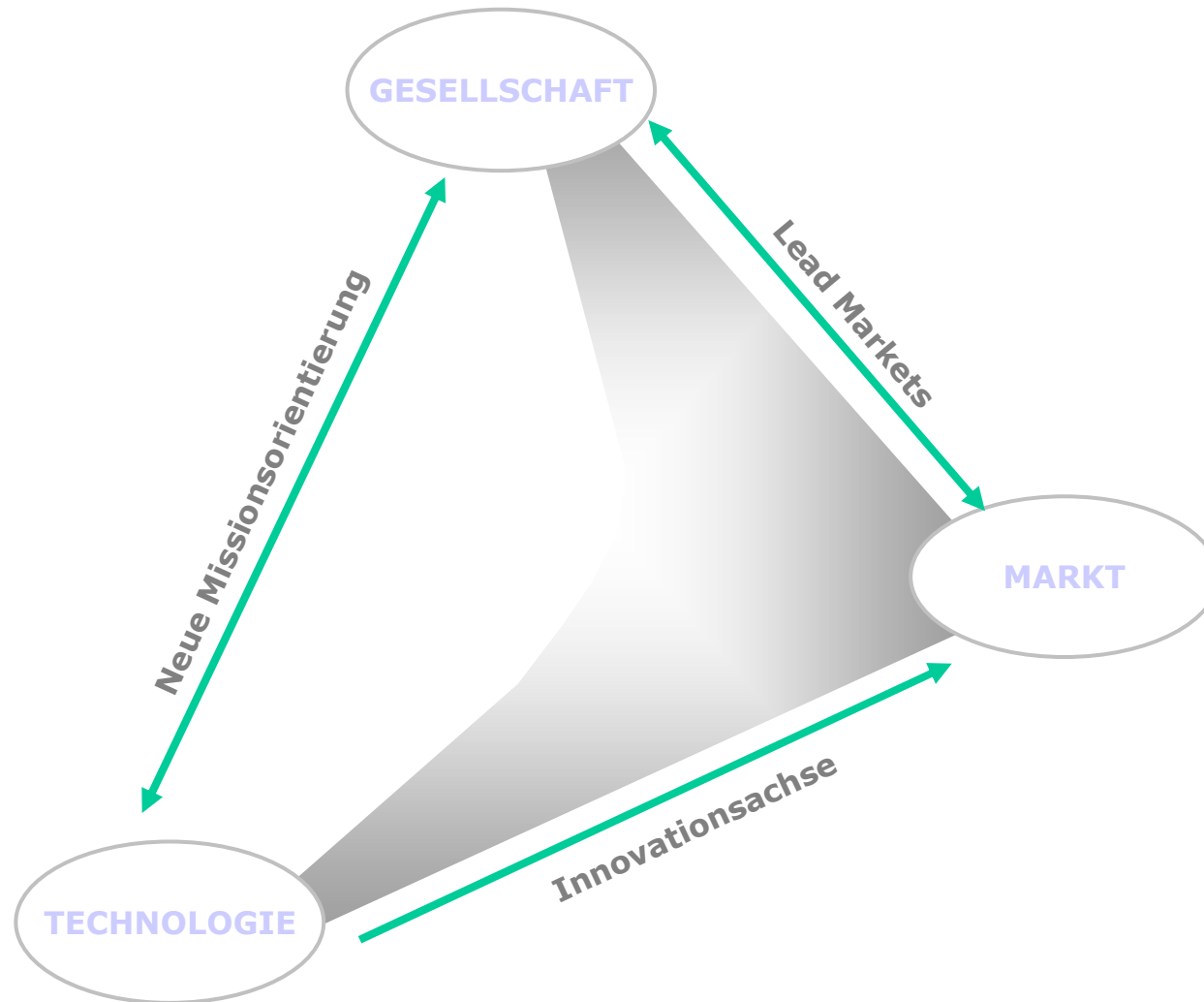
European ICT/RTD-Instrument Portfolio



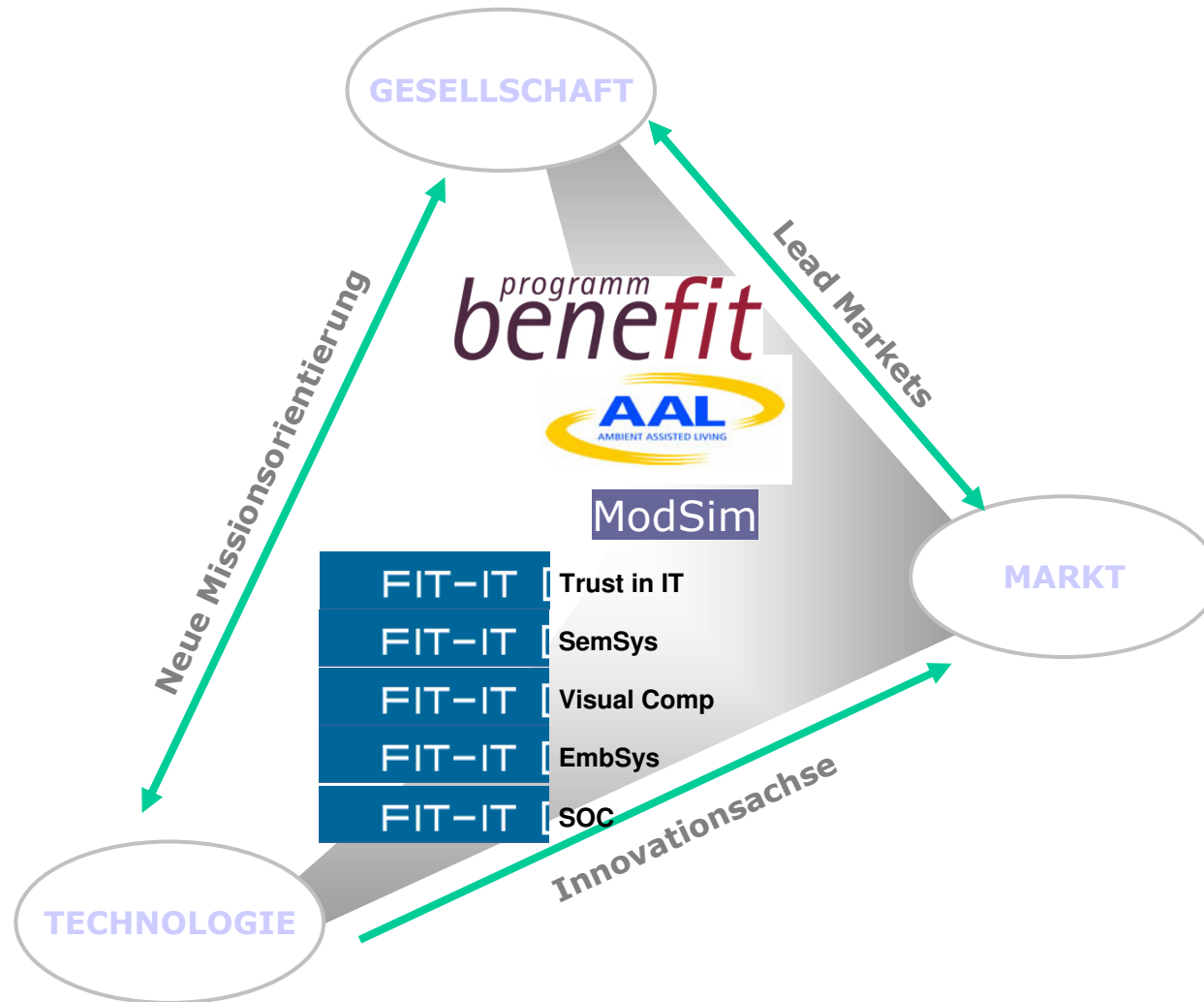
European ICT/RTD-Instrument Portfolio (2)



