



# National vision on flood and drought management

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**United Nations Conference Centre, Bangkok, Thailand**

# Past experience : Extreme Flood and Drought



“Impacted of 13.43 Million people ”



“Impacted of 4.04 Million households ”



“Damage cost THB 1,440 billion”



“GDP revised down from 2.6 % to 1.0 %”



Meteorological drought

“Average rainfall is 46% lower than normal”



Hydrological drought

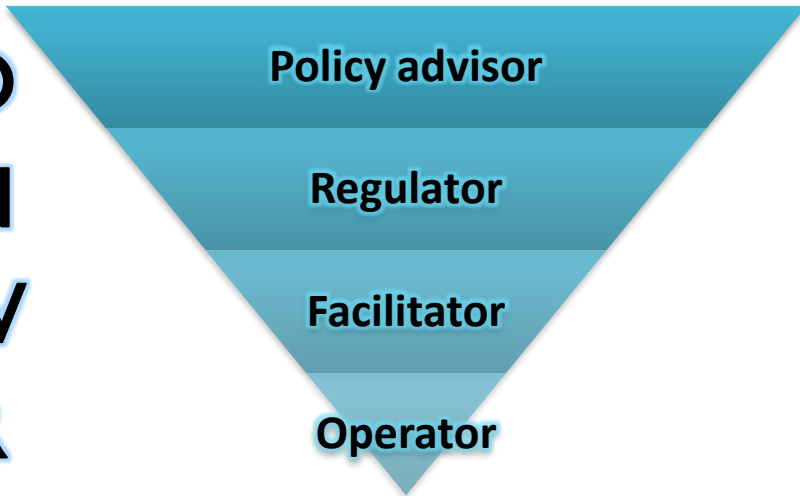
“Water levels at 45% of whole reservoirs capacity”



Agricultural drought

“Rain-fed rice plantations is suffering in the major basin i.e. Chao Phraya river basin”

