



中國環境科學研究院
Chinese Research Academy of Environmental Sciences

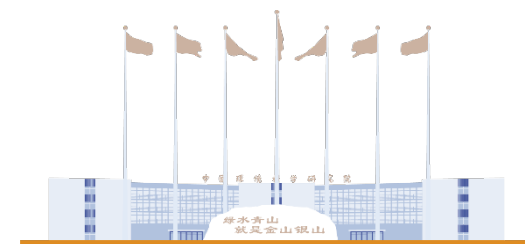
CHINESE RESEARCH
ACADEMY OF ENVIRONMENTAL SCIENCES



Introduction of CRAES and future cooperation

24 September 2025

CRAES



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IDEAS FOR FUTURE COOPERATION

About Us

Established in 1978, **CRAES is the largest government-owned, non-profit environmental research institution in China**, affiliated to the Ministry of Ecology and Environment (MEE).

CRAES carries out fundamental, overarching and strategic research on ecology and environment, offering comprehensive scientific and technological support for national eco-environmental management.



1230

Employees



5

Academicians
of CAE



50

National
High-level Talents



598

Senior
Researchers



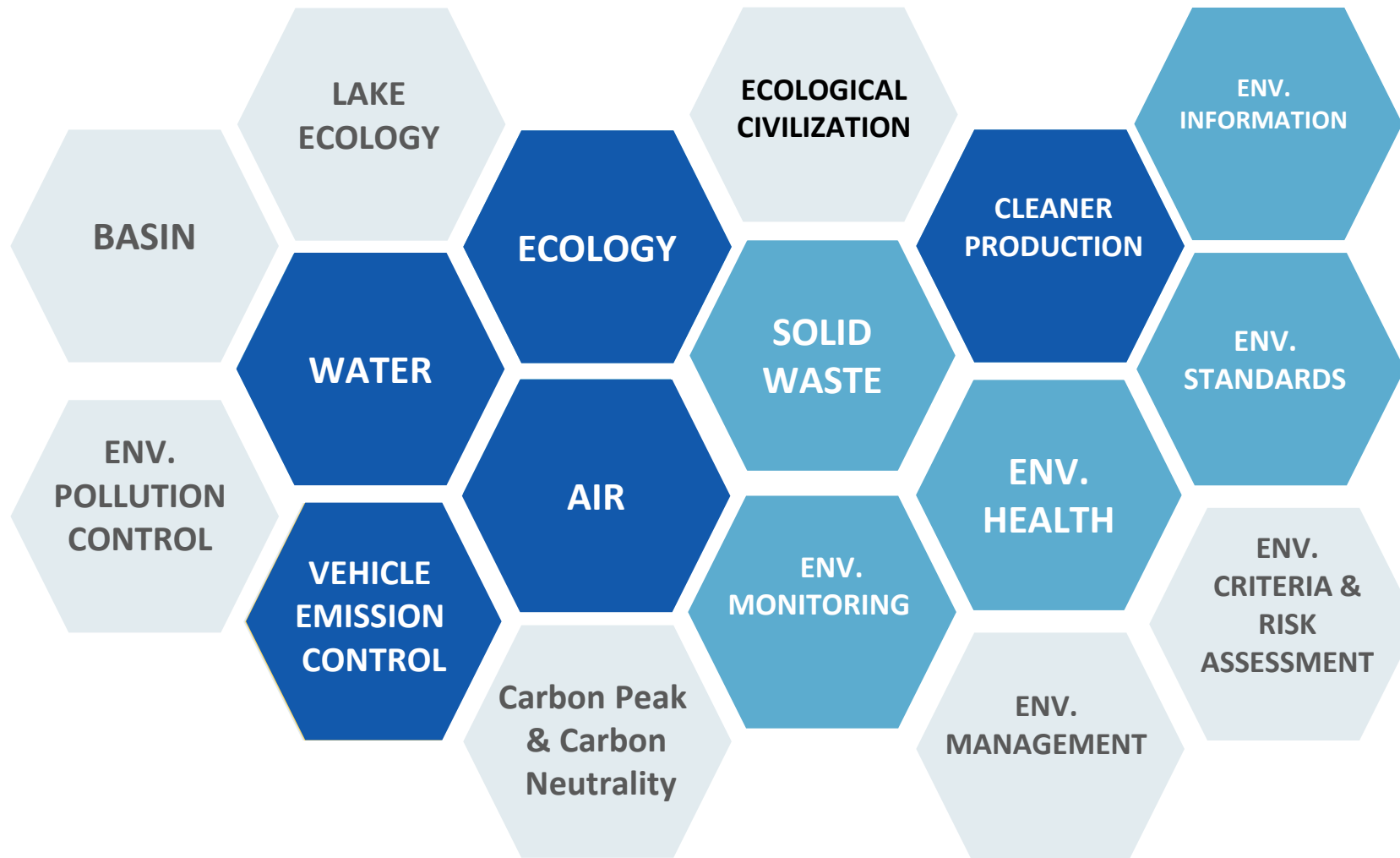
584

Doctoral degree



Research Areas

16 primary research areas - Aim to further build up cross-disciplinary expertise



Our Roles

Research

Science-based
Solutions to
Environmental
Issues

FUNDAMENTAL
RESEARCH

Scientific Issues
(Projects)



Theories,
Technologies

Support

Key Tasks of MEE

TECHNICAL SUPPORT
(Applied Research)

Technical Issues
(Projects)



Technologies,
Policies

