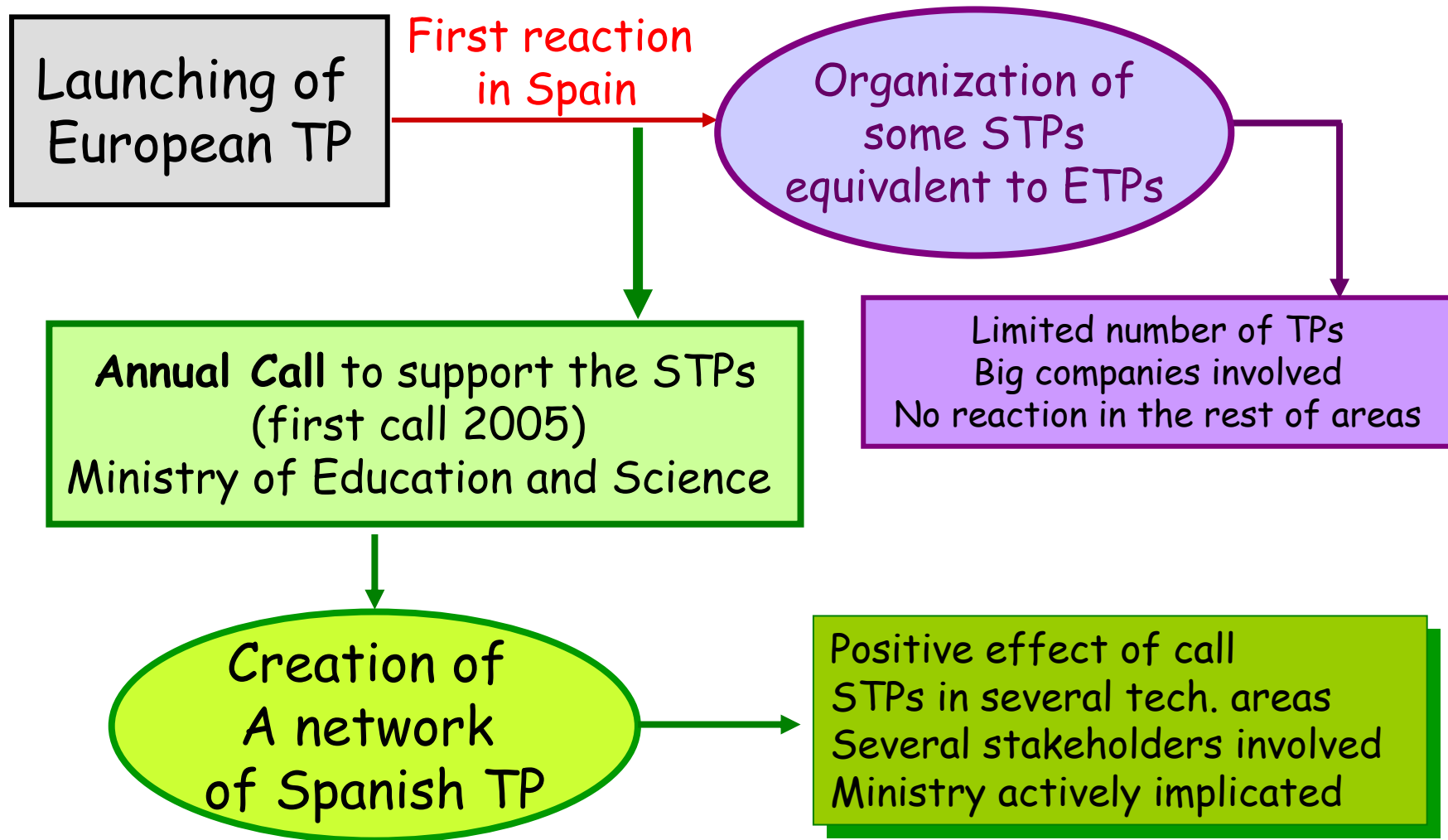


ETPS and TPS in Spain

María Luisa Castaño
General Direction of Technology Policy

MINISTRY OF SCIENCE AND INNOVATION

Origin of the Spanish Technology Platforms (STPs)





