



5th General Meeting
Network of Asian River Basin Organizations

Chiang Mai, Thailand • 15–18 May 2013

Water Security

- from the case of JAPAN -

16 May 2013

Kenji SOMEYA

Japan Water Agency



What is happening in Asia?



Too Little Water



Too Much Water



Too Dirty Water

Increasing water demand , risk of flood disaster, and risk of worse water quality

- ◆ Population growth, Urbanization, Economic development
- ◆ Recent extreme hydrological events

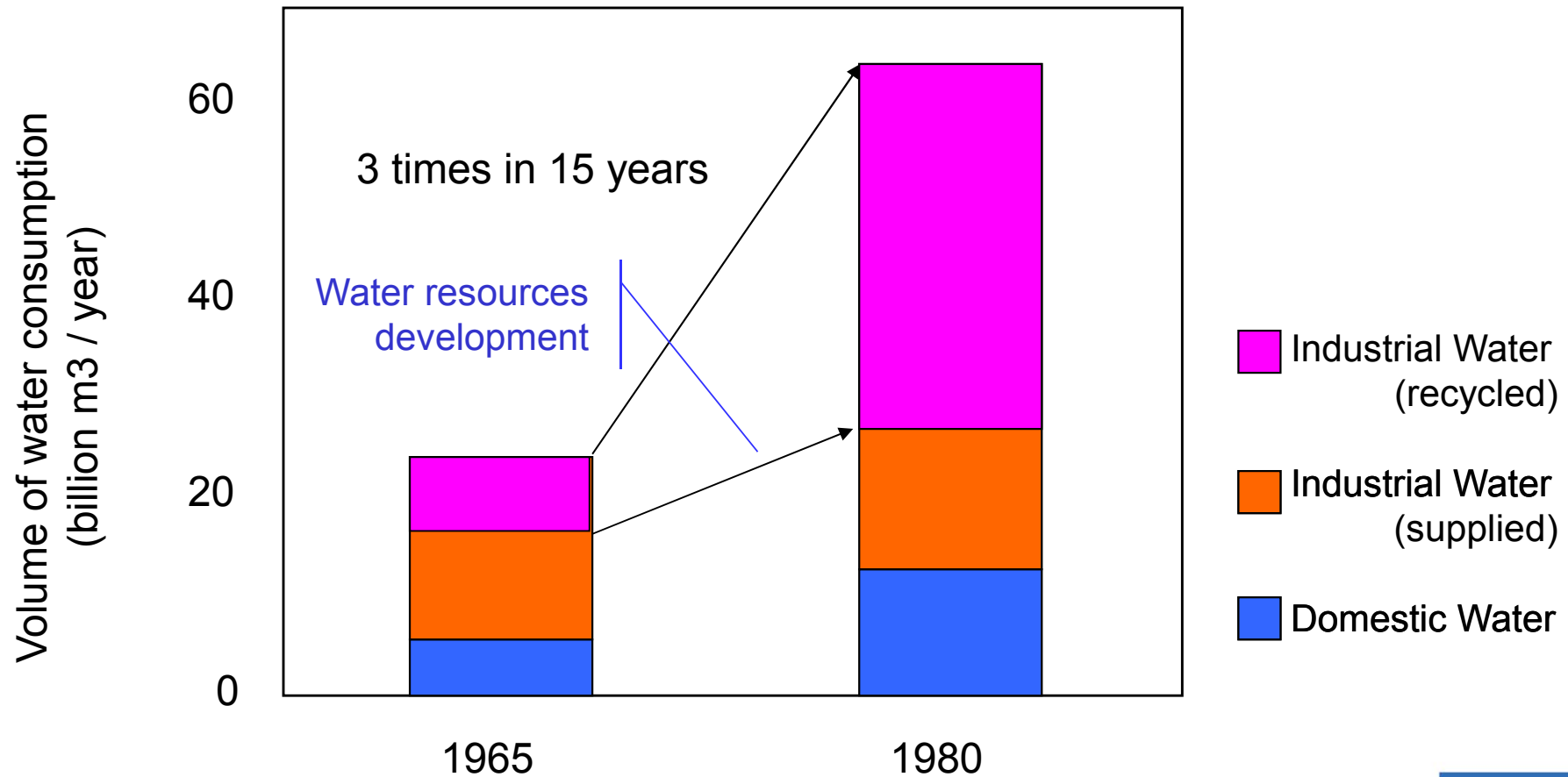
Lack of proper facilities, legislation and governance to stop negative spiral

- ◆ Bad water quality leads water shortage and excessive groundwater use
- ◆ Excessive groundwater use can increase flood disaster risk through subsidence
- ◆ To reduce groundwater use, need alternative water resources and scheme for proper water allocation

To tackle these issues, need IWRM approach with view point of River Basin

What is happening in Asia?

