



Thailand

Implementing **AWDO** Framework to Mainstreaming Water Security Strategy into National Water Strategy

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> Water Security for all: Asian Water Development Outlook 2020 29 August 2019, Stockholm, SIWI World Water Week



- 1. National water strategy and national water master plan
- 2. Research on water security assessment in Thailand
- 3. Project on monitoring & evaluation of national water master plan
- 4. Linkage of water security index and development indicator

1st level: National strategy 20 years (2018-2037)

life and property.

security.

The country has food, energy, and water resources





financial capital, and so forth.

 logistics, production, trading, and investment.
The country has all of the necessary capital for continuous development including human capital, intellectual capital,
The Sufficiency Economy Philosophy.

3

2nd level: Master plans under national strategy (2018-2037)



Office of the National Economic and Social Development (NESDB)



23 master plans

- 1. Security
- 2. Foreign issue
- 3. Agriculture
- 4. Manufacturing
- 5. Tourism
- 6. City
- 7. Logistic and digital
- 8. Business
- 9. Sufficiency economy
- 10. Culture
- 11. Lifelong learning
- 12. Education
- 13. Mental issue
- 14. Sport
- 15. Social power
- 16. Local business
- 17. Social welfare
- 18. Sustainable development

19. Water management

- 20. Government
- 21. Corruption issue
- 22. Laws
- 23. Innovation

3rd level: Master plan on water resources management 20 years(2018-2037) 2 ADB



Office of the National Water Resources

6 water issues

- 1. Water for domestic
- 2. Water for production
- 3. Flood management
- 4. Water quality
- 5. Upstream conservation: forest
- 6. Water management





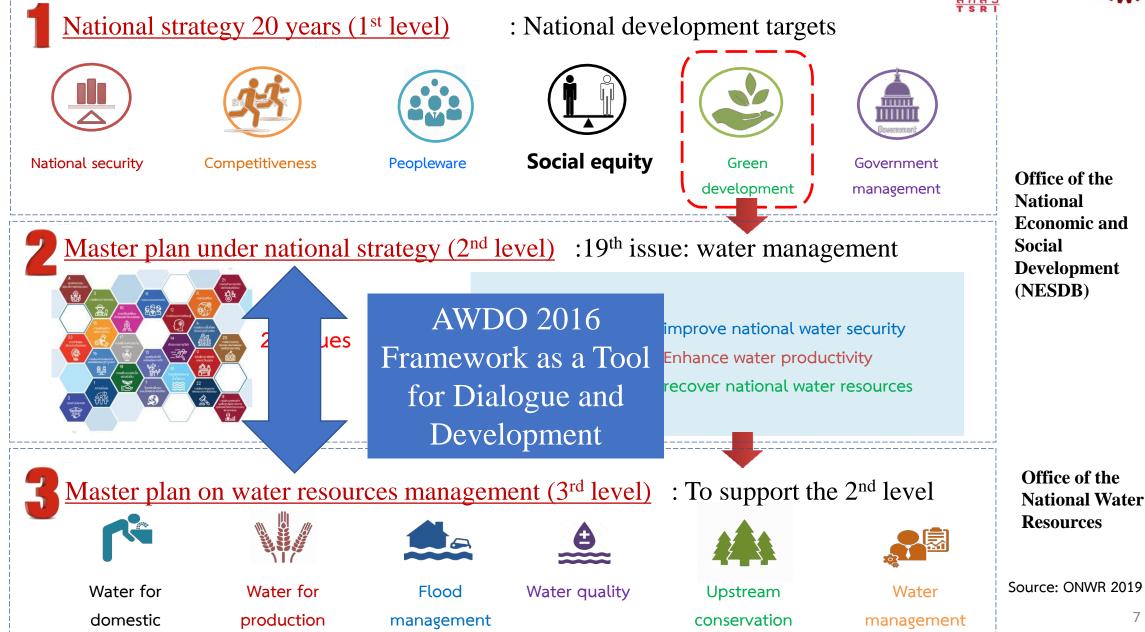
• Dr. Sucharit Koontanakulvong (2013): R&D on water security

index at provincial and basin scales of Thailand

- Dr. Piyatida Ruangrassamee (2018-2019): update R&D on water security assessment at provincial and basin scales of Thailand
- Dr. Pongsak Suttinon (2019): mainstream water security index into national water strategy and master plan (cooperation with Office of National Water Resources) "<u>Project on monitoring &</u> evaluation of national water master plan"

