

Korea Meteorological Institute

Weather, the Wind of Industry

Introduction

Korea Meteorological Institute

President Ahn Young-in

Location 135, Tongil-ro, Seodaemun-gu, Seoul, Korea

Legal Foundation Article 17 of Weather Industry Promotion Act

Homepage <http://www.kmiti.or.kr>



Budget

77.5 billion won ('22)



Cultivating
Meteorological
Industry
12.8 billion won

National
Observation
Network
30.5 billion won

Research and
Development
26.1 billion won

International
Cooperation, etc.
8.1 billion won

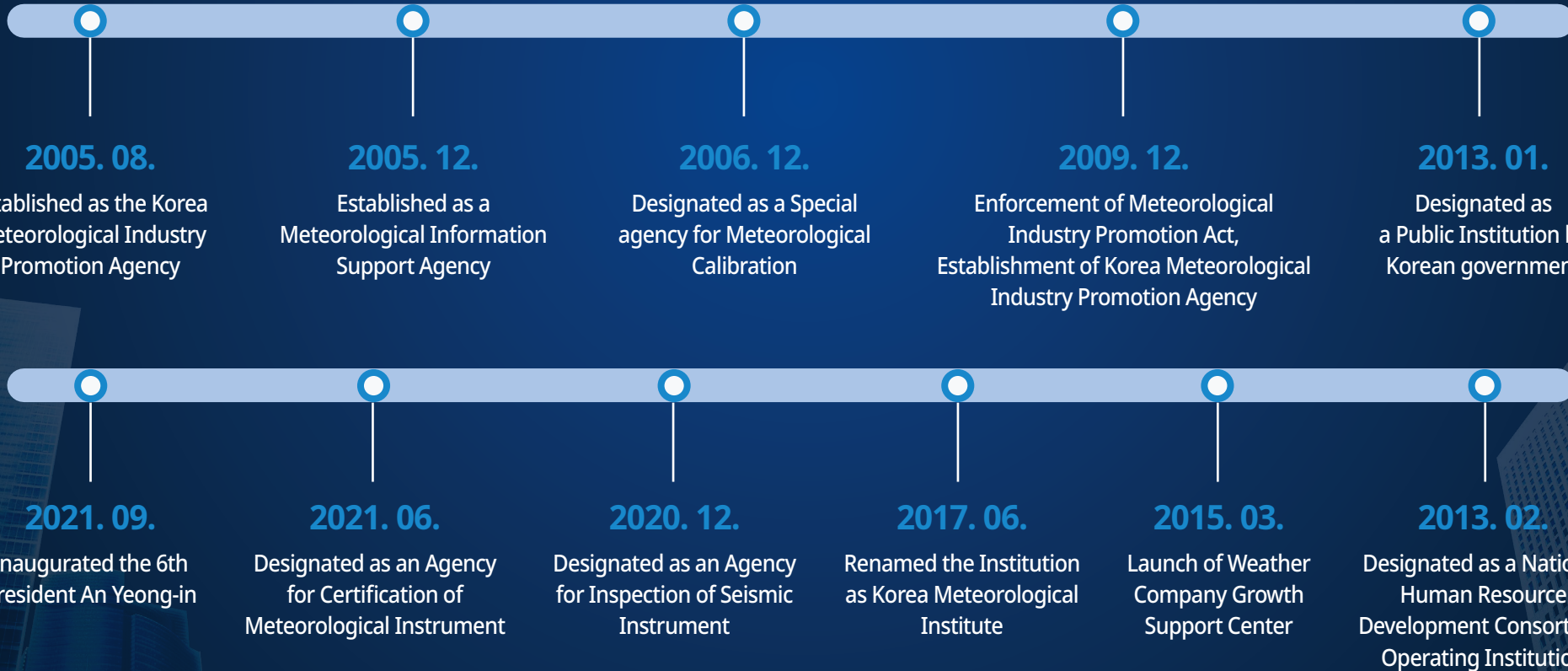


Number of Employees

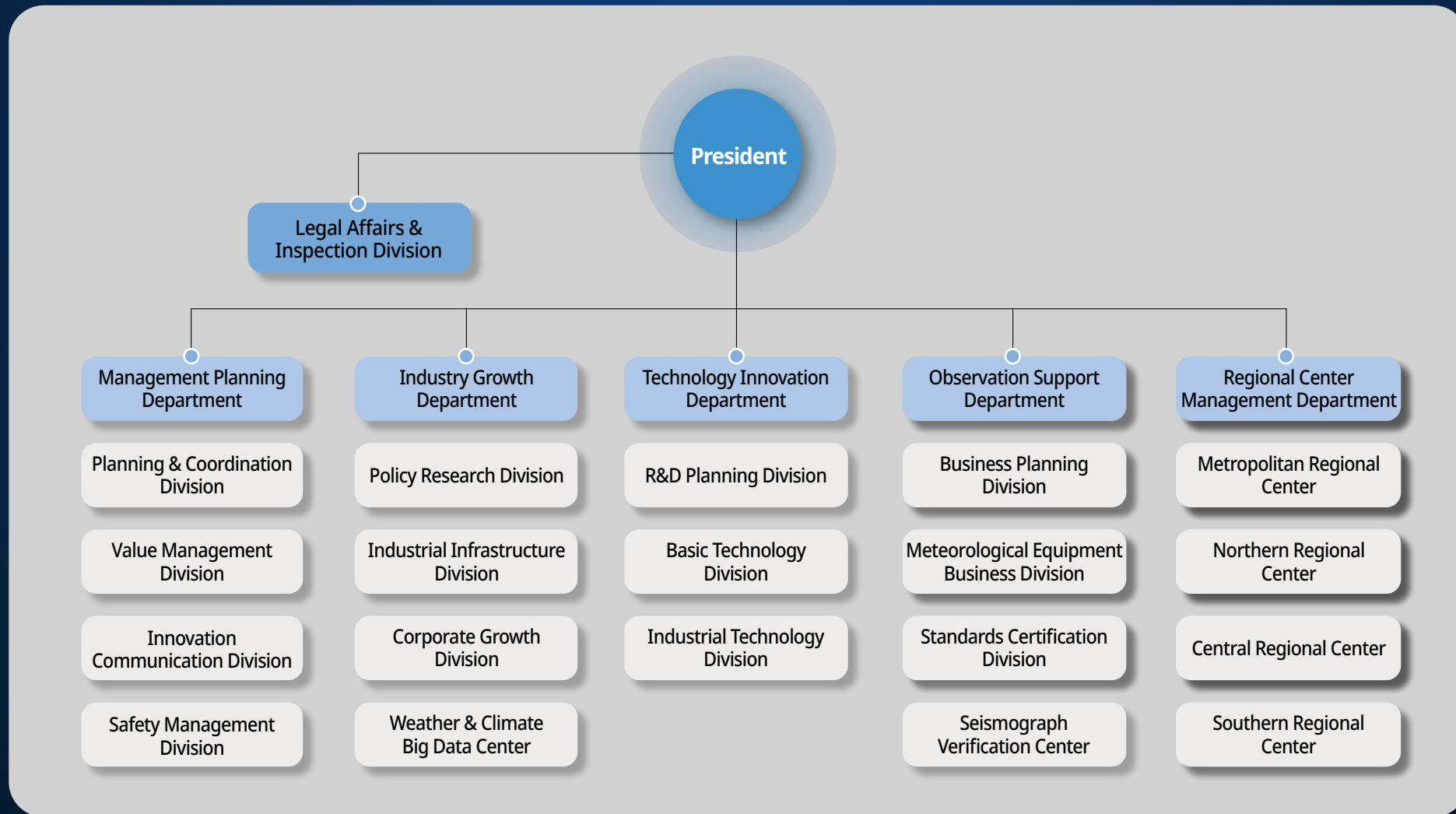
174 ('22. 3.)



History



Organization Chart



Mission & Vision



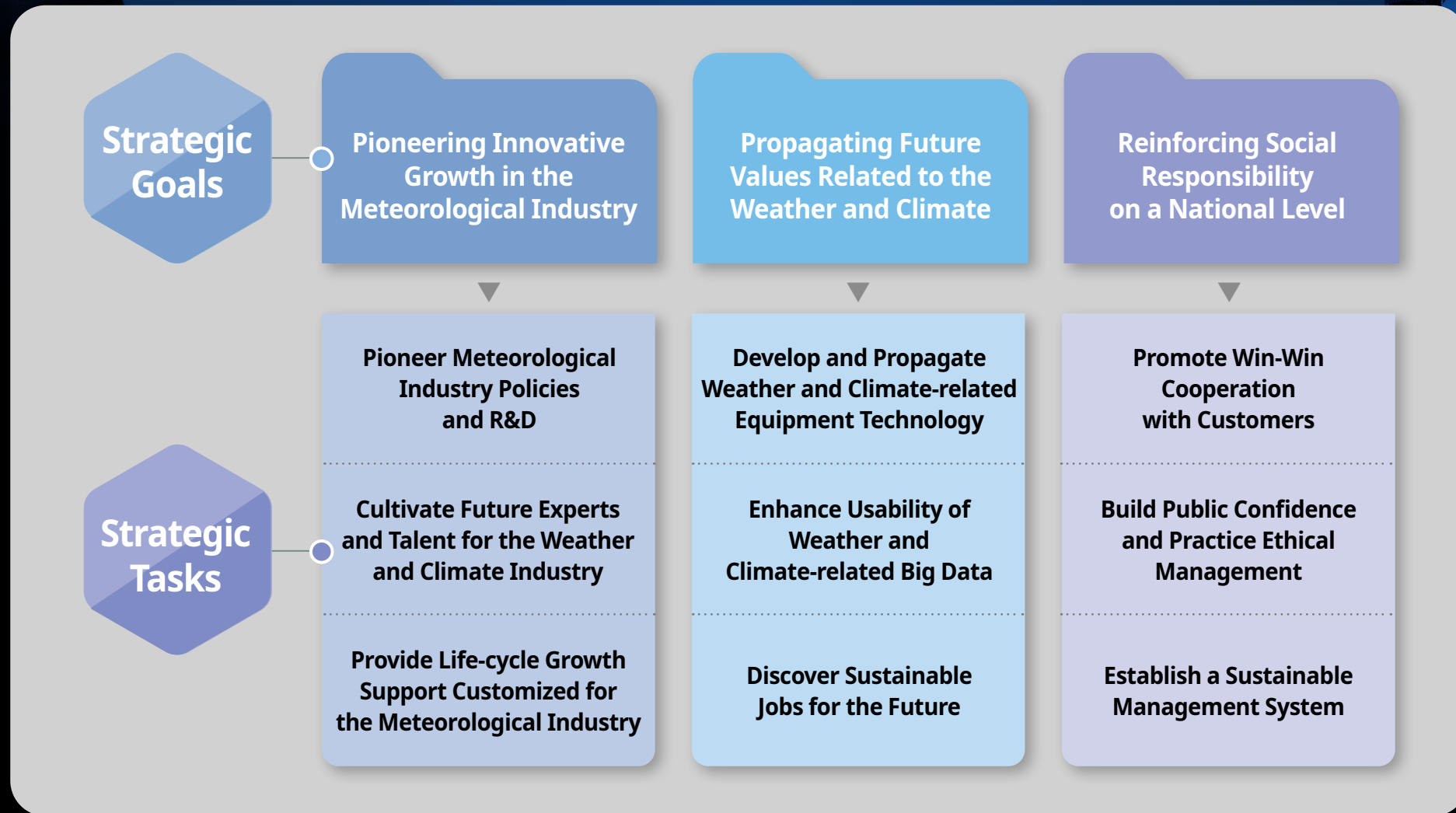
MISSION Promoting the Meteorological Industry and the Use of Weather Information