Effort Carried out for Urban Water Supply



Comparison of volume of urban water consumption

Secondary Effect of Water Recycling System

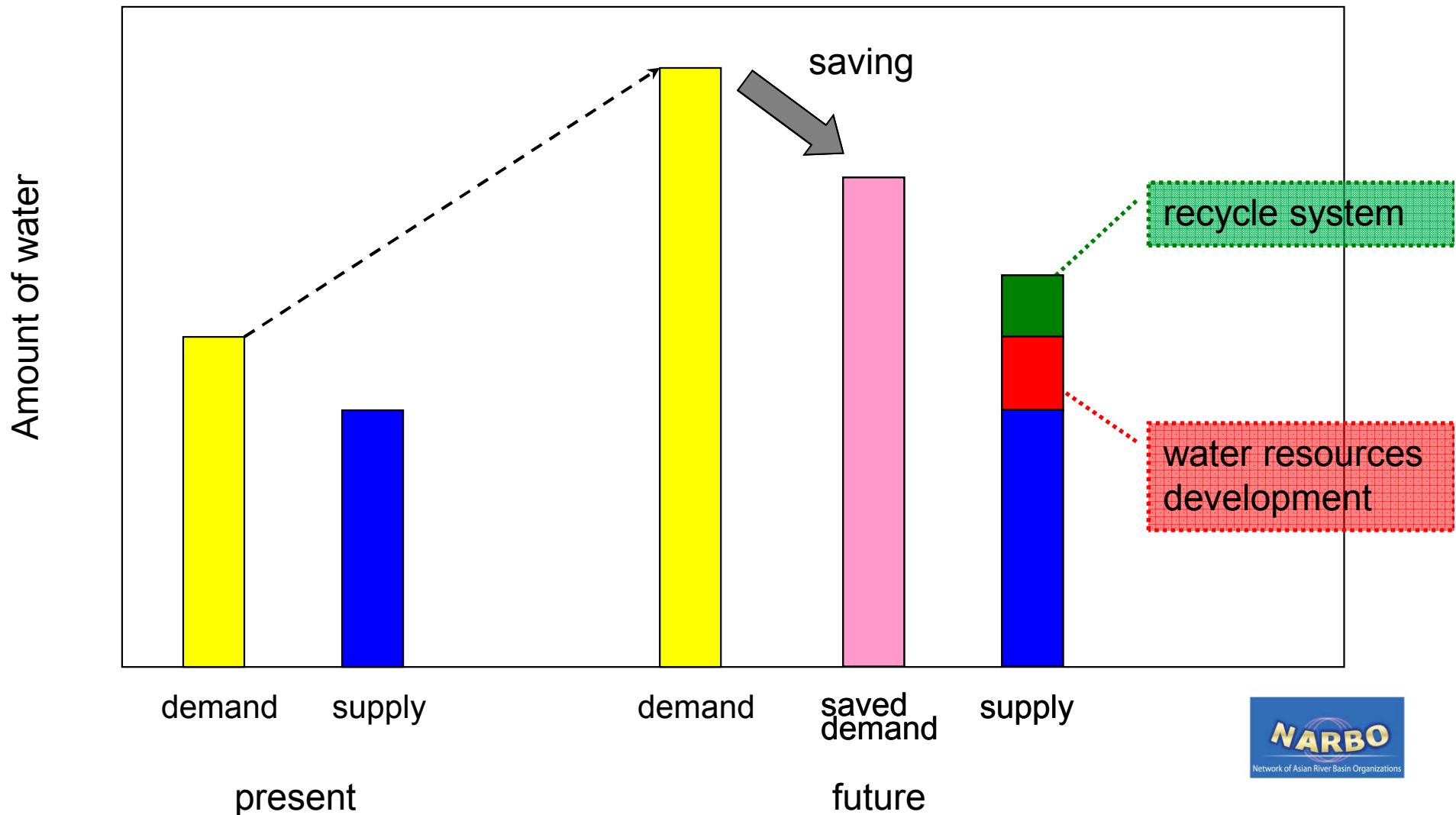


Sumida River (1960)