Linkage of Water Security Strategy in Thailand Master Plans





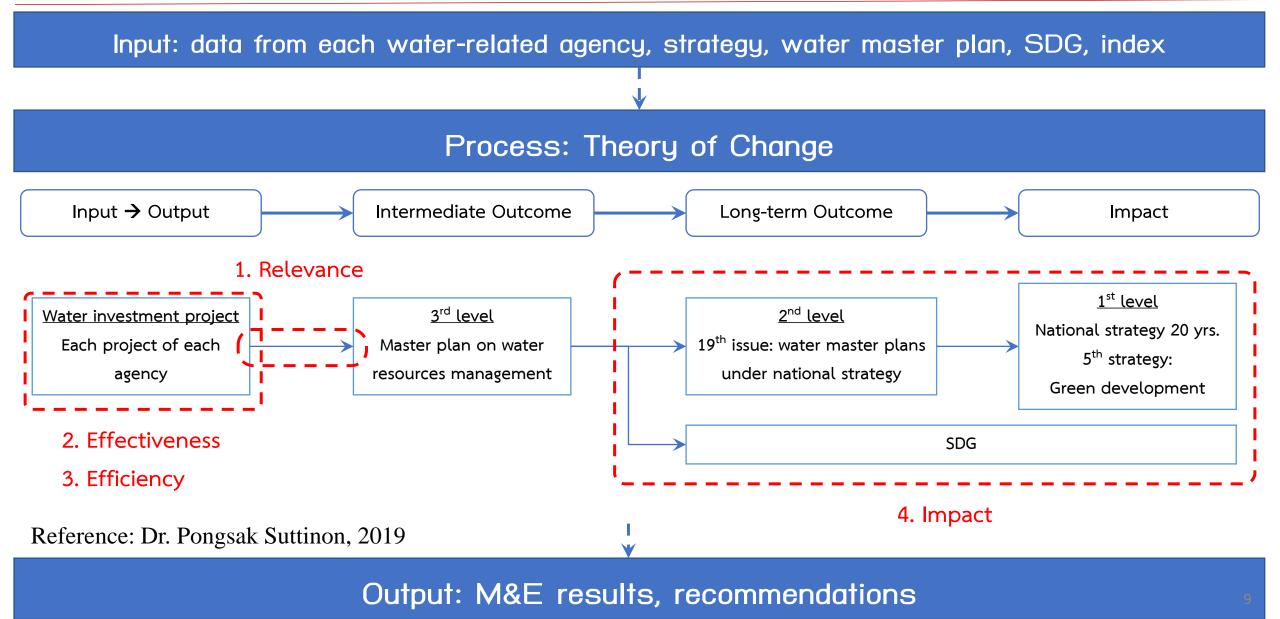
Adapting AWDO 2016 Framework for Provincial Water Security Assessment





