



EuroPIC User Group: Background & User Opportunities

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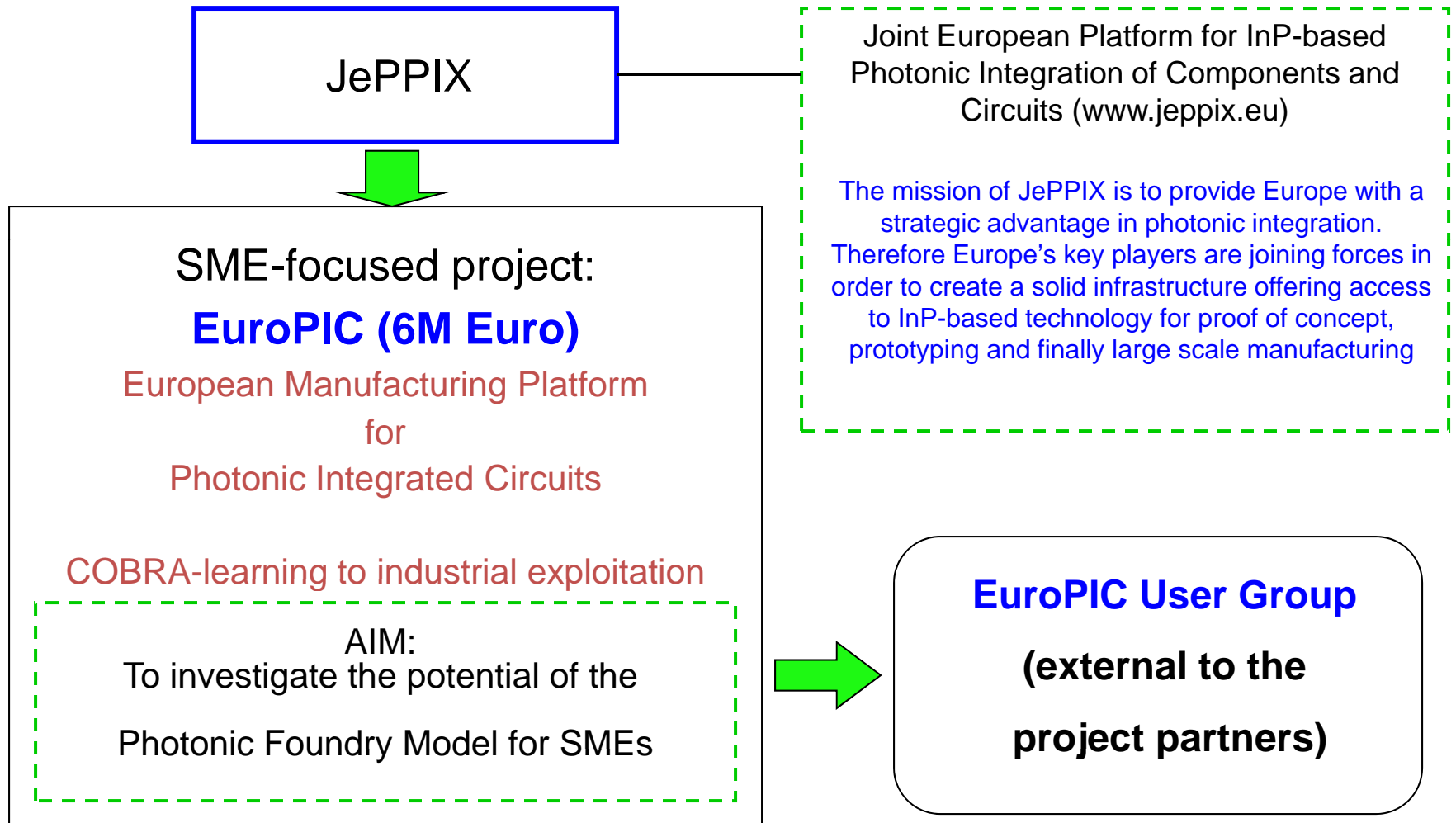
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Topics



- Introduction to the EuroPIC User Group initiative
- Dissemination of EuroPIC results
- Opportunities for the EuroPIC User Group
- Benefits for User Group Members
- Identification of Potential User Group Members
- Progress on User Group Membership count
- Planning and upcoming events