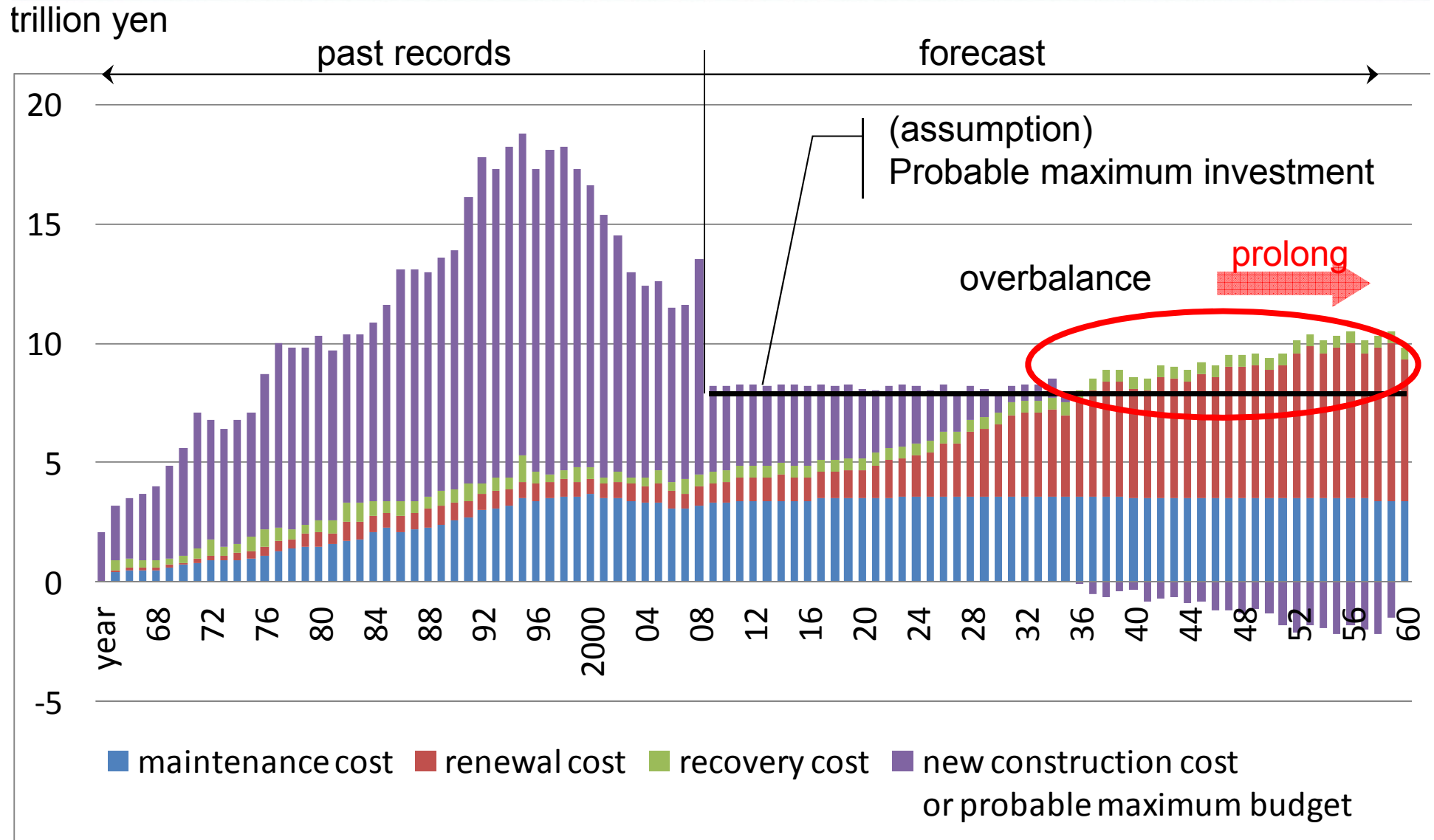
Sumida River (now)

