

First

ENIAC JTI ICT AND FUTURE INTERNET

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Future Internet Assembly (FIA)



European Commission
Information Society and Media



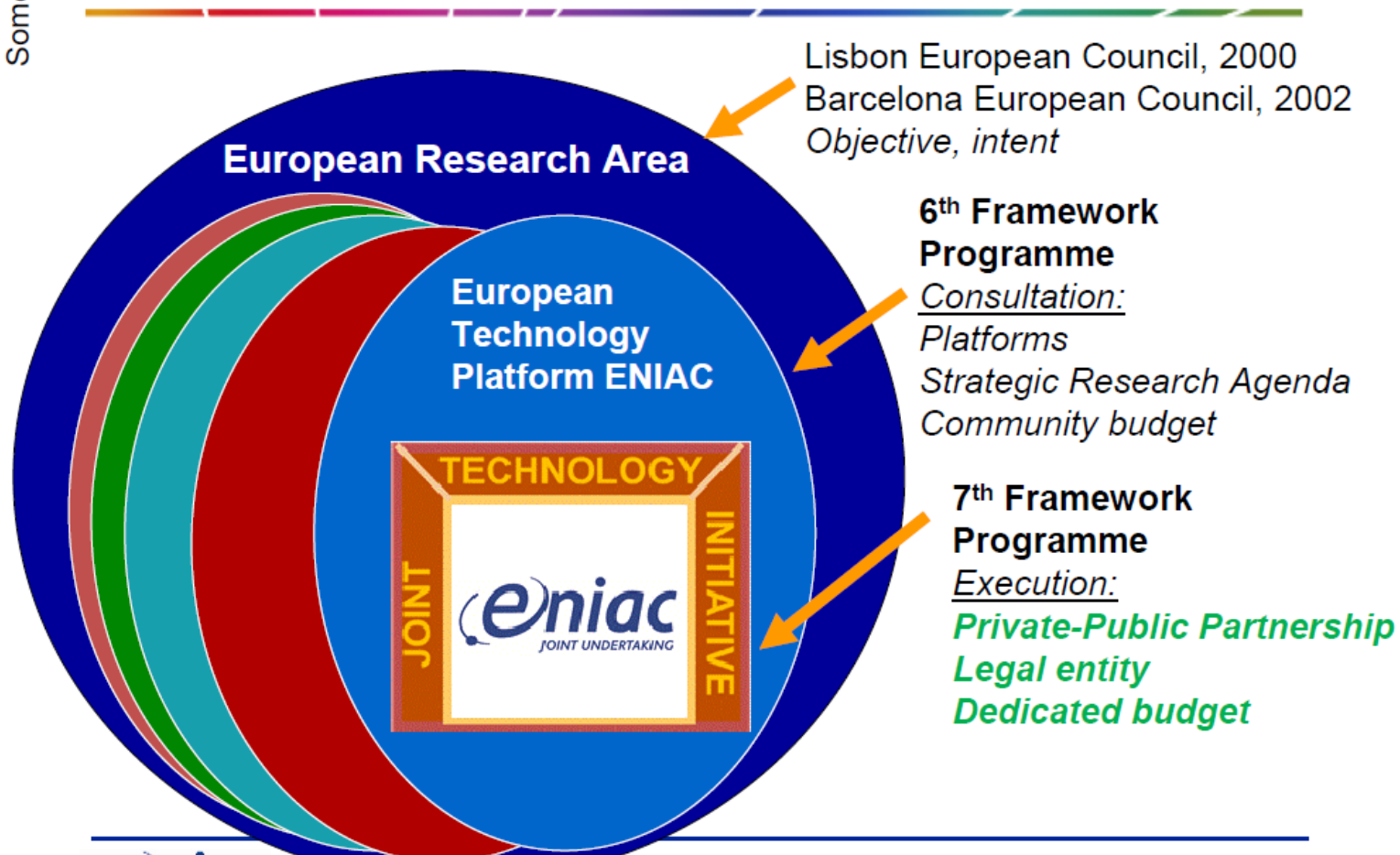
Summary

1. About the eENIAC
2. ENIAC Research Areas
3. ENIAC Composition
4. ENIAC in EU and ICT Components
5. ENIAC Potential Cooperation with LPTPs



Some histor

From Intent to Implementation





ENIAC Vision

“The ENIAC Joint Undertaking shall increase and leverage private and public investments in nanoelectronics contributing to strengthening Europe’s future growth, competitiveness and sustainability”

COUNCIL REGULATION No 72/2008

setting up the ENIAC Joint Undertaking



ENIAC Mission

- W(10) : The JTI on nanoelectronics should address **two objectives**:
 - enhancing the further **integration and miniaturization** of devices, and
 - increasing their **functionalities**.