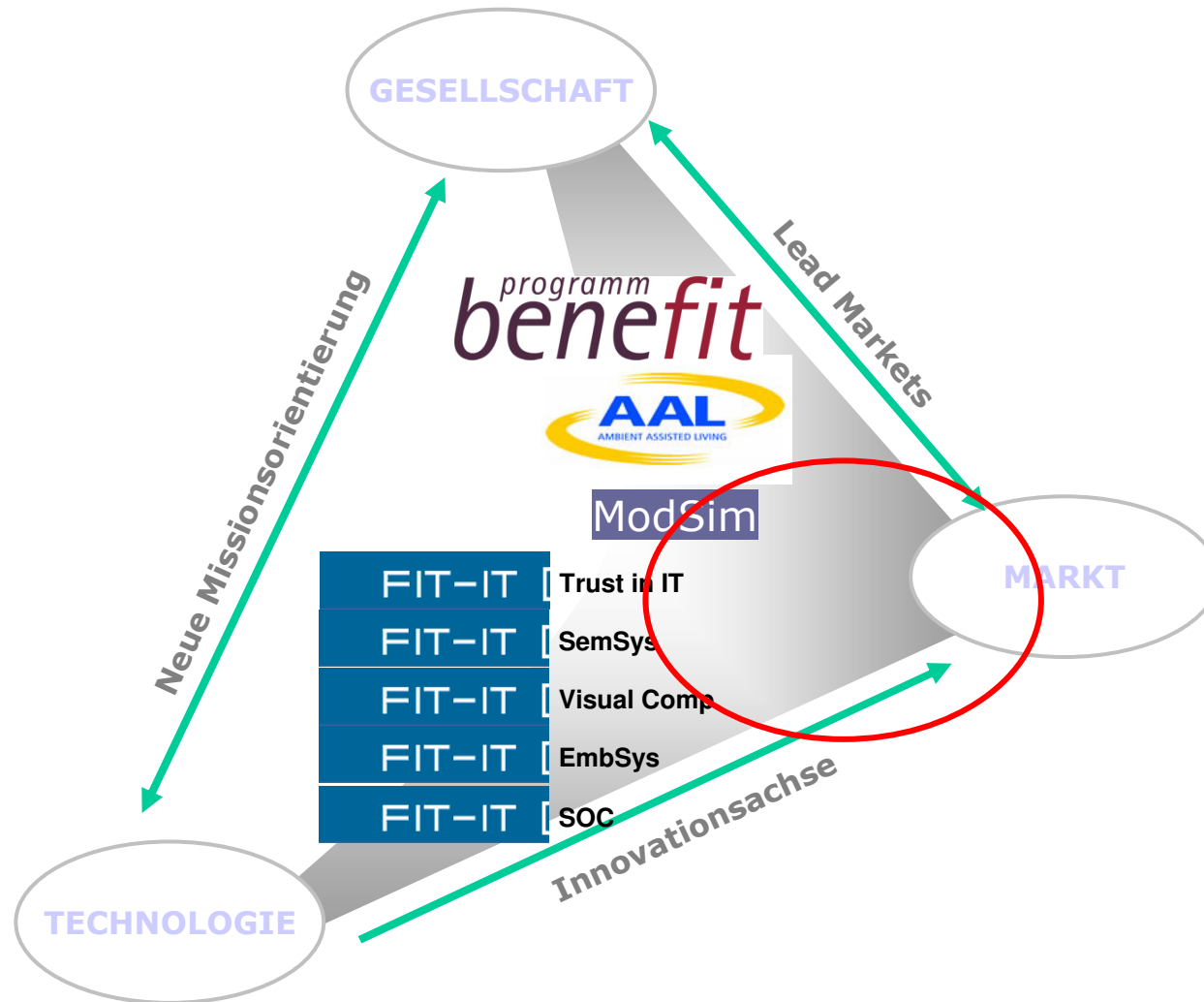
Programm Instrument Portfolio



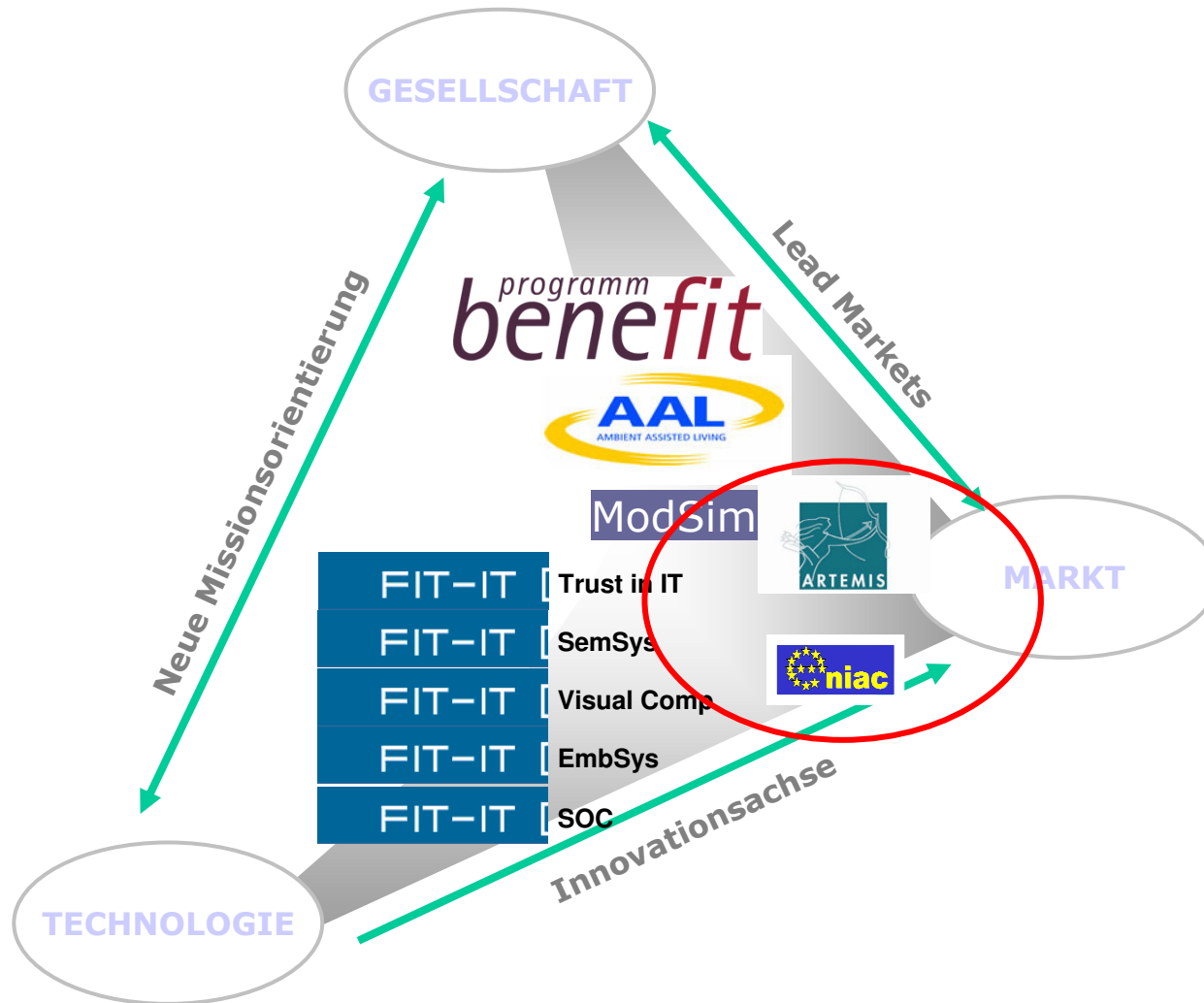
Programm Instrument Portfolio



Programm Instrument Portfolio



Programm Instrument Portfolio





2. JU – the details...

JU: a true Public Private Partnership



ARTEMIS



- **Memberstates (18):**
AT, BE, CZ, DE, EE, EL,
ES, FI, FR, HU, IT, NL, PT,
SE, SK, SL, RO, UK

- **EC** 

- **INDUSTRY: ARTEMISIA**

ENIAC



- **Memberstates (15):**
BE, CZ, DE, EE, EL, ES,
FR, IT, LT, LV, NL, PL, PT,
SE, UK

- **EC** 

- **INDUSTRY: AENEAS** 

Investmentvolume 08-13 (estimated figures)



ARTEMIS

- **Running costs:**
ARTEMISIA 20-30 Mio €
+ Community < 10 Mio €

- **R&D Activities**

EC	≤ 410 M€
MS	≤ 738 M€
Public total	≤ 1.148 M€
In-kind (Ind.)	≥ 1.148 - ~ 1.900 M€
Total Investm.	2.296 – 3.048 M€

