



ICT Policy in The Netherlands

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Overview Presentation

- General situation in The Netherlands
- Overview of Programmes
- Recent development of new programme:
Pôle de Compétitivité



ICT Policy in The Netherlands

- Several Ministries involved
- Basic versus Industrial R&D
- Special Funding available



Overview of Programmes

- Co-operation instrument
- Special industrial R&D arrangements
- Innovative Research Programmes
- Top Technological Institutes
- Tax Credit Scheme
- Investments in Knowledge Infrastructure
- Pôle de Compétitivité



Tax Credit Scheme

- General tax deduction of labour costs for R&D employers
- All R&D. Not specific ICT
- 42% for first € 110.000
- 14% for rest (% yearly fixed)
- Max: about € 8 million per company
- Yearly budget: About € 400 million



Investment in knowledge infrastructure

- Natural gas reserves; extra impulse
- 2004: € 805 million (3rd impulse)
- € 228 million ICT & € 120 Nanotechnology
- New funding available



PdC

- Initiative by industry after invitation of Minister
- Public-Private-Partnership
- Involves many (all) relevant actors
- Focus and mass for NL
- Sustainability
- More than technology alone



PdC targets for Government

- Approach: more structured policy
- Clear impact
- Network of large and small organizations
- High quality labour
- Open Innovation System
- Open chains
 - R&D chain
 - Production Chain

