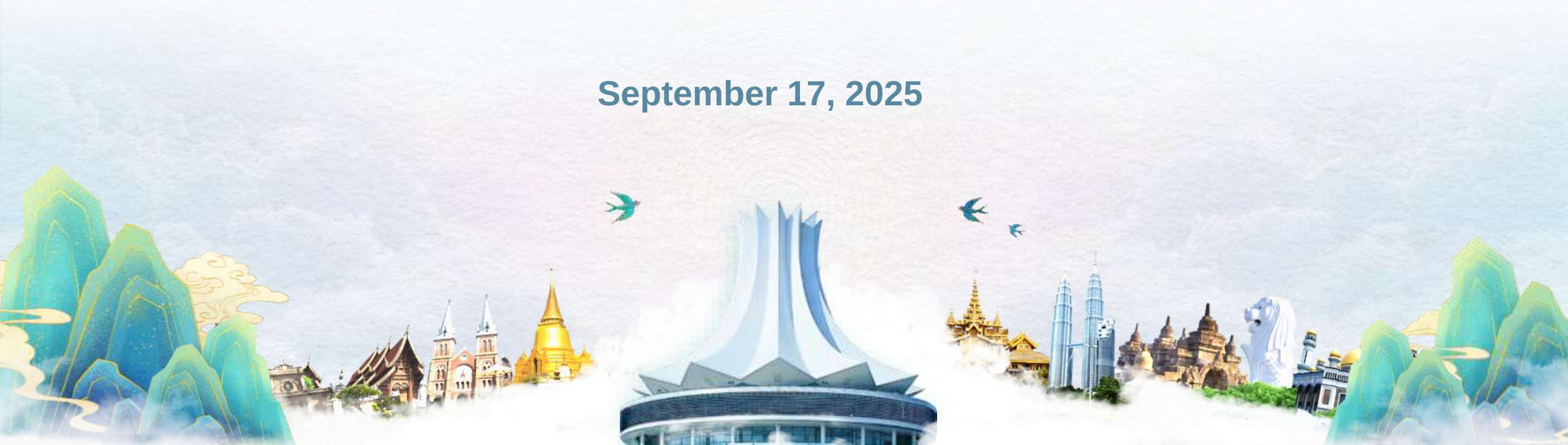


搭好桥梁纽带 集聚合作势能 共建共享中国—东盟气象之家

Foster collaboration and build synergy for cooperation
Jointly build and share the China-ASEAN Meteorology Home for the common good

