

Safety  
안전

Transition  
변화

Management  
경영지원

# SMART KORAIL

Requirement  
미래철도

Application  
고객감동



대한민국 철도의 미래를 여는  
한국철도(KORAIL)

# Safety

## 철도 안전관리고도화 기술개발 연구, 한국철도는 국민의 안전서비스를 향상시킵니다.

안전은 한국철도가 추구하는 최고의 핵심가치로서 열차운행, 유지보수, 안전관리 분야에 첨단기술을 접목하여 안전관리를 고도화합니다.

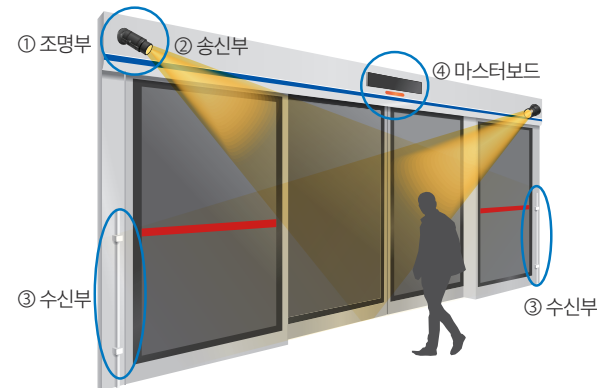
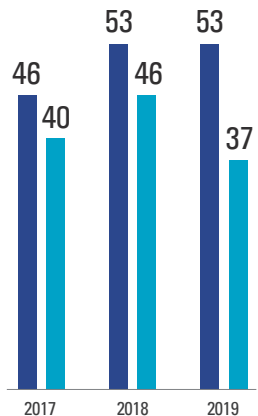
### 주요성과



2017-2019 연구실적

총 **275** 건

■ 자체R&D (단위: 건)  
■ 국가R&D



### 진행과제

미래 지향적 예측분석  
철도안전관리 실현

영업열차 차량검측시스템 시범사업 추진 등  
ICT, IoT, AI 첨단기술을 활용한 철도안전관리 기술 고도화 추진

# Safety

## R&D for advanced railway safety management technology,

The KORAIL ensures the safety of railway services for the people.

AS safety is the most important core value pursued by KORAIL, It is applying cutting-edge technology to train operations, maintenance, and safety management.

### KEY Achievements



Develop sensors to prevent passengers from getting caught in platform screen doors

Remove blind spots by adopting visible light communication(Li-Fi)



Develop a system to identify defective equipment

Monitor the main parts of high-speed and freight trains in real time by attaching sensor to them



Hone a decision-making process for high-speed railway track maintenance

Platform preventive maintenance making use of information acquired from inspection and also forecasting tools



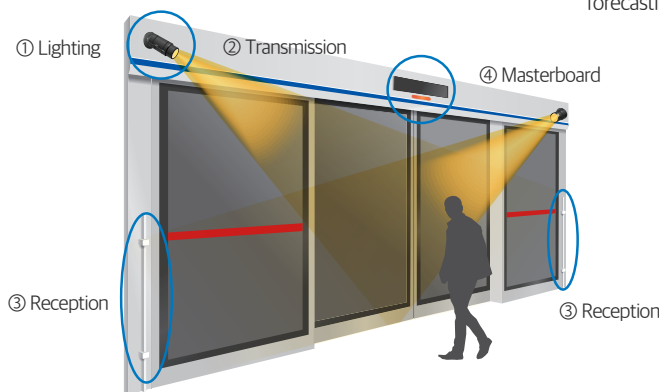
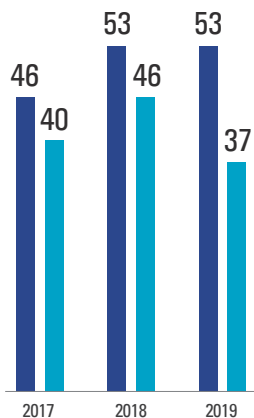
Build IoT-based facility monitoring systems

initiate eight types of IoT monitoring solutions that include rail temperature measurement and automatic tension balancer

Research Result(2017 - 2019)

**275** items

■ Self R&D (Unit: item)  
■ National R&D



### Ongoing projects

Bolster safety-first management through a future-oriented, predictive analytic model

Forge safety technologe based on ICT, IoT and AI by running a pilot study regarding rail car inspection

# SMART RAILWAY

한반도를 넘어 사람·세상·미래를 잇는  
한국철도



