

Disaster Risk Reduction (DRR)

Risk Management Team

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ICHARM



United Nations
Educational, Scientific and
Cultural Organization



International Centre for Water
Hazard and Risk Management
under the auspices of UNESCO

- ユネスコ後援 水災害・リスク
• マネジメント国際センター

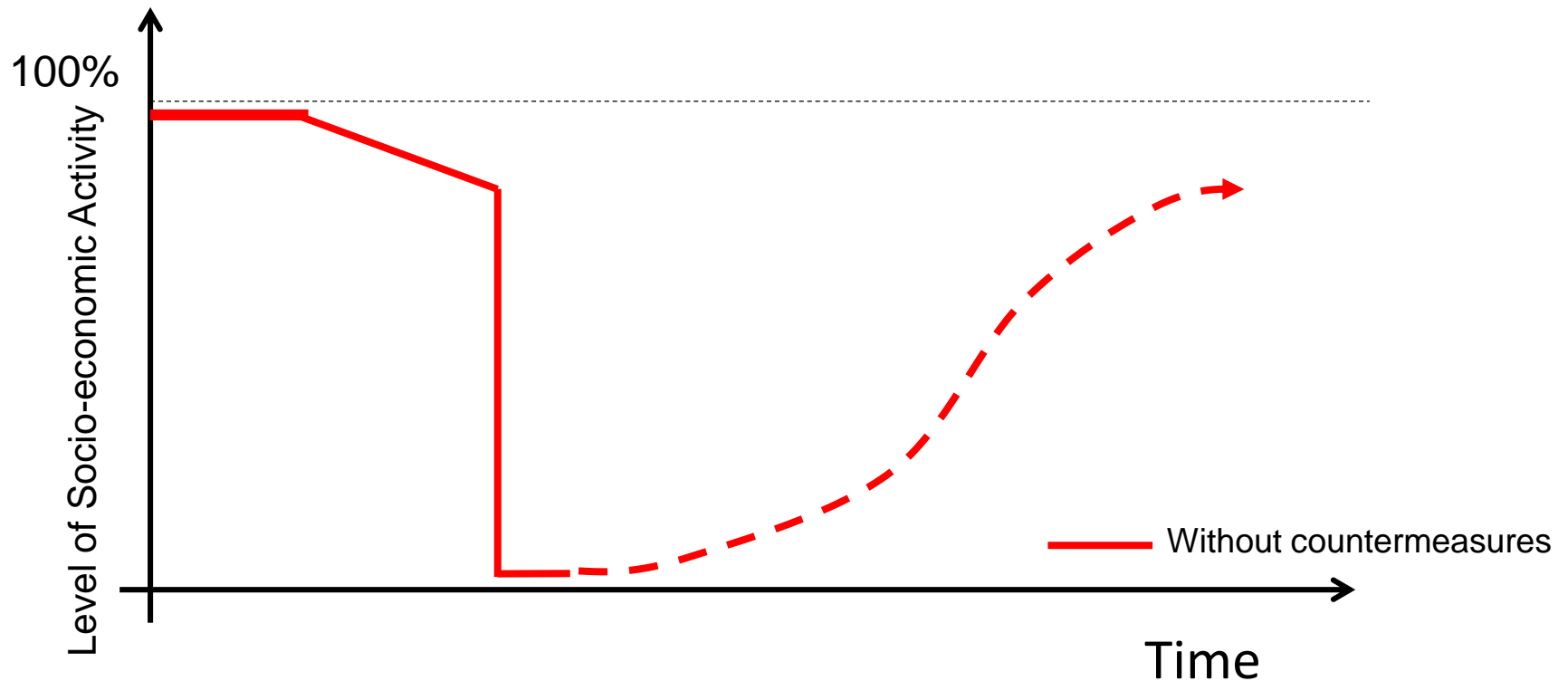


Public Works Research Institute,
National Research and Development