It should **deliver**:

- new materials
- equipment
- processes
- new architectures
- innovative manufacturing processes
- disruptive design methodologies
- new packaging and “systemizing” methods

It should drive and be driven by innovative high-tech **applications in the areas of**:

- communication and computing
- transport
- health care and wellness
- energy and environmental management
- security and safety
- entertainment.



R&D Priorities

First pillar: to build on its **leading position in specific technology and application domains**

Second pillar: to be positioned at the **forefront of new emerging markets** with high potential growth rates and to become a world leader in these domains



Research areas

Applications

1. Automotive and Transport
- 2. Communications and Digital Lifestyle**
3. Energy Efficiency
4. Health and Ageing Society
5. Safety and Security

Technologies

6. Design Technologies
7. Semiconductor Process and Integration
8. Equipment, Materials and Manufacturing



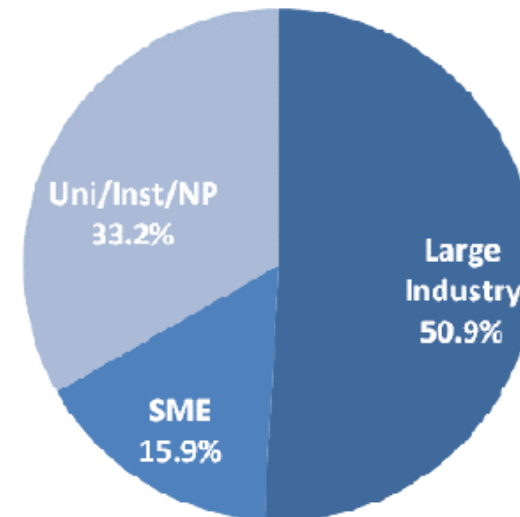
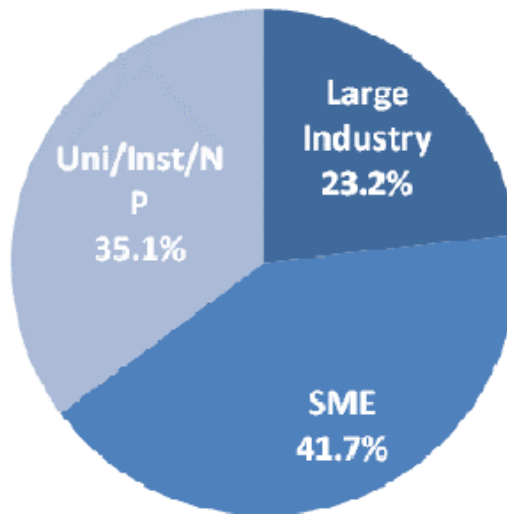
ENIAC Composition

Call 1, Call 2 and Call3 :

336 participating organizations from 21 countries

Participating Organizations 2008-2010 :

Total Public Funding 2008-2010 : 289.0M€



ENIAC Governance rules and Structure

Governing Board
Aeneas, Public Authorities
Meeting chaired by IRC Chairperson

- Approves Multi Annual Strategic Plan
- Approves Annual Implementation Plan
- Approves Rules of Procedure

Executive Director
Secretariat

- Daily operation
- Elaborates Annual Implementation Plan
- Proposes rules of procedure

