

# Impacts & Strategies

## Group 3

### (Indonesia)

by

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# List Of Identified Impacts

1. More flood events
2. Landslides
3. Land erosion
4. Sedimentation of reservoirs & rivers
5. Prolonged droughts
6. Water crisis



## List Of Identified Impacts (cont.)

7. Water user conflicts
8. Change in cropping patterns
9. Change in dam operation
10. Decrease in crop productivity (cash crops)
11. Decreasing of water availability
12. Sea level rise



## List Of Identified Impacts (cont.)

13. Damage of coastal defense infrastructures
14. Damage to public infrastructures & facilities
15. Forest fires
16. Change in hydrological cycle
17. Rise in temperature
18. Lower income from agriculture sector due to lower productivity



## List Of Identified Impacts (cont.)

19. Access for safe drinking water & sanitation due to water shortage
20. More incidents of flash floods due to intense rainfall
21. Decreasing of groundwater levels
22. Deterioration of water quality due to the change of rainfall pattern affecting the flushing of rivers and drainage systems
23. Increase in dengue and malaria cases especially in Java



# Adaptation Strategies

1. Stakeholders participation and involvement in flood management, reforestation, waste water management, garbage management by reduce, reuse & recycle.
2. Strengthening of hydrological data management (equipment, capacity building of officers) to be shared among related agencies.
3. Awareness of climate change to decision makers & public (media campaigns, education curriculum, dialogues, community based programmes)



# Adaptation Strategies

4. Review the functionality of existing infrastructures such as reservoirs, dams, bridges and other related structures .
5. Water conservation programmes & implementation (on going but requires better coordination among agencies and in an integrated manner)
6. Capacity building for RBO's and related agencies (institutional, river basin management)



# Adaptation Strategies

7. Support reforestation strategy in critical river basin
8. Law and enforcement to control land encroachment
9. Implementation of disaster risk management programmes
10. Improve yield capacity of river basin to support water preservation



# Adaptation Strategies

11. Weather modification
12. Review of water right policy
13. Develop new irrigation technologies to support agriculture intensification (develop field water management and crop diversification)
14. Build, manage & rehabilitate irrigation networks
15. Conservation of mangrove areas as natural protection to coastal areas



# Adaptation Strategies

- 16. Construction of sea dykes at selected areas
- 17. Reduce CFC emissions
- 18. Kampung improvement for water and sanitation
- 19. Flood forecasting & early warning system
- 20. Increase infiltration wells to recharge groundwater



# Adaptation Strategies

**21.** Rainwater harvesting

**22.** Inter basin transfer

**23.** Polluter pays policy

**Thank You**