VISION An institution specializing in meteorological technology that contributes to the innovative growth of the meteorological industry and improvement in the public interest



Strategic Goals and Tasks



Business Introduction



Cultivating
Meteorological Industry
and Export Support



Business Area

01 Policy Implication in Meteorological Industry

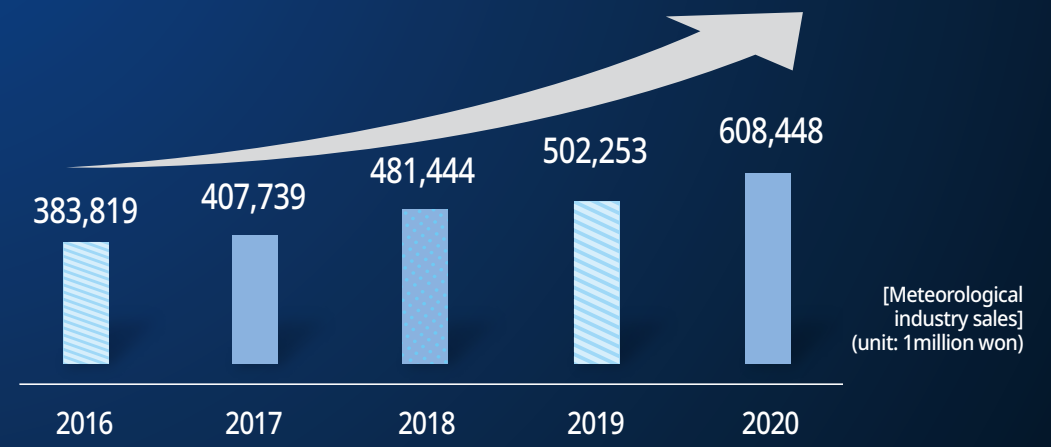
Survey on current status of meteorological industry and provide basic information for policy implication

Meteorological Industry Status Survey and Analysis

Contents Providing sales, number of employees and export of meteorological industry annually through the national statistics

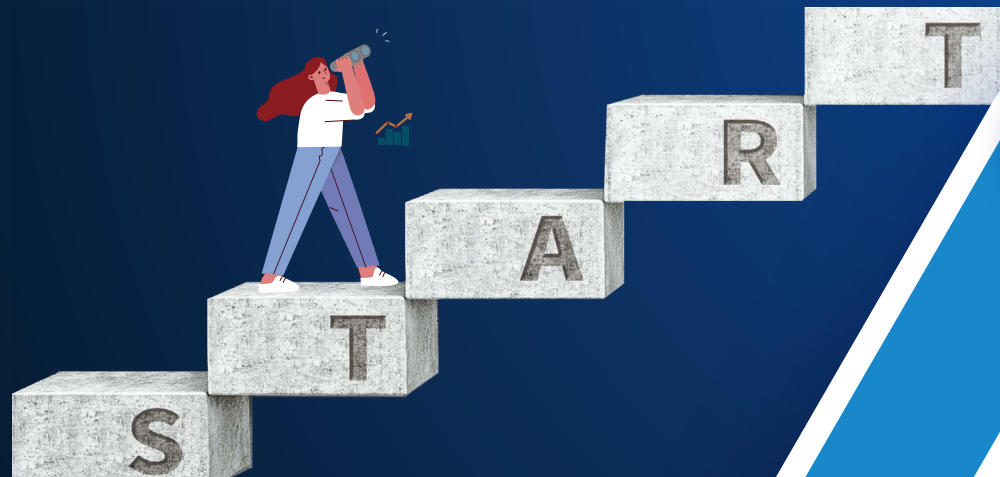
Publication of the Weather and Climate Industry Policy Papers

Contents Publication of weather and climate industry policy papers called 'issue paper' that analyze trends and policies of meteorological Industry quarterly



Business Area

02 Life-cycle Growth Support



1-1. Start-up Incubation and Growth Support
Provide Customized Programs and Infrastructure Support for Weather Companies

1-2. Human Resource Training & Education
Operating Customized Education Programs specialized in Weather and Climate Industry



