



国家预警信息发布中心
National Early Warning Center

The Three-dimensional Communication Network of the National Early Warning Information Release Center, China

LYU Minghui

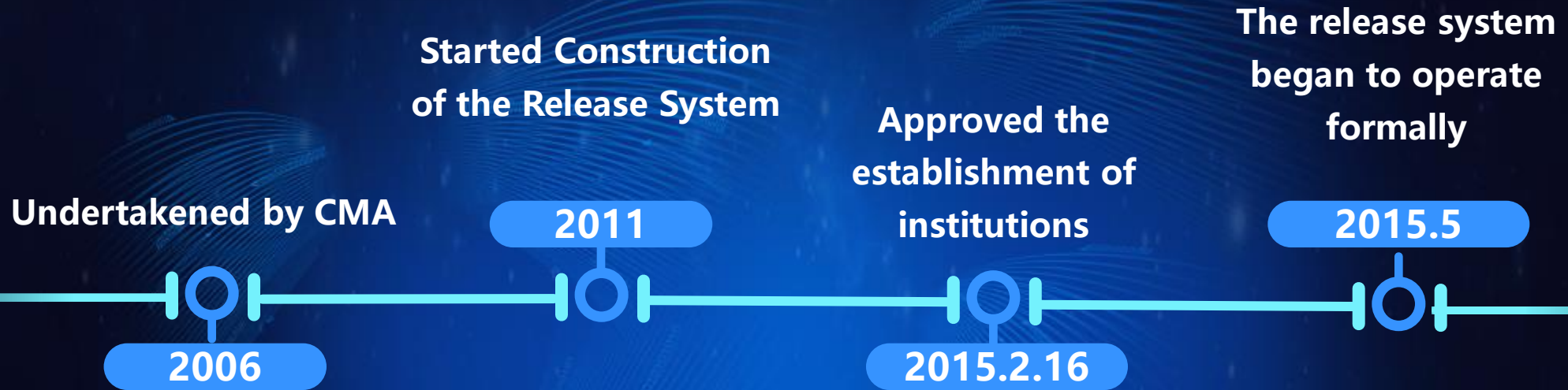
The 2020 CAP Implementation Workshop

September 28-30, 2020

CONTENTS

1. Introduction of the National Early Warning Information Release System in China
2. The Three-dimensional Dissemination Network of Early Warning Information
3. Effective of the Three-dimensional Dissemination

1.1 Development history



Listed in "the Plan for the Construction of National Emergency Response System for Public Emergencies during the "Eleventh Five-Year" Period", to establish the Comprehensive release system for early warning information of public emergencies



1.2 The status quo

Intensification Release Platform

Multiple Ways

Wide Coverage

Vertical:

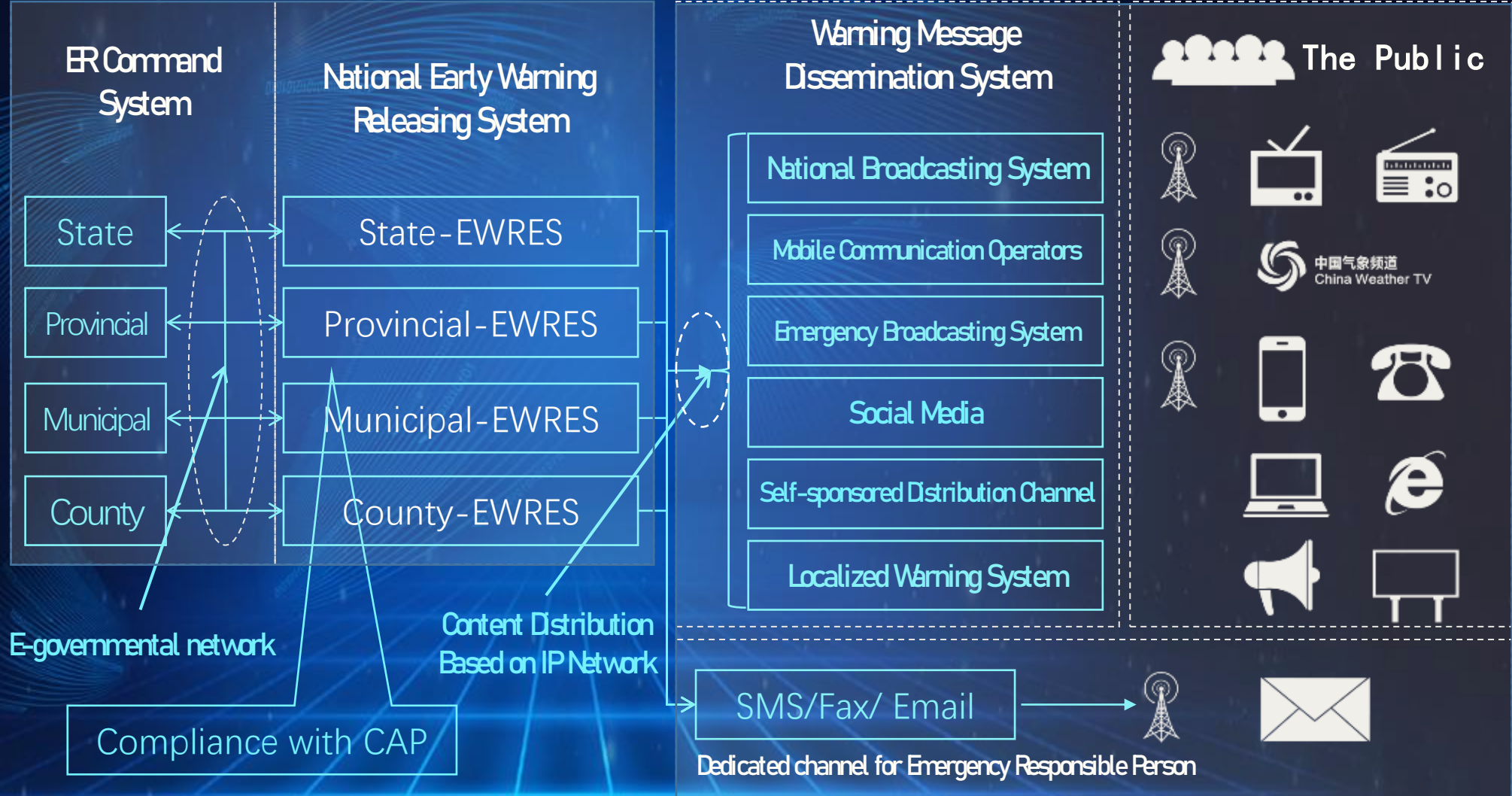
1 (National-EWRES)

31 (Provincial-EWRES)

358 (Municipal -EWRES)

2016 (County-EWRES)

Horizontal: Connect with relevant government departments at the same level



Achieved to Release 76 Types Early Warning Information from 16 Industries.

Categories	Types
Natural Disasters 37	meteorology, geology, earthquake, water conservancy, ocean, forestry, agriculture
Accident Disaster 20	transportation (road, water area) accidents, environmental pollution belts, ecological environment damage accidents
Public Health 9	sudden acute infectious disease, food safety, drug safety, group vaccination, wild animal epidemic prevention, etc.
Social Security 10	road traffic safety control, economic crime warning reminder, travel reminder, overseas safety warning, major network security threat warning

Covering 1 Billion People

Directly to Public with Mobile Communications	Dedicated line : access to China Mobile, China Unicom and Telecom in 31 provinces Green Channel: full network release nationwide basically	
Directly to Audience through Radio and TV	Establish dedicated line with the Central People's Broadcasting and Television Station Established dedicated lines with local TV and radio stations in 31 provinces	
Directly to Public with Emergency Broadcasting System	Connect with local emergency broadcast in 523 counties, 63 municipals, 10 provinces	
Directly to Public through Social Medias	Baidu: Covers 83% of Internet users Tencent: Covers 600 million WeChat users and 400 million QQ pop-up users Alibaba: Covering 400 million Alipay users Sina: Covering 300 million Weibo users	Tik Tok: 250 million daily active users TopBuzz: 150 million daily active users Xuexi.cn: 120 million key users