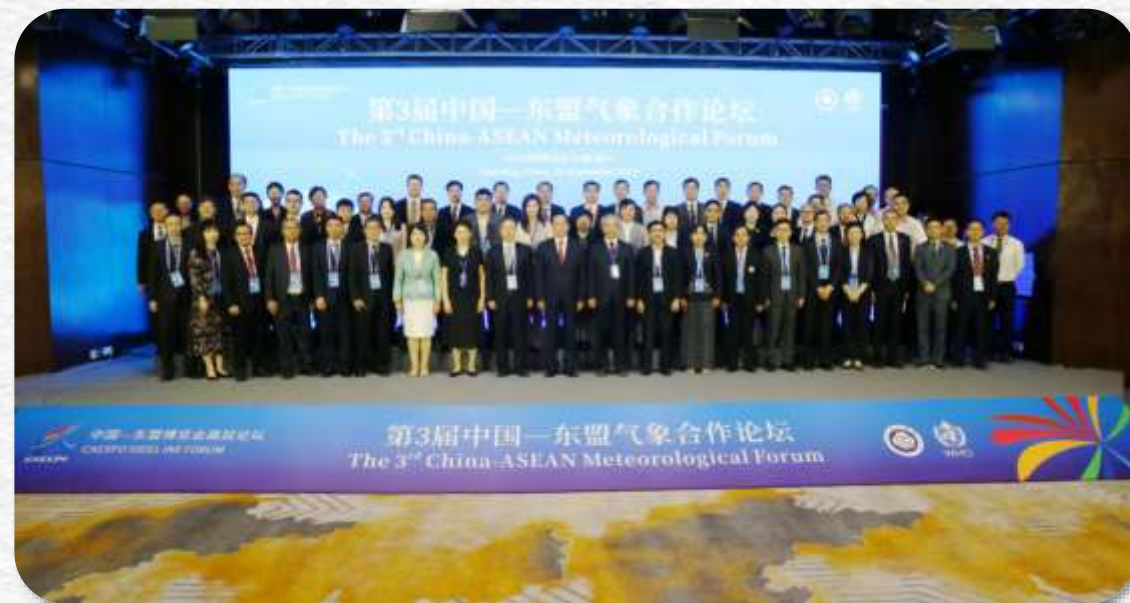
September 17, 2025

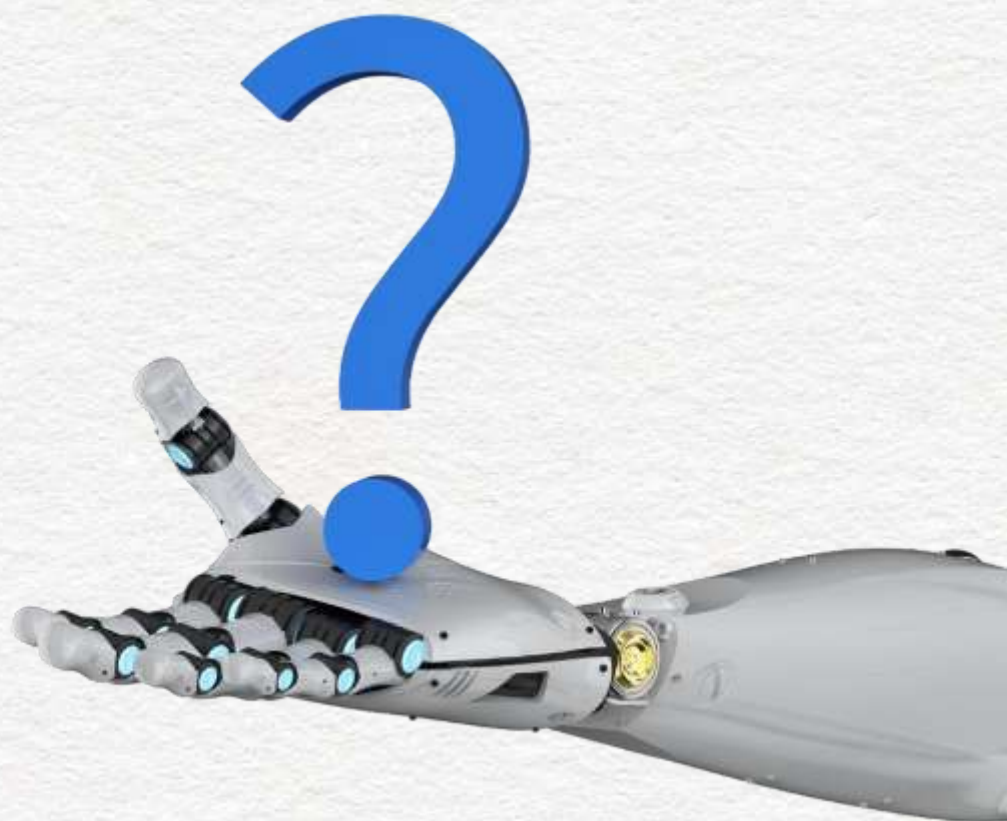




举办3届中国—东盟气象合作论坛，开展多领域务实合作

Successfully convened three sessions of the China-ASEAN Meteorological Cooperation Forum, carried out practical cooperation in multiple fields

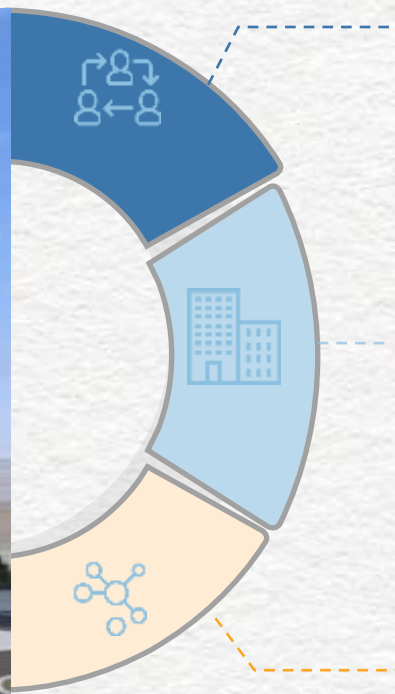






「“家”的构想」 Idea of the “Home”

