

# **MKE International Collaborative Research & Development Programme**

**2011. 10**

Korea Institute of Advancement of Technology(KIAT)

**1. KIAT – Founding, Organisation & Functions**

**2. International Cooperation Activities**

# **1. KIAT – Founding, Organisation & Functions**

- **Vision**

A world class industrial technology development institute the heads the strengthening of competitiveness in the industrial technology ecosystem

- **Major Function**

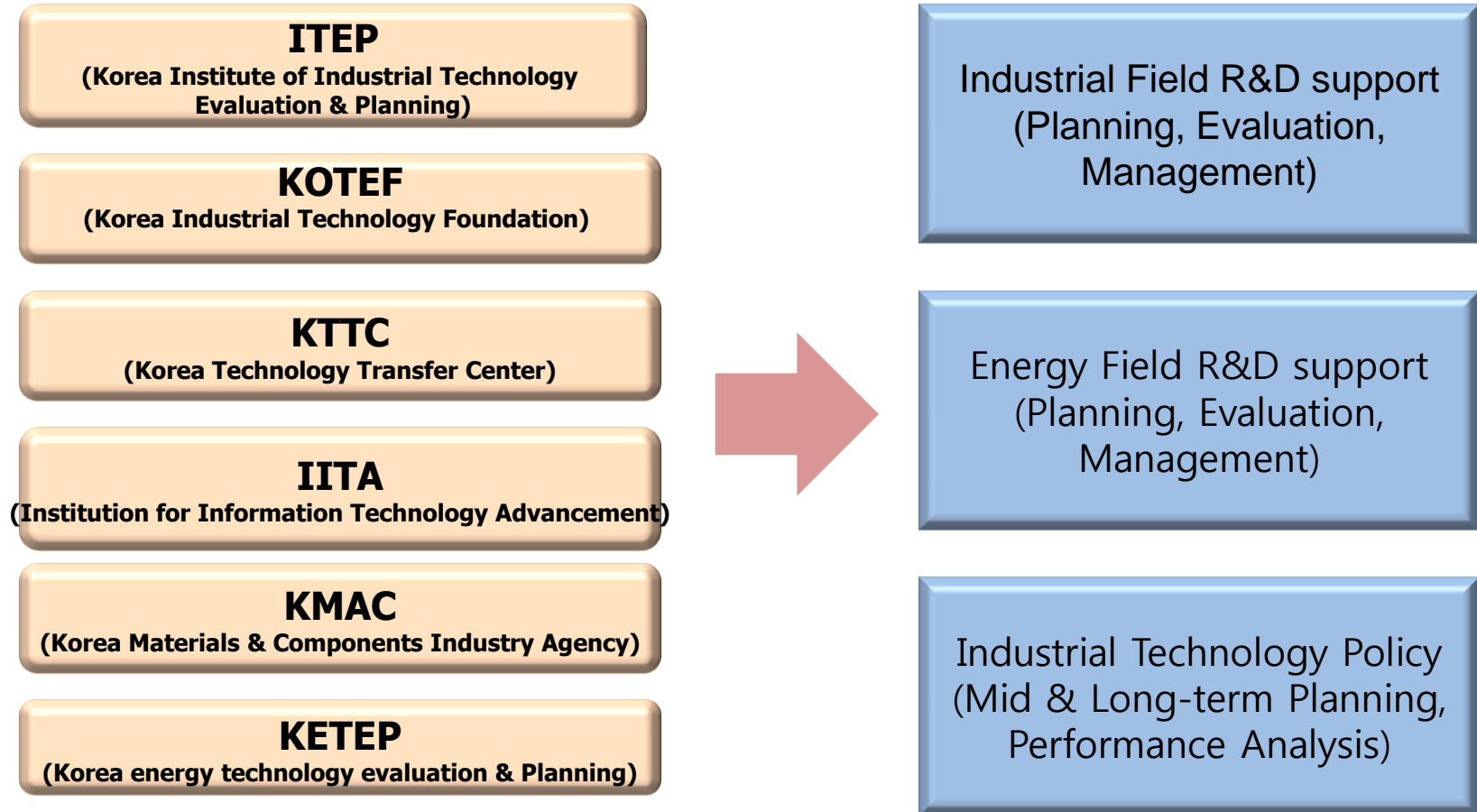
Policy Research, HR Development, International Cooperation, Mid & Long Term Planning for R&D, Commercialization, Regional Innovation