ENIAC

- **Running costs:**
AENEAS 20-30 Mio €
+ Community < 10 Mio €

- **R&D Activities**

EC	≤ 440 M€
MS	≤ 792 M€
Public total	≤ 1.232 M€
In-kind (Ind.)	≥ 1.232 - ~ 2.053 M€
Total Investm.	2.464 – 3.285 M€

...JU's in a nutshell



Large scale downstream RTD initiatives along sectoral value chains – energized by multisource funding regime

Nanoelectronics:

addressing the needs of silicon-based technologies & beyond

- shrinking of CMOS logic & memory devices
- development of value-added functions for System-on-Chip or System-in-Package solutions
- equipment & materials
- design automation



ENIAC

Embedded Computing Systems:

ubiquitous, interoperable & cost-effective embedded systems

- reference designs and architectures
- middleware for interoperability and seamless connectivity
- integrated design software tools for rapid development & prototyping

Indicative Selection



ARTEMIS

Although large industry driven...



... open for new Members

Get involved @:
<https://www.artemisia-association.org>
http://www.eniac.eu/web/aeneas/aeneas_ex.php

Nanoelectronics:

addressing the needs of silicon-based technologies & beyond

- shrinking of CMOS logic & memory devices
- development of System on a Chip (SoC) for System Package
- equipment & materials

Keyfigures (2007)
 Sales: 7,9 Mrd. €
 Empl.: 41.000
 RDT-Investm.: 1,2 Mrd. €

Keyfigures (2006)
 Sales: 18 Mrd. €
 Empl.: 63.000
 RDT-Investm.: 2,9 Mrd. €

Keyfigures (2006)
 Sales: 10 Mrd. €
 Empl.: 52.000
 RDT-Investm.: 2 Mrd. €

Keyfigures (2006)
 Sales: 0,53 Mrd. €
 Empl.: 3.600
 RDT-Investm.: 0,053 Mrd. €

Embedded Computing Systems:

ubiquitous, interoperable & cost-effective embedded systems

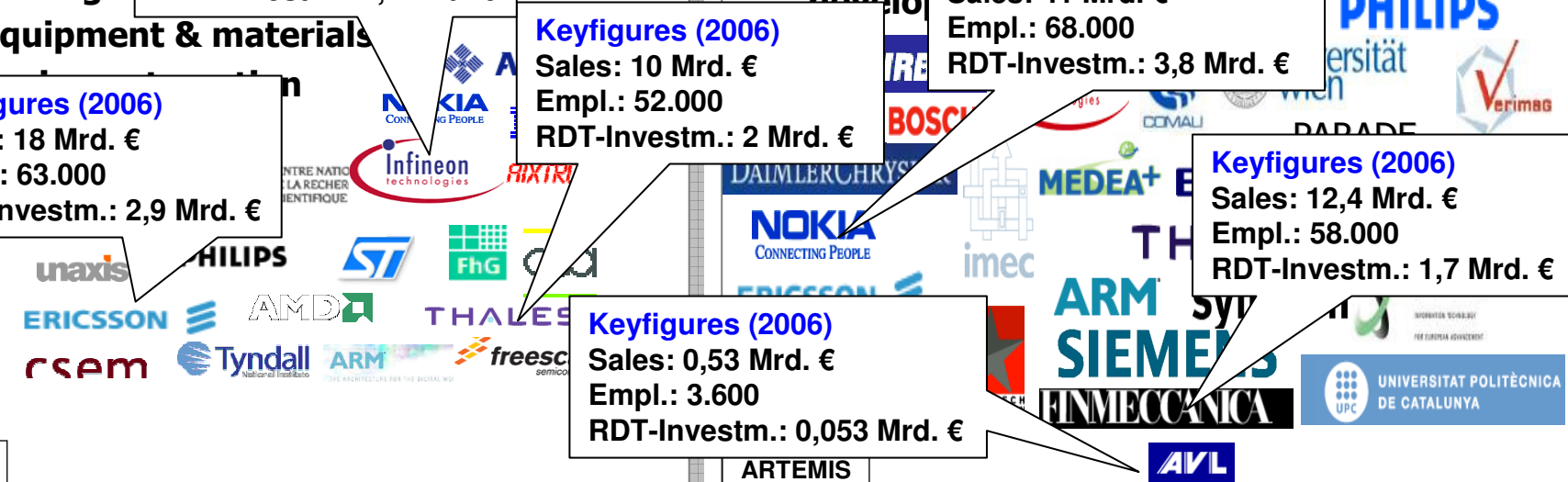
- reference designs and architectures
- middleware for interoperability and seamless connectivity
- integrated development tools for rapid development

