

Towards a **E**uropean **R**esearch **A**rea in **I**ndustrial **B**iototechnology: **ERA-IB**

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Why ERA-NET?

“Reduce fragmentation of research efforts made at national level in Europe”

Coordination because:

- Achieving **critical mass**, better use of scarce resources
- **Join forces** to provide common answers
- Addressing **global issues**
- Developing **common approaches** (e.g. ethics, standards)
- Addressing specific **geographical issues**
- Speaking with **“one voice”**

While ensuring:

- Avoid overlap and build up of expertise
- Exchange of good practices
- Access to expertise



What is IB?

clean *industrial* production with:



biological
feed stocks



fermentation of
sugars in yeast



chemical products:
ethanol, insuline, ...

Why ERA-IB?

- IB: essential to transfer chemical (-related) industry to a sustainable sector
- IB: a key technology to reach the Lisbon objectives
- European chemical and biotechnology industry is united in the European Technology Platform for Sustainable Chemistry
- On national level IB is included in strategy and currently R&D policies are being defined and implemented
- Now coordination and cooperation on a European level is needed!

National level:

Advanced Chemical Technologies for Sustainability

Process on a Chip



Advanced Sustainable
Processes by
Engaging Catalytic
Technologies



Applied Catalysis European
NETwork



Sustainable Hydrogen



Bio-based Sustainable
Industrial Chemistry



towards a European Research
Area in Industrial Biotechnology



Integration of Biosynthesis
and Organic Synthesis



Alignment of IB activities

European level: ETP-SusChem Technology Sections

Industrial Biotechnology

Marcel Wubbolts
DSM



Materials Technology

Rüdiger Iden
BASF



Reaction & Process Design

Klaus Sommer
Bayer



SusChem Strategy:

Vision



February 2005

Strategic Research Agenda



November 2005

Implementation Action Plan



August 2006

Creating synergy, critical mass and competitive edge



- Member states activities SusChem
- ERA-IB partner
- ERA-IB observer

● Israel

Partners ERA-IB



NWO – The Netherlands



CSO-MOH / MOST - Israel



MICINN / FECyT - Spain



TSB - UK



ADEME -France



NCBiR - Poland



CNMP - Romania



DASTI - Denmark



FCT - Portugal



BeISPO - Belgium



MSES - Croatia



TEKES – Finland



BMBF / FZJ / FNR / SMUL - Germany

Observers: Slovenia, Norway, Sweden, Italy

Ambition ERA-IB

Creating a true European Research Area in the field of Industrial Biotechnology by:

- stimulating and supporting **coordination** and the development of a joint approach
- enhance **cooperation** between national and regional programmes
- increased **effectiveness** of research programming and management
- **joint activities** in the ERA-IB
- joint approach towards the **societal issues**

Approach ERA-IB

ERA-IB brings together the most important countries in Industrial Biotechnology. The aims of the consortium will be achieved in a four step approach:

1. Systematic exchange of information and best practices, resulting in a status quo of IB in Europe
2. Strategic actions towards joint procedures and strategies
3. Joint strategic activities between national research programmes
4. Development of new transnational research programmes, in close cooperation with section IB of ETP-SusChem

Implementation plan ERA-IB

WP6: Future of the network



WP5: Coordination and clustering of RTD programmes and new strategic transnational research programmes