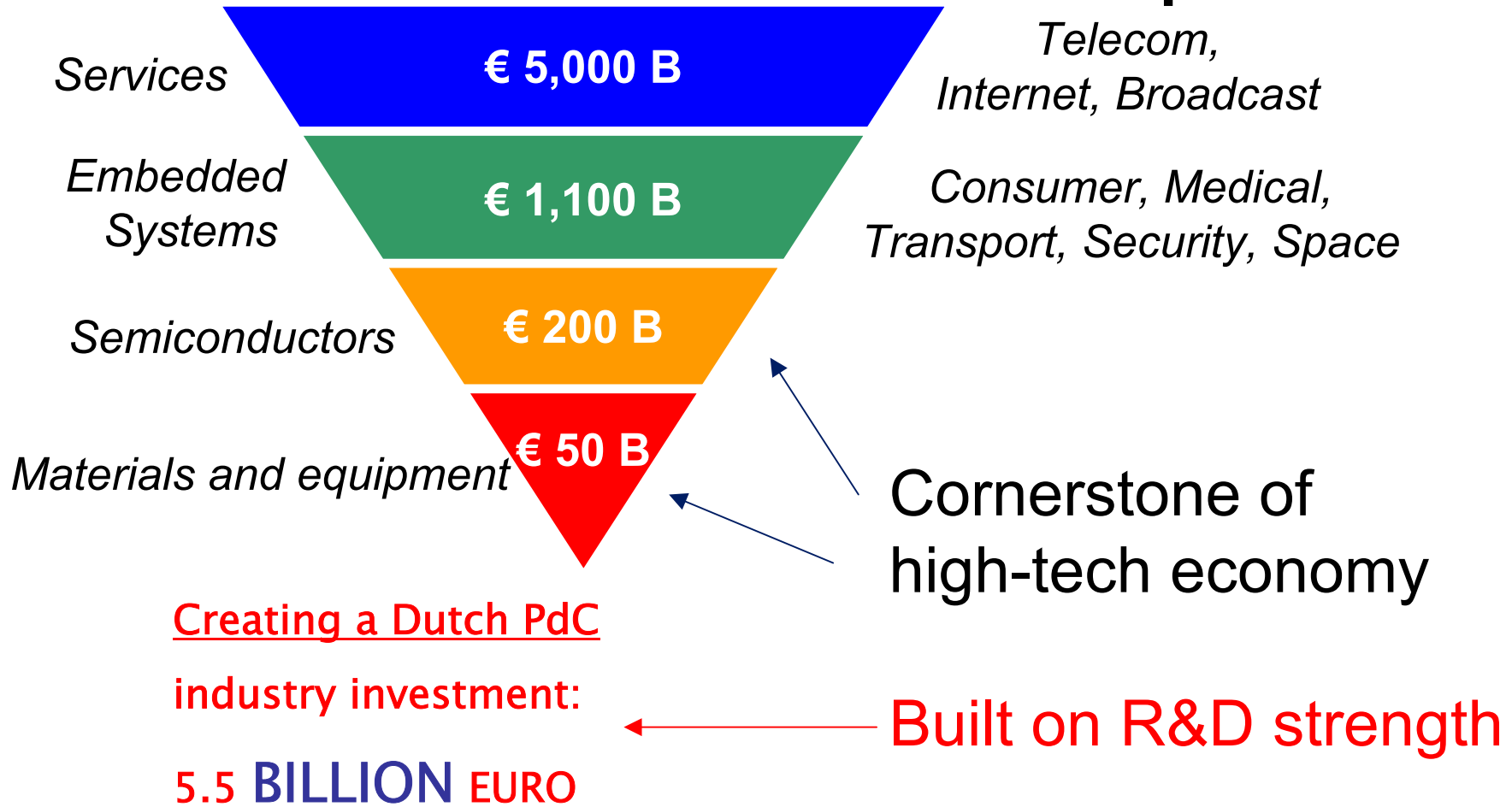
Pervasive presence of Microelectronics



Micro/nanoelectronics: engine for economic growth

- Mandatory for the competitiveness of many different industries
- High growth
- Job creation