Keyfigures (2006)
 Sales: 41 Mrd. €
 Empl.: 68.000
 RDT-Investm.: 3,8 Mrd. €

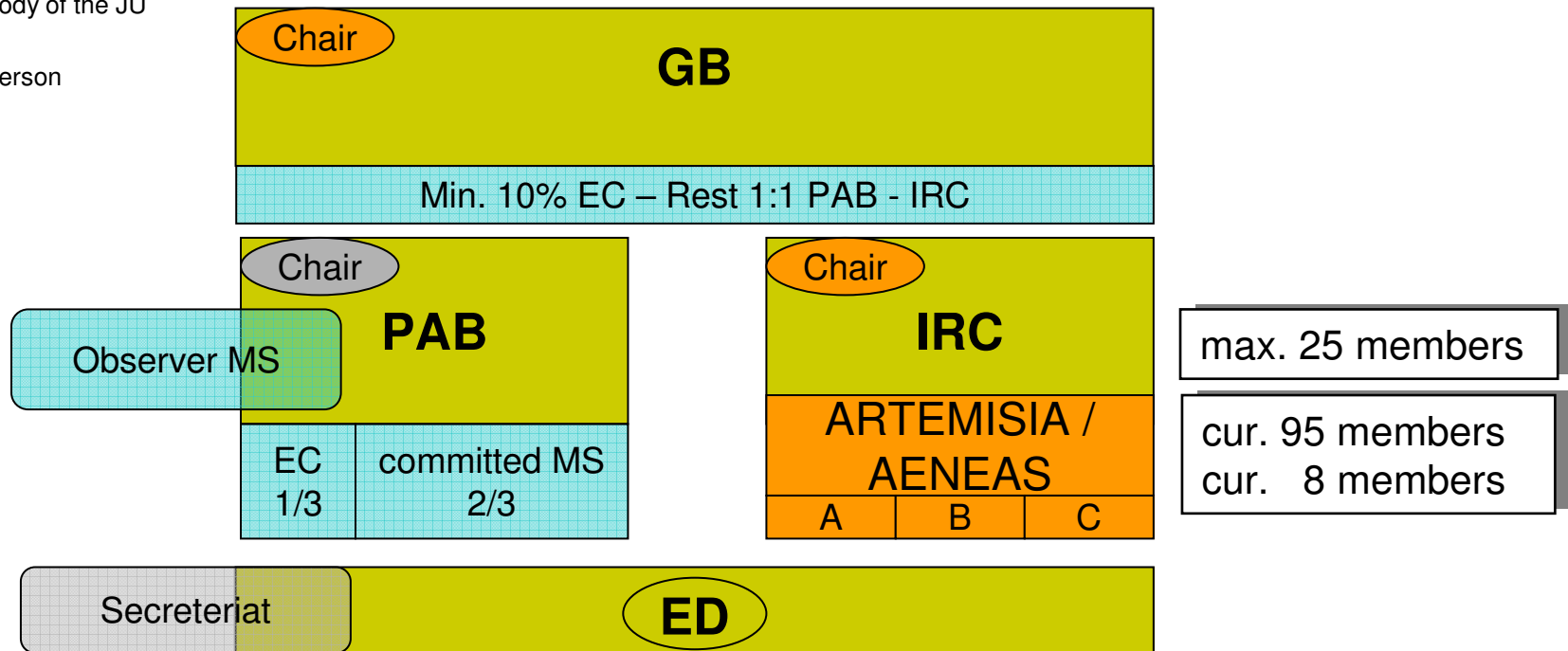
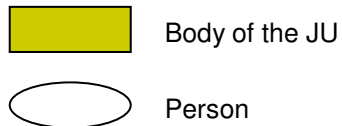
Keyfigures (2006)
 Sales: 12,4 Mrd. €
 Empl.: 58.000
 RDT-Investm.: 1,7 Mrd. €

ENIAC

ARTEMIS



Inside the JU: Governance Matrix



EC: European Commission / Community
MS: Member States
ED: Executive Director
GB: Governing Board
PAB: Public Authority Board
IRC: Industry and Research Committee