聚焦共性需求，集成资源技术，共同研究问题需求，共同提出解决方案
Focus on common needs, integrate resources and technologies, jointly explore problems and demands, and propose solutions



合作纽带
Cooperation link

集成平台
Integrated platform

场景融合
Integrated scenario

发挥三个作用
Play three roles





“家”的概念

Concept of the “Home”

科研
Scientific research

转化
Transformation

培训
Training

互动
Interaction

中国—东盟气象之家 China-ASEAN Meteorology Home

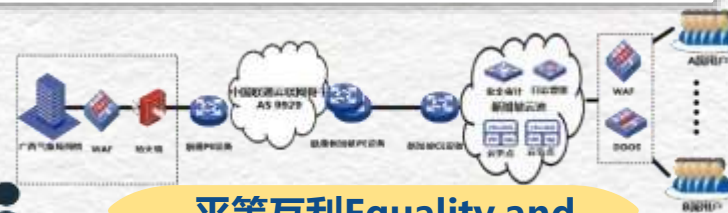
“面对面” 物理空间
“Face-to-face” physical space



相互尊重
Mutual respect

“端对端” 数字空间
“End-to-end” digital space

气象数据海外云节点
Overseas cloud nodes for meteorological data



平等互利
Equality and mutual benefit

防灾减灾
Disaster prevention and mitigation

农业生态
Agricultural ecology

能源交通
Energy and transportation

.....

中国—东盟气象合作论坛机制
China-ASEAN Meteorological Cooperation Forum mechanism





「“家” 的愿景」 Vision of the “Home”



合作纽带，让连接更紧密 Stronger partnerships foster closer ties

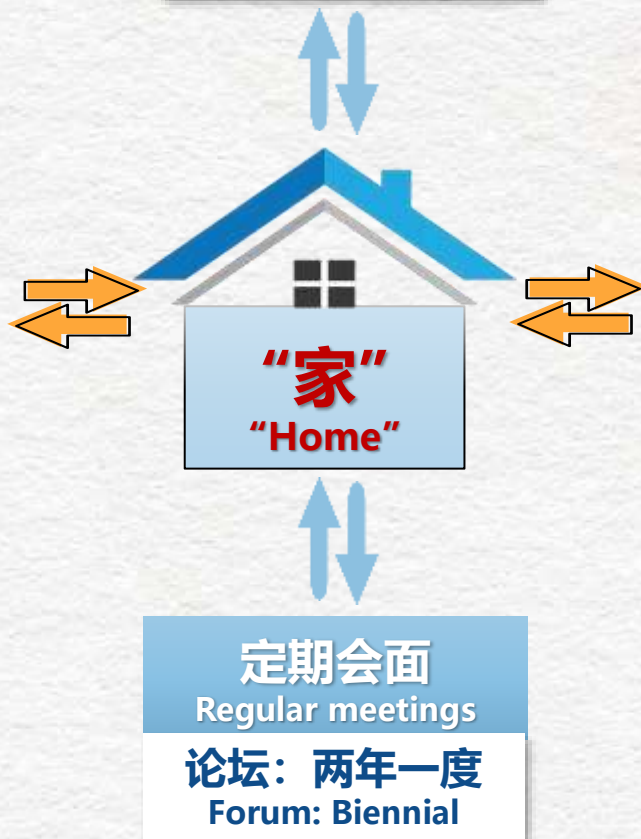
常态化运行
Regular operation
日常：365天*2年
Routine: 365 days*2

常态化运行、集成化资源、定制化服务
Regular operation, Integrated resources, Customized services

中国气象
China Meteorology

集成化资源：
业务体系
技术资源

Integrated resources:
Operational systems
Technical resources



东盟国家
ASEAN

定制化服务：
对接需求
匹配资源

Customized services:
Align Cooperation
Needs
Match resources





「“家”的愿景」 Vision of the “Home”