Reference: Dr. Piyatida Ruangrassamee, 2019





3rd level : Master plan on water resources management

project, indicator

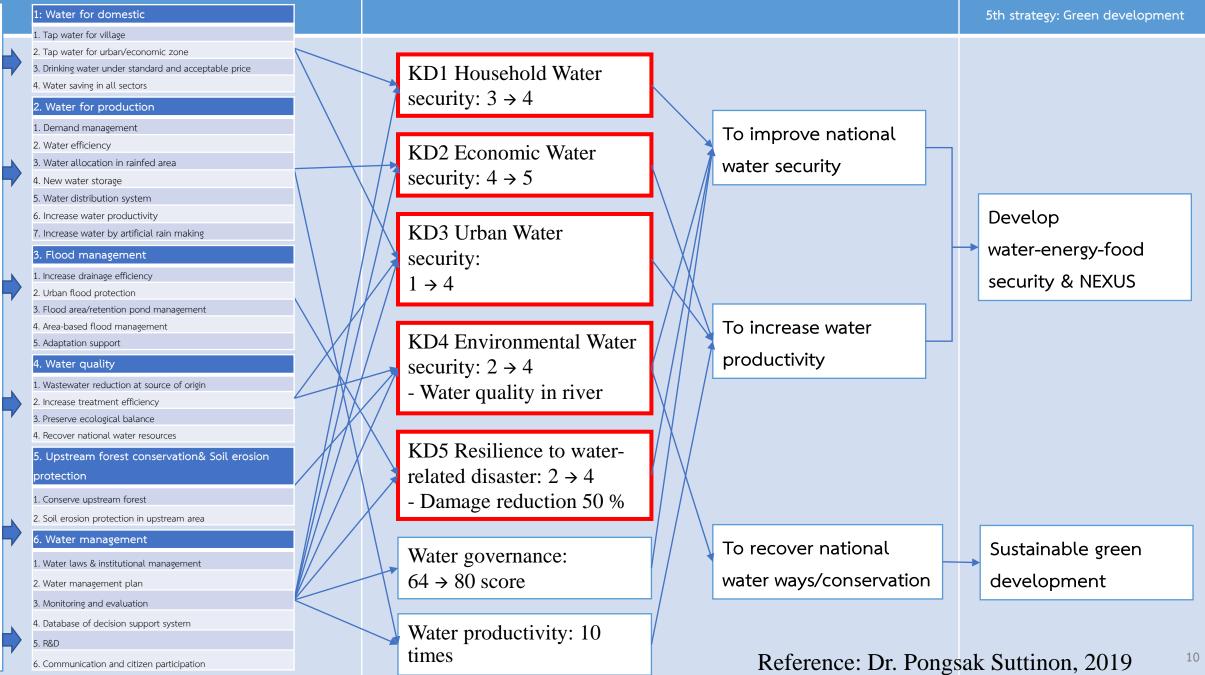
Input,

2nd level

19th issue: water master plans under national strategy

1st level

National strategy 20 yrs.



Acknowledgement & Next Steps





Water Security Workshop in Bangkok on 19 August 2019 ADB, OECD, IWC, Chulalongkorn University, Thai Water Partnership, CRI, and Representatives from Office of the National Water Resources (ONWR) and water-related government agencies Supported by Thailand Science Research and Innovation (TSRI) Policy evaluation by Office of the National Economic and Social Development (AWDO + Water Productivity + Water Governance)

Monitoring & Evaluation of National Water Resources Projects by Office of the National Water Resources

OECD: Water Governance in AWDO 2020

OECD: Water Finance in AWDO 2020

IWC, Australia: Environmental Water Security



- Office of the National Economic and Social Development (NESDB), National Strategy (2018-2037)
- Office of the National Water Resources (ONWR), Master Plan on Water Resources Management (2018-2037)
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- OECD (2015), **OECD Principles on Water Governance**
- Koontanakulvong S. and C. Suthidhummajit (April, 2019), Technical report of water productivity under "Research Project on "Analysis of water security, water productivity and water-related disaster for water resources master plan", supported by Thailand Science Research and Innovation (TSRI)
- Ruangrassamee et al. (2019), Research Project on "Analysis of water security, water productivity and water-related disaster for water resources master plan", supported by Thailand Science Research and Innovation (TSRI)
- Suttinon P. (2019), Inception report on monitoring & evaluation of national water master plan, supported by Office of the National Water Resources