Multisource Financing Scheme*



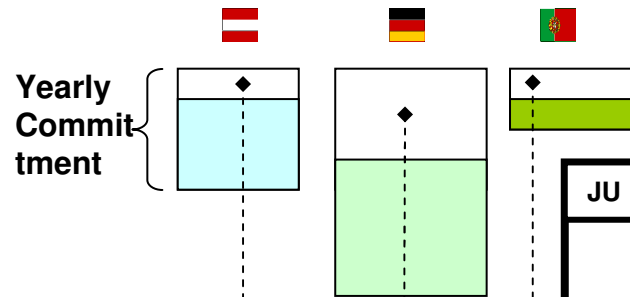
MS: variable



Ind: variable



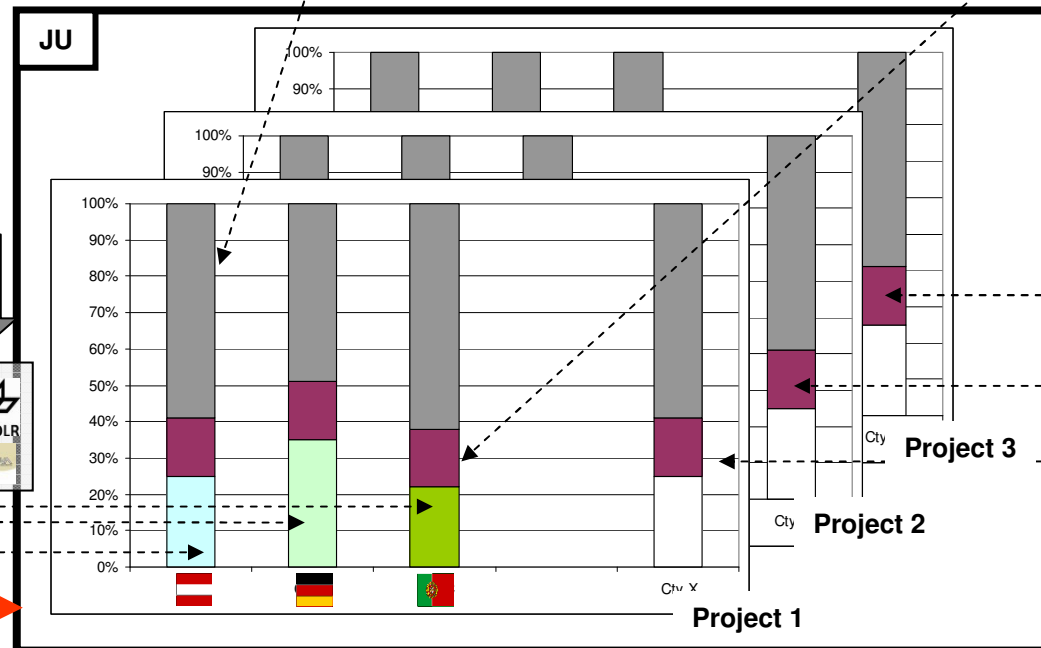
EC: fixed - 55% of MS



Implemented through National Funding Agencies



Admin. Arrangement



* Other sources:
(a) revenues of JU
(b) Any other

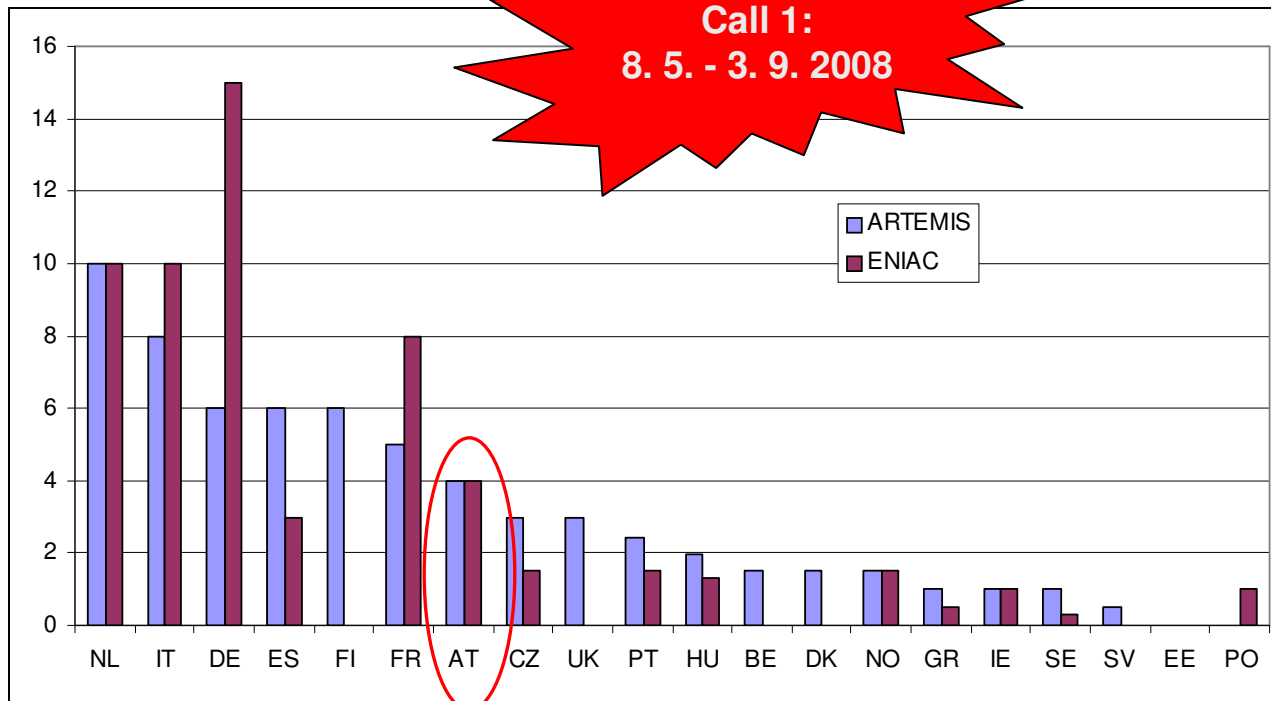


3. Call 1 (2008) Ready for take off?

MS Commitments Call 2008



**Call 1:
8. 5. - 3. 9. 2008**



ARTEMIS Call 1

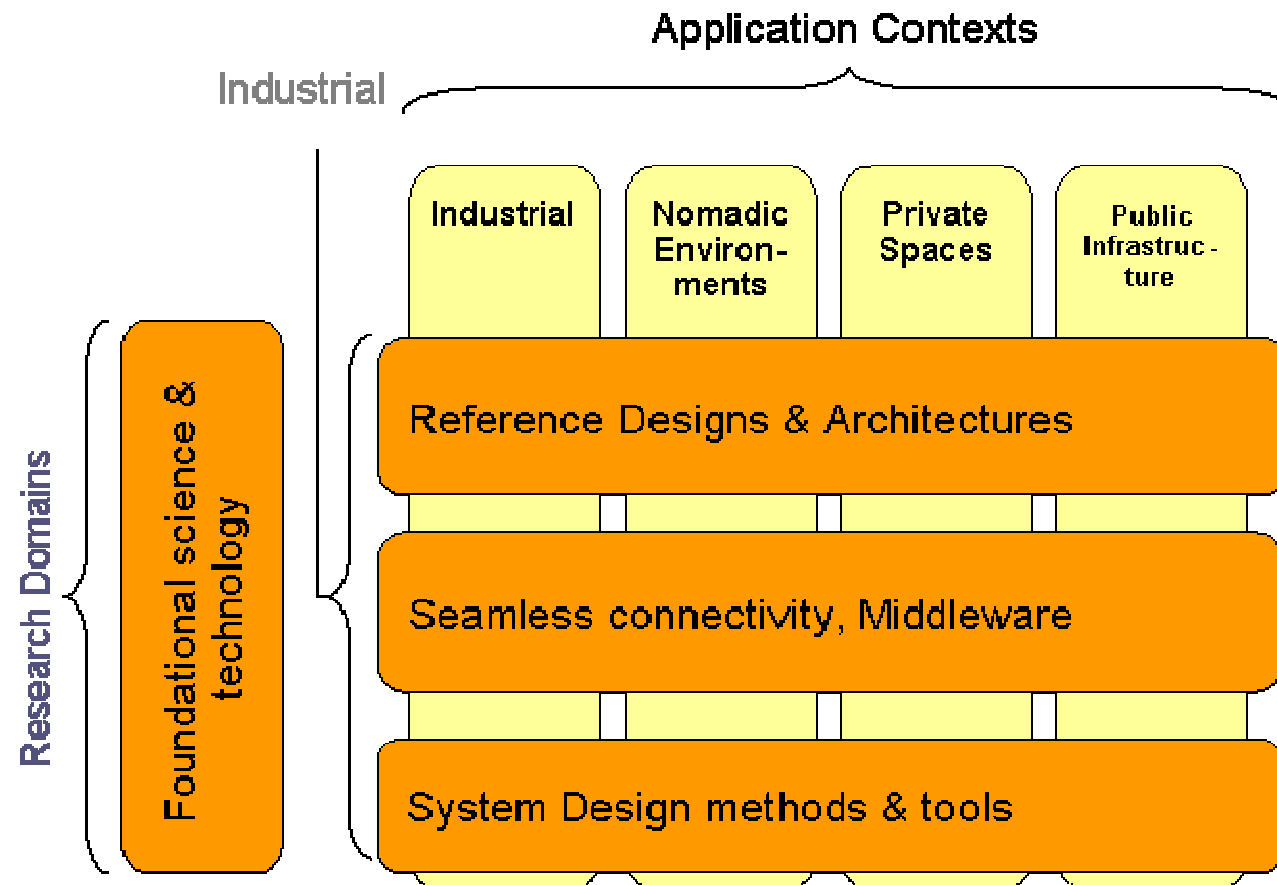
MS	63 M€
EC	34 M€
Public total	97 M€
In-kind (Ind.)	≥ 97 M€
Total Investm.	198 M€

ENIAC Call 1

MS	59 M€
EC	32 M€
Public total	91 M€
In-kind (Ind.)	≥ 91 M€
Total Investm.	185 M€

Just the beginning: investment path tending upwards!

Long Term Research Agenda



ARTEMIS
STRATEGIC
RESEARCH
AGENDA

<http://www.artemis-sra.eu>

Field Matrix

Call Topics ARTEMIS 2008



8 Subprogramms

- | | | |
|----|---|-----|
| 1. | <i>Methods and Processes for Safety-enabling ES</i> | 17% |
| 2. | Person Centric Health Management | 13% |
| 3. | <i>Smart Environments and Scalable Digital Services</i> | 17% |
| 4. | Efficient Manufacturing and Logistics | 8% |
| 5. | <i>Computing Environment for ES</i> | 13% |
| 6. | Information Security, Privacy and Dependability | 11% |
| 7. | Embedded technology for Sustainable urban life | 8% |
| 8. | Human Centred Design of Embedded Systems | 10% |

SP 1, 3, 5 „preferred“ treatment

Long Term Research Agenda



JU Research Agenda

More Moore

More than Moore

Heterogeneous Integration

Design Methods & Tools

Equipment & Materials

Beyond CMOS

6. Infotainment

5. Communication

4. Energy & Environment

3. Security & Safety

2. Transport & Mobility

1. Health & Wellness

7. Design Methods & Tools

8. Equipment & Materials

Industry priorities for 2013 and beyond



http://www.eniac.eu/web/SRA/local_index.php



Field Matrix

