

EURIPIDES

Eureka Initiative for Packaging & Integration of μ Devices & Smart Systems



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EUREKA Initiative for Packaging & Integration of μ DEvices & Smart
Systems
 $\Sigma!$ 3830

Cookbook:

***“How to Build a Successful EURIPIDES
Project.”***

**Dr. Klaus PRESSEL – Infineon and EURIPIDES Technical Committee
Member**

EURIPIDES 2010 Forum – Paris, FRANCE

- 1. Project Focus & Content**
- 2. Project Organization**
- 3. Funding**
- 4. The Process: from proposal to EURIPIDES Label and Funding decision**

> EUREKA ‘Clusters’ are long-term, strategically significant industrial initiatives. They usually have a large number of participants, and aim to develop generic technologies of key importance for European competitiveness mainly in ICT, energy and more recently in the biotechnology sector.

> Clusters bring together large companies, often competitors, along with SMEs, research institutes and universities, sharing both the risk and benefits of innovation. They focus on developing and commercially exploiting new technologies. Their goal is to ensure that Europe retains its leading position in the world market.

> Initiated by industry in close collaboration with national funding authorities, each Cluster has a technological ‘roadmap’ defining the most important strategic domains. Specific goals are achieved through scores of individual projects. A key asset of EUREKA is its flexibility: roadmaps and projects are continuously adapted in response to the rapidly changing technological environment and market demands.

> *Clusters aim to exploit the technologies developed through existing national and European programs and play an important role in defining European standards and interoperability.*

> Setting the Standard for Integrated Smart Systems

The rapid evolution of smart systems from specific technologies used in a narrow set of markets to a wide range of technologies applied to a broad market base demands dynamic action by the world's electronics and microelectronics industries.

EUREKA's response is *EURIPIDES*, which promotes the development of new products, processes and services using or enabling the use of integrated smart systems based on micro technology.

The Cluster's projects are working on a diverse range of advanced reliable electronic systems based on miniaturization, low energy, connectivity using micro- and nanotechnologies, interconnects and packaging. Their impact will be felt in many sectors, from biomedical and transport to aeronautics, space, energy, telecommunications, industrial process control, multimedia and e-commerce.

> Project focus should be on Innovation

Schumpeter on: Research  Innovation

“Research - Transforming *money* into *knowledge*”

“Innovation - Transforming knowledge into money”

A good balance of both will create welfare

- > **Innovation = successful innovation**
 - will earn money in the market in the (not too distant) future
- > **Innovation : very frequently applying existing knowledge to new areas**
 - so not necessarily an invention
- > **Market launch 1 to (maximum) 3 years after project closure**
- > **Content: fit with EURIPIDES scope and program**
 - see White Book on www.euripides-eureka.eu

We have:

> EUREKA requirements

- minimum 2 partners from 2 European countries
- a contribution above 75% may represent an unbalanced project and should be avoided

> National requirements

- some countries require national sub-consortia (and/or specify type of partners) some also support single companies, etc.