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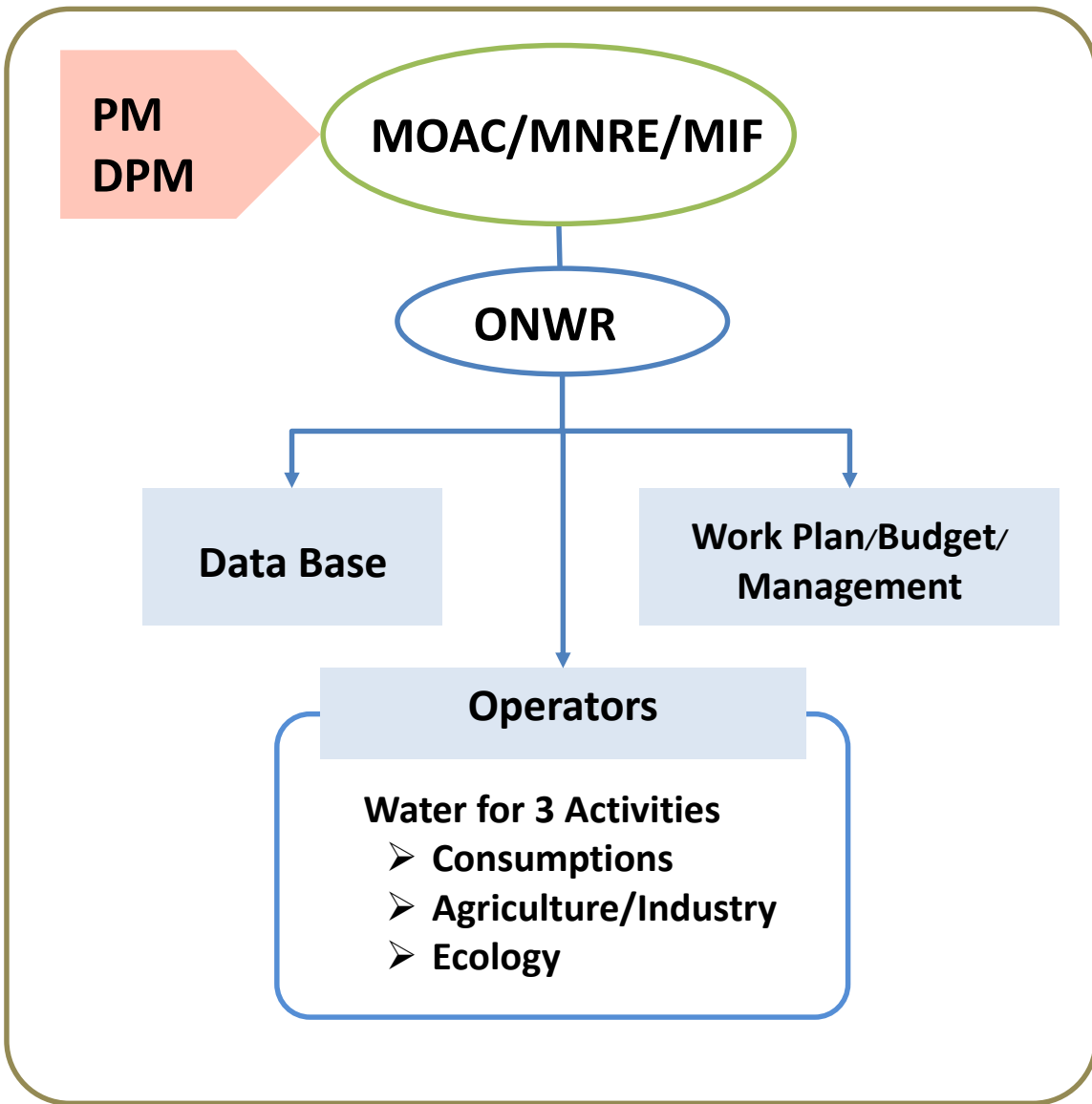
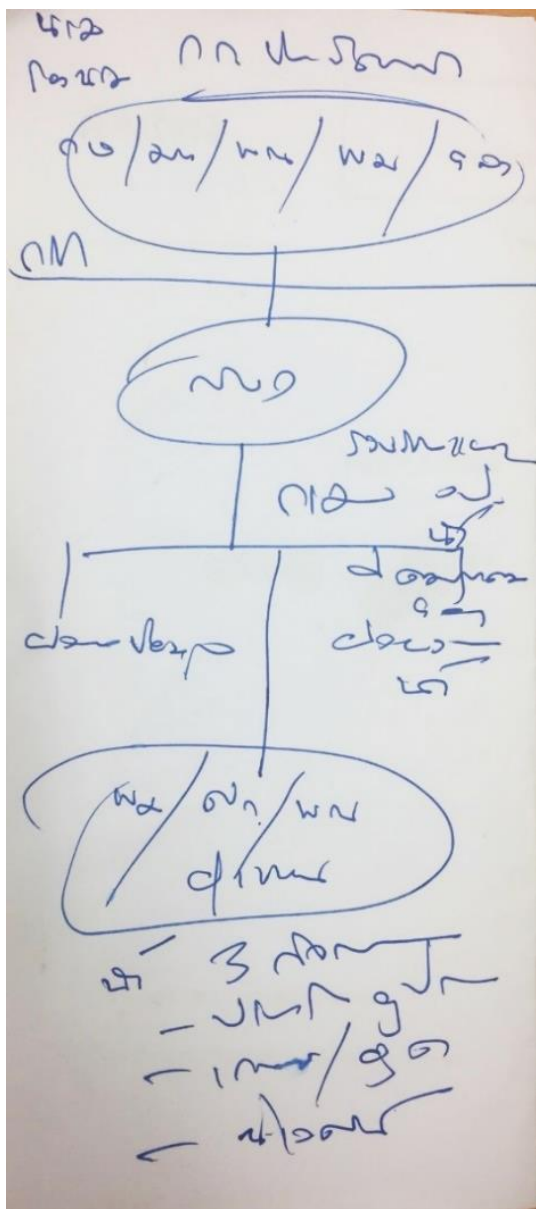
## Ministerial Declaration