1-3. Export Support and International Cooperation
Encouraging Korea's Enterprises to carry out International Activities and Localization of Meteorological Technologies



2-1 Start-up Incubation and Growth Support



Weather Company Growth Support Center

Provide Infrastructure including Offices, Business Area and Common OA



Financial Support for Weather Businesses

Provide Funds necessary for the Management of Weather Businesses



Support for Life-cycle Growth

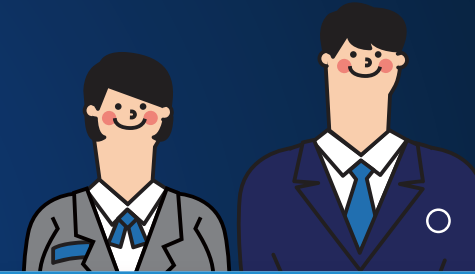
Provide Life-cycle Growth Support of 'Planning-Development-Production-Sale-Marketing' for Weather Company



Technology Transfer and Business Support

Support Technology Transfer of Weather and Climate-related Technologies developed by the KMA and Private Company

Business Area



2-2 Human Resource Training & Education

National Human Resource Development Consortium

Competency Reinforcement Education Program for Employees in Meteorological Industry

Target

An employment insurance subscribers interested in meteorological field, Employees of small and medium sized weather companies and related industries

Contents

Education programs for skill improvement of employees in meteorological industry

Weather Management Consultant Training

Training of Weather Management Consultant to Promote Weather Management

Target

Experienced person in meteorological and business consulting field, Weather forecast license or meteorological phenomenon license holders

Contents

Weather management introduction, Big data in meteorological industry

International Meteorological Expert Training Program

Practical Education and Training Program for Human Resources who will take part in International Organizations

Target

Grad students majoring in weather and climate or international business

Contents

Education(4weeks), International organization internship

Education for Meteorological License

Education Program for Weather Forecast License and Meteorological Phenomenon License Holders

Target

A person who intends to obtain a meteorological license after meteorological qualification

Contents

Article 9 and article 13 of the enforcement rules of the Meteorological Industry Promotion Act

Education for Meteorological Instrument

Education to Improve Meteorological Instrument Maintenance and Repair Skills

Target

Workers of meteorological instrument maintenance companies and related industries

Contents

Meteorological instrument introduction, AWS checking and troubleshooting, etc.

Graduate School Project for Convergence of Data

Education for Experts to Enhance the Utilization of Weather and Climate Data

Target

Graduate school that can operate weather-related master's and doctorate courses

Contents

Personnel expenses, facility expenses, research expenses, scholarships, etc.

Business Area



2-3 Export Support and International Cooperation

Global Marketing Support Program

Support Small and Medium-sized Enterprises' Global Marketing in the Meteorological Industry

Target Small and medium-sized weather company

Contents Marketing support including international technical certification and patent, inviting buyers, and supporting overseas PR activities

Support for the Participation in Meteorological Expo

Introduce Korean Meteorological Instrument and Technology by Support for Participation in International Expo

Target Small and medium-sized weather company

Contents Support for registration fees, interpretation fees, PR materials, and booth expenses for participation

International Meteorological Project Development

Developing International Meteorological Projects based on Partner Countries' Needs

Target Organizations with international cooperation and convergence system for meteorological industry and related field

Contents Support for pre-planning(Phase1) and detailed-planning(Phase2) costs

Official Development Assistance(ODA) Projects

Support Developing Country's Climate Change Response by Conducting ODA Projects

Country Laos, Cambodia, Philippines, Mongolia

Contents Installation of the Automated Weather Observation System, Global training program

Business Area

03 Raising Awareness of the Weather and Climate Industry

Support the use of weather information to revitalize the meteorological industry and raise national awareness

Promote Weather Management

Provide integrated support of weather and management to improve the productivity of companies and spread the economic values of weather information

Mid to Long Term Weather Management Strategy

Weather Effects and Applications



Weather Impact Analysis



Set the Strategic Field

Action Strategy



Data Acquisition



Build the Infrastructure

Management Plan



Weather Management



Follow-up Management

Revitalize Weather and Climate Industry

Support discovery of new markets, raising national awareness and promotion of meteorological industry in Korea with the participation of companies and people