WP4: Joint procedures and strategies

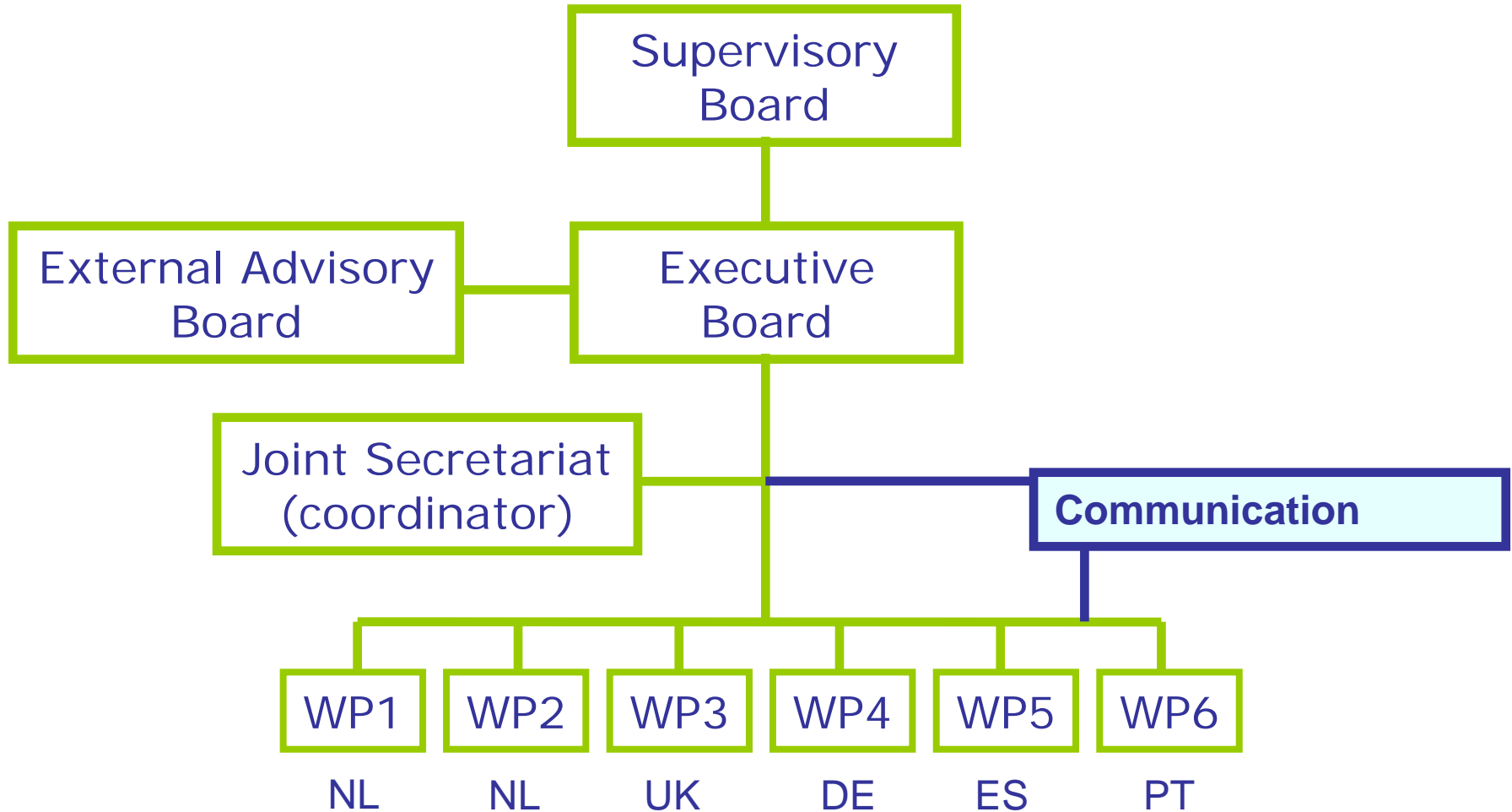
WP3: Status quo of IB in Europe



WP2: Coordination and communication

WP1: Management

WP1/2: Management, coordination and communication



WP2: Examples of Communication results

Communication tools:

- ERA-NET platform meetings
- website
- extranet
- portal
- market place
- flyer
- poster
- presentations
- satellite meetings