Call Topics ENIAC 2008



8 Subprogramms

- | | | |
|----|---|------------|
| 1. | Nanoelectronics for Health and Wellness | 6% |
| 2. | Nanoelectronics for Transport and Mobility | 24% |
| 3. | Nanoelectronics for Security and Safety | 9% |
| 4. | Nanoelectronics for Energy and Environment | 9% |
| 5. | Nanoelectronics for Communication | 13% |
| 6. | Nanoelectronics for Infotainment | 5% |
| 7. | Design Methods and Tools | 10% |
| 8. | Equipment and Materials | 23% |

SP 1, 5, 6 adressed in `09

Participating: JU Eligibility Criteria



- All „legal entities“ from JU-MS
 - IF
 - they are in line with JU-eligibility criteria
 - AND
 - national eligibility criteria

JU-eligibility criteria

- Located in an EU Member State or in an Associated Country to the FP 7
- At least 3 non-affiliated legal entities established in at least 3 ARTEMIS Member States
- It is complete and the following elements are present in the proposal as requested in the Guide for Applicants:
 - the administrative forms
 - the proposal description with all the mandatory sections
- It is submitted in English
- The content of the proposal relates to the topic(s) described in the Annual Workprogramme of the Call.

Participating: Austrian Eligibility Criteria



...in Line with National Standards (FIT-IT)

- timely submission as specified in the relevant call for proposals
- submission of a complete proposal
- faxed signatures are permissible for submission, but original signatures must then be delivered at the earliest convenience
- for companies, commercial register number and the balance sheets of the last three Years
- at least one enterprise in the consortium of a co-operative project
- financial viability and business soundness is verified by means of an internal check
- companies that are in danger of insolvency cannot be funded

Preparation-Costs: Anbahnungsfinanzierung!!