### An urgent call for decisive action on water

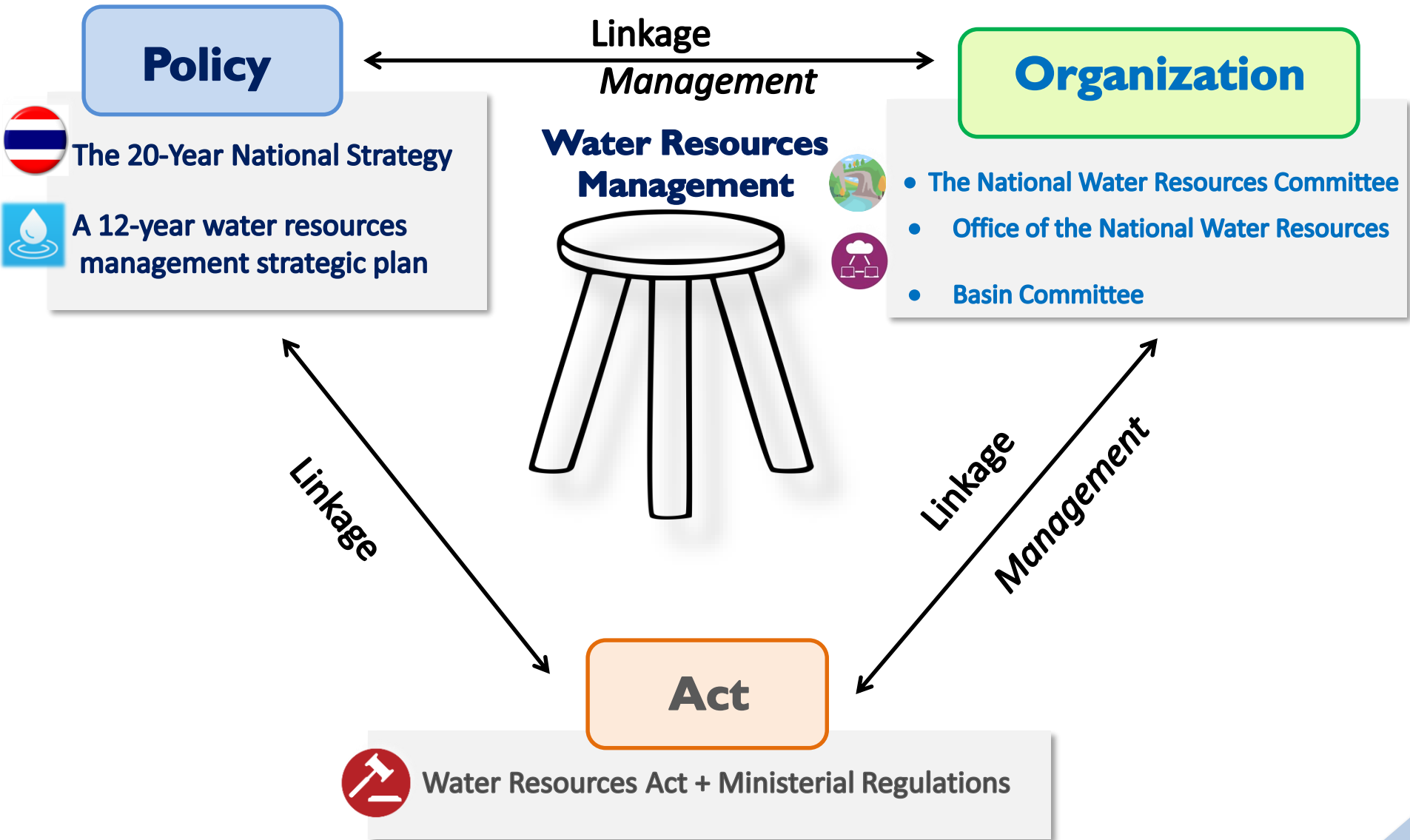
17. Support the strengthening of transparent, effective, inclusive and accountable national and, where appropriate, subnational water institutional arrangements, with participation of all relevant stakeholders and consideration of local circumstances in the policy-making process, while fostering necessary partnerships, confidence building, exchange and sharing of information and experiences among public, private and civil society actors;

# Future Vision : Strategy and Policy





# 3 Mechanisms of Water Resources Management



# Policy : Water Resources Management Strategy 2015-2026



## Upstream Forest Conservation and Soil Erosion Prevention

- Area 763,200 Ha. (58,956 Ha.)