Public Authority Board
EC, MAS

- Approves Annual Work Plan, Calls
- Approves grants

Industry and Research Committee
Nominated by Aeneas

- Elaborates Multi Annual Strategic Plan
- Elaborated Annual Work Plan



ENIAC Organization

EXECUTIVE DIRECTOR
Andreas Wild

EXECUTIVE ASSISTANT
Hanane El Fatmi

HEAD OF ADMIN AND FINANCE
Marc Jeuniaux

PROGRAMME MANAGER
Yves Gigase

FINANCIAL ASSISTANT
Catherine Dumas

PROGRAMME OFFICER
Anton Chichkov

IT ASSISTANT
Viv Pappas

PROGRAMME OFFICER
Francisco Ignacio-Serradilla

SECRETARY
Anaïs Simonnet

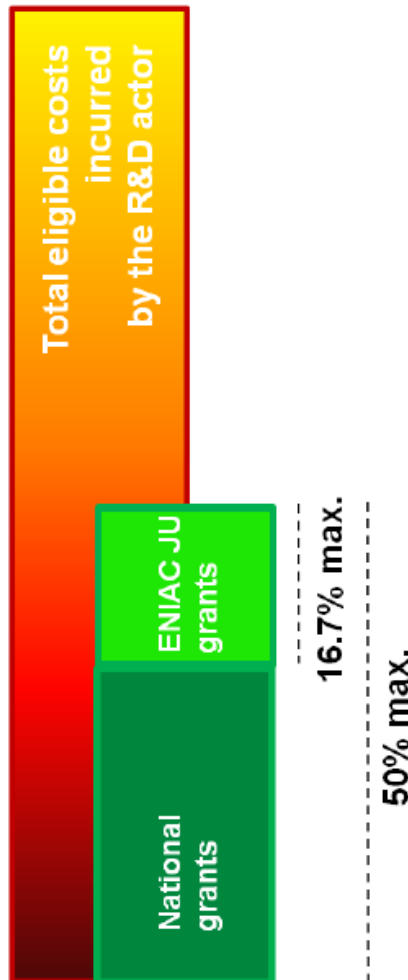
SECRETARY
Nathalie da Silva Ferra

LEGAL OFFICER
(SUBCONTRACTED)

INTERNAL AUDITOR
(SUBCONTRACTED)

COMMUNICATION OFFICER
(SUBCONTRACTED)

