

BMKG Modernization Through Cooperation With International Development Partners

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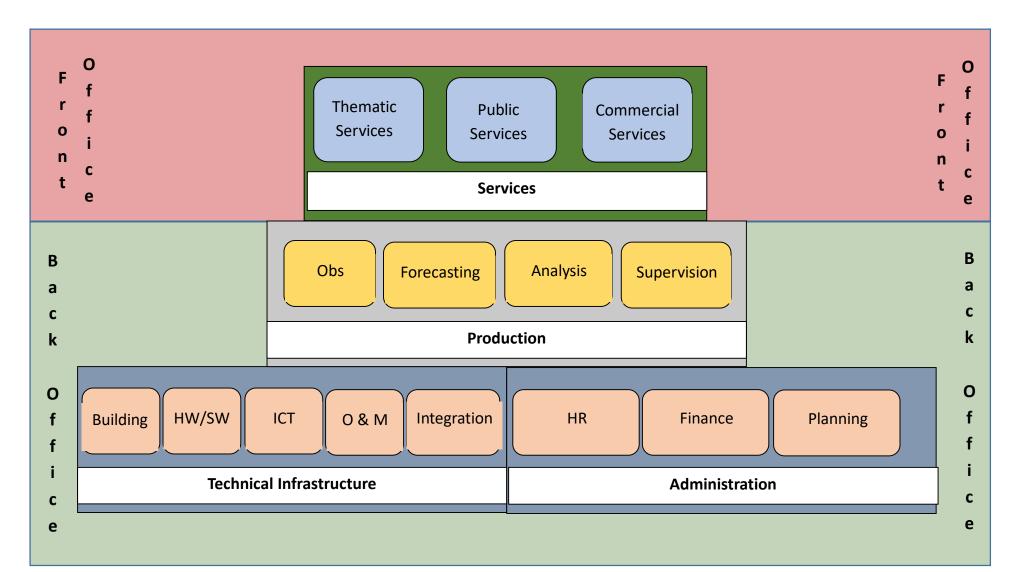
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BUSINESS PROCESS OF BMKG

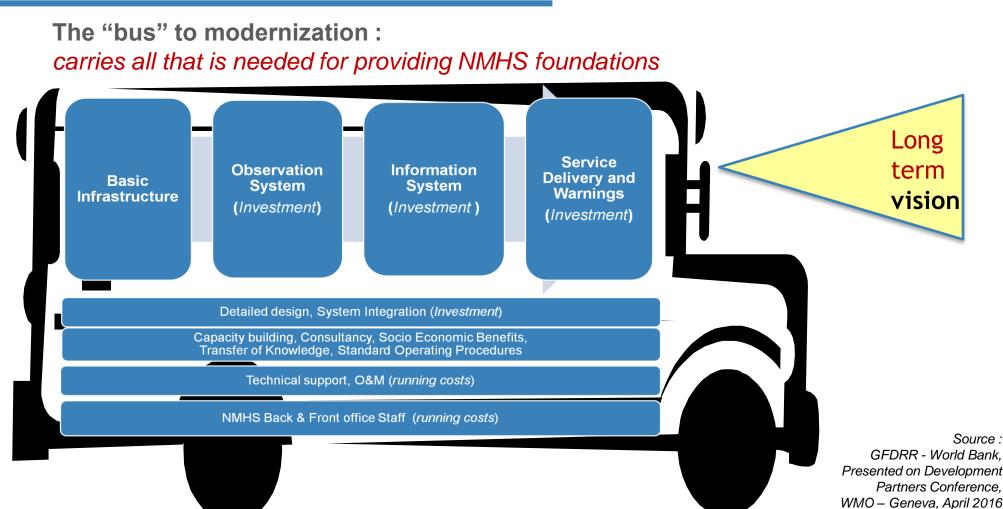


Traditional Approach of Development Project

- Issue on sustainability & optimum use of project deliverables
- Separate project design and implementation
- Itemized project (Non fully integrated projects)
- Issue on Operation & maintenance after the project

Shifting Paradigm





Strengthening BMKG Climate and Weather Service Capacity Project (2012-2015)

- □ Funded by French Goverment Softloan (Natixis Bank)
- □ 1 single contractor for "Design & Build" acting as main integrator → Quick process
- Expected visible outcome for users
- □ Flexible design all along project duration
- >30% of project budget dedicated to "non technical aspects" incl. capacity building, assistance to start, Standard Operating Procedures, system integration, etc
- "Twinning" with Météo-France
 - → involvement of Météo-France experts (transfer of Knowhow, training, etc)
- □ 12-18 months **Technical Support**