## Creation for Water Security for Production (Agri. + Ind.)

- 9,500 million m<sup>3</sup> (2,358 million m<sup>3</sup>)
- Area 1.36 million Ha. (382,400 Ha.)



## Water Quality Management

- 248 systems (53 systems)



## Water Management for Consumption

- 7490 villages (7,234 vilages)



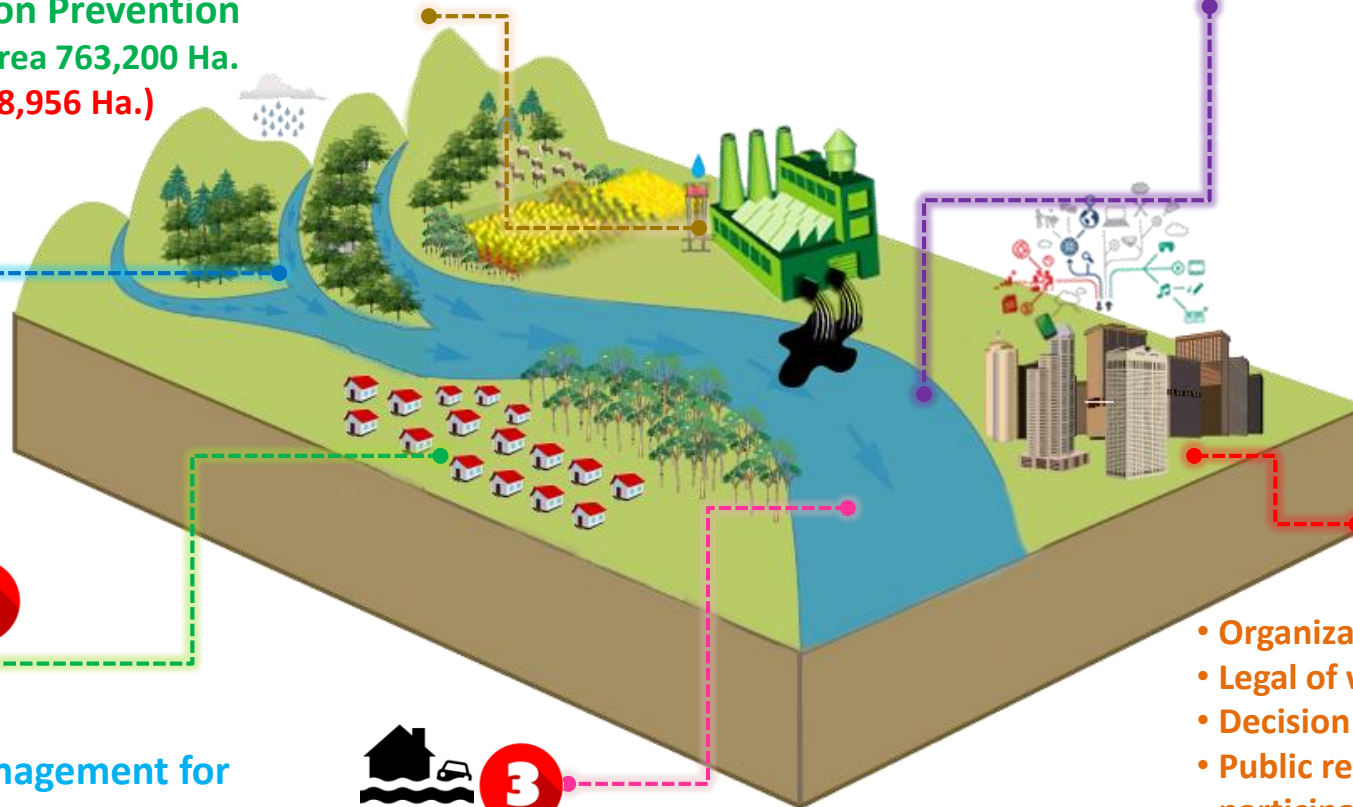
## Flood Management

- Protection Flood 168 cities (63 cities)
- Dredging 870 km. (292 km.)