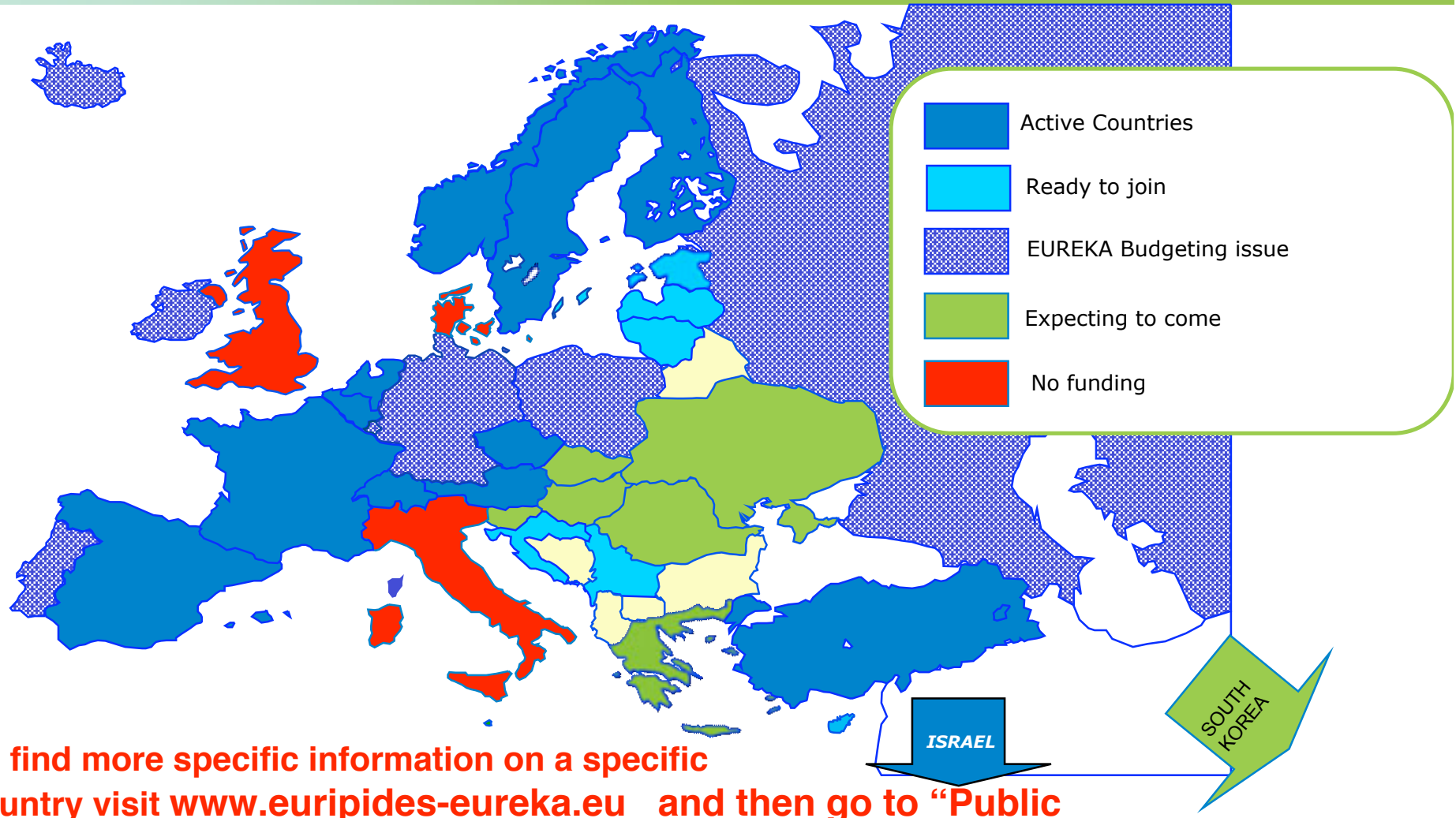
> Internal Consortium requirements:

- consortium management skills, task distribution

> Ground rules for EUREKA /EURIPIDES project funding

- EUREKA project funding as a principle is based on national subsidies and national R&D funding programs
- EU state aid rules define maximum funding percentages.
- Funding programs and rules differ from country to country (eg: scheduled thematic calls vs. non- thematic continuous submission)
- National EUREKA membership does not automatically mean support for specific EUREKA clusters (e.g. EURIPIDES)
- And don't forget the link between national subsidies national economic exploitation and benefit

> When selecting partners, consider how well their home country is willing to support EUREKA /EURIPIDES projects



To find more specific information on a specific country visit www.euripides-eureka.eu and then go to “Public Funding”

➤ Example: Germany & Micro System Technology (MST), July 2010

2020 MST is important for new High Tech Strategy

Topics:

- Ambient Assisted Living (AAL)
- Bio MST
- Mikro Nano Integration
- MST for Energy
- MST - Smart Label
- Smart Textiles

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> Step 1: the PO phase

- **Write the Project Outline (PO) => use the template**
- **Contact your National Public Authority (NPAs) and/or EUREKA representative parallel to preparing the PO**
 - Show/explain project aim & content
 - Check Fit with national thematic priorities, if any
 - Check Fit with exiting program lines, fit with call schedules
 - Clarify Chances for funding etc.
- **EURIPIDES Technical Evaluation Committee (TEC) review:**
 - > TEC feedback will include:**
 - Missing/open points, if any
 - external experts and TEC's comments / improvement suggestions
 - Feedback received from NPAs

> Step 2: the FPP phase

- Act on PO comments & suggestions in preparing the FPP.
- TEC will prepare an evaluation report, the EURIPIDES Council makes a decision and if everything is ok, gives the EURIPIDES Label.

> Step 3: funding application to National funding agency

- Application to the national funding agency is made.
 - Best case: can use the EURIPIDES project documentation
 - Worst case: need to re-write in the national format

- > PO (in close alignment with French & German Authorities)
 - => Innovative project and good consortium
- > FPP (in close alignment with national rules)
- > Consider National rules and funding

***Follow the Process
and Win !***

EURIPIDES is waiting for your

projects...□

- > Innovative project and good consortium
- > Exploitation of results
- > National rules and funding

Follow the Process

and Win !

***EURIPIDES is waiting for your
projects... □***

	Call n° 10	Tentative Agenda Call n° 11	Tentative Agenda Call n° 12
Call launch	June 3 rd , 2010	November 23 rd , 2010	June 8 th , 2011
Closing date for PO submission	June 30th, 2010	January 17th, 2011	July 8th, 2011
TEC consensus meeting	September 8 th , 2010	February 21 st , 2011	September 14 th , 2011
Closing date for FPP submission	October 19th, 2010	April 11th, 2011	October 28th, 2011
TEC consensus meeting EURIPIDAC meeting	November 22 nd , 2010	June 7 th , 2011	November 29 th , 2011
Council labelling meeting	November 23 rd , 2010	June 8 th , 2011	November 30 th , 2011
Hearings (if needed)	December 9 th , 2010	June 16 th , 2011	December 13 th , 2011

The 5th EURIPIDES Forum will be held in HELSINKI, Finland in JUNE 2011

MB 07/07/2010

full control

FULL CONTROL - A successful German/French collaboration on Failure Detection and Analysis

Aim: Quality and reliability assurance in complex micro- and nano-systems requires new failure detection methods

involving

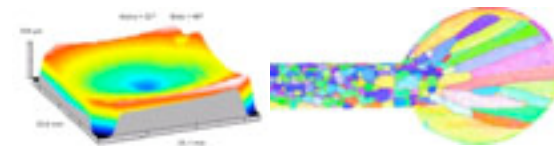
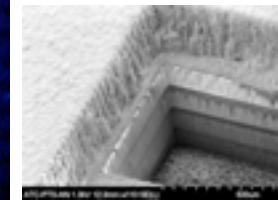
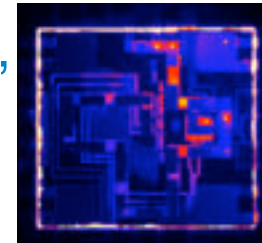
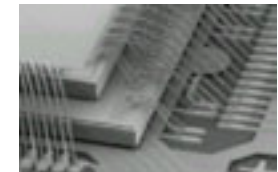
Failure localization (Lock-in thermogr., SQUID, TDR)

- **Target preparation** (FIB, laser, ion milling, RIE wet chemistry, micro abrasive blasting ...)

- **Failure analysis** (SEM, EDX, TEM, EBSD, ...)

- **Material characterization** (image correlation, ESPI: local material parameter determination)

Quality, Yield, Reliability



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