How to Catch up Increasing Water Demand - Image -



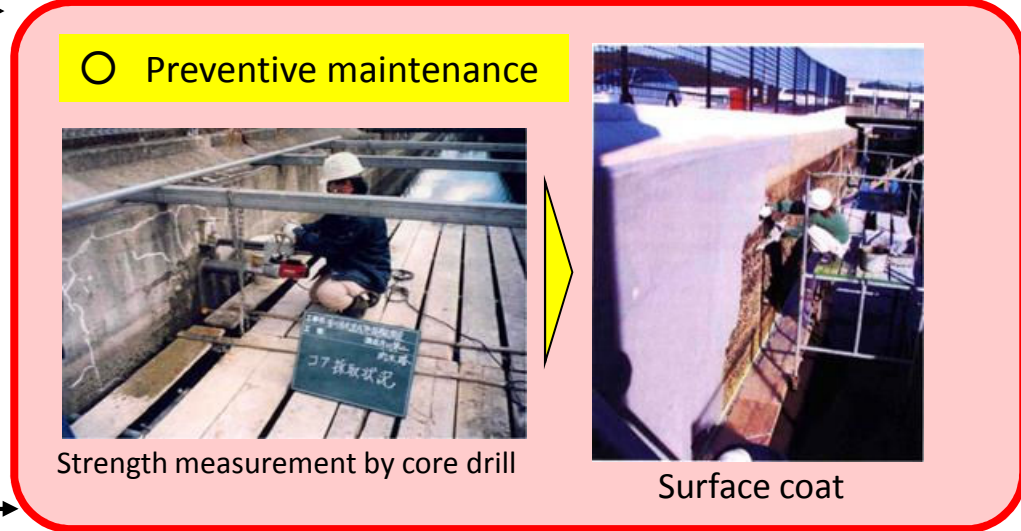
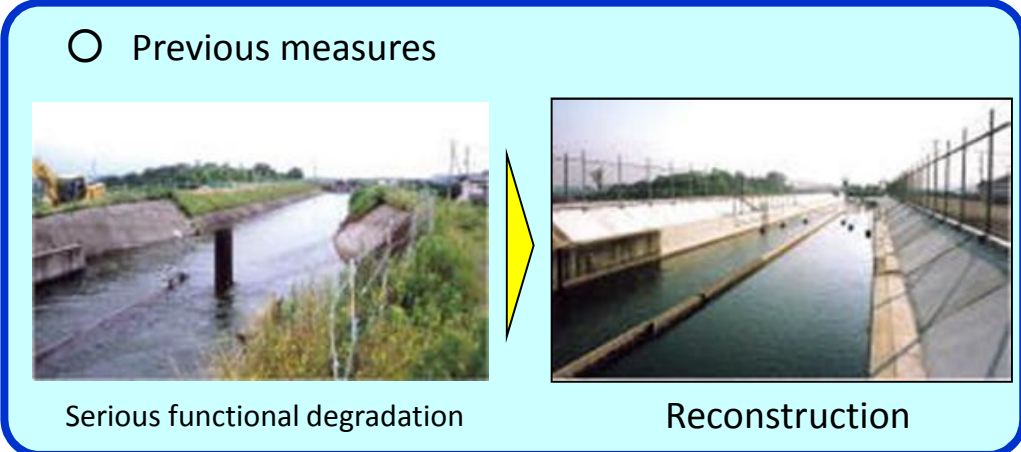
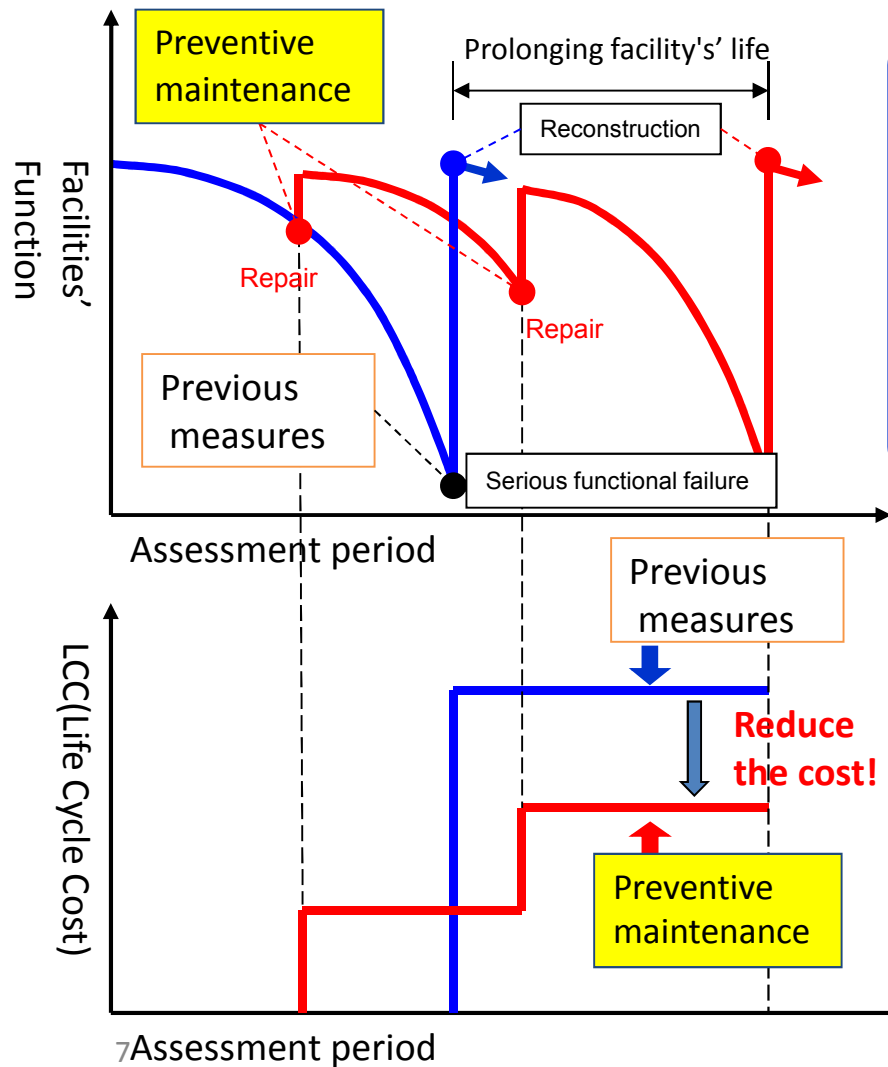
What is happening in Asia?