Approximately 300 staff and a total budget of \$1.17billion(2011)



- Technology Strategy Division
- International Technology Cooperation Division
- Commercialization Division
- Infrastructure Support Division
- Regional Industry Division
- Components & Materials Support Division

May 2009





# KIAT's Role in the Technology Ecosystem



## Technology Strategy Division

- Policy study and result analysis
- Technological planning and strategy makeup
- Statistics and trend analysis

## Technological Cooperation Division

- Upgrading innovation capability through international joint R&D
- Establishment of an infrastructure for strategic technological cooperation

## Regional Industry Division

- Studying regional industry supporting policy
- Evaluation and management of regional industry supporting projects
- Management of regional industry supporting projects & dissemination of results

## Commercialisation Support Division

- Commercialization policy planning and improvement of regulations
- Promotion of technology market
- Utilization of technological assets

## Infrastructure Support Division

- Planning of manpower related policy and projects
- Formation of technological infrastructure
- Establishment of an advanced corporation-university cooperation system
- Promotion of technology-friendly culture

## Components & Materials Support Division

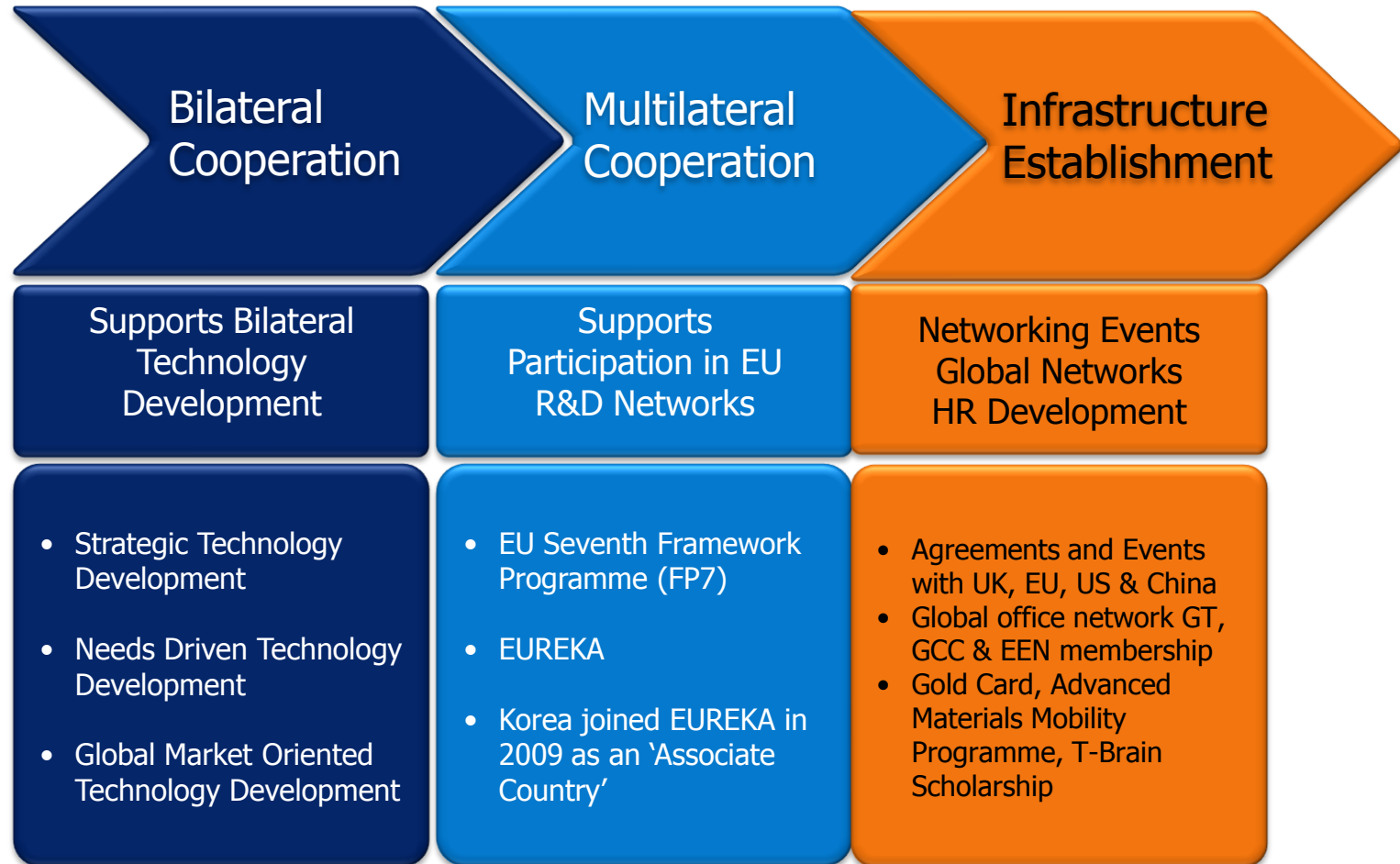
- Innovation enhancement of components and materials manufacturers
- Increase in reliability of components and materials industry
- Improving global competitiveness of components and materials companies