● To solve the "last mile"

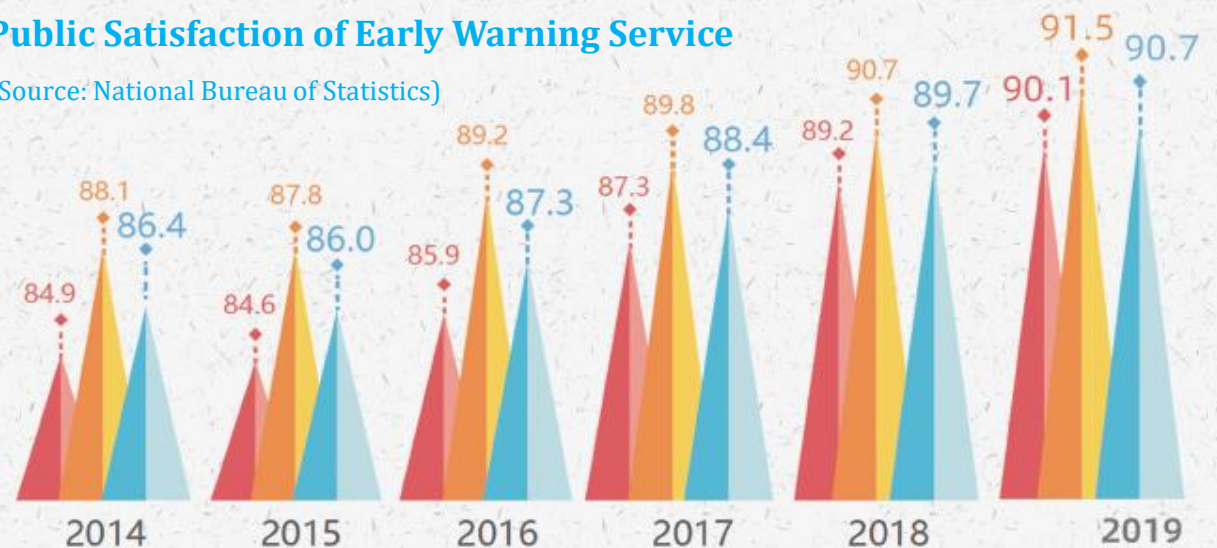
490,000 Rural Loudspeakers

78,000 Rural Information Stations

8 Marine Meteorological Radio Stations

Public Satisfaction of Early Warning Service

(Source: National Bureau of Statistics)



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The construction of a three-dimensional dissemination network for early warning information was launched in May, 2019



Ms. LIUYaning
Director of CMA

Strengthen the construction of information dissemination system for natural disaster prevention in the multi-media era.