Service

Development of
Strategic Emerging
Industries

TECHNICAL
SERVICES

CHINESE RESEARCH
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CRAES

Research Platforms & Facilities

We host research centers/labs of national importance

3 National Joint Research Centers

- Air Pollution Control
- Yangtze River Conservation
- Ecological Conservation and High-Quality Development of Yellow River Basin

2 National-level Key Laboratories

- Environmental Criteria and Risk Assessment
- Lake Pollution Control and Ecological Restoration

5 Field Observation Stations

- Grassland
- Lake
- Atmosphere
- Fixed-site ecosystem monitoring
- Comprehensive monitoring

9 Ministerial-level Key Laboratories

- Hazardous Waste
- Groundwater
- Eco-industry
- Chemicals
- Vehicle emission control
- ...

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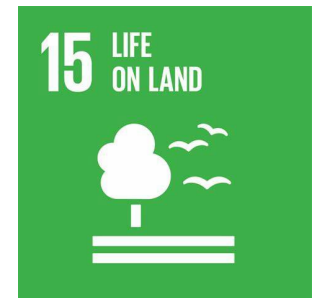
IDEAS FOR FUTURE COOPERATION

International Cooperation

Work towards the Sustainable Development Goals



GOALS



We work with our international partners to **tackle regional environmental problems** and to **provide solutions for the global environmental challenges** in real-world collaborative contexts, contributing to **sustainable development**.