Korea Climate and Meteorological Industry Exhibition

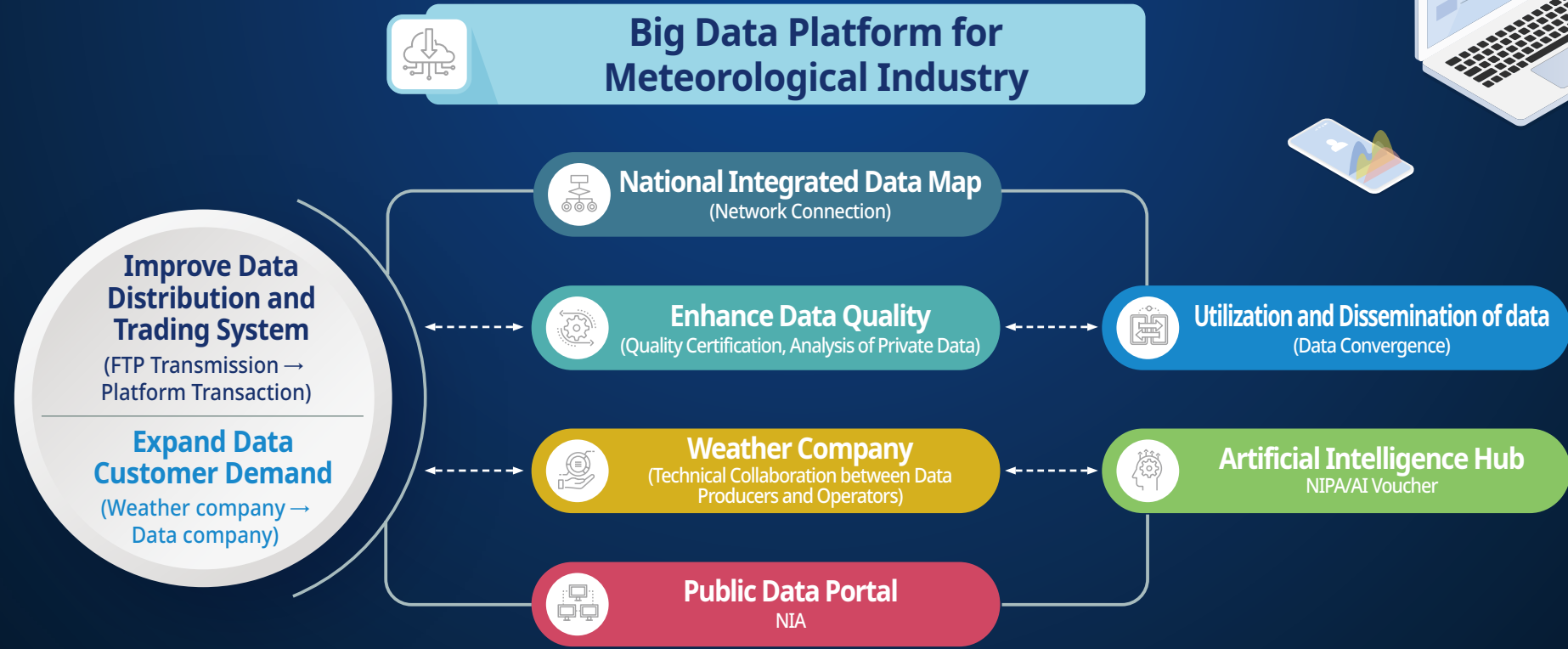


Korea Weather Industry Awards

Business Area

04 Enhance Usability of Weather and Climate-related Big Data

Promote the use of weather information by operating a big data platform and providing customized weather information



Business Area

05 R&D Planning

Contribute to the development of weather technology and the improvement of research quality through R&D management

1. R&D Planning

Research and Development on National Issues such as Carbon Neutrality and Energy

2. Technology Demand Survey

Finding R&D Tasks based on Research on Technology Demand for Industry, Research Institutes, Academia and Public