02 集成平台，让资源更集聚 Integrated platform makes resources more concentrated

汇集成果 Gather achievements

合作基础

Cooperation foundation

- **早期预警：**发布全民早期预警中国方案“妈祖（MAZU）”
Early warnings: launch China's solution to early warnings for all: MAZU
- **模型体系：**从分钟、小时到季节尺度人工智能预报模型
Model system: AI forecasting models from minute, hour to seasonal scales

合作方向

Cooperation direction

- **联合开展符合本地需求的应用研发和技术攻关**
Jointly carry out application R&D and technical breakthroughs tailored to local needs



“风雷” “风清” “风顺” 气象预报大模型

“FengLei”, “FengQing”, “FengShun” Meteorological Forecast Large Models





「“家”的愿景」 Vision of the “Home”



02 集成平台，让资源更集聚 Integrated platform makes resources more concentrated

共享数据 Share data

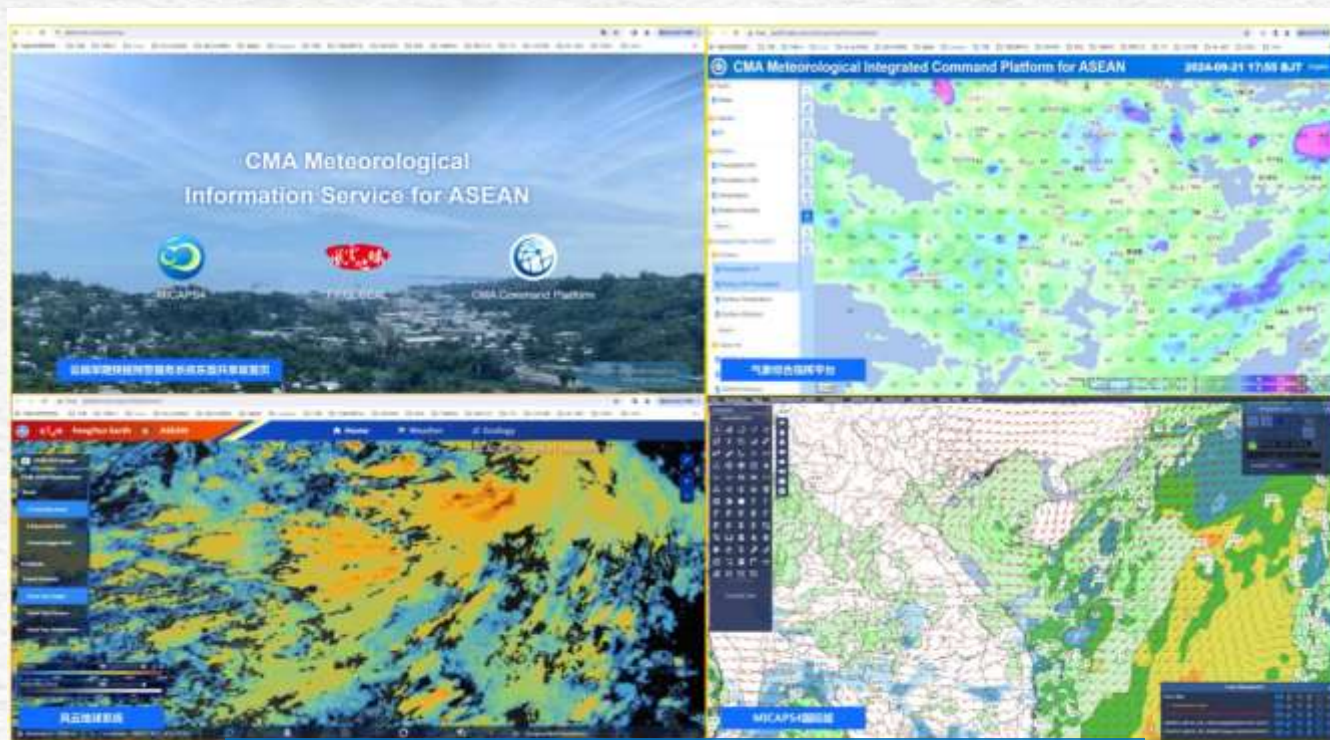
合作基础 Cooperation foundation

- **数据通道：**开通气象数据海外云节点，搭建气象数据跨境共享“高速通道”

