

Action plan

Goals

Joint R&D of 100 next-generation advanced technologies for new growth engines

Investment

R&D support in advanced industrial sectors linked with top global research institutions (€ 600 million for 5 years)

Objectives approach

1. Derivation of 100 next-generation key original technologies
2. Operation of Global Industrial Technology Cooperation Center (6 centers worldwide in 2024)
3. Joint R&D programs (3 or 5 years, 2 billion KRW/year) including personnel dispatches

Planning and support of R&D projects on focused and impact-driven core technologies

Strategy



Demand survey (over 500 cases received)



Establishment of a cooperative system (GITCC) with world-leading institutions



Cooperation for original technologies through R&D and personnel exchange (3-5 years)



Commercialization (within 5-10 years)

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We accelerate science to industry!

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Collaboration Hub for
Science and Technology
K-FAST

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Ministry of Trade,
Industry and Energy



KIAT
Korea Institute
for Advancement of Technology

About K-FAST

The Global Industrial Technology Cooperation Center (GITCC) granted by MOTIE (Ministry of Trade, Industry, and Energy), operating under the name of Korea – Fraunhofer Collaboration Hub for Science and Technology (K-FAST)

K-FAST aims to establish sustainable R&D cooperation models between Korean companies and Fraunhofer-Gesellschaft for global industrial technology collaboration and to create excellent research outputs with high industrial ripple effects through developed joint R&D projects.

Leveraging the resources of Fraunhofer Institutes, renowned for the innovation and research power, this initiative seeks to bridge Korean enterprises and the world-leading German research institute.

Profile of Fraunhofer-Gesellschaft and K-FAST



Objectives

01 Identify/analyse/match cooperation demand for R&D consortium

02 Planning/consulting/developing **cutting-edge** R&D proposals with Korean consortiums, along with their evaluation. Focusing on **challenging but market-valuable topics** which are not, or are barely, plausible in Korea yet.

03 Organizing/executing **Feasibility study and Scale-up solution**

04 Designing Fraunhofer-oriented, i.e. **“Field-focused”, training programs** for Korean Industry project partners which will be running during a R&D project. Goal is to enable Korean industry to optimize technology learning and transferring process.

05 **Networking creating and enhancing** through a well-organized corresponding events, e.g. Fraunhofer Battery Days (annually)

Cofounders

- Fraunhofer IKTS (Dresden)
- **Headquarter of K-FAST**
- Fraunhofer FEP (Dresden)
- Fraunhofer HHI (Berlin)
- Fraunhofer IAP (Potsdam)
- Fraunhofer IISB (Erlangen)
- Fraunhofer IPT (Aachen)
- Fraunhofer IWKS (Hanau)
- Fraunhofer IWS (Dresden)

Members

- Expandable platform
- Membership will be completed by September of 2024

Strategy

Plan

(Step 1) Initiative from Fraunhofer Working Groups and NCCs

- 6 working groups according to technology areas, e.g. battery, semiconductor, mobility, display, etc.
- Brainstorming an innovative idea to concept papers
- Sorting, screening, and selecting concept papers offered by Korean side

(Step 2) Structuring a best consortium on Korean side

(Step 3) Multi-Fraunhofer Institutes in a single consortium

- Optimizing tasks to fulfil best key performances by 3 Fraunhofer Institutes

Action

- **On-site collaboration** for dispatched Korean project partners by **K-DESK and Technology Coordinators**
- Sustainable collaboration platform through multi-lateral partner networking and quality management by K-FAST

Focused topics

- Semiconductor
- Battery
- Future mobility
- AI/Robot
- Bio
- Display