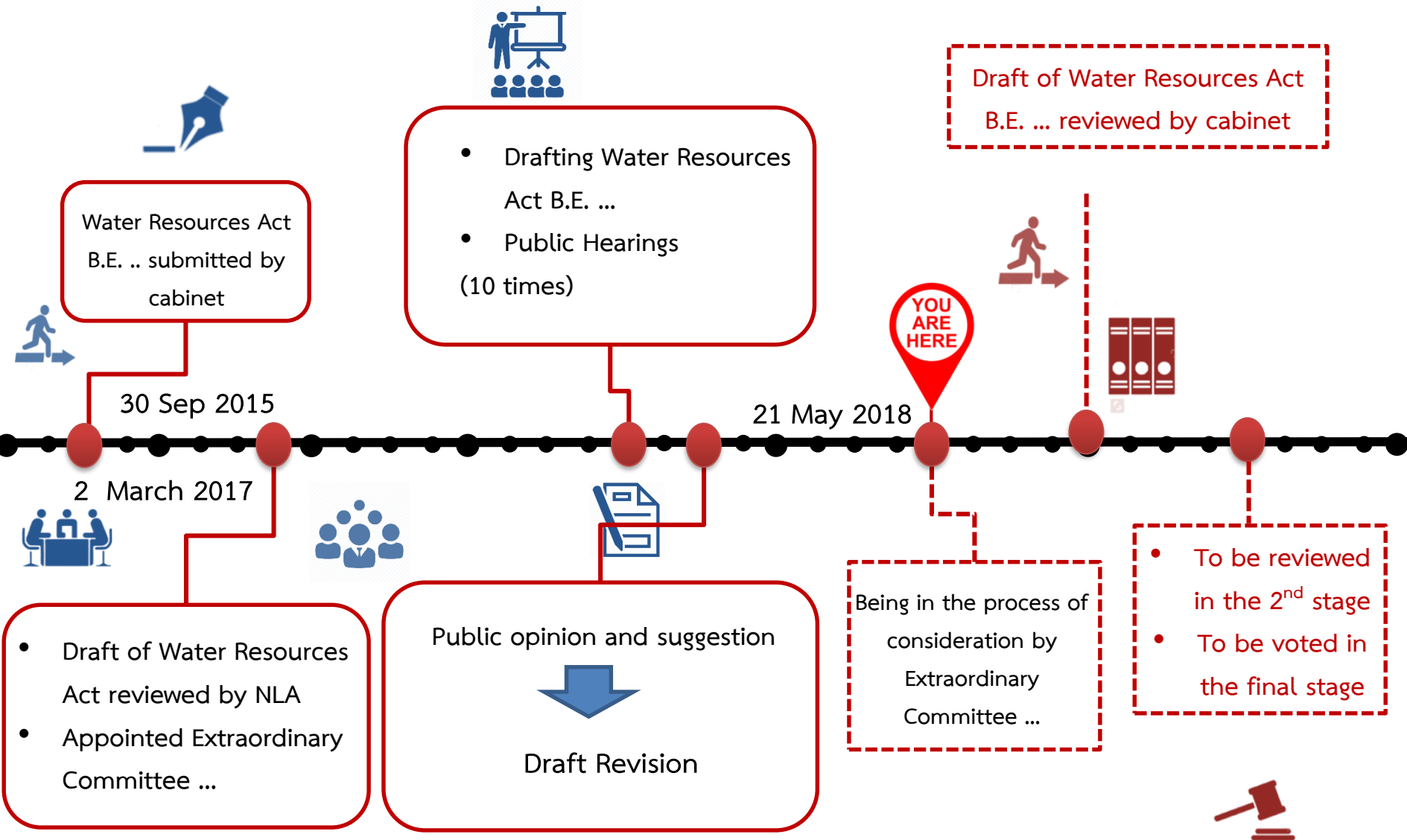


## Management

- Organizations
- Legal of water resource
- Decision Support Data System
- Public relations and participation