- Driver of the Information Society

The industrial landscape





Status Quo

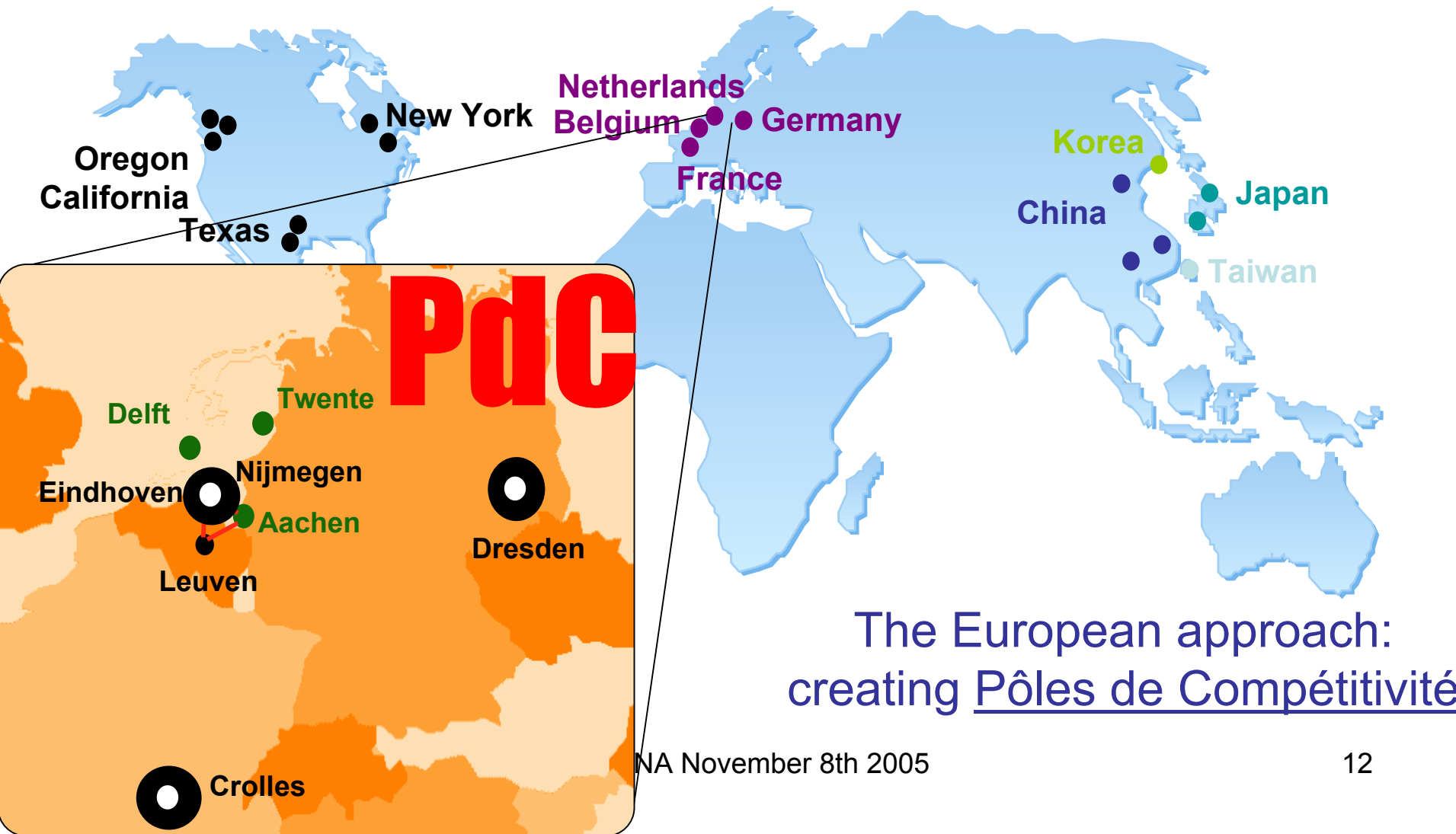
The USA, Japan and The Netherlands are the only countries that are home to leading players in