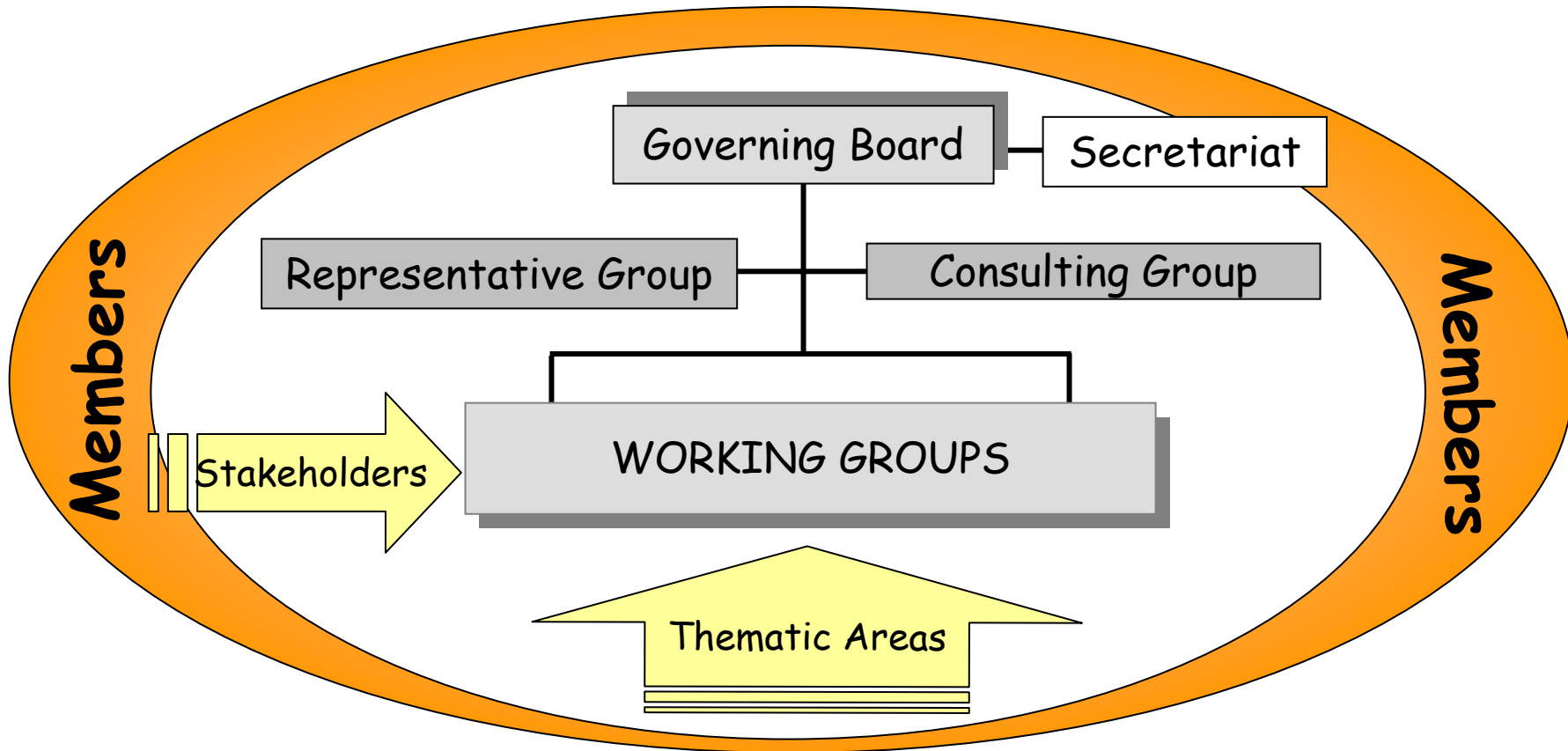
❖ Some definitions

- **Forum** of discussion and tool of a technology area
- Instrument to identify, develop and review **technology initiatives**
- **Advisory** group on research for public and private institutions

❖ Objectives

- *Promotion and impulse* of technology development and innovation
- Creation of a **culture of innovation** based on the knowledge
- **Definition of priorities** and coordination of R&D activities
- Proposals of **R&D Projects**
- Identification of a **common strategic** on R&D
- Activation of development and use of innovative technologies and industrial process
- Search technologic **opportunities** for industry
- Determination of technological, social, economical and regulation **barriers** for technology development and use

Basic Structure of STPs

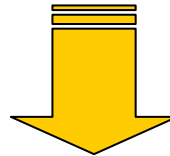


Ministry of Education of Science: Financial support to STPs as Coordinating Actions

Eligible Costs

Secretariat activities:

- Personnel: around 1-1.5 person/year
- Organization of events
- Traveling
- Edition of documents



Financial Support

95% of Eligible Costs
Around 100.000 € per year

HEALTH AND BIOTECHNOLOGY

- Innovative medicine TP
- Nanomedicine TP
- **e-Health TP**

INDUSTRIAL PRODUCTION

- Manufacturing TP
- Steel TP
- Industrial Safety TP
- Robotics TP

CONSTRUCTION

- Construction TP

COMMUNICATIONS

- NESSI
- e-Mobility
- ARTEMIS-PROMETEO
- ENIAC
- ENEM
- ESEC

ENVIRONMENTAL

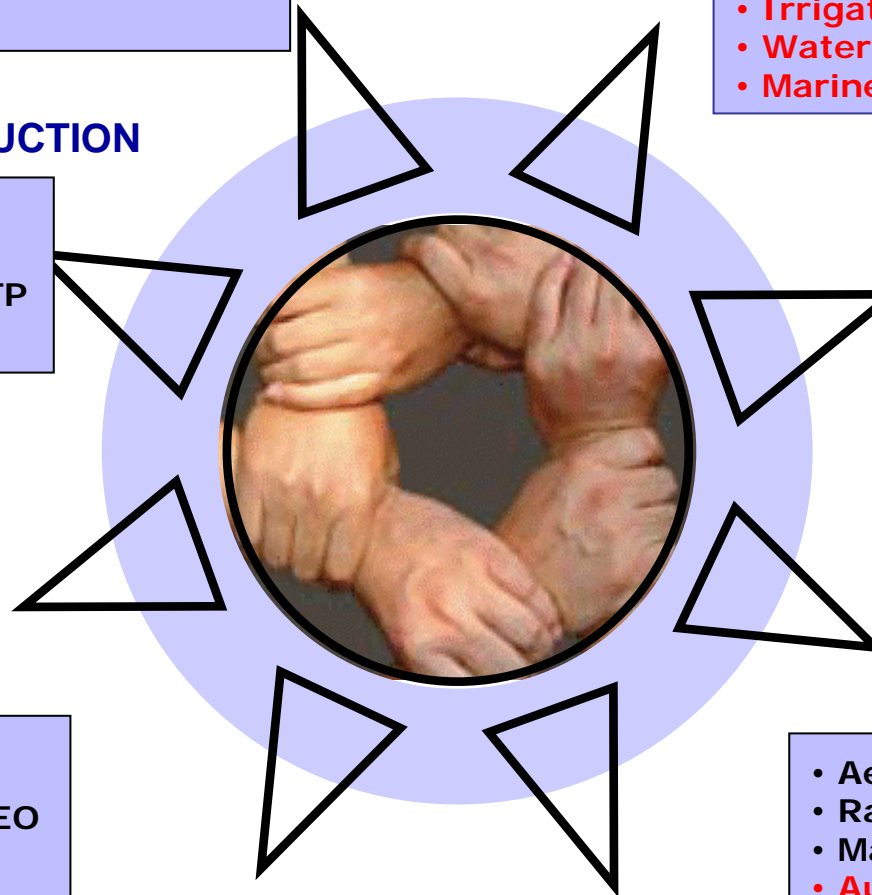
- Sustainable chemistry TP
- Forestry TP
- **Irrigation TP**
- **Water in Canary island TP**
- **Marine contaminants TP**

ENERGY

- Photovoltaic TP
- H₂ and Fuel Cells TP
- Wind TP
- Electricity Network TP
- CO₂ TP
- Biomass TP
- **Fusion TP**
- **Fission TP**

TRANSPORT

- Aerospace TP
- Rail TP
- Maritime TP
- **Automotive Components TP**
- **Logistic TP**