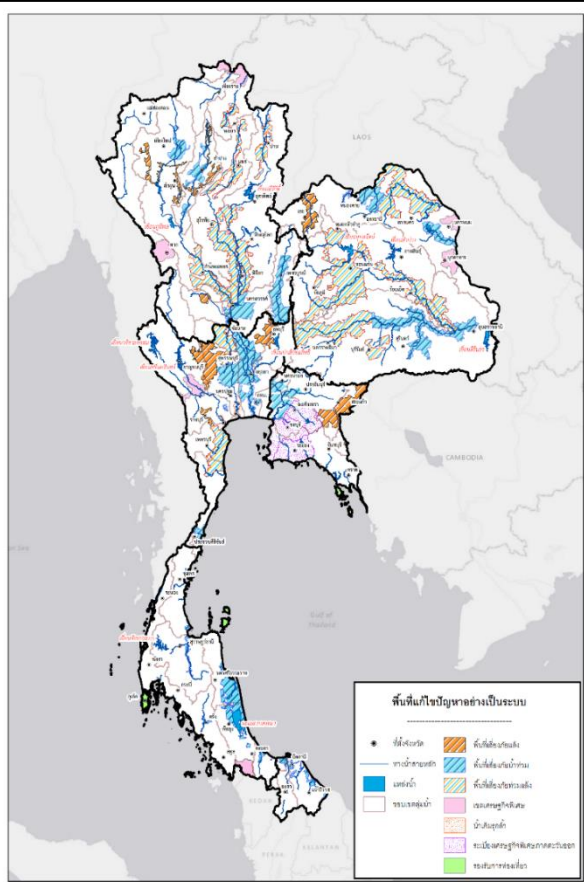


# Act : Timeline of drafting a Water Act





# Management: Flood and Drought Resilience (Area Based)

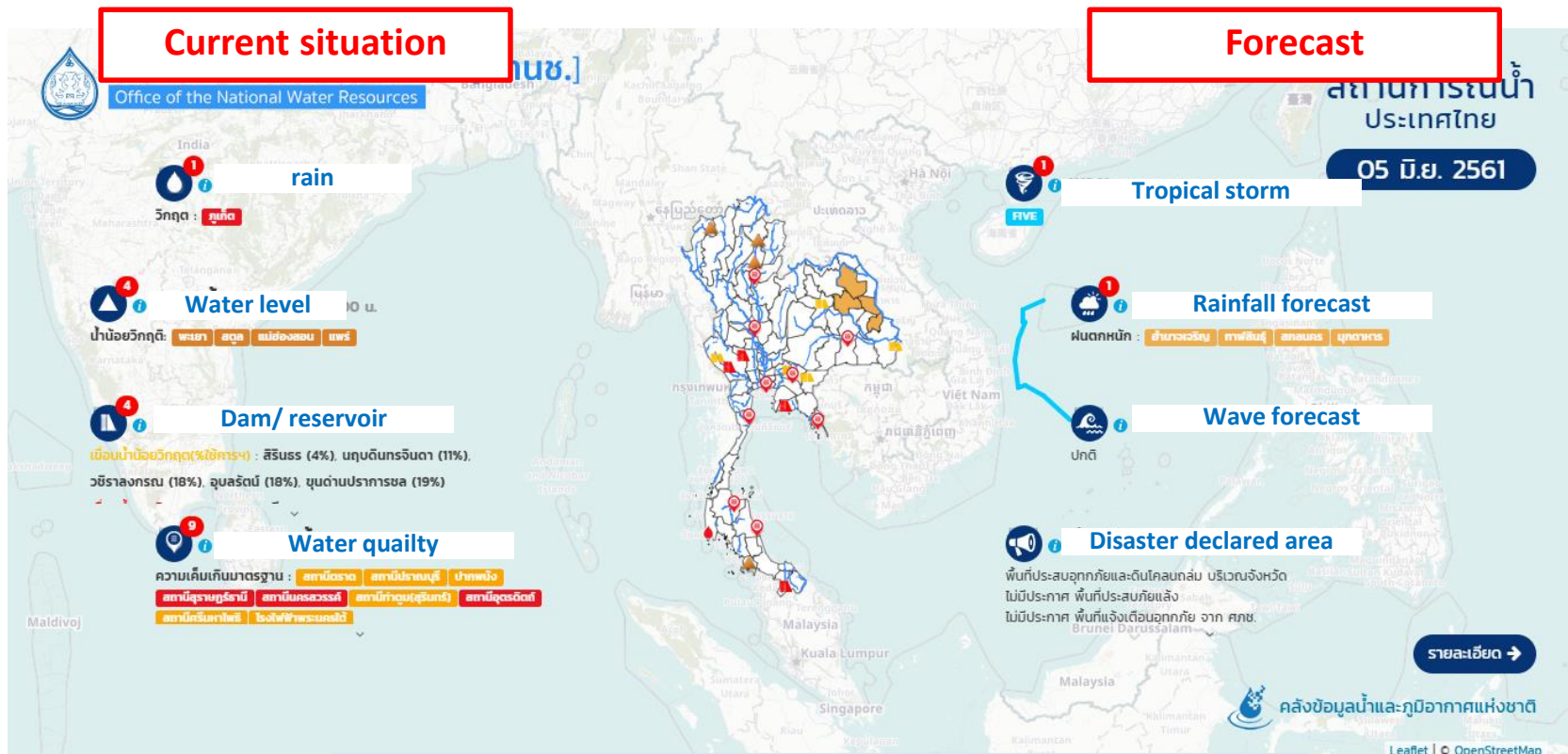


	Area-Based		Problem Area		Developed Area	
	Number of places	million hectare	Number of places	million hectare	Number of places	million hectare
<b>Total Area</b>	<b><u>66</u></b>	<b><u>4.75</u></b>	<b>Flood 28</b> <b>Drought 11</b> <b>Flood and Drought 12</b> <b>Saltwater intrusion 2</b>	<b>1.32</b> <b>0.50</b> <b>0.34</b> <b>0.05</b>	<b>SEZ 10</b> <b>Tourist site 3</b>	<b>1.88</b> <b>0.12</b>
<b>North</b>	<b><u>16</u></b>	<b><u>0.98</u></b>	14	0.67	2	0.31
<b>Central</b>	<b><u>13</u></b>	<b><u>1.13</u></b>	12	0.99	1	0.15
<b>Northeast</b>	<b><u>12</u></b>	<b><u>0.71</u></b>	10	0.50	2	0.20
<b>East</b>	<b><u>11</u></b>	<b><u>1.56</u></b>	6	0.41	5	1.15
<b>South</b>	<b><u>10</u></b>	<b><u>0.35</u></b>	7	0.16	3	0.19
<b>Southern Border</b>	<b><u>4</u></b>	<b><u>0.03</u></b>	4	0.03	-	-

**Note: Consideration of Area Based must enhance public involvement and opinion into account.**

\* Urgent development area such as special economic zones and tourism location.

# Management Tools : Flood and drought



# Awareness raising: National level



4<sup>th</sup> June 2018, Government House of Thailand

Prime Minister pointed out his administration has already endorsed a total of 216 water projects worth 4 billion baht, increasing water supplies by 27 million cubic meters and covering 900,000 rai of farming and residential land, adding that 3,000 more projects are being reviewed by responsible committees



# Awareness raising: International Level



## 31<sup>st</sup> May 2018 , Daejeon, Republic of Korea

Secretary – General of ONWR is a keynote speaker for the 2018 International Drought Forum. Outcome of this event is sharing the practical and insightful knowledges, our experiences, and networks in solving drought related issues. Under the main theme “How to overcome drought problems through international cooperation”



# Thank you

<http://www.onwr.go.th/>



<http://daily-report.onwr.go.th/thaiwater30/>