- Semiconductor manufacturing equipment
- Semiconductors and
- Electronic applications

with recognized competitiveness on a global scale.

Pôle de Compétitivité initiatives can build on this strength.

Most important micro-electronics development centers





The 47 players of « MINALOGIC »

Companies



Education and research



Local Authorities



Economical Development structures



Dutch PdC pilot, just beginning.

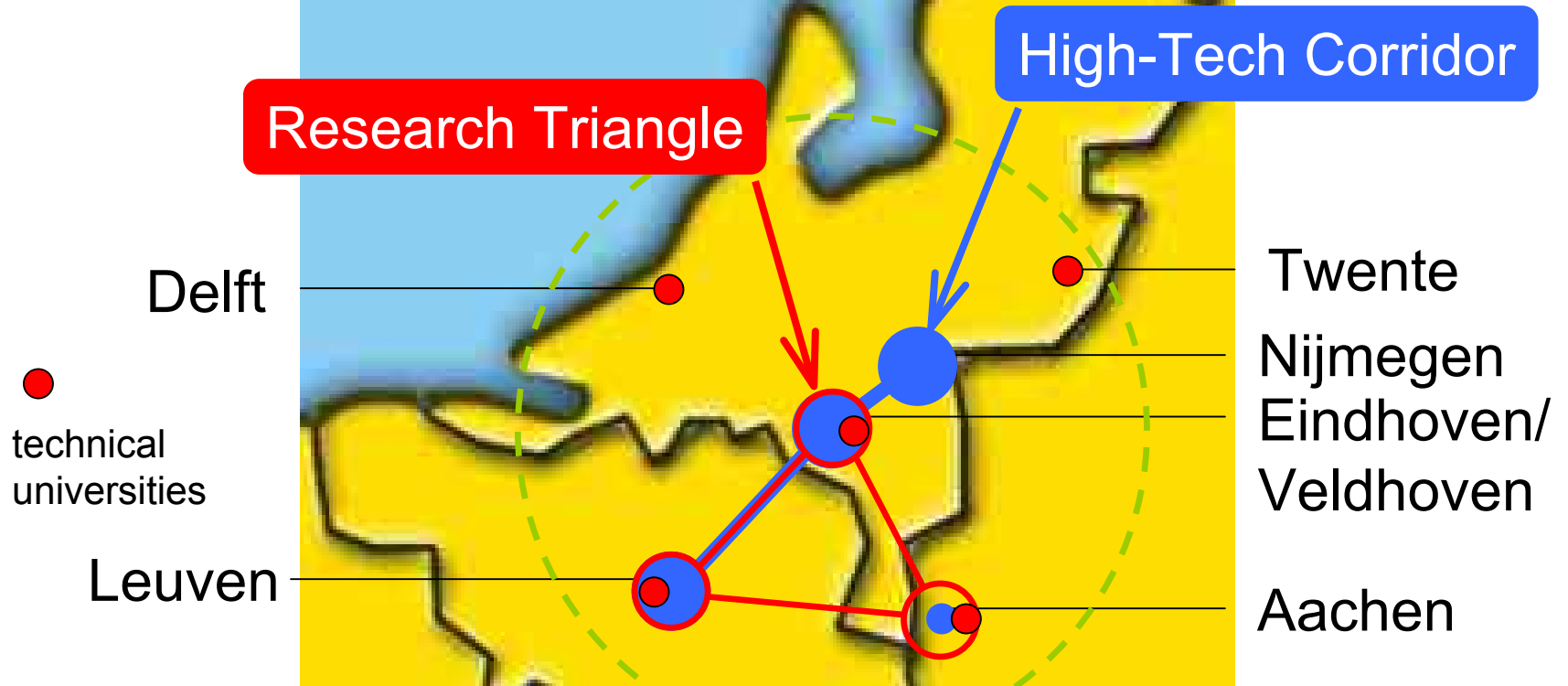


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European R&D Ecosystem

Technology for Manufacturing and Design

Strong participation of MEDEA+/ITEA members



5,500 Million Euro R&D investment (2007-2011) on nanoelectronics & embedded systems. 960 Meuro in PdC schemes.