poster



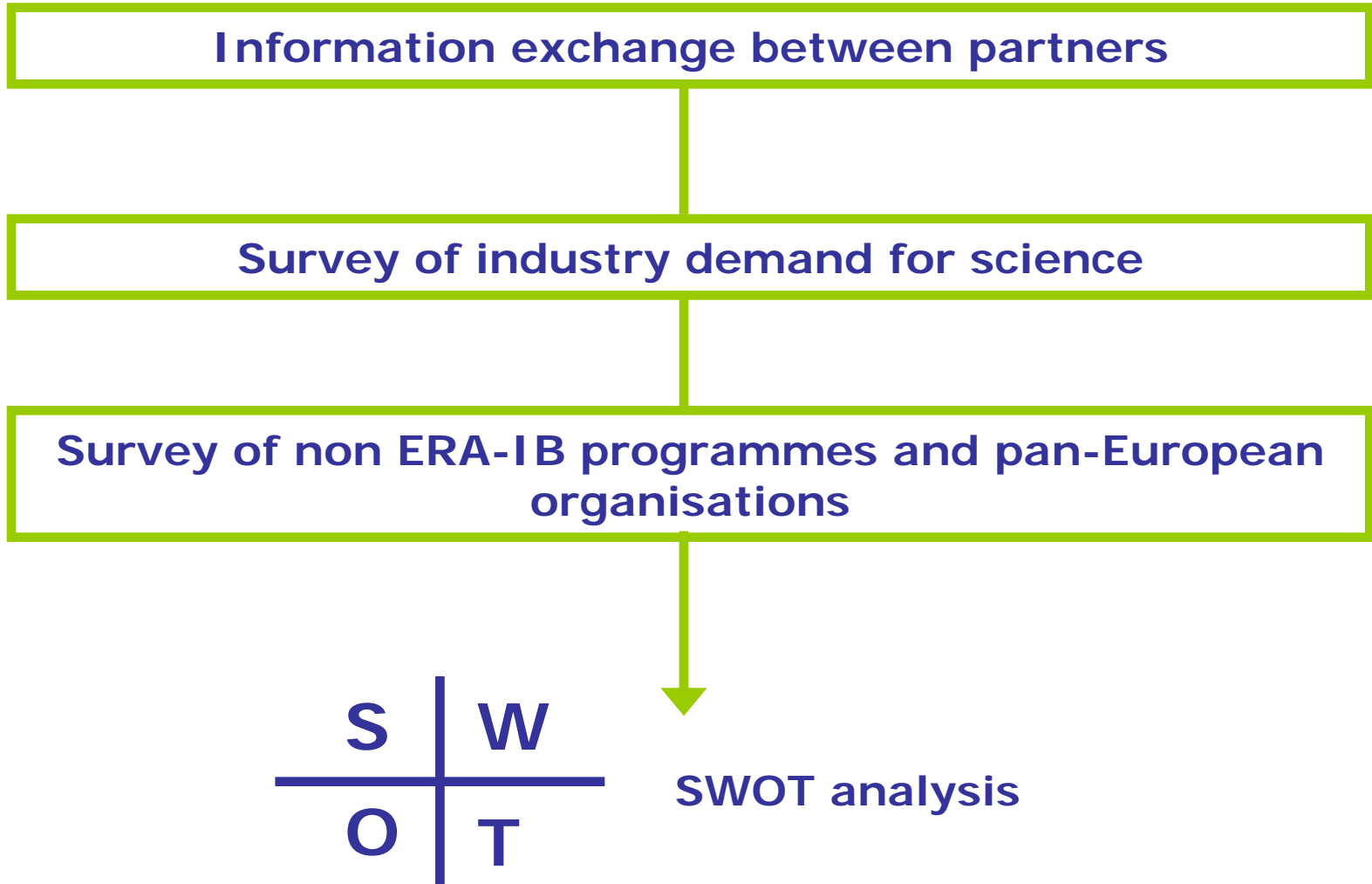
website



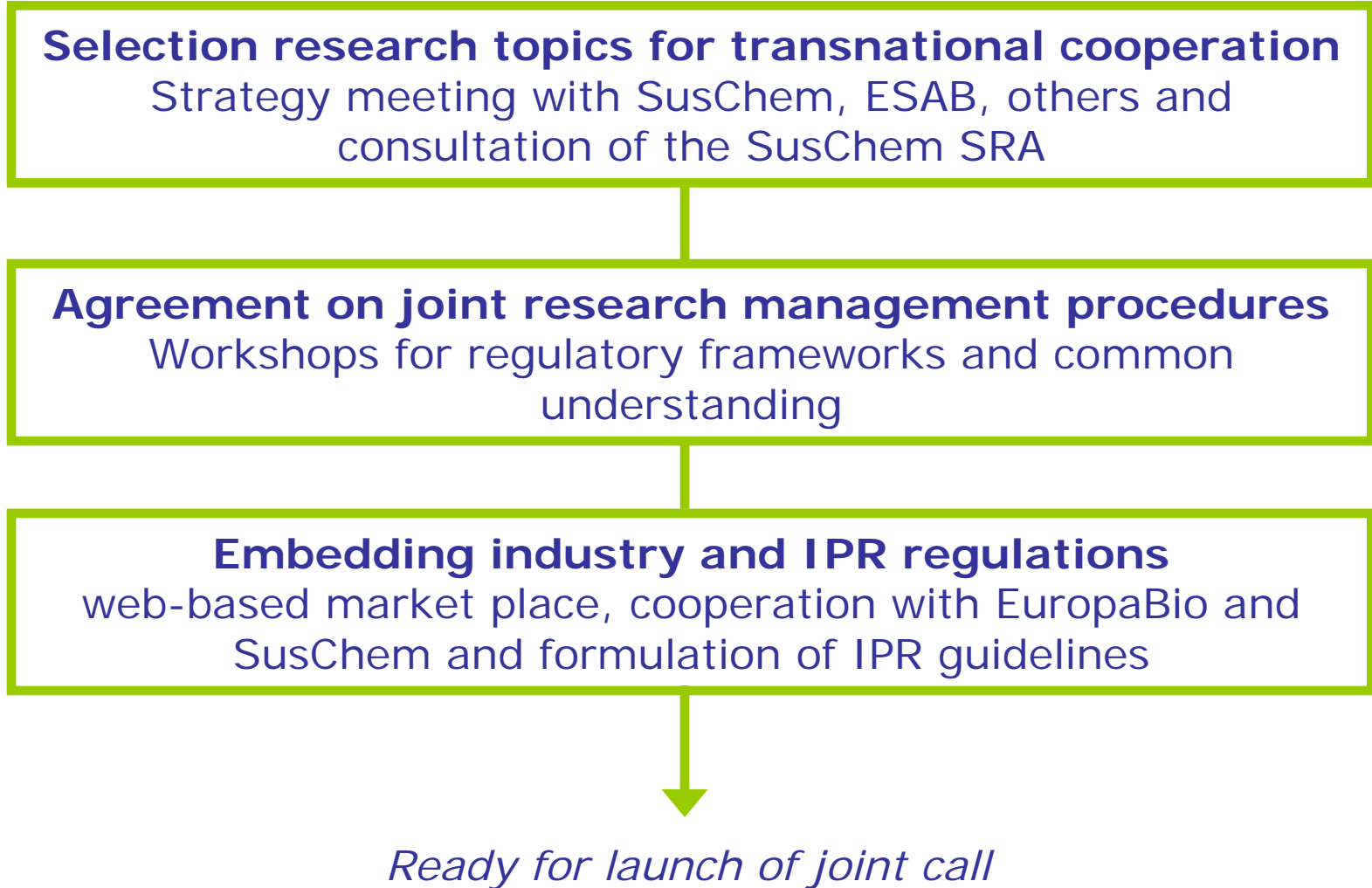
flyer



WP3: status quo of IB in Europe



WP4: Joint procedures and strategies



WP5: clustering and new transnational research programmes

Clustering of running programmes

- Identification of overlapping programmes
- Cluster action plan
- Joint activities