Data channel: Launched overseas cloud nodes for meteorological data, building a "high-speed channel" for cross-border meteorological data sharing

合作方向 Cooperation direction

- 构建安全可靠的数据资源环境，共享数据产品，深化“云上”协作
Build a secure and reliable data resource environment, share data products, deepen "cloud-based" collaboration
- 共享区域AI训练数据集、早期预警应用工具箱等技术
Share technologies like regional AI training datasets, early warning application toolkits



开通气象数据海外云节点

Launch overseas cloud nodes for meteorological data





「“家” 的愿景」 Vision of the “Home”



02 集成平台，让资源更集聚 Integrated platform makes resources more concentrated

装备计量 Equipment metrology

合作基础

Cooperation foundation

- 建成中国气象局东盟大气探测合作研究中心、国家综合气象观测专项试验外场
Established CMA ASEAN Atmospheric Observation Cooperation Research Center and National Specialized Field Experiment Site for Integrated Meteorological Observation



南宁国家综合气象观测专项试验外场（布局图）

Nanning National Specialized Field Experiment Site for Integrated

Meteorological Observation (Layout diagram)

合作方向

Cooperation direction

- 开展计量校准、装备比对试验、观测技术交流合作
Carry out metrological calibration, equipment comparison tests, observation technology exchange and cooperation



中国气象局东盟大气探测合作研究中心
CMA ASEAN Atmospheric Observation
Cooperation Research Center



参观计量实验室
Visit metrology laboratory

获得国际互认的CNAS认证
Obtaining CNAS accreditation
with international mutual
recognition





「“家” 的愿景」 Vision of the “Home”



02 集成平台，让资源更集聚

Integrated platform makes resources more concentrated

科学试验 Scientific experiments

合作基础

Cooperation foundation

- 建成中国气象局岩溶生态气象野外科学试验基地、温室气体及碳中和监测评估中心广西分中心、北部湾国家气候观象台
Established CMA Karst Ecological Meteorology Field Science Experiment Base, Greenhouse Gases and Carbon Neutrality Monitoring Assessment Center Guangxi Branch, Beibu Gulf National Climate Observatory

合作方向

Cooperation direction

- 联合开展生态、海洋等领域外场科学试验和技术交流
Jointly carry out field scientific experiments and technical exchanges in ecology, oceanography and other fields



中国气象局岩溶生态气象野外科学试验基地CMA Karst Ecological Meteorology Field Science Experiment Base



北部湾国家气候观象台Beibu Gulf National Climate Observatory





「“家”的愿景」 Vision of the “Home”



02 集成平台，让资源更集聚 Integrated platform makes resources more concentrated

人才交流 Talent exchange

合作基础

Cooperation foundation

- 举办21届亚洲区域气候监测、预测和评估论坛等学术活动
Hosted 21 sessions of the Forum on Regional Climate Monitoring, Assessment and Prediction for Asia and other academic events
- 启动“一带一路”气象访问学者计划
Launched the Belt and Road Meteorological Visiting Scholars Program
- 具备开展参访、学习、交流的场地和课程培训体系
Having venues and curriculum training systems for visits, study, and exchanges

合作方向

Cooperation direction

- 共同研发精品培训课程
Co-develop high-quality training courses
- “量身定制”培养和科研计划
"Tailor-made" training and research plans



启动“一带一路”气象访问学者计划
Launched the Belt and Road Meteorological Visiting Scholar Program



东盟国家技术示范培训班
Technical demonstration training courses for ASEAN countries



参观甘蔗气象服务基地
Visit sugarcane meteorological service base



参观业务平台
Visit operational facility



「“家”的愿景」 Vision of the “Home”



03 场景融合，让合作更聚焦

Integrated scenario makes cooperation more focused

广西建设中国—东盟人工智能创新合作中心，拥有中国—东盟信息港、南宁国际通信业务出入口局等开放平台和快速数字通道 Built the China, ASEAN Accelerate Digital Cooperation in Guangxi, possessing open platforms and fast digital channels like the China-ASEAN Information Harbor, Nanning International Communication Services Gateway