5. R&D Result Management

R&D Result Evaluation Focusing on Qualitative Excellence

4. Publication of Research and Analysis Report

Publication of R&D Trend Analysis Report related to Meteorological Industry

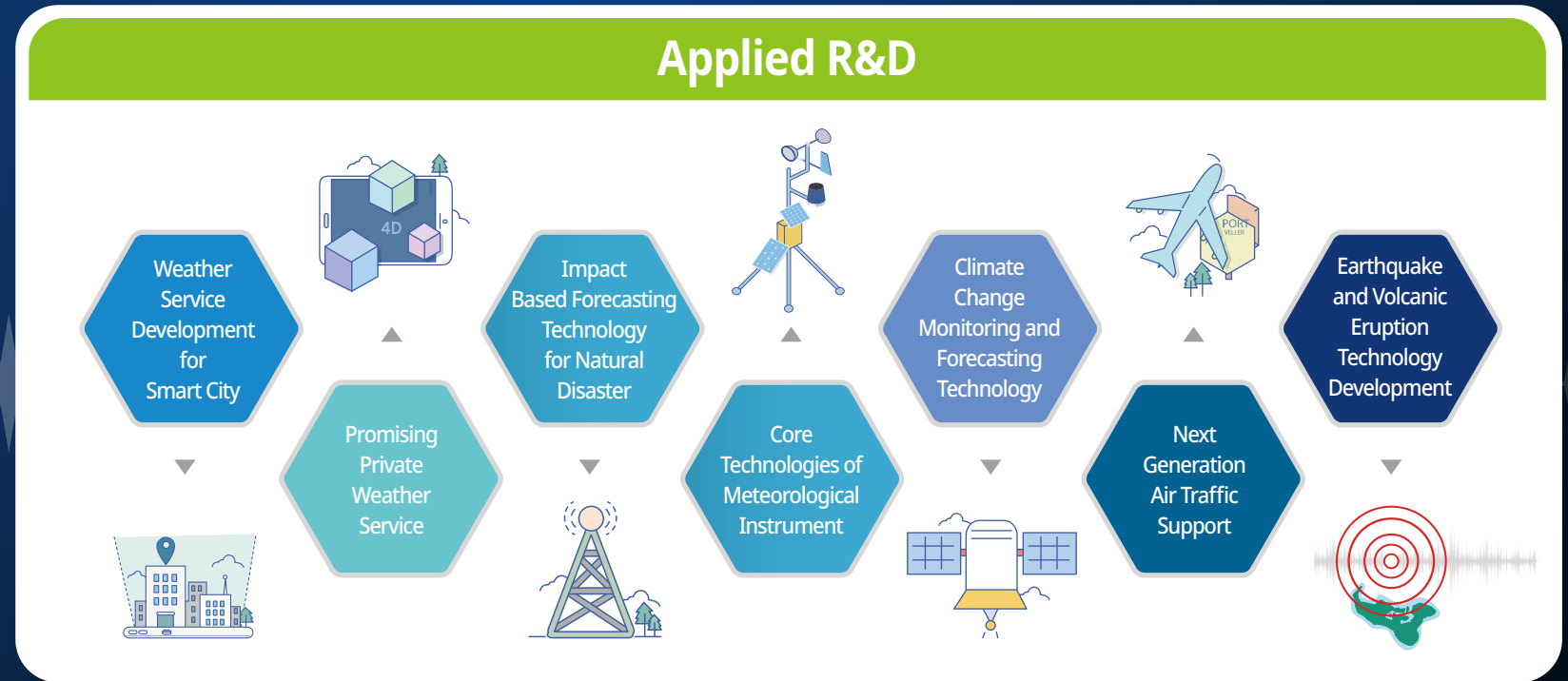
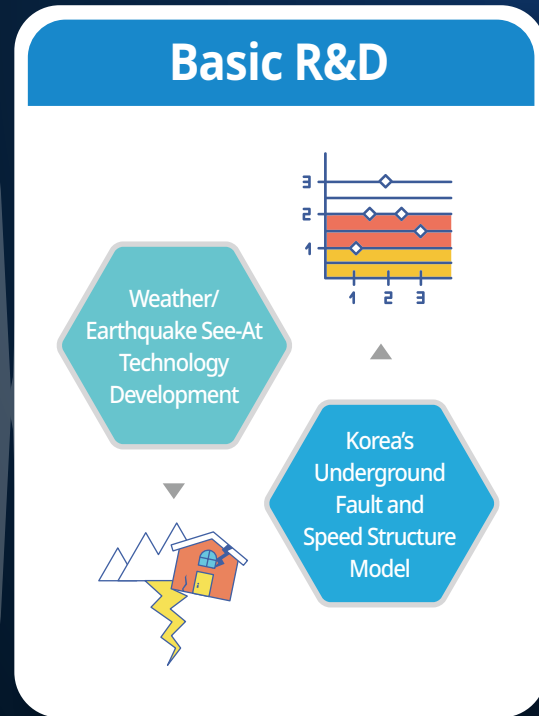
3. Expert Forums for Project Planning

Finding New R&D Agenda through Presentation and Discussion by Experts in the Field of Meteorological Industry, Academia, and Research

Business Area

06 R&D Support

Contribute to the innovation of meteorological technology through the weather and climate R&D project



Business Area

07 Operate National Observation Network

Provide basic weather forecast data via hi-tech meteorological instrument

Maintenance and Operation of the Instrument

Improvement of the national observation network by maintenance and operation of the meteorological instrument

Surface Observation Instrument

Automatic Weather Station(AWS)



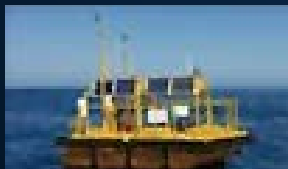
Automated Synoptic Observing System(AWS)



Measurement of weather elements including pressure, temperature, humidity, wind, solar radiation, etc.

Marine Observation Instrument

Ocean Data Buoy



Coastal Wave Buoy

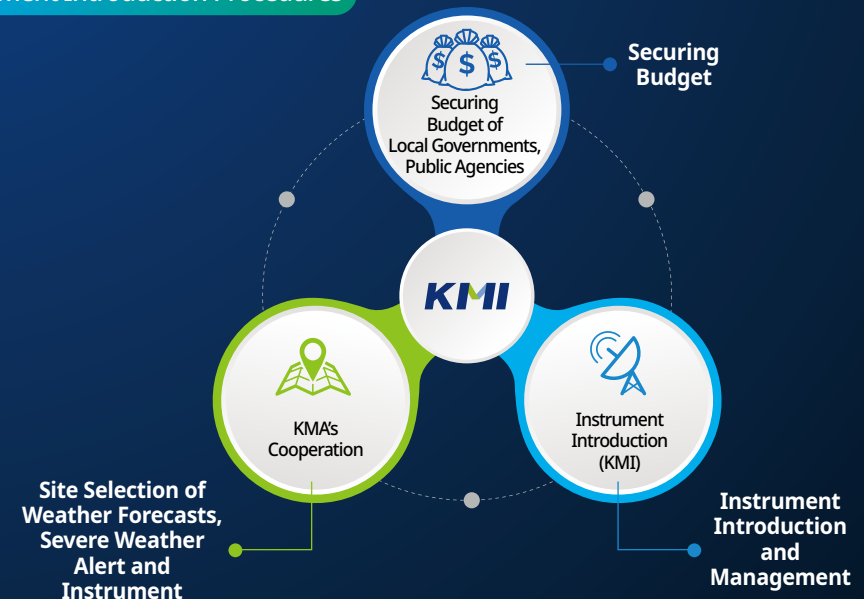


Measurement of weather elements including wind speed & direction, air temperature, wave height, wave period, wave direction, etc.