Pilot Projects



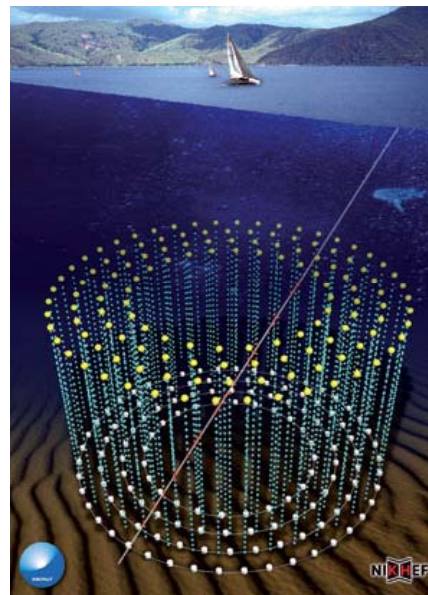
To link the project results to significant market needs and to demonstrate the benefits of photonic integration, a number of pilot applications for PICs have been selected in the EuroPIC project:

- Telecommunications
- Datacommunications
- Sensors
- Health
- Metrology



ELEMENTARY PARTICLE RESEARCH

- ten thousands of detectors...
- EMC immunity
- Direct conversion of the elementary particle interaction (analogue or digital) into the optical domain



DEEP SEA NEUTRINO DETECTOR

- 320.000 detectors
- 60Tb/s data to shore over 100 km photonic backbone



ADVANCED DESIGN AND MONITORING OF INFRASTRUCTURES and CONSTRUCTIONS,

e.g.

Harbours, Bridges, Roads, Tunnels,
Pipelines, coastal Regions,
River banks...Ships...



How to initiate a diverse User Group?



- Currently, especially **SENSING** emerges as a strong generic driver for development of advanced PICs, allowing (initial) higher costs per PIC compared to e.g. telecom applications. *This can initiate interest of (large) industrial companies to become a member of the EuroPIC user group!!*
- Advanced (PIC-based!) sensors are enabling for e.g.
 - Smart structures and skins
 - Medical diagnosis and treatment
 - Extreme accurate metrology
 - Food and drug safety monitoring
 - Environmental monitoring
 - Security applications, such as remote monitoring of bio-hazards

As a baseline: technology achievements from the EuroPIC project will enable breakthroughs for telecoms and many other field as well!!