## **2. International Cooperation Activities**

# Int'l Cooperation: Activities

Supporting the Open Innovation of Korean R&D organisations  
through Global Technology Cooperation



- **Purpose** – to support international collaboration R&D for technology development in areas of high innovativeness, spill over affect and urgency, etc., which have been designated as strategically important
- **Project Management** - projects are to be domestically led consortia comprised of domestic participants (SMEs or large corporations) and foreign partners (corporate or academic)
- **Funding and Duration Available per Project** - €470,000 per year for a maximum of five (5) years

- **Purpose** - to enhance the level of domestic technologies by seeking collaborations with excellent overseas R&D resources and centres
- **Project Management** - projects are to be consortia comprised of domestic companies and foreign partners (corporate, academic or GRI), and can be led by a foreign partner as the lead partner
- **Technology Fields** - 11 of the 14 technology areas specified by the Knowledge Economy Technology Blueprints (tech areas excluded are electricity & nuclear power, new/renewable energy, energy & resources).
- **Funding and Duration Available per Project** - €200,000 per year for a maximum of three (3) years

- **Purpose** – To support international cooperation R&D with the ultimate goal of commercialization in the global market
- **Project Management**
  - A joint R&D project following the appointment of a domestic company as a developer of the target technology by a foreign company that will use the developed technology (Type I)
  - A project jointly pursued by a foreign outstanding university through all phases of planning, R&D, commercialisation of deliverables and penetration of local market (Type II). Domestic Small/Medium sized company leads the consortia
- **Technology Fields** – 11 of the 14 technology areas specified by the Knowledge Economy Technology Blueprints (tech areas excluded are electricity & nuclear power, new/renewable energy, energy & resources)

# Technology Categories

- 11 of 14 technology areas as specified by the Knowledge Economy Technology Blueprints are eligible for these programmes
- **Industrial Materials**
  - Metallic Materials
  - Chemical Process Materials
  - Textiles/Clothing
- **Clean Manufacturing**
  - Production based
  - Production System
  - Clean Technology
- **Transportation & Logistics**
  - Automobiles
  - Shipbuilding
  - Aerospace
- **Bio & Medical Devices**
  - Biotechnology
  - Medical Devices
- **Knowledge Services & USN**
  - Knowledge Services
  - Ubiquitous Service Networks (USN)
- **Robotics**
- **Next Gen. Mobile Communications Networks**
  - Next Generation Mobile Communication
  - Broadband Convergence Network (BcN)
- **Software & Computing**
  - Software
  - U-computing
  - Information Security
- **Electronics & Information Devices**
  - Semiconductors
  - Displays
  - LEDs
- **Industrial Convergence**
  - IT Convergence
  - Nanotechnology
- **Electronic & Information Communication Media**
  - Digital Broadcasting
  - Home Networks