Agency, Japan

国立研究開発法人
土木研究所

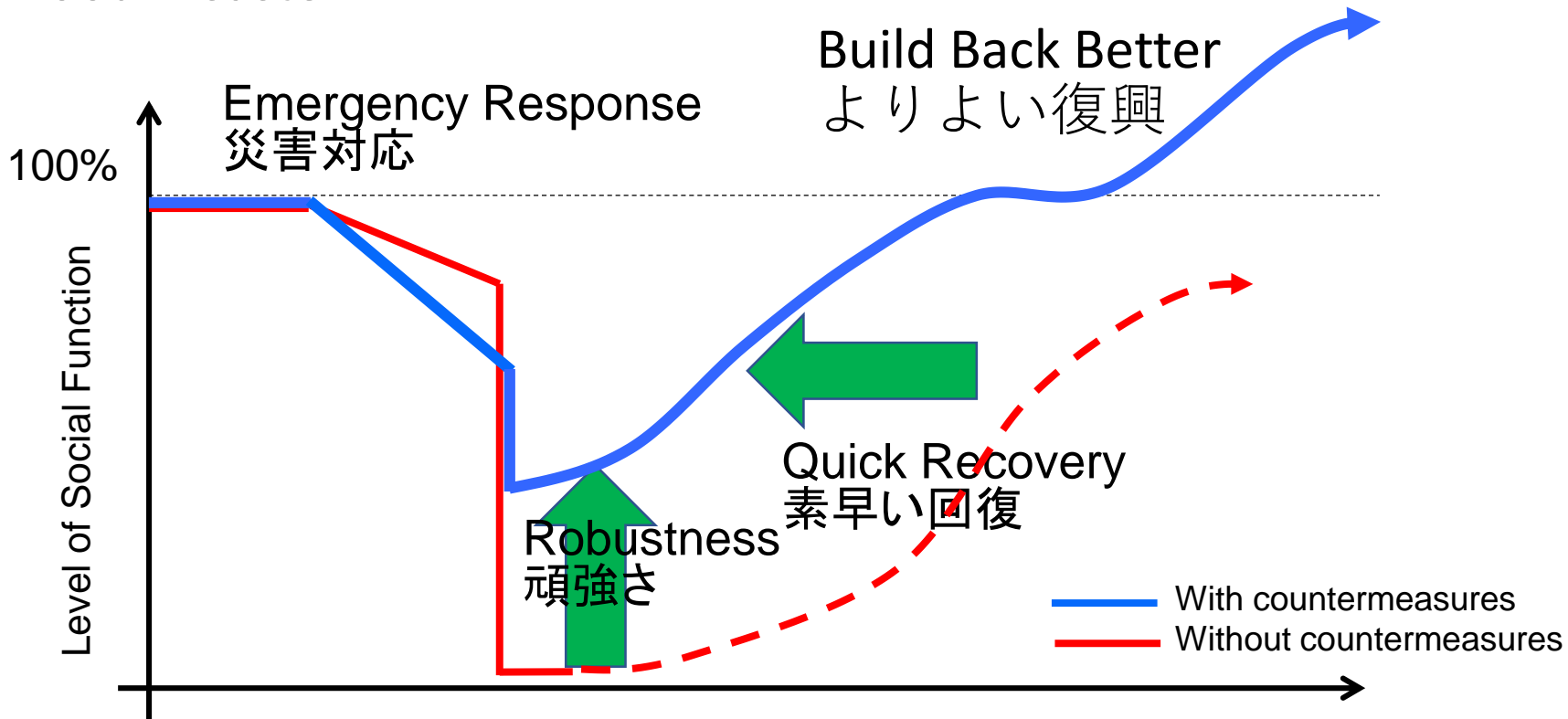
Disaster Resilience with/without countermeasures

Flood Disaster



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Flood Disaster



① Disaster Impact Analysis
(災害影響分析)

② Disaster Risk Assessment
(災害リスク評価)

③ Contingency Planning
(災害対応計画)

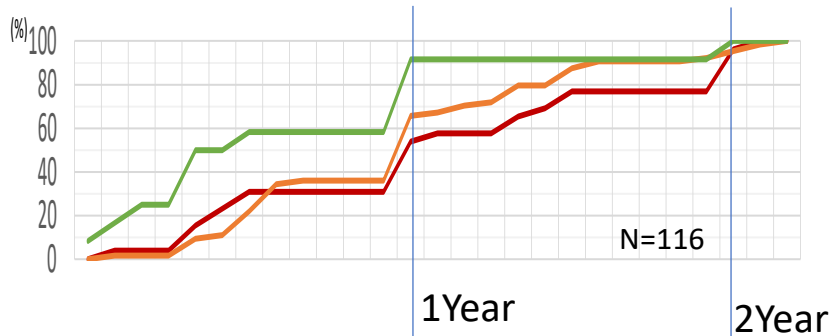
④ Risk Communication
(リスクコミュニケーション)