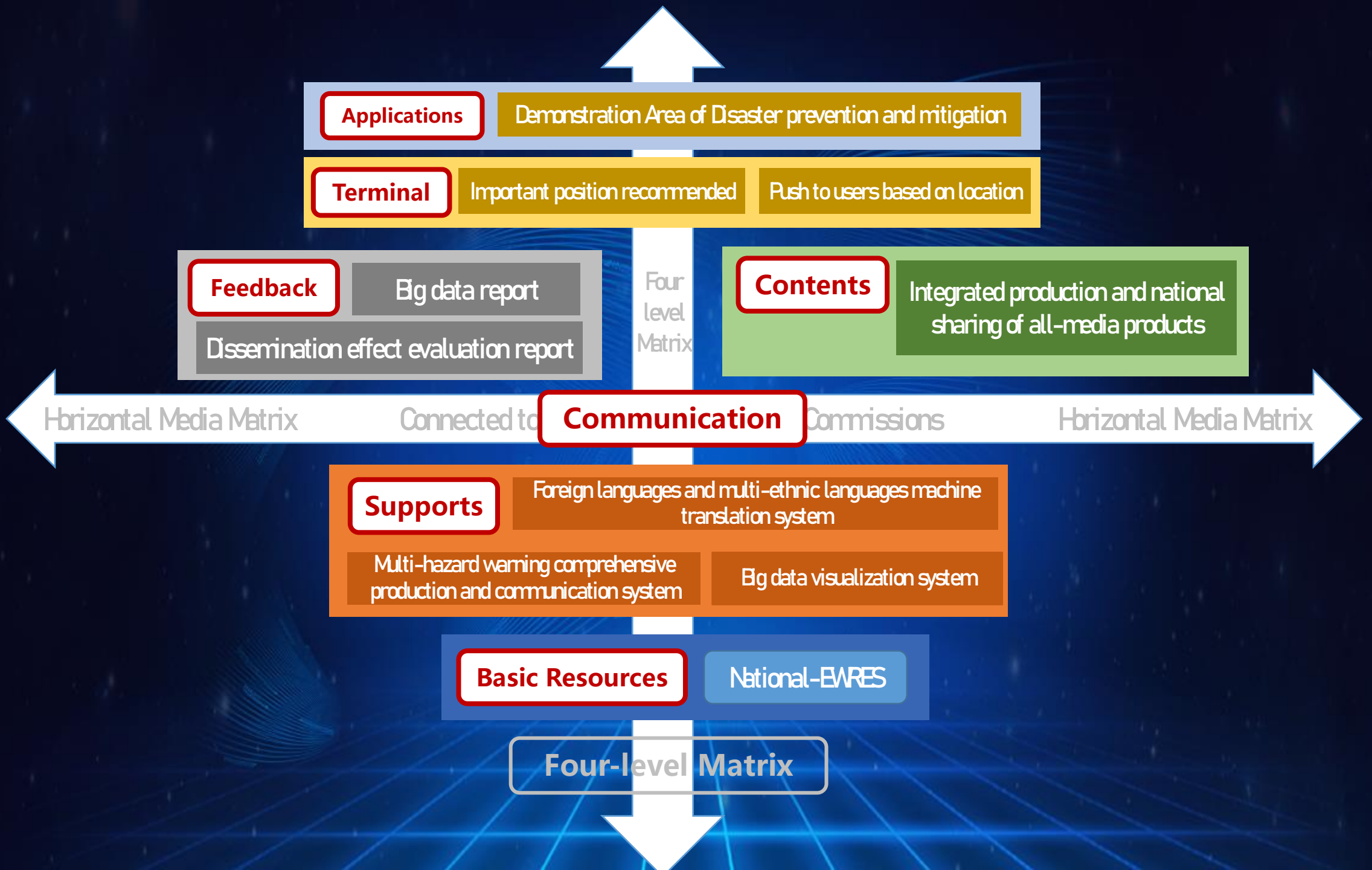
- ✓ Explore new methods to communicate emergency early warning information, and use social media resources to promote coverage of early warning information directly and solve the "last mile" problem
- ✓ Constructed a people-oriented popularization platform focused on people's livelihood and caring for life, to improve the public's ability to respond to emergency and self-rescue and mutual rescue effectively.
- ✓ Establish and improve the re-dissemination mechanism of early warning information society, and create an ecosystem of early warning information release and dissemination involving the whole society, to improve the comprehensive management capabilities of natural disasters.



Mr. YUYong
Vice-director of CMA

Structure and function

- ✓ Using Internet artificial intelligence, big data, cloud computing, using social network platforms such as Weibo, WeChat, Tik-tok, etc., using information aggregation technology and geographic positioning push technology to promote the accurate and targeted releasing.
- ✓ There has been established with a total of 10,810 Internet release channels, and commonly used mobile phone applications have been basically implemented, and location-based fast and accurate services have been developed
- ✓ United Nations ministries and strengthen cooperation with mass, build demonstration areas and evaluate application effects.



Early warning vlog products

- Jointly launched the early warning short video service with Tik-tok, which automatically converts the graphic warning information into a 15-second vlog and automatically matches the relevant account according to the release area. The whole process is completed within 1 minute.
- At present, there are 1941 early warning Tik-tok accounts, and the maximum view number of single warnings was 14.8 million in 2019.