Technical Guidance on Meteorological Instrument

Provide technical guidance on how to operate and manage the meteorological instrument in cooperation with local governments, public agencies

Instrument Introduction Procedures



08 Certification and Verification

Determine suitability of monitoring systems by verifying the performance of meteorological instrument

Meteorological Instrument Certification

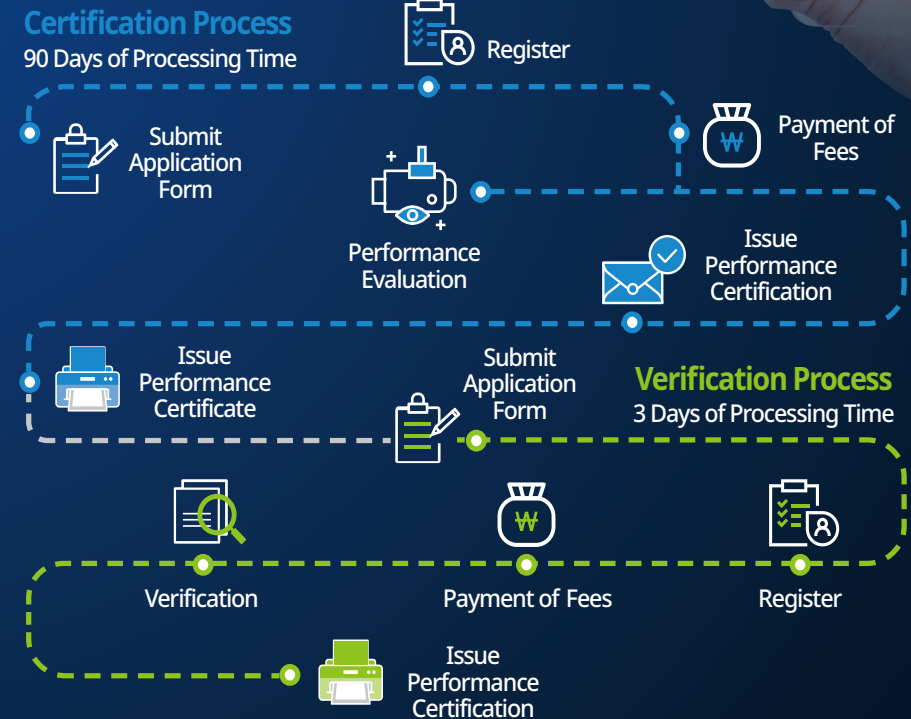
Certify meteorological companies by examining the standard performances of meteorological devices, evaluating the ability in quality management, and delivery execution performance

Meteorological Instrument Verification

Verification for companies that intend to manufacture, import or install meteorological instrument to determine whether their performance is maintained as certificated