Ecosystem represents ca 40% of Dutch private R&D expenditures

Pillars of Dutch *Compétitiv*



More Moore

Compute

More than Moore

Interact with user and
environment



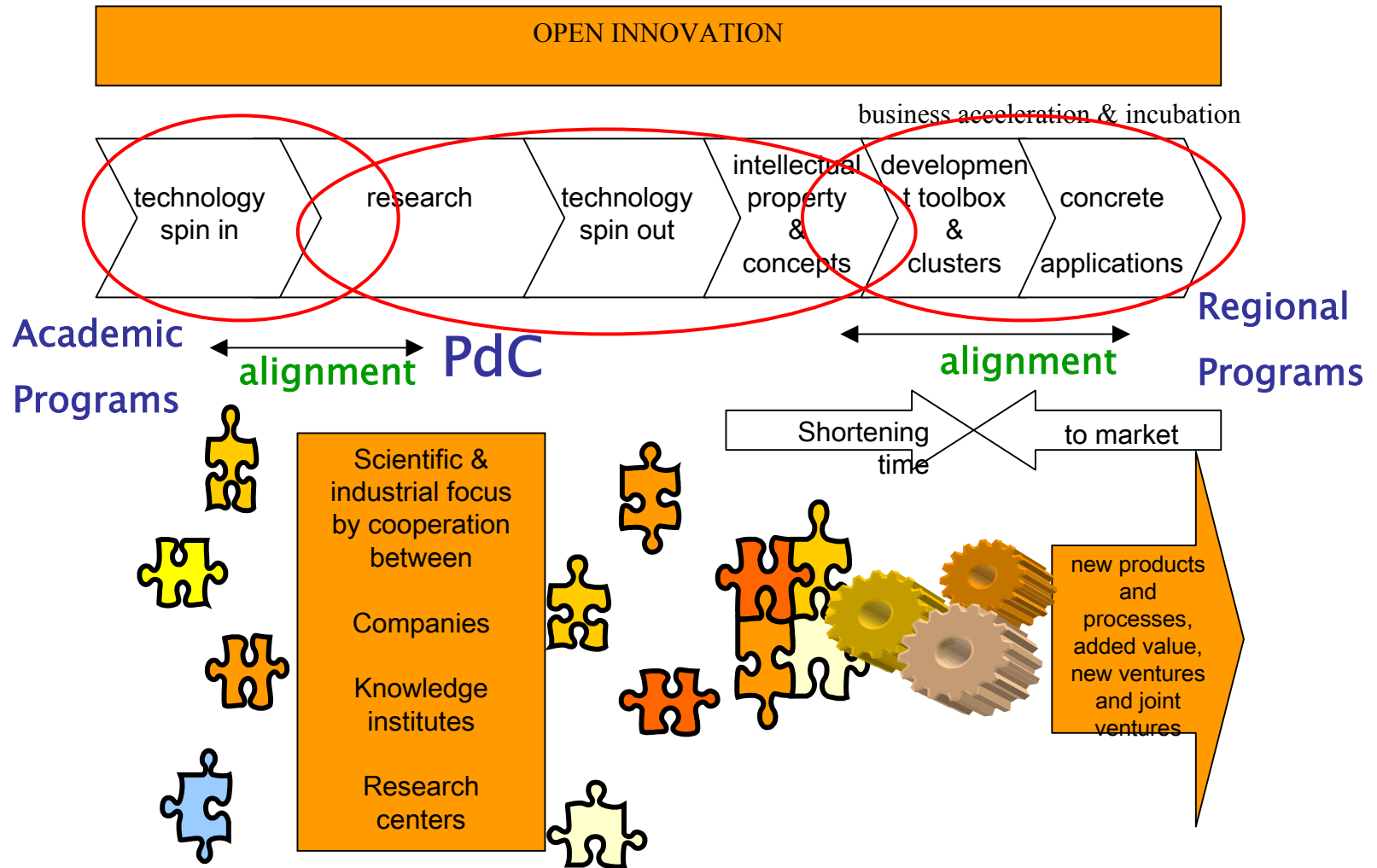
Embedded Systems
Enabling Technology

High-Tech

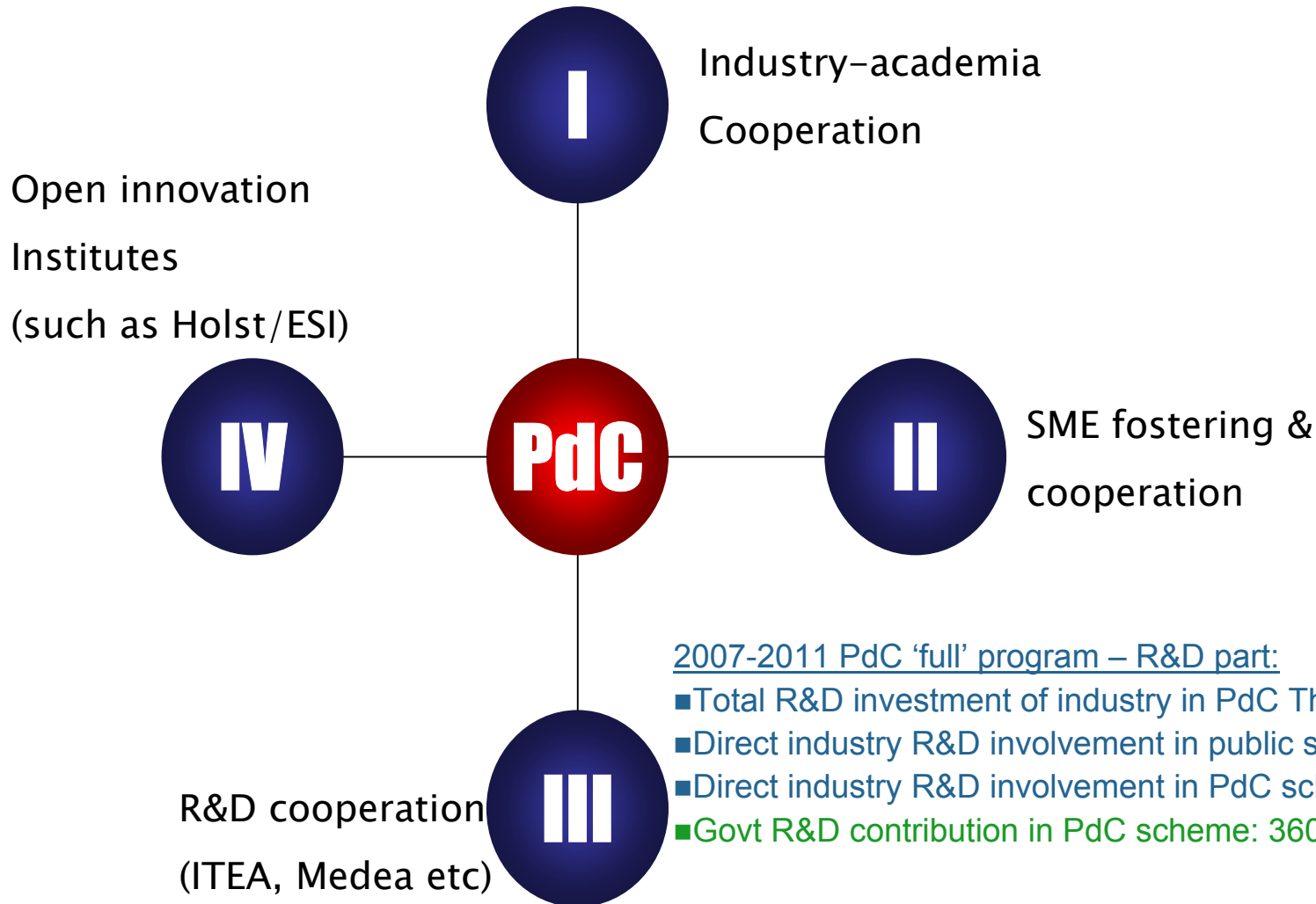
ARTEMIS

PdC in the innovation chain

creating focus along the line



PdC 'full' program, 2007-2011



2007-2011 PdC 'full' program – R&D part:

- Total R&D investment of industry in PdC Themes: 5.5 BILLION
- Direct industry R&D involvement in public schemes: 1.6 BILLION
- Direct industry R&D involvement in PdC scheme: 1 BILLION
- Govt R&D contribution in PdC scheme: 360M€ (NL) + 120M € (EU)

(Total govt contribution (incl. EU): 750 MILLION Euro)

Q405

PdC time schedule

2006

2007

2009

2011

Start-up

- Program initiative
- National PdC conference
- Program plan
- Official launch (7 dec)
- Establishing the organization:
 - Legal entity
 - PdC org. structure
 - Process descriptions
 - Build-up Office

Pilot

- ITEA, Medea
- Specific pilot projects on:
 - R&D cooperation
 - Institute support(118 Meuro cost)
- Organization in place

Some of presently involved parties:

ASML, ESI, Assembléon, Sioux, GrassValley, Adimec, Thomson, Eqcologic, TUD, Océ, Atos Origin, Philips, TU/e, Sigmax, TMS, ASMI, Radboud, Roessingh, Fraunhofer, NTS, DRPP, Siemens VDO, UT, Logica CMG, FEI, IMEC, Bruco, AnSem, TNO, Xsens

‘Full’ Program

- Increase in R&D program line (960 Meuro R&D investment incl. ITEA, Medea)
 - University-industry cooperation
 - SME ‘lifting’
- In close cooperation with:
- Research program agencies
 - Regional development agencies



PdC Successful?

- Creation of a complete Production Chain
- (New) suppliers to major companies
- New “major” companies (by growth)
- Industrial base fixed in NL