Red color: STP without equivalent in ETPs

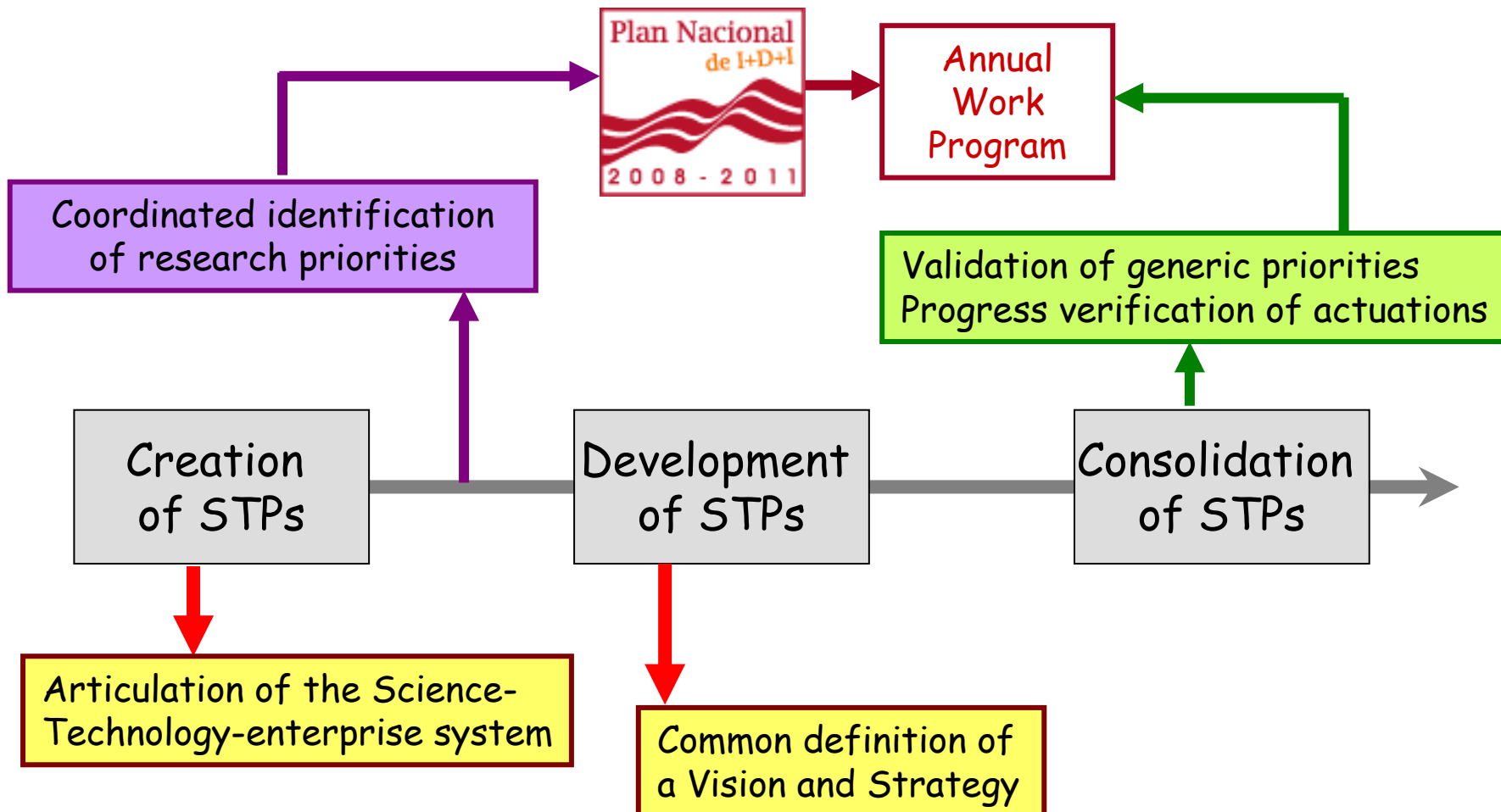
Impact of STPs after 3 years of experience

- ❖ **Articulation** of science-technology-enterprise system:
Analysis of the technology sector: opportunities, capabilities, weakness, deficiencies, etc
- ❖ First Experience of definition of a **common vision and strategy** by relevant stakeholders from public and private sector
- ❖ Definition of **research priorities** of industry in collaboration with academy agents
- ❖ Contribution from STPs to the preparation of the **National R&D Program**
- ❖ Identification of **future needs** on education and training
- ❖ Preparation of national and international **research projects**

Limitations, deficiencies and weakness of STPs

- ❖ Size of Technology platform:
 - Some TPS are too big and cover too many stakeholders.
 - Others are too fragmented and TPS are too small
- ❖ Composition of Technology platform
 - Not always the relevant technological stakeholders are involved
 - Some TPS are too academic and limited industries are implicated
 - Some TPS have a particular structure: problems of functioning
- ❖ STPs are created around an economical sector.
 - Duplication of horizontal tech.: material, electronic, etc
- ❖ Few activities on strategy implementation
- ❖ Limited collaboration with regional governments
- ❖ Only some of STPs are really coordinated with European TPS