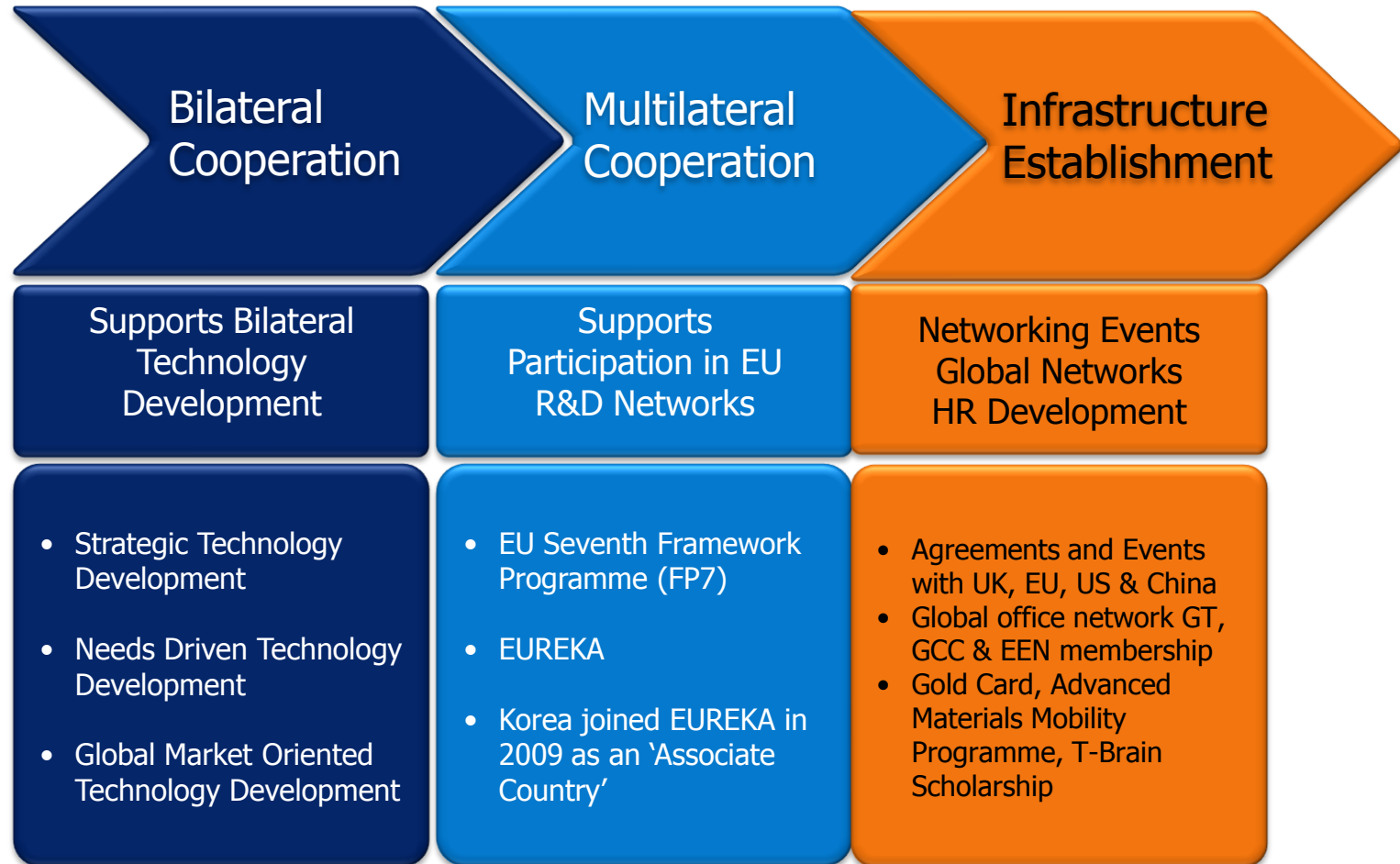


## New Projects in 2010

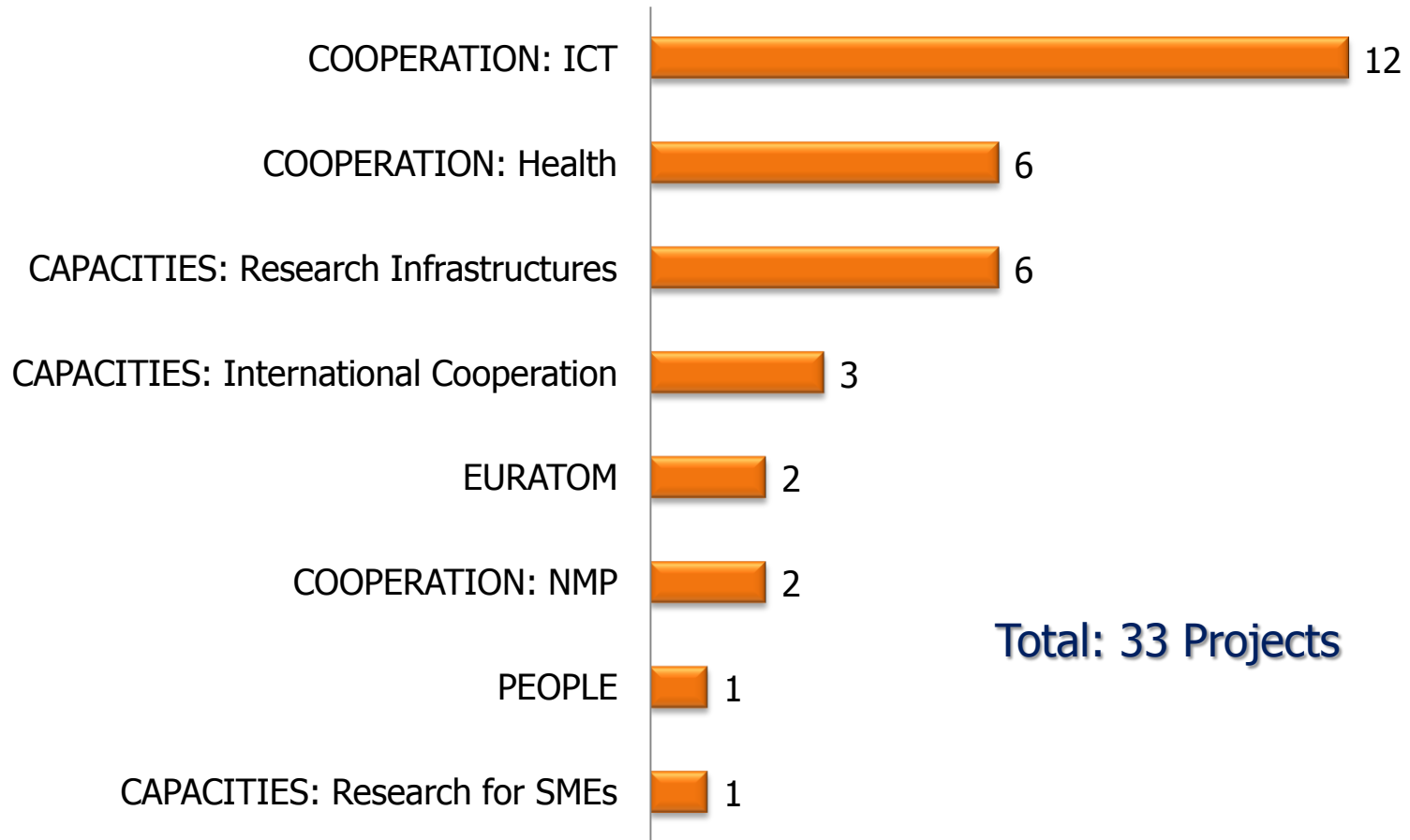
- 29 projects selected for the 2010 International Collaborative R&D Programme
- 9 projects selected from Europe (not including Russia) – 31% of all projects
- Competition ratio - 3.6 applications per 1 successful application