Current Issue in Japan



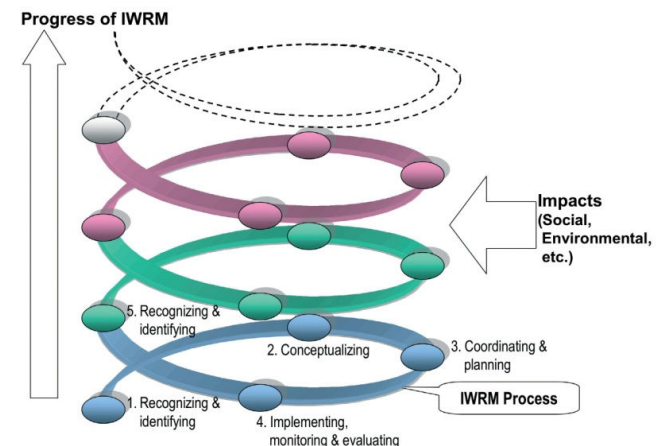
Reduction in Life Cycle Cost by Preventive Maintenance

Effective use of existing facilities, long-life use through preventive maintenance



Conclusion

- Asia should go out of negative IWRM spiral, that has been happening in some river basins in Asia.
- Topics regarding Water Security differ from Country or Region, and change as time flows.
- To avoid or go out of negative spiral, issues must be identified and recognized carefully and surely.
- Preceding cases on both success cases and failure cases are helpful for conceptualizing and coordinating to avoid big detour.





Thank you for
your attention!