**STPs and National Research, Development and Innovation Program
(2008-2011)**
No thematic priorities



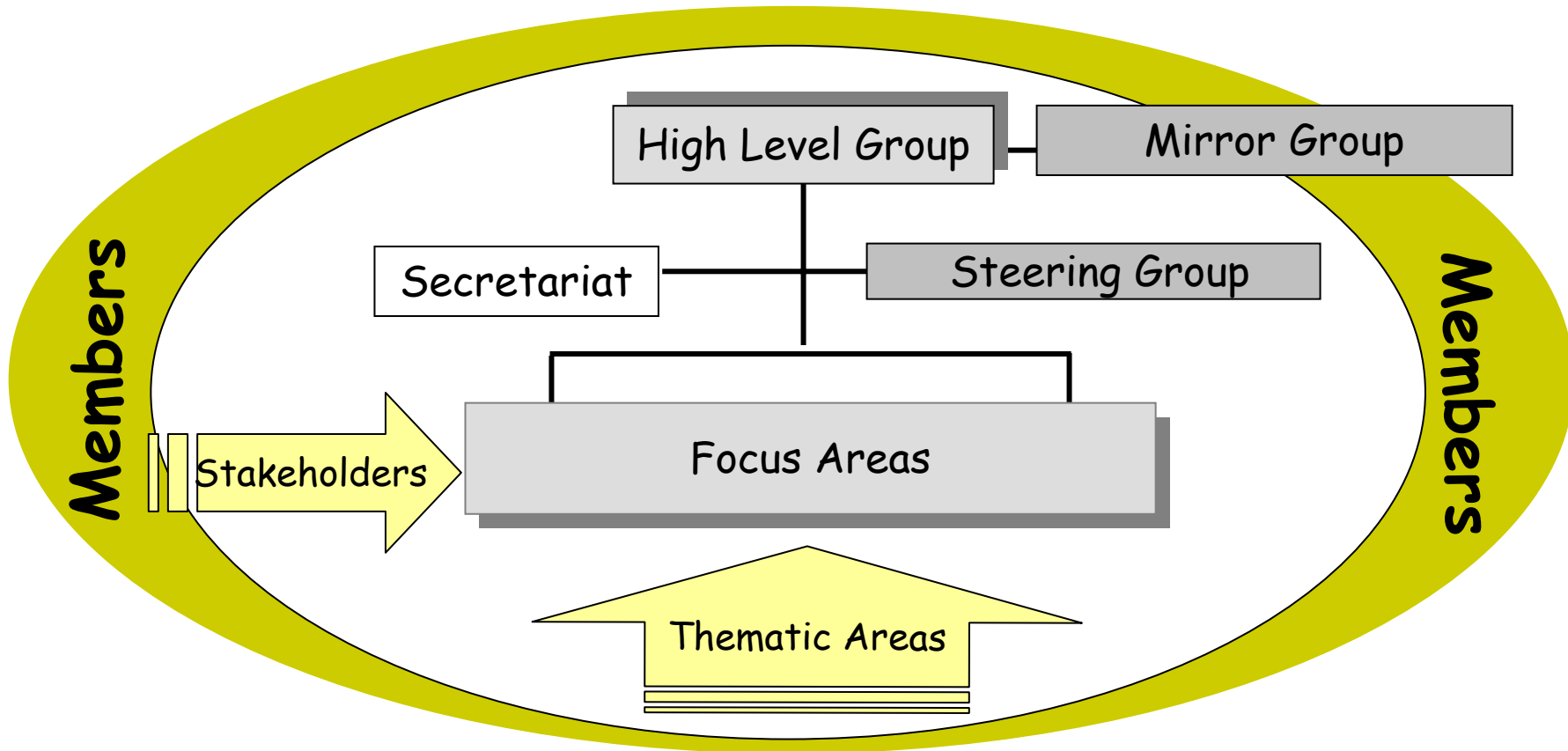
❖ Role

- *Articulation of science-technology-enterprise system*
- *Strategic Forum of a technology area*
- *Communication group on research for public and private institutions*

❖ Objectives

- *Creation of a culture of innovation based on the knowledge*
- *Definition of European research priorities*
- *Proposals of R&D Projects and JTIs*
- *Search technologic opportunities for industry*
- *Determination of technological, social, economical and regulation barriers for technology development and use*

Basic Structure of ETPs



ETPs AND NATIONAL TPs FOR R&D