Early Warning Vlog

Early Warnings from different provinces

中央气象台发布山洪气象灾害黄色预警[III级/较重]
发布时间: 2019-07-13 17:50:35.0
发布单位: 中央气象台

水利部和中国气象局7月13日18时联合发布山洪灾害气象预警: 预计, 7月13日20时至7月14日20时, 浙江西南部、福建西北部、江西东南部、湖南南部、广东西北部、广西东北部、西藏东南部等地部分地区可能发生山洪灾害, 其中浙江西南部、福建西北部、广东西北部、广西东北部局地发生山洪灾害可能性较大。其他地区也可能因局地短历时强降水引

@国家预警发布

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有爱评论, 说点儿好听的~

湖南省气象局发布高温黄色预警[III级/较重]
发布时间: 2019-07-16 16:03:35.0
发布单位: 湖南省气象局

湖南省气象台07月16日16时发布高温黄色预警: 预计16日20时至17日20时, 其中长沙、株洲、湘潭、衡阳、邵阳东部、郴州、永州、娄底将出现35℃、局部37℃以上的高温, 请做好防范。

@湖南预警发布

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有爱评论, 说点儿好听的~

广西壮族自治区气象台更新暴雨蓝色预警[IV级/一般]
发布时间: 2019-07-14 09:54:03.0
发布单位: 广西壮族自治区气象台

广西气象台2019年07月14日09时40分更新发布暴雨蓝色预警, 预计: 未来24小时, 来宾、贺州、梧州、贵港、玉林、崇左、南宁、钦州、防城港、北海等市和桂林、柳州、百色三市南部的部分地区有大雨, 局部暴雨或大暴雨, 并伴有短时雷雨大风等强对流天气。请注意防范。

@广西预警发布

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有爱评论, 说点儿好听的~

福建省气象台发布台风黄色预警[III级/较重]
发布时间: 2019-07-17 21:09:19.0
发布单位: 福建省气象台

福建省气象台7月17日20时40分继续发布台风黄色预警信号。台风现状: 今年第5号台风“丹娜丝”, 20时中心距离台湾省鹅銮鼻东南方向约380公里, 热带风暴级。预计其在台湾以东洋面以每小时25公里左右速度向偏北方向移动。目前位于南海热带低压其中心距离福州市偏南方向约880公里, 向偏北方向移动, 强度逐渐加强, 趋向福建沿海。风的影响;