- 东盟连续**25年**保持广西第一大贸易伙伴
ASEAN has been Guangxi's largest trading partner for **25 consecutive years**
- 2025年新签约“人工智能+”产业项目**70多个**、签约总额超**330亿元**
In 2025, signed over **70** new "AI+" industry projects with a total value exceeding **33 billion yuan**
- 广西**40所**高校开设东盟语种专业
40 universities in Guangxi offer ASEAN language majors



中国—东盟人工智能创新合作中心
China, ASEAN Accelerate Digital Cooperation





「“家”的愿景」 Vision of the “Home”



03

场景融合，让合作更聚焦

Integrated scenario makes cooperation more focused

场景“互融”：山水相连、人文相近、民心相通，气候和资源禀赋相似

Scenario "integration": connected mountains and rivers, similar cultures, connected people and similar climates and resource endowments



洪涝
Flooding



农业
Agriculture



能源
Energy



交通
Transportation

共性需求：防灾减灾、农业、能源、交通、生态等领域

Common needs: Disaster prevention and mitigation, agriculture, energy, transportation, ecology and other fields

探索实践：广西融合大数据、人工智能等新技术，开展具有地域特点和资源特色的创新研发

Exploration and practice: Guangxi integrates big data, AI and other new technologies to carry out innovative R&D with regional characteristics and resource advantages





「“家”的愿景」 Vision of the “Home”



03

场景融合，让合作更聚焦

Integrated scenario makes cooperation more focused

防灾减灾 Disaster prevention and mitigation

合作基础：Cooperation foundation:

- 共建澜湄流域、中越界河（北仑河）流域气象灾害联防联控机制
Co-built meteorological disaster joint prevention mechanisms for the Lancang-Mekong River basin and the China-Vietnam border river (Beilun River) basin
- 开展台风、低涡等机理研究
Conducted research on mechanisms of typhoons, low vortices, etc
- 建成地质灾害、海洋、台风等业务系统，在多个东盟国家应用
- Built operational systems for geological disasters, ocean, typhoons, etc., applied in multiple ASEAN countries



防城港市与越南广宁省举行定期会晤
Fangchenggang City and Vietnam's Quang Ninh Province hold regular meetings



与越南技术交流
Technical exchange with Vietnam

合作方向：Cooperation direction

- 共建常态化联防联控机制
Co-build regular joint prevention mechanisms
- 联合会商、数据共享、技术交流
Joint consultations, data sharing, technical exchanges





「“家” 的愿景」 Vision of the “Home”



03

场景融合，让合作更聚焦

Integrated scenario makes cooperation more focused

农业 Agriculture

合作基础：针对甘蔗、水稻等构建作物生长、产量预测和病虫害预警等服务模型，提供定制化服务

Cooperation foundation: Built service models for crop growth, yield prediction, and pest and disease warning for sugarcane, rice, etc. providing customized services

合作方向：联合开展分作物、分灾种、分生育期农业气象服务，联合研究特色作物天气风险预警等模型

Cooperation direction: Jointly carry out agricultural meteorological services by crop, disaster type, and growth period; jointly research models for weather risk warnings for characteristic crops, etc.



甘蔗气象服务系统 Sugarcane meteorological service system



测量甘蔗光谱信息 Measuring sugarcane spectral information





「“家” 的愿景」 Vision of the “Home”



03

场景融合，让合作更聚焦

Integrated scenario makes cooperation more focused

能源 Energy

合作基础：Cooperation foundation:

➤ 构建智慧能源电力服务体系

Established a smart energy and power service system

➤ 研发能源气象AI模型 “禹衡”

Developed "Yuheng," an AI model for energy meteorology

合作方向：联合研发符合本地需求的能源气象AI预测模型，支撑全链条风光出力预测、生产调度和绿电交易

Cooperation direction: Jointly develop energy meteorology AI prediction models that meet local needs, supporting full-chain forecasting of wind and solar power output, production scheduling, and green electricity trading