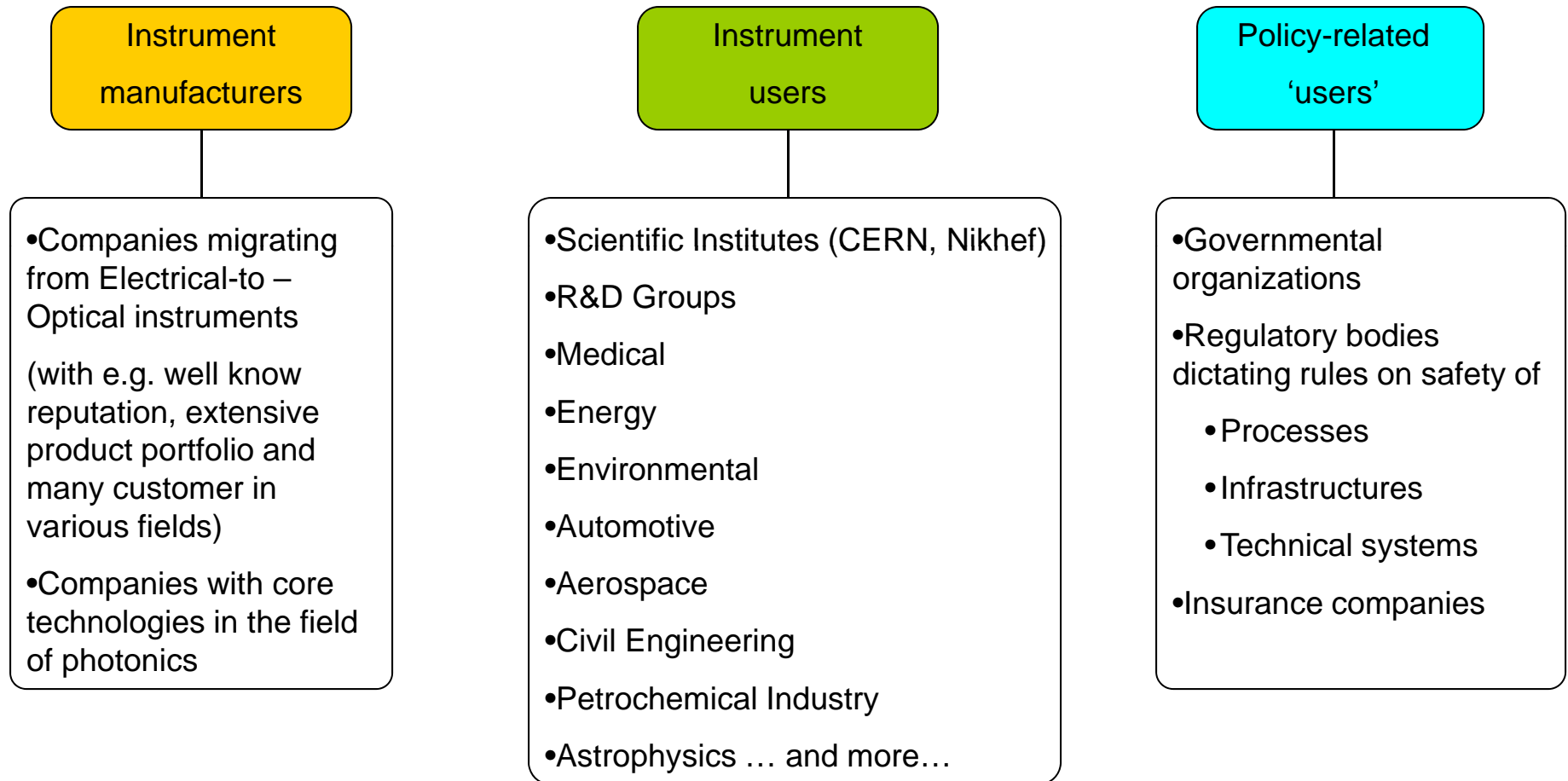


MECHANICAL OVERLOADING
ENDANGERS THE
RELIABILITY OF A CONSTRUCTION



LEAKAGE OF 1.000.000 LITER PETROL
CAUSED WIDE-SCALE POLLUTION
AND FOREST FIRE







Tasks of the EuroPIC project



- Dissemination
- Exploitation Plan
- Intellectual Property Management
- Training
- Brokering User Access to the platform
- Publication of scientific results



Dissemination activities



Objective

- To expand the potential user base through publicity and dissemination of information about the project
- To manage the **User Group** of interested companies and academic groups external to the project
- To define a future working legal framework (including IP) for the fab – user interaction and for the interaction between partners
- To organize and deliver design training and support for platform users
- To give technology and market direction and timelines i.e. roadmaps
- To develop exploitation plans for the platform technology



EuroPIC Project partners



- EPIC (1)
- Willow Photonics (2)
- VanderHoekPhotonics (3)
- Oclaro
- CIP
- Photon Design
- University of Cambridge
- Baas
- BB Photonics
- Cedova Photonics
- COBRA
- Genexis
- PhoeniX
- Alcatel Thales III-V Labs
- Filarete
- FiberSensing
- Fraunhofer Gesellschaft / Heinrich Hertz Institute

- (1) Dissemination and Exploitation
- (2) Task Leader Dissemination - in combination with project coordinator COBRA
- (3) User Group

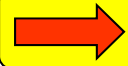



Activity Description



- The User Group
- Dissemination Activity
 - External Website
 - Newsletter
- Training and Design Support Activity
 - Make use of existing training capability at JePPIX facilities (TU/e course was held on Nov '09)
- Exploitation and Intellectual Property
 - Models for the 'User-Fab' relationship
- Brokering User access to the platform

- Deliverables

<i>Title</i>	<i>Lead Partner</i>
– Internal (secure) website	COBRA
– External website	COBRA
– Design Manual	Joint with WP4 Oclaro
– Newsletter Issue 1  Shortly!	EPIC
– Newsletter Issue 2	EPIC
– First User Group meeting held (Planned April '10)  effective TODAY!	VDHP



Aims of the EuroPIC User Group



- User Group: Now about 40 groups interested. At the end of the project : 100 groups targeted
- Some major aims of the EuroPIC User Group are:
- To initiate discussion between existing and new members of the User Group community about their technology requirements
- To inform the EuroPIC consortium about specific trends and emerging applications for dedicated PICs
- To participate in the success of the EuroPIC project by:
 - Indicating the value of PICs for specific business segments
 - Initiating novel applications using (prototype) PICs realized by the project partners
 - Putting forward business cases indicating the strong and enabling position of PICs for specific applications and projects



Benefits of User Group Membership



- No fees involved...
- Unique opportunities for early participation in exciting developments!!
- Provide an 'Industry Voice'
- 'Front-seat' position to express interest in specific PIC applications enabling expansion of your business activities and technology potential
- Be informed on first-hand on progress of the EuroPIC program and technology achievements



Roadmap to User Group expansion



- User Group Membership is open to e.g.
 - Universities
 - Industry
 - Government
 - Regulatory Bodies
- Invitation to become a User Group Member can be via e.g.
 - Personal contacts between EuroPIC project partners and potential User Group Members
 - Flyer / email, based on data base information of e.g. National Photonic Cluster organizations
 - Already established participation in the JePPIX program
 - Expression of the interest by a party itself



Invitation to User Group Membership !



Don't miss the unique opportunity to express your (potential) interest to become a member of the EuroPIC User Group!!

Fill in the subscription form available shortly after this meeting at the EuroPIC website

or

contact me via

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