^{*} This Project is funded through a soft loan from the French Government



Strengthening BMKG Climate and Weather Service Capacity Project

End to end Integrated Project







PROJECT DESIGN STUDY, SYSTEM INTEGRATION, PROJECT MANAGEMENT, TRANSFER OF KNOW-HOW, CHANGE MANAGEMENT



Strengthening BMKG Climate and Weather Service Capacity Project

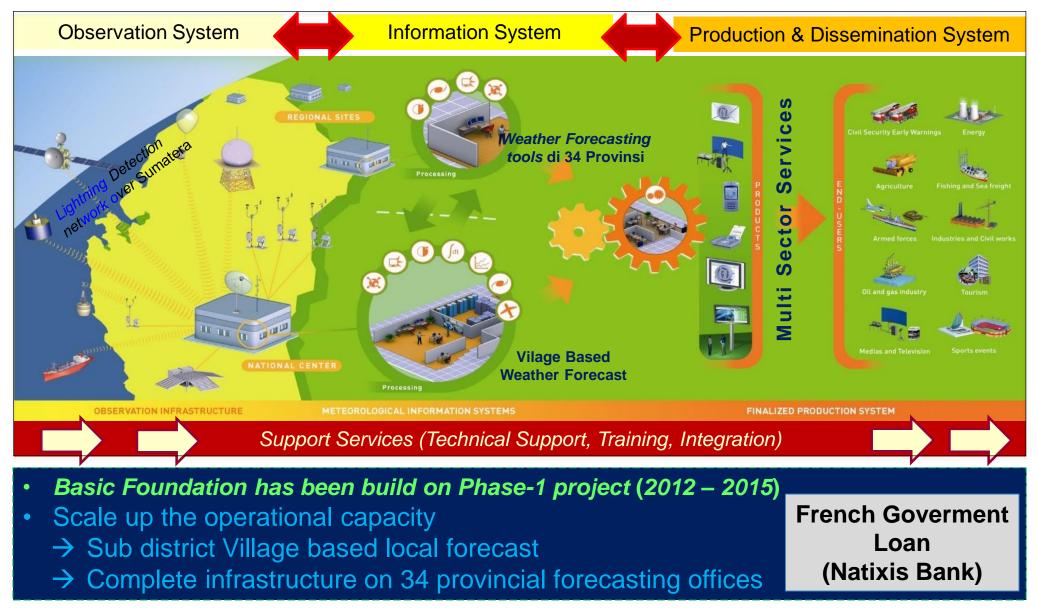
Modernization on IT Infrastructures





Scalling Up Strengthening BMKG Climate and Weather Service Capacity Project (2019 – 2023)

Continuation of Modernization Project





List of BMKG Modernization Project

In Cooperation With International Development Partners

No	Title	Lender	Status	Period
1.	Strengthening BMKG Climate and Weather Service Capacity	Natixis Bank	Completed	2012 – 2015
2.	Scalling Up Strengtheing BMKG Climate and Weather Service Capacity (SUS)	Natixis Bank	Ongoing	2019 – 2023
3.	Strengthening Marine Meteorological Services -1 (MMS-1)	Natixis Bank	Ongoing	2018 – 2025
4.	Strengthening Marine Meteorological Services -2 (MMS-2)	AFD	Ongoing	2019 – 2025
5.	Indonesia Disaster Resilience Initiative Project (IDRIP	World Bank	Ongoing	2020 - 2024



BMKG – KMA Cooperations

No	Area of Cooperations	Activities	
1.	Capacity Development and RTC operation	Training on NWP, ICT, network security, weather radar, satellite data application/ operation, instrument maintenance, etc.	
		Cooperation on e-learning	
		RTC Expert visit	
2.	Climate and Air Quality	WMO/GAW activity	
		Climate (subseasonal to seasonal) Prediction	
		Applied Climate Service	
3.	Numerical Weather Prediction Research and Development	Joint research on Numerical Weather Prediction,	
4.	Intercomparison and Calibration of Equipment	Intercomparison study and calibration of BMKG laboratorium equipment	
5.	Public Weather Services	Mutual visits for exchanging and sharing technologies of IBF & RBW	
		Severe weather warning technology	
6.	Radar and Satellite Weather Services	Technical assistance and capacity building on GK-2 satellite data utilization	
		Technical assistance and capacity building on weather radar data management, quality control and derived composite products	
7.	Aeronautical Meteorology	Sharing experience and knowledge on volcanic ash	
8.	Climate Change	Joint analysis on climate data and climate projection	
		Training on high scale climate data and climate projection	
		Joint analysis on climate change impact to the el-nino, MJO, tropical cyclone, and other phenomena	
9.	Marine Weather Service	Marine weather broadcast service by satellite and broadcast content	
		Expansion of marine weather broadcast service by satellite into the Southeast Asia region	



Thank You

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