能源气象AI模型 “禹衡”

Energy meteorology AI model "Yuheng"





「“家”的愿景」 Vision of the “Home”



03

场景融合，让合作更聚焦

Integrated scenario makes cooperation more focused

交通 Transportation

合作基础：Cooperation foundation:

➤ 建成交通气象智能观测服务平台

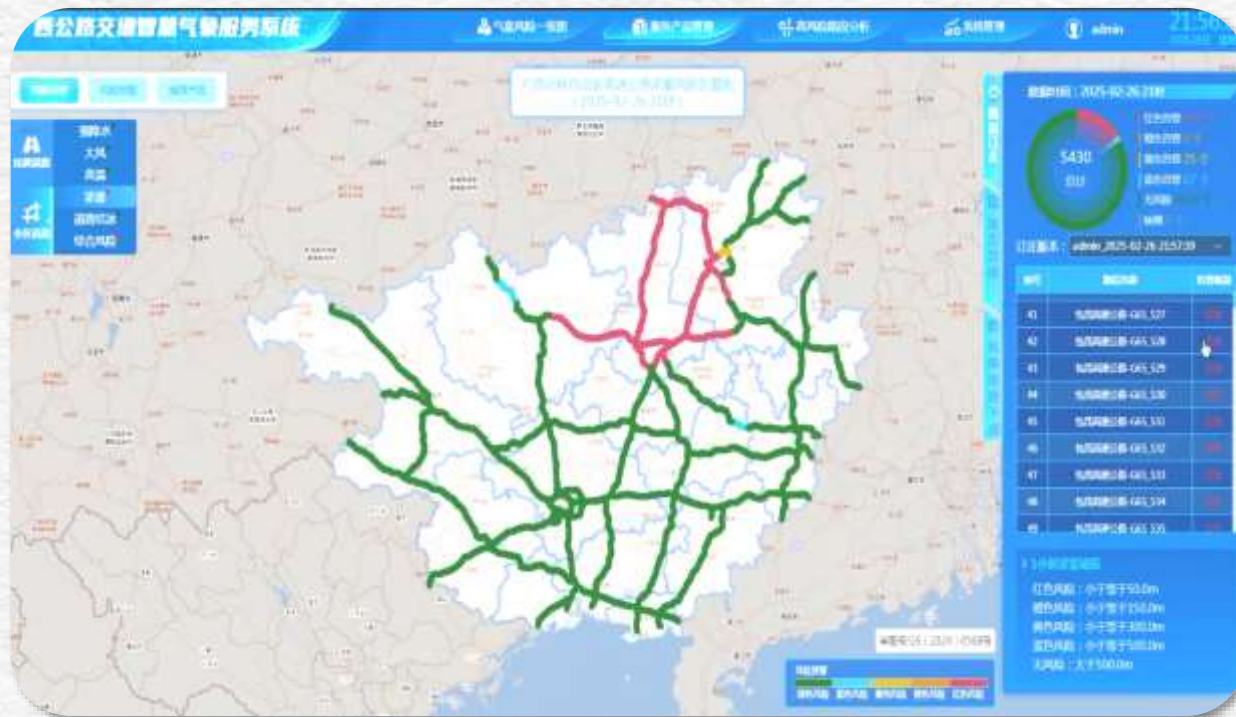
Built an intelligent transportation meteorology observation service platform

➤ 研发海雾监测、对流识别等模型

Developed models for sea fog monitoring, convection identification, etc.

合作方向：联合开展跨国交通预报模型研究应用，开展港口航运、低空经济等方面定制服务合作

Cooperation direction: Jointly research and apply transnational transportation forecast models; carry out customized service cooperation in port shipping, low-altitude economy, etc.