# Int'l Cooperation: Activities

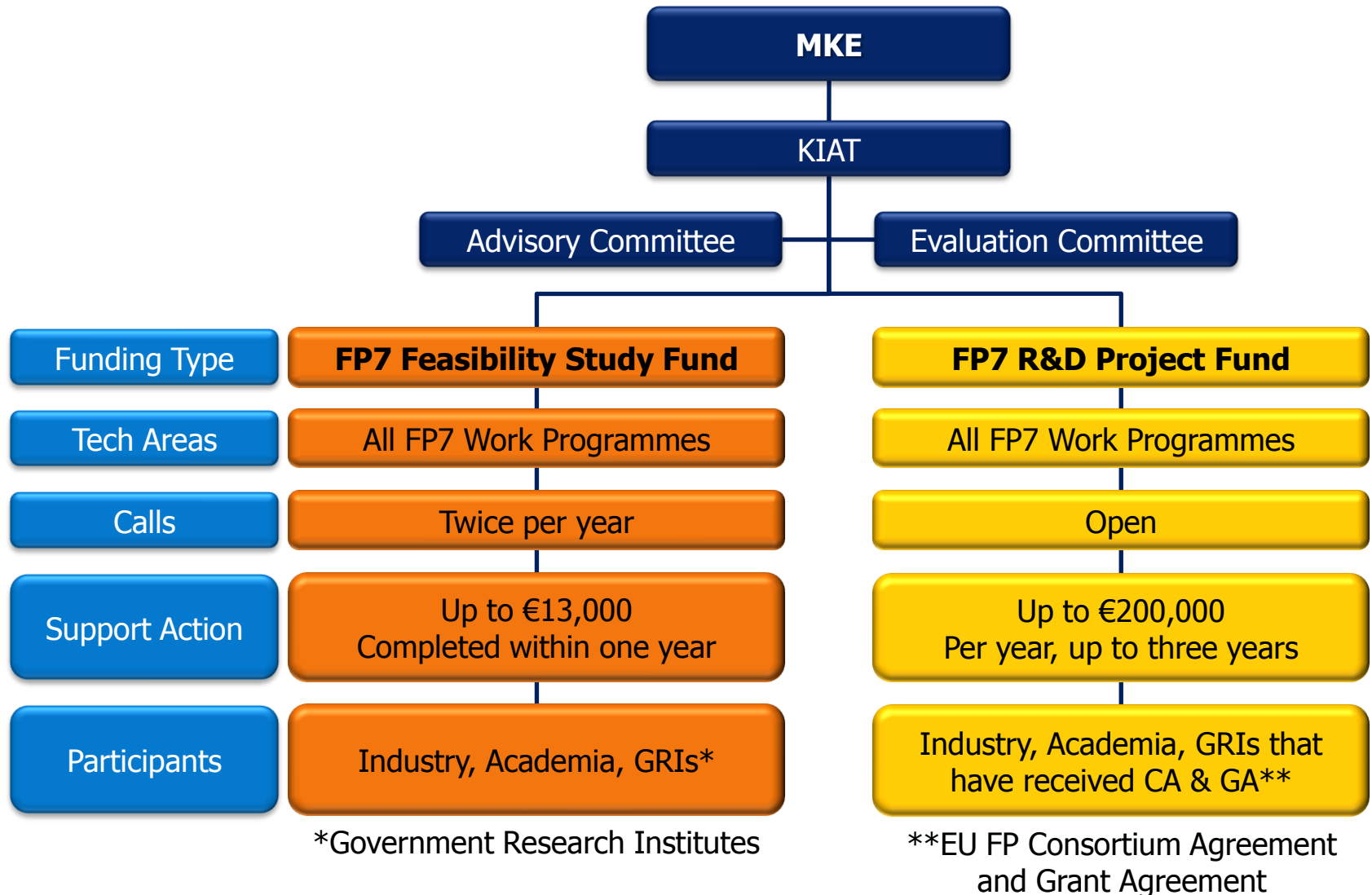
Supporting the Open Innovation of Korean R&D organisations  
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## All Korean FP7 Projects by Work Programme and Thematic Area



Source: European Commission CORDIS Website



## **Analysis & Research, Advisory Committee**

- Survey on the needs of participating organizations
- Organize advisory and evaluation committees comprised of FP participant researchers and field experts

## **Online System**

- Online information system for FP7 participation and event promotion
- Online application system
- [www.fp.or.kr](http://www.fp.or.kr)

## **Seminars, Workshops & Research Reports**

- Networking with EU member countries
- Training for participating organizations
- Delegation visits to the EU for training and matchmaking
- Research report on EU FP