Austrian Funding-Intensity



Funding Intensity of National Public Subsidy

- LARGE: up to 25% of eligible project costs
- MEDIUM: up to 35% of eligible project costs
- SMALL: up to 45% of eligible project costs
- RESEARCH CENTER/UNIV.: up to 59% of eligible project costs

National Grants will get a “top-up” of 16,7% by JU

Evaluation and Selection of Proposals

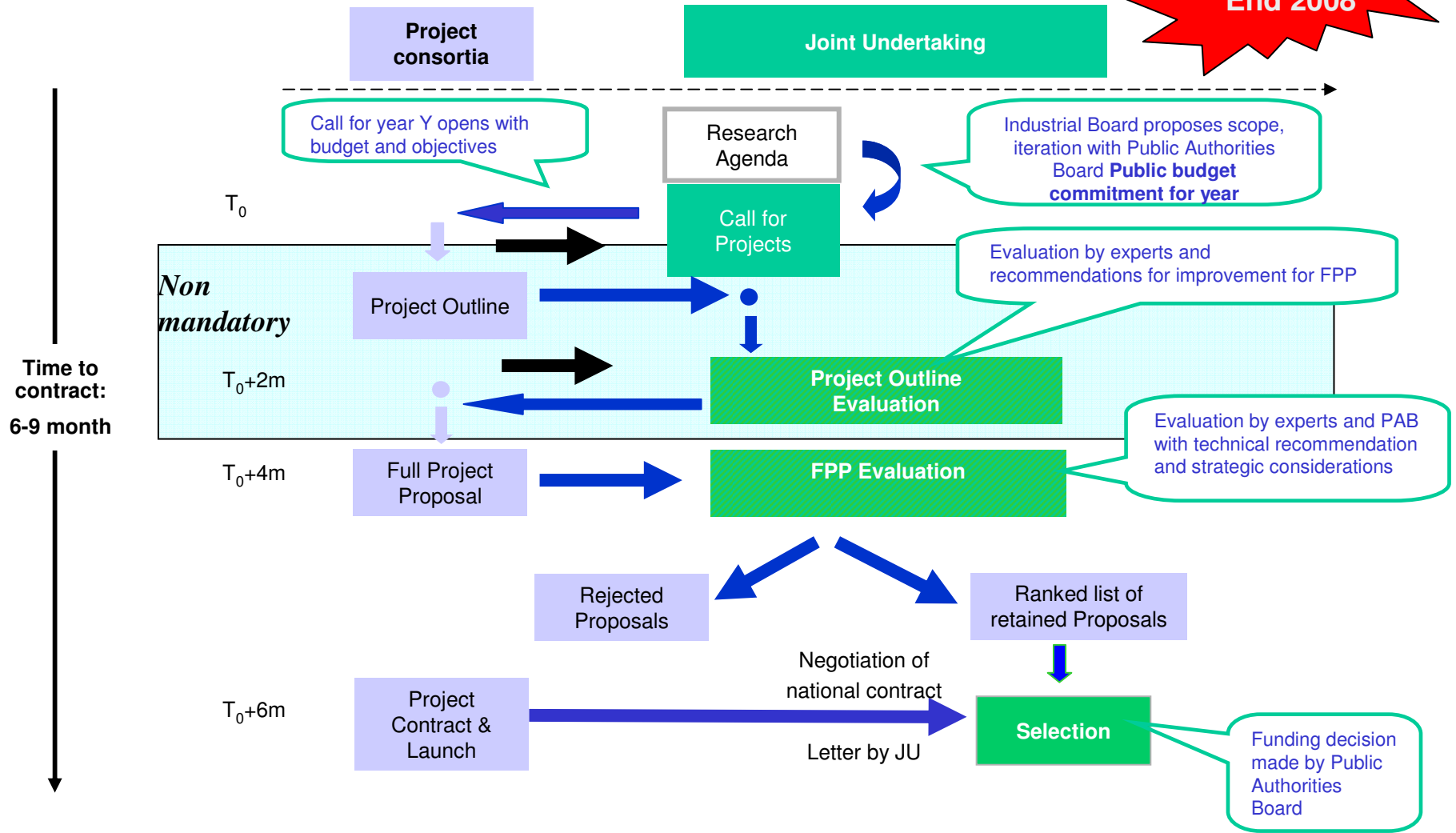


- Will be done in one, central step on JU-level (2step from 09)
- Performed by Independent XP's (nominated by MS!)
- Based on following criteria:
 - (1) relevance and contribution to the objectives of the Call
 - (2) R&D innovation and technical excellence,
 - (3) S&T approach and workplan,
 - (4) market innovation and impact,
 - (5) quality of consortium and management
 - (6) *synergy with EU and national R&D and innovation policies (at selection phase)*

Prospective funding cycle



**First Contracts
End 2008**





(4) Ressources/Dates

Ressources



- Main Websites of JU:
www.artemis.eu and www.eniac.eu
- Austrian Mirror Sites (incl. additional rules):
www.ffg.at/artemis and www.ffg.at/eniac
- Websites of JU-Industry-MB:
www.artemis-association.org and
www.eniac.eu/web/aeneas/aeneas_ex.php

Next Dates



May 8th (at noon)	Call 1 Publication	
May 19th		Workshop on the ENIAC Annual Workplan, Palaiseau (Thales), Paris
May 20th		AENEAS General Assembly, Palaiseau (Thales), Paris
May 30th	Austrian ARTEMIS/ENIAC kick-off event; Vienna	
June 4th	ARTEMISIA, General Assembly Athens, Greece	
Sept 3rd	Close of Call 1	
Oct 08	Evaluation	
Nov 08	Selection of retained proposals	
Dec 08	First Contracts	

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