交通气象智能观测服务平台
Intelligent transportation meteorology observation service platform





「“家”的愿景」 Vision of the “Home”



03

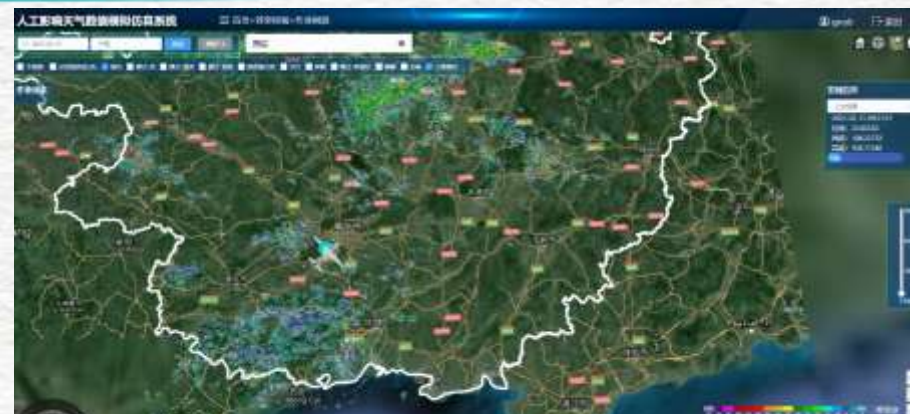
场景融合，让合作更聚焦

Integrated scenario makes cooperation more focused

生态 Ecology

合作基础：Cooperation foundation:

- 基于卫星开展植被、土壤水分、大气污染等遥感监测服务
Conduct remote sensing monitoring services for vegetation, soil moisture, atmospheric pollution, etc., based on satellites
- 开展石漠化等生态系统脆弱性问题研究
Conduct research on ecosystem vulnerabilities like rocky desertification
- 跨国开展无人机暖云催化增雨科学试验
Conduct cross-border scientific experiments on unmanned aerial vehicle (UAV) warm cloud seeding for rainfall enhancement



人工影响天气数值模拟仿真系统

Numerical simulation and emulation system for artificial weather



联合开展无人机暖云增雨试验

Jointly conducting UAV warm cloud seeding for rainfall

合作方向：Cooperation direction

- 联合开展植被生态及碳汇能力遥感监测合作
Jointly carry out cooperation on remote sensing monitoring of vegetation ecology and carbon sink capacity
- 联合研究人工影响天气作业指标等技术，开展交流培训和科学试验
Jointly research technologies like weather modification operation indicators; carry out exchange training and scientific experiments

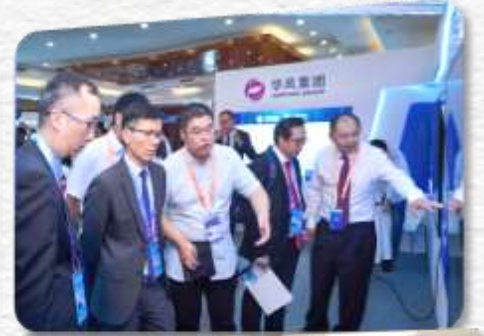




「“家” 的愿景」 Vision of the “Home”

文化互鉴融通，创新**主题国**、**主宾省**轮值形式，营造暖心、包容的“家”文化

Mutual cultural learning and integration, innovating the rotating formats of **theme country** and **guest province**, to cultivate a warm and inclusive "home" culture



愿常来常往、相互赋能、共赢发展

May we visit frequently, empower each other, and
achieve win-win development!

Thank you!





第4届中国—东盟气象合作论坛

THE 4TH CHINA-ASEAN METEOROLOGICAL COOPERATION FORUM

数智赋能气象合作 早期预警普惠民生

DIGITAL INTELLIGENCE EMPOWERS METEOROLOGICAL COOPERATION EARLY WARNINGS BENEFIT PEOPLE'S LIVELIHOODS

主办单位：广西壮族自治区气象局
Hosted by: Meteorological Service of Guangxi Zhuang Autonomous Region

中国气象局国际合作与培训中心
China Meteorological Administration International Cooperation and Training Centre

中国气象学会
Chinese Meteorological Society

协办单位：广西壮族自治区生态环境厅
Co-Organized by: Department of Ecology and Environment of Guangxi Zhuang Autonomous Region

广西壮族自治区商务厅
Department of Commerce of Guangxi Zhuang Autonomous Region

广西壮族自治区大数据发展局
Big Data Development Bureau of Guangxi Zhuang Autonomous Region

2025年9月17-19日 中国·南宁
September 17-19, 2025 Nanning, China