Joint calls

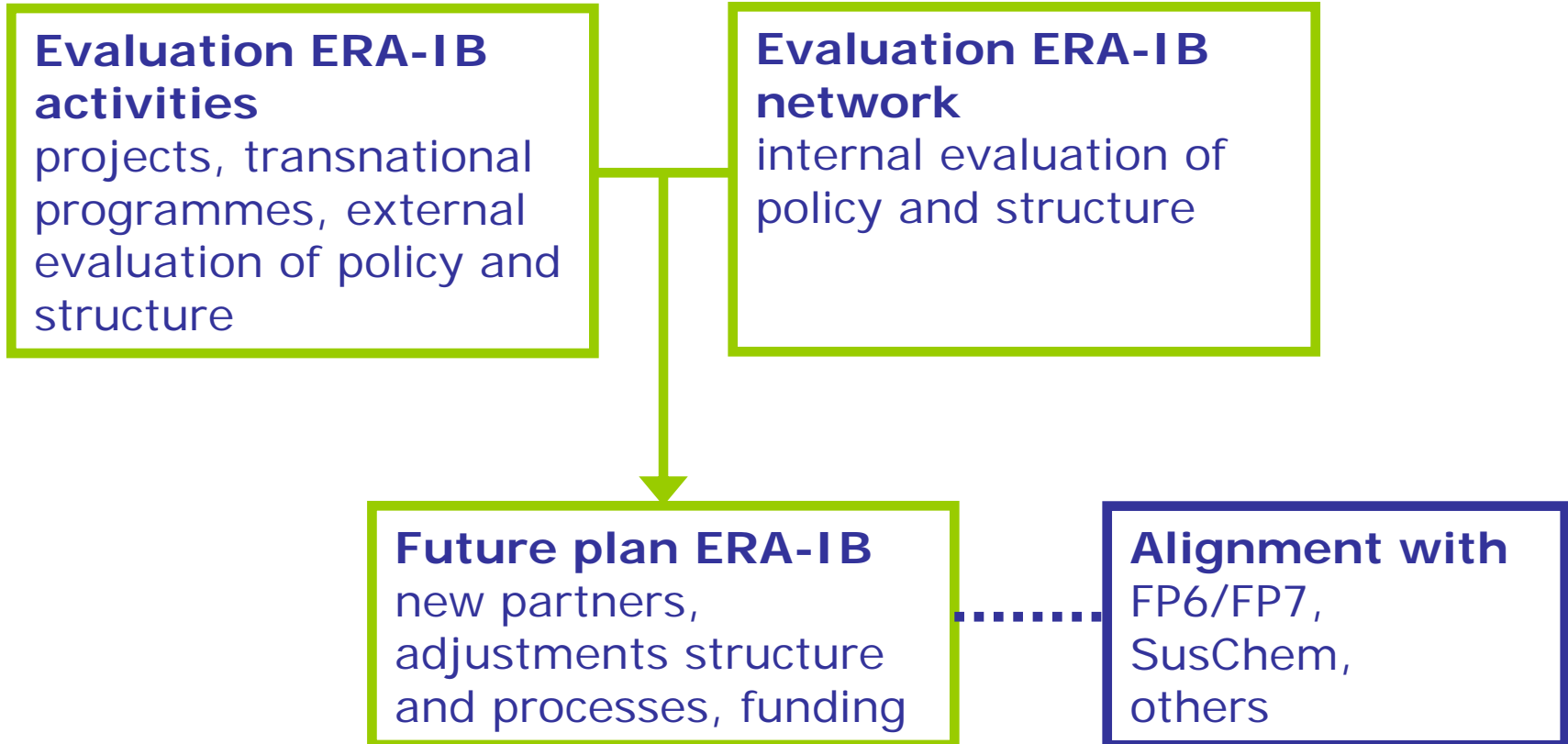
- 1st call: 2008, start projects 2009
- 2nd call: preparation stage, call probably in 2010

New transnational research programmes

WP5: 1st joint call

- Theme: “Industrial biotechnology for Europe: an integrated approach”
- Open for researchers from 9 ERA-IB countries
- Pre-proposal and full proposal stage
- Evaluation by Expert Panel and peer reviewers
- Result:
 - 8 granted projects
 - 51 granted groups and 7 groups with own funding
 - 12 industrial groups participating in the projects
 - Total granted budget: 9.7 Million €

WP6: Future of the network, starts now



Towards a European Research Area in Industrial Biotechnology = ERA-IB

ERA



IB

European Research Area
Industrial Biotechnology

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