Certification and Verification

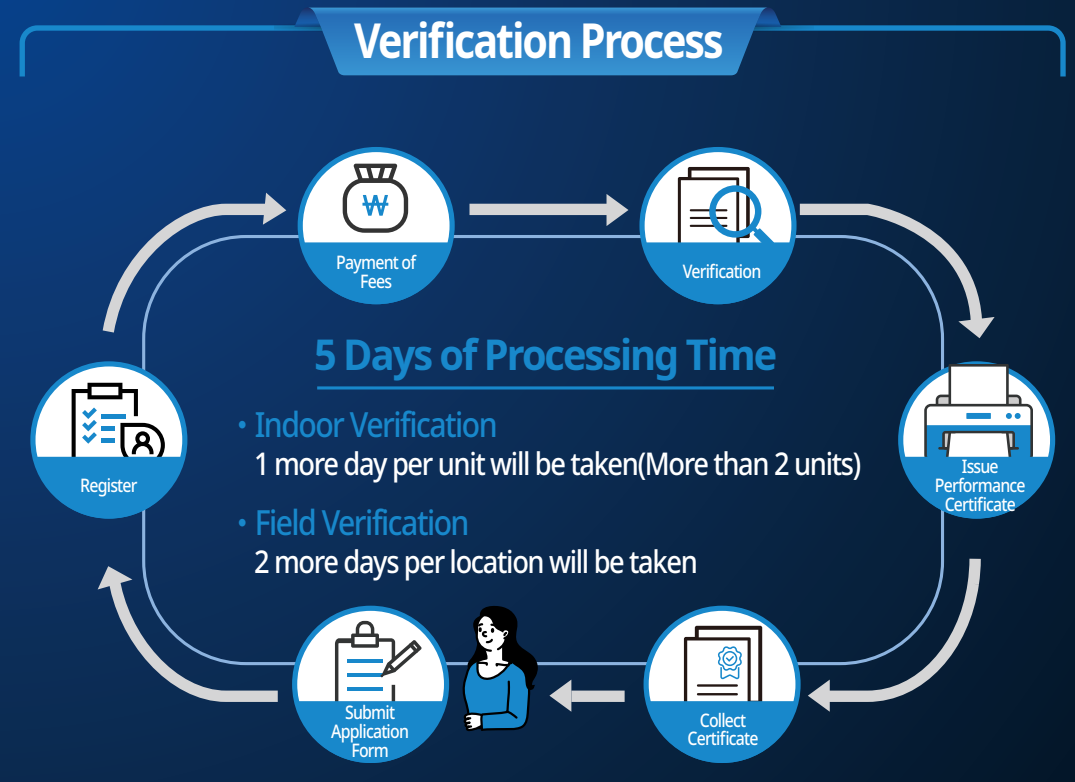
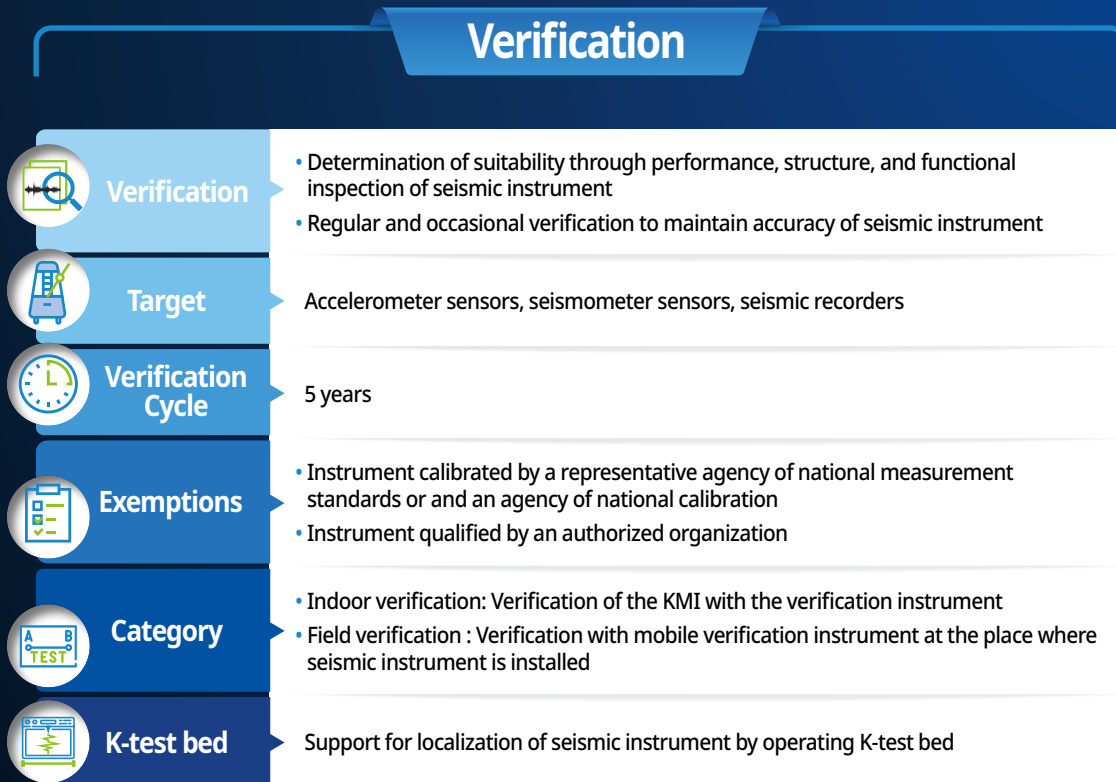
Category	Certification	Verification
Purpose	Determination of reliability of meteorological devices through performance, structure, certification, etc	Maintenance of the accuracy of meteorological instrument
Contents	Structure inspection, Performance(accuracy), Durability, Stability(data collection)	Structure inspection, Performance (indoor/field), *Confirmation of maintenance of certification
Method	1 time per product(model)	Total inspection



Business Area

09 Seismic Instrument Verification

Performance evaluation and verification to improve the accuracy of seismic observation data

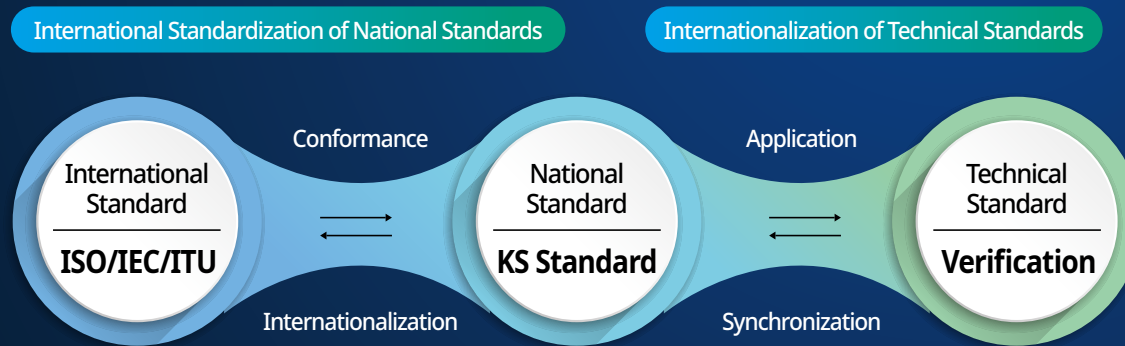


Business Area

10 Standardization of Meteorological Observation Technology

Improvement of observation quality of meteorological instrument by international standardization

Contents Development of standards and operation of systems for establishing and revising national and international standards in the fields of meteorology and solar energy



Category	Contents
International Standardization of Domestic Technology(ISO)	Analysis of international standard in meteorology, development of international standards for meteorological and solar energy field
Establishing and Expanding National Standards(KS)	Development of KS for establishment of criteria for technology in meteorology



THANK YOU