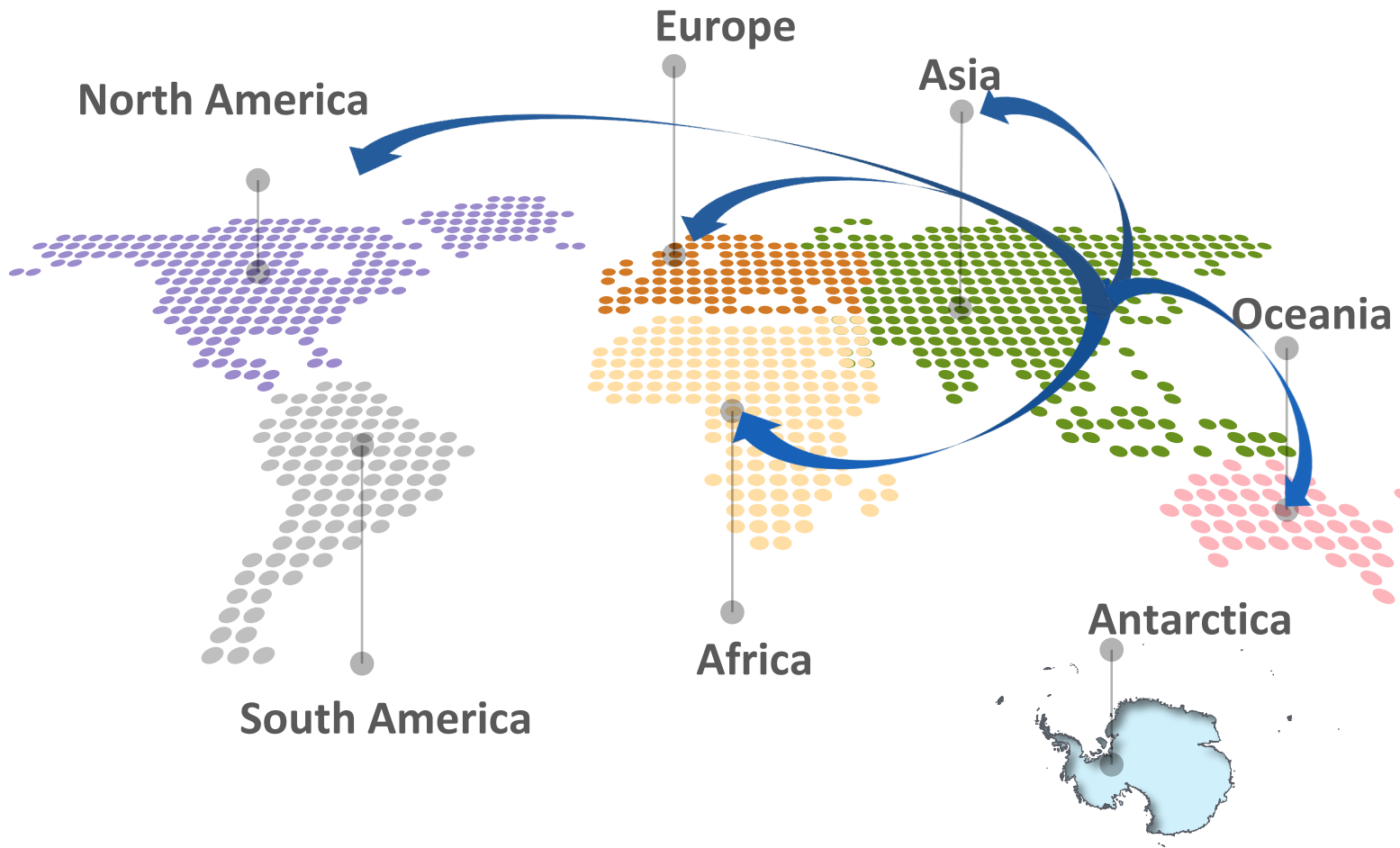


International Cooperation

Our people have both professionalism and a desire to take an active role on the global stage.



International Cooperation



6 Continents **20+** Countries **41** Platforms **66** MOUs

Partners

- International organisations and UN bodies
- Government agencies
- Research institutes
- Universities
- NGOs
- Companies
- ...

Modalities

- Joint workshops
- Joint projects
- Joint centers/labs
- Personnel exchanges
- ...

Areas

- Air
- Water
- Ecology
- Solid waste
- Risk management
- Environmental criteria
- ...

Europe and Australia

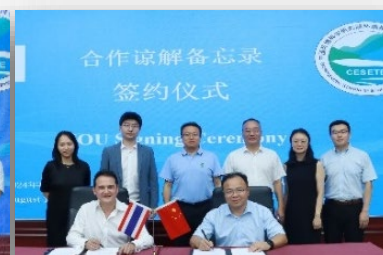
- **French National Centre for Scientific Research (ICARE-CNRS)**
 - **Sino-French Joint Workshop on Atmospheric Environment**, a total of eight editions successfully held till 2024.
- **Technical Reference Center for Air Pollution and Climate Change (CITEPA)**
 - **Sino-French Center of Air Pollutants and Greenhouse Gas Emission Inventories (SFCAGEM)**, promoted the exchanges and cooperation in atmospheric environment and climate change
- **Australia-China Centre for Air Quality Science and Management (ACC-AQSM)**
 - Established in 2014
 - A Total of 18 members from Mainland China, HKSAR and Australia, including Queensland University of Technology, Monash University, HKU, etc.