## **Funding for Korean Participation in FP7**

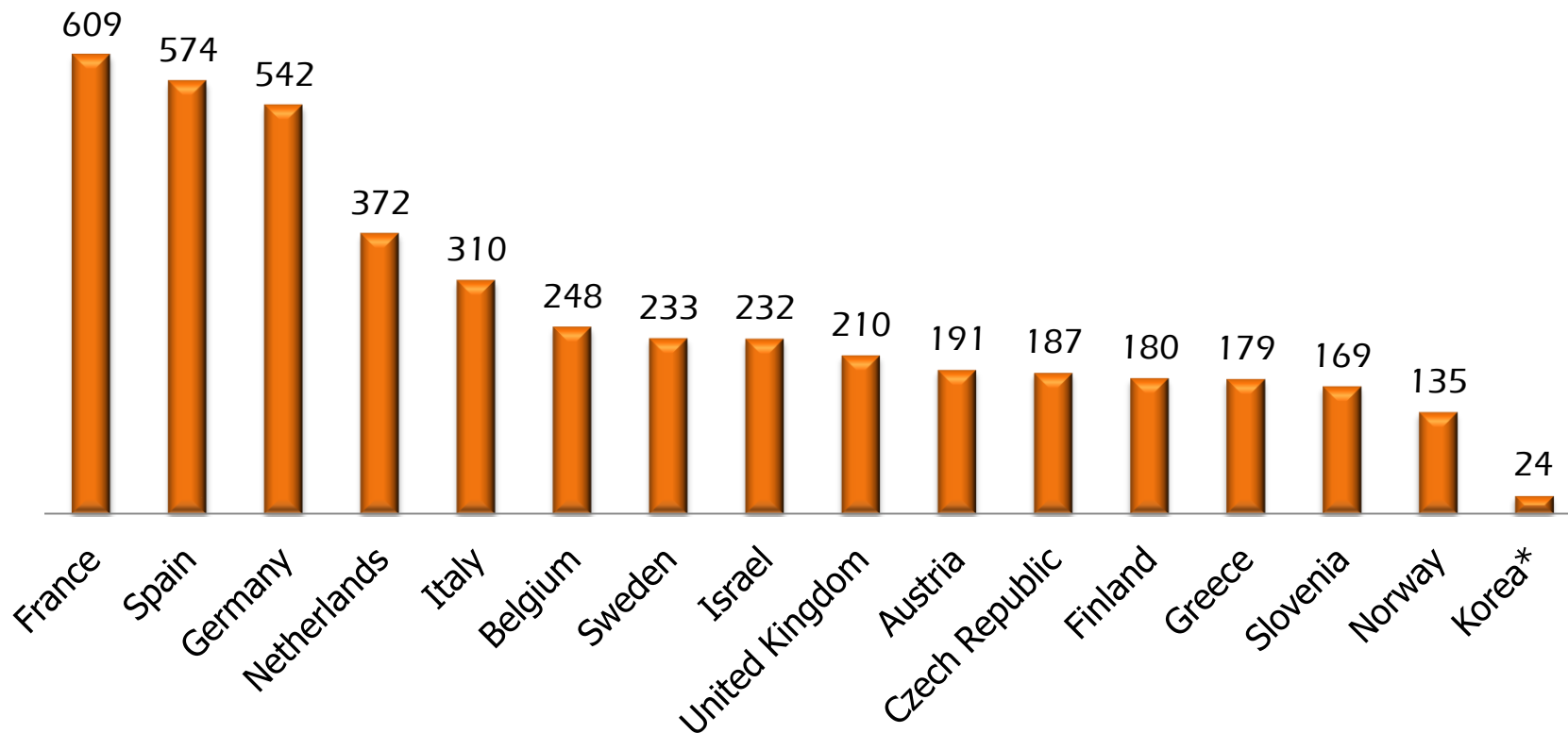
- Funds provided for feasibility studies into participation in FP
- If project is approved by the EC, R&D fund is provided to Korean project partners

## FP7 funding for 2011

- Approximately €730,000 available for the support of MKE FP7 project development
- 2-3 new projects expected to be funded
  - Up to approximately €230,000 available per project
- 20 feasibility studies to be selected and funded
  - Announcement for the submission of feasibility study funding has made in May, 9 2011
  - Approximately €13,000 available for each study to support travel, meetings and research into the identification and development of an FP7 project.