@福建预警发布

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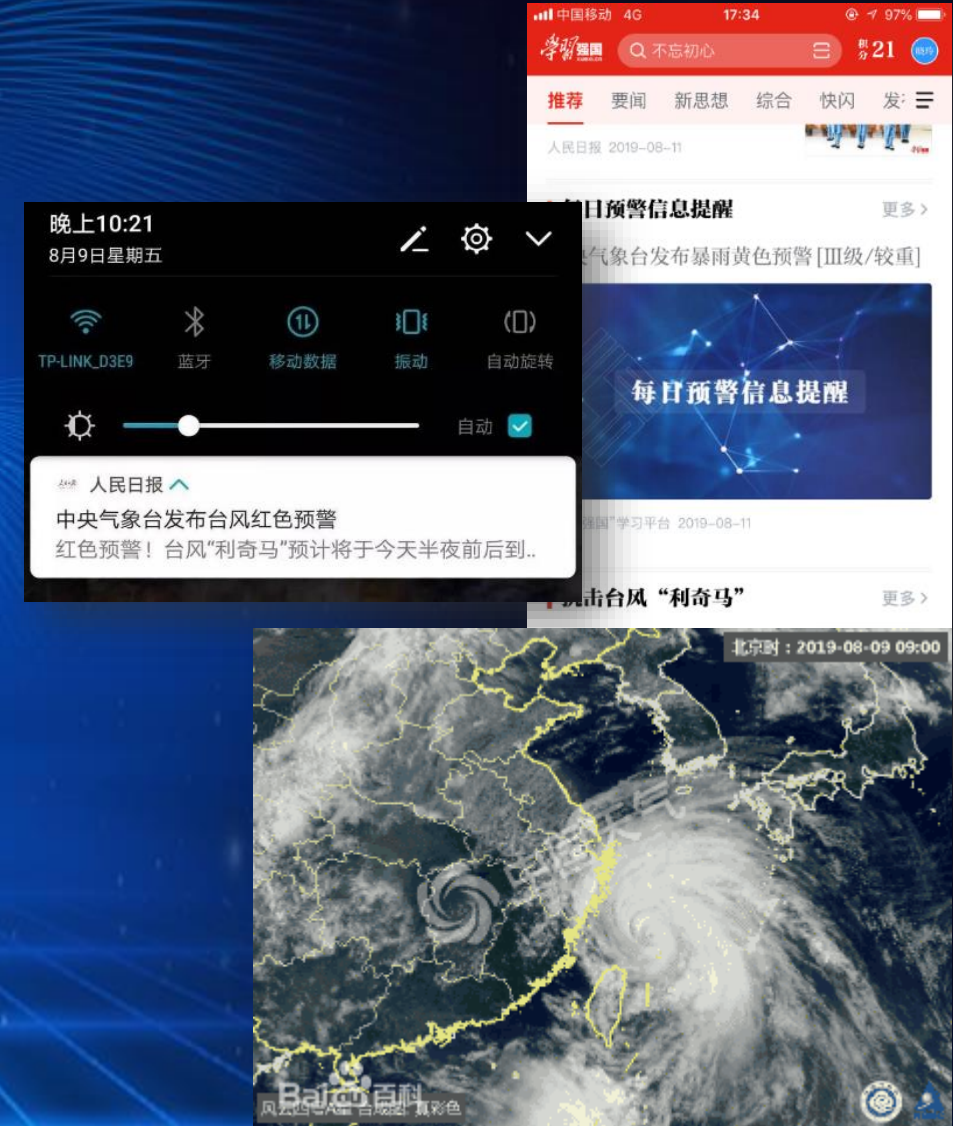
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Super Typhoon Lekima which landed in East China, 2019

- Along with the typhoon path, there were 43 early warning new media accounts in the New Media Matrix which are located in the areas affected by the Lekima, issued 1,171 warnings and covered 300 million person totally.
- The People's Daily client pushed **the Red warning information** of typhoon to 150 million person, pushed geological hazard risk warnings on the pop-up window to 14 million person in Zhejiang.
- The total broadcast population of the "**Shanghai Warning Release**" Tik-tok account was 1.28 million.
- The total reading population of the "**Shandong Early Warning Release**" new media platform was 20.62 million.



Services in epidemic prevention information dissemination,2020

- Collaboration with the health committee, 414,000 information of epidemic prevention about the coronavirus pandemic were released, served about 3.5 million people through the media matrix platform.
- Cooperated with Baidu to launch a real-time epidemic big data map query service, 31 provincial and municipal warning centers nested applications, and the cumulative number of visitors reached 7.51 billion.



Launched "customized weather warning" service, 2020

- Cooperated with the State Post Bureau, the "Meteorological Warning" service function was launched on the "Epidemic Prevention Express" applet, which accurately released warning information of meteorological disasters **above the yellow level**, and served 1.4 million couriers nationwide.



Agricultural Meteorological Warning Information Service, 2020

- In summer, cooperated with the Ministry of Agriculture and Rural Affairs, the "Three Summers" weather warning service is launched in key areas, provided the latest accurate warnings to the 90,723 licensed agricultural operators across the country with for the cross-regional harvesting operations.



Precisely push early warning information on the taxi, 2020

- Pushing warning information to passengers in taxi APP Didi.
- Establishing pilot projects in 30 cities including Beijing, Shanghai, Guangzhou and Shenzhen, and there are more than 3 million passengers using this service every day.



Improve the ability to accurately release early warning information

- Integrating into the national emergency management work system to ensure that the early warning is accurate and can be received by village and household.
- Improving rapid and accurate publishing capabilities, apply new technologies and new media, and achieve accurate and rapid publishing in designated areas.
- Increasing the coverage, and strengthen the release of satellite communication early warning information for remote rural areas, mountainous areas, pastoral areas and sea areas.



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Thank you