Disaster Impact Analysis and Risk Assessment

1. Disaster Impact Analysis (災害影響分析)

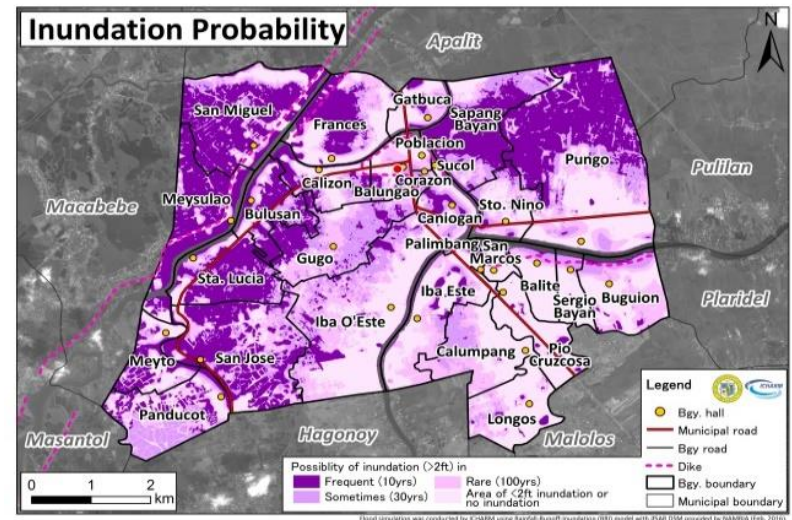
-Interview/Questionnaire Survey to understand disaster impact

<Percentage of livelihood restoration in some inundated municipality in Japan>



2. Disaster Risk Assessment (災害リスク評価)

-Risk Assessment based on flood simulation

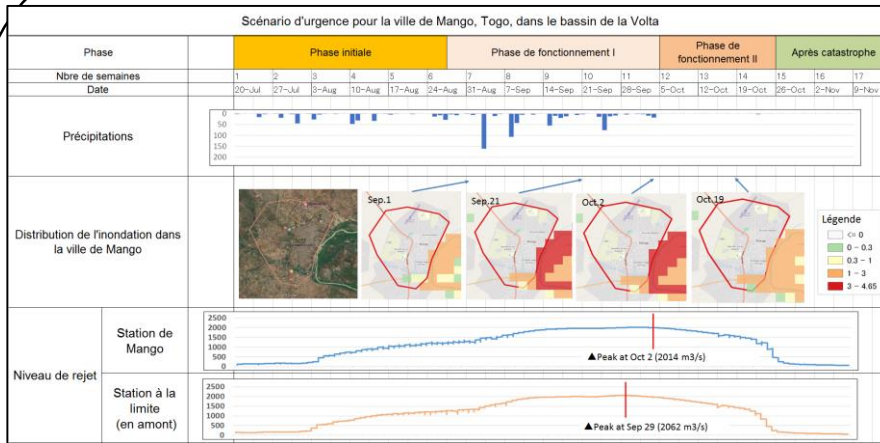


Sharing results with local municipality officers



Contribution to Disaster Risk Reduction (DRR)

3. Contingency Planning (災害対応計画)



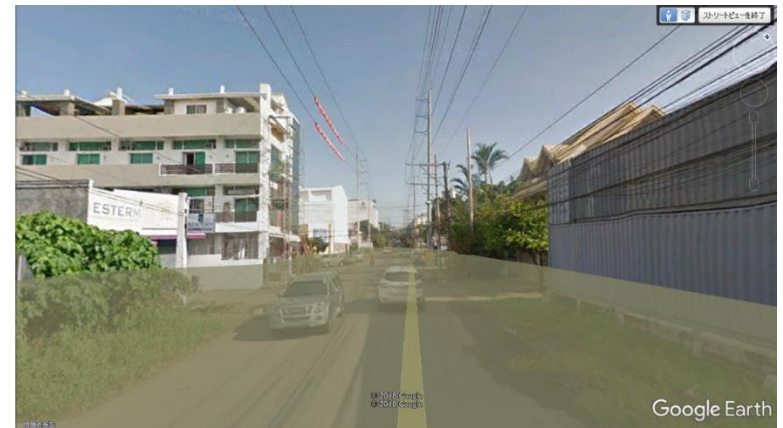
Development of emergency response timeline



Capacity development for related governmental officers

4. Risk Communication (リスクコミュニケーション)

-Visualization of inundation



Visualization by Google Earth Street View



Visualization by Virtual Reality (VR)

International Research Project for Implementation of Technology

The Project for Development of Hybrid Water-Related Disaster Risk Assessment Technology for Sustainable Local Economic Development Policy in the Philippines

フィリピン共和国における気候変動下での持続的な地域経済発展への政策立案のためのハイブリッド型水災害リスク評価の活用



5 year Project (2021-2026) funded by JICA and JST (Japan Science and Technology Agency)