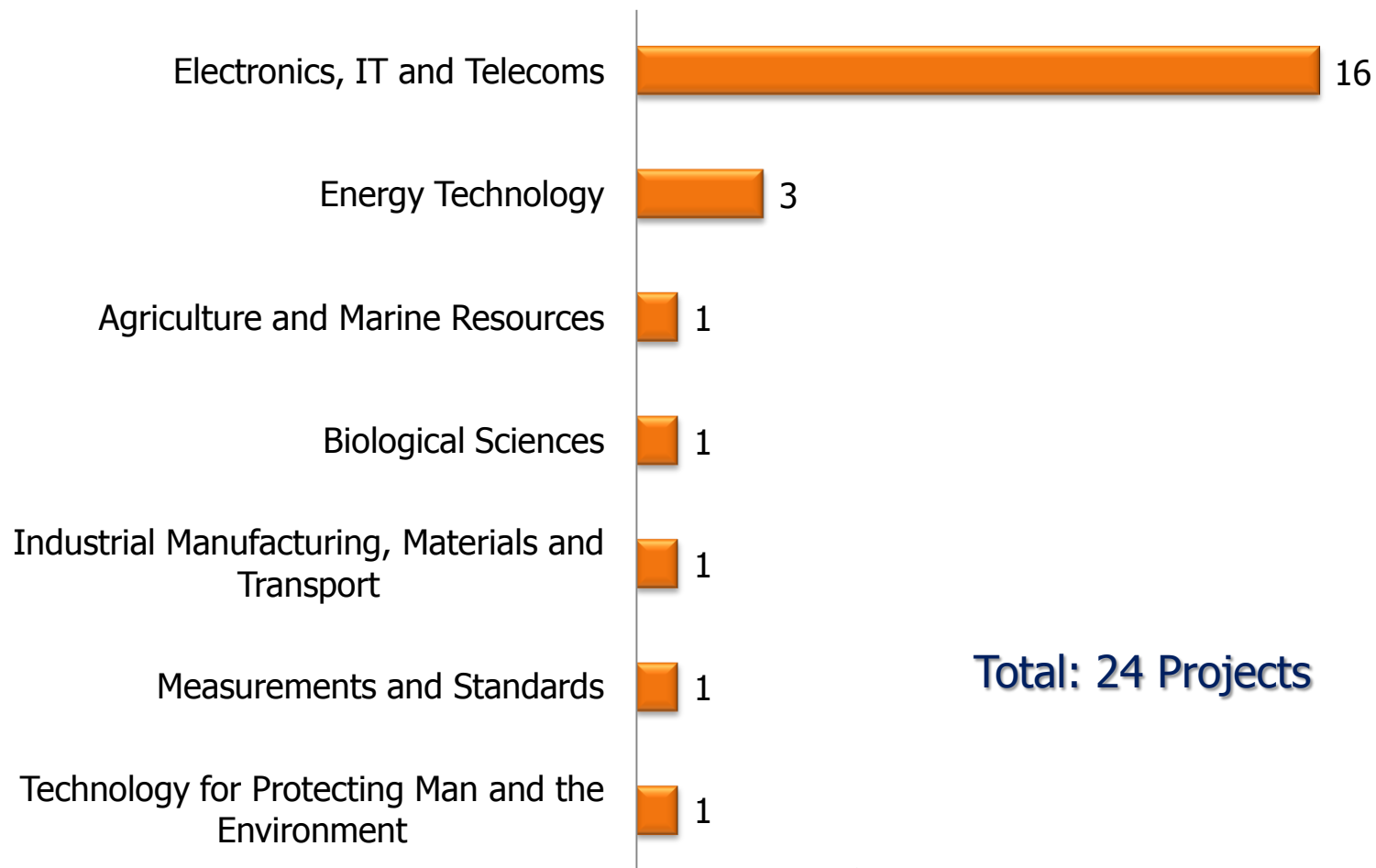
## Top 15 EUREKA Countries by Project Involvement and Korea (2003-2010)



Source: EUREKA Project Portfolio Results per Member  
EUREKA German 2009/2010 Chairmanship, 2010

\*KIAT data as of 31<sup>st</sup> December 2010

## All Korean EUREKA Projects by Thematic Area



Source: KIAT data as of 31<sup>st</sup> December 2010

## EUREKA funding for 2011

- Approximately €2.95 million available for the support of new EUREKA projects
- 10+ new projects expected to be funded
  - Up to approximately €330,000 available per project
- 8 proposals (4 cluster projects, 4 individual projects) has been evaluated as of Sept, 30<sup>th</sup>, 2011

# Thank You

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