Asian Countries

■ Thailand: Promoting the development of “Asia-Pacific Platform for Regional Green Development and Environmental Technology Innovation”

- Establishing partnerships with National Innovation Agency (NIA) of Thailand, Siam Cement Group, Strategy 613, etc.
- Presenting cutting-edge scientific and technological achievements in prominent events including the Thailand Green Technology Exhibition, Startup x Innovation Thailand Expo 2024, etc.
- Setting up a “**Clean Air Bangkok**” project with Bangkok Metropolitan Administration, the Federation of Thai Industries, Chulalongkorn University, etc., in order to provide technical assistance and consulting services on the improvement of air quality in Bangkok.



Asian Countries

■ Pakistan

- A **joint project** was **agreed** upon to assess Punjab' s air pollution control needs and facilitate technical exchanges. CRAES will lead the drafting of the **project proposal**.
- Identified **three key collaborative pathways**, including the signing of a MoU between CRAES and relevant departments of Pakistan' s Punjab Province, the joint establishment of a "Belt and Road" laboratory, and collaborative efforts to secure funding support for projects.

■ Nepal

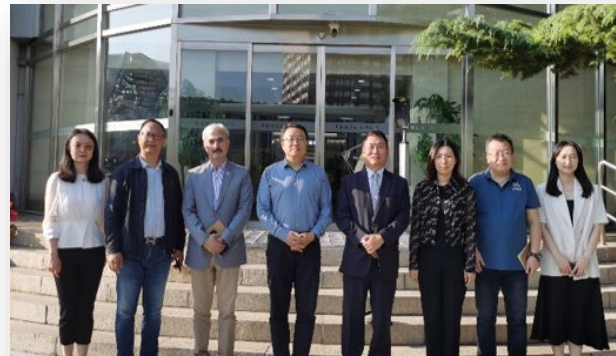
- Signed the first ***MoU on South Asia Regional Cooperation*** with ICIMOD, **addressing critical regional gaps**.
- Cooperation covers the following priority areas, **including Air Pollution Prevention & Control, Biodiversity Conservation, Mountain Community Development**. Pragmatic progress has been seen in **joint research initiatives, application of international project, hosting of global conferences, capacity-building and training programs, and personnel exchanges**



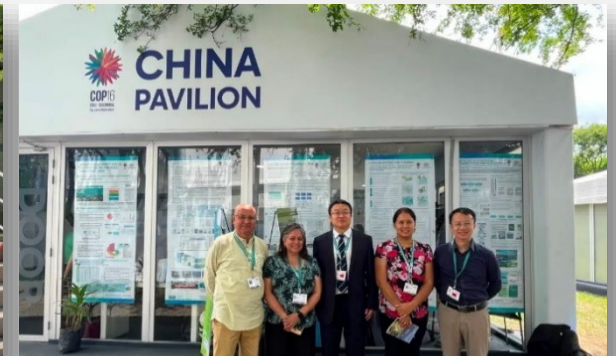
Air Quality Governance
Experience-Sharing in Pakistan



2025.3 Visit by the Pakistani
Ambassador to China to CRAES



2024.9 Official Visit by ICIMOD Director-
General to CRAES



2024.11 Vice President Quan Met with
senior officials from ICIMOD at COP 16.

Cooperation with Mongolia

■ Dust Sand Storm Cooperation

- Promoted a cooperation platform involving China, Japan, ROK and Mongolia, to jointly tackle the problem of Dust Sand Storm in the Northeast Asia Region (based on the Asian Regional Cooperation Project fund support from Chinese Government)
- Conducting academic exchanges with Mongolian University of Life Sciences, National Agency of Meteorology and Environment, etc.
- Conducting on-site research on the causes and solutions of the ecological degradation in the source region of dust sand storm



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Looking ahead

- Still much to do under the NEACAP mechanism – and CRAES is willing to support and contribute to the NEACAP activities as always
- Deepening academic exchanges on the current situation and needs for air pollution prevention and control in Mongolia
- Find multiple ways for financial support
 - NEACAP budget
 - Government funded projects (Asian Regional Cooperation Projects, China International Development Cooperation Agency, etc.)
 - International foundations (Kunming Fund, GEF, World Bank, etc.)

THANKS!

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环境基准与风险评估中心
State Key Laboratory of Environment

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