ENIAC Functioning

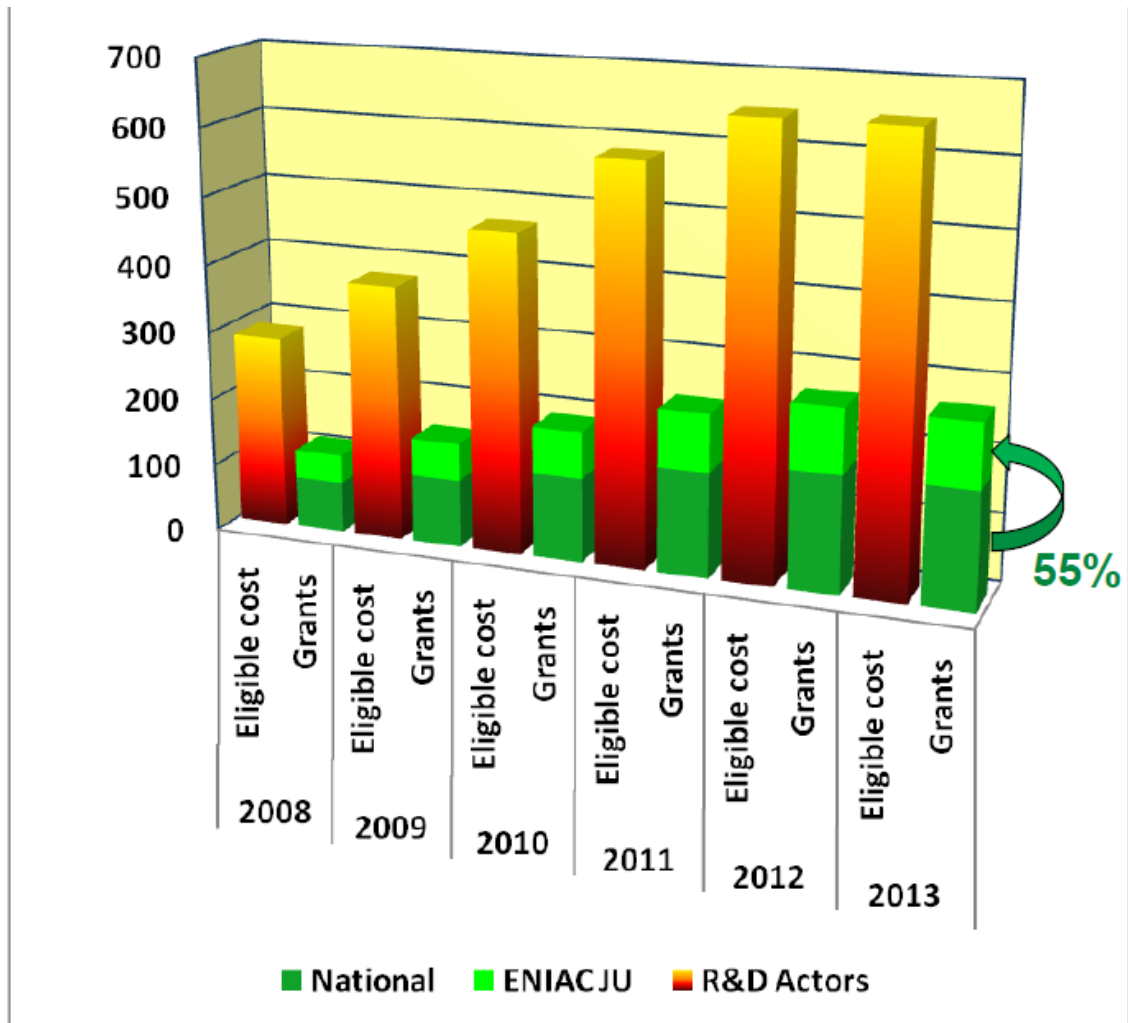


1. The ENIAC Joint Undertaking issues Calls for proposals
2. The R&D actors form consortia and propose projects
3. The projects in competition are ranked by independent experts
4. The Public Authority Board selects the projects to be funded and approves the grants
5. The National Public Authorities check eligibility and provide grants following national criteria
6. The ENIAC JU provides grants at a flat rate, the same for each eligible participant

*Typical grants for a large company.
SMEs, research institutes and Universities
may have higher funding thresholds*

ENIAC Programme Budget

- The Member States and associated countries commit a budget for each call
- ENIAC JU adds 55% (up to 450M€ in total)
- The grants cannot exceed 50% of the total costs incurred by the private sector
- Total grants : ~ 1.25 B€
Total eligible costs: ~ 3 B€





ENIAC Status of Calls 1, 2 & 3

- **Call 1 (2008) : 7 Project selected**
 - Total eligible cost: 206.9 M€
 - Total grants: Total grants: 95.7 M€
- **Call 2 (2009) : 11 projects selected**
 - Total eligible cost: 248.0 M€
 - Total grants : 105.9 M€
- **Call 3 (2010) : 10 projects selected**
 - Total eligible cost: 201.1 M€
 - Total grants : 87.5 M€



ENIAC Annual Work Programme 2011

APPLICATIONS		TECHNOLOGY	
Automotive and Transport	Intelligent Electric Vehicle	Design Technology	Managing Complexity
	Safety in Traffic		Managing Diversity
	Co-operative Traffic Management		Designing for Reliability and Yield
Communication and Digital Lifestyle	Internet Multimedia Services	Semiconductor Process and Integration	Know-how on Advanced and Emerging Semiconductor Processes
	Evolution to a Digital Lifestyle		Competitiveness through Semicond. Process Differentiation
	Self-organizing Networks		Opportunities in System in Package
	Short-range Convergence		
Energy Efficiency	Sustainable and Efficient Energy Generation	Equipment, Materials and Manufacturing	Advanced CMOS - 1Xnm & 450nm
	Energy Distribution and Management - Smart Grid		More than Moore
	Reduction of energy consumption		Manufacturing
Health Care and Aging Society	Home Healthcare	<p>The Multi Annual Strategy Plan of the ENIAC Joint Undertaking (MASP 2010)</p> <p><i>Note: Grand Challenges in bold letters on white background are selected in the AWP2011 to be included in Call 4 (2011).</i></p>	
	Hospital Healthcare		
	Heuristic Healthcare		
Safety and Security	Consumer and Citizen Security		
	Securing the European Challenging Applications		
	Enabling Technologies for Trust, Security and Safety		



ENIAC in FI and ICT Components

Communications and digital lifestyle:

- ✓ *emergence of **broadband services**, offering the possibility to **access all applications regardless of devices or services***
- ✓ *advent of **LTE and LTE-A** will **accelerate** this trend furthermore*
- ✓ ***convergence** of telecommunications and entertainment electronics unifies features in television and mobile phones*

Grand Challenge 1: “Internet Multimedia Services”
















Already 4 mobile technology projects in 2009-2010

Grand Challenge 2: “Evolution To A Digital Life Style”

The new “Digital TV User lifestyles” aims to bring an easy, ubiquitous and fun access to media, information and knowledge to European Citizens.

- ✓ **New Video Sources and Content Management:**
- ✓ **Ubiquitous Access to The Content**

ENIAC potential cooperation with LATPs

	PLATA	BRAFIP	MACHI	RECIIF	MTP
Networked and Electronic Media (NEM)					
Software and Services (NESSI)					
Satellite Communications (ISI)					
Mobile and Wireless Networks (Net!works)		Net!Works	Net!Works	Net!Works	Net!Works
Intelligent Integrated Systems (EPoSS)					
Embedded Systems (ARTEMIS)	ARTEMIS	ARTEMIS	ARTEMIS		ARTEMIS
Nanoelectronics					

First



European Commission
Information Society and Media



Dziękuję!

Thanks!