

気候変動下における治水・水利用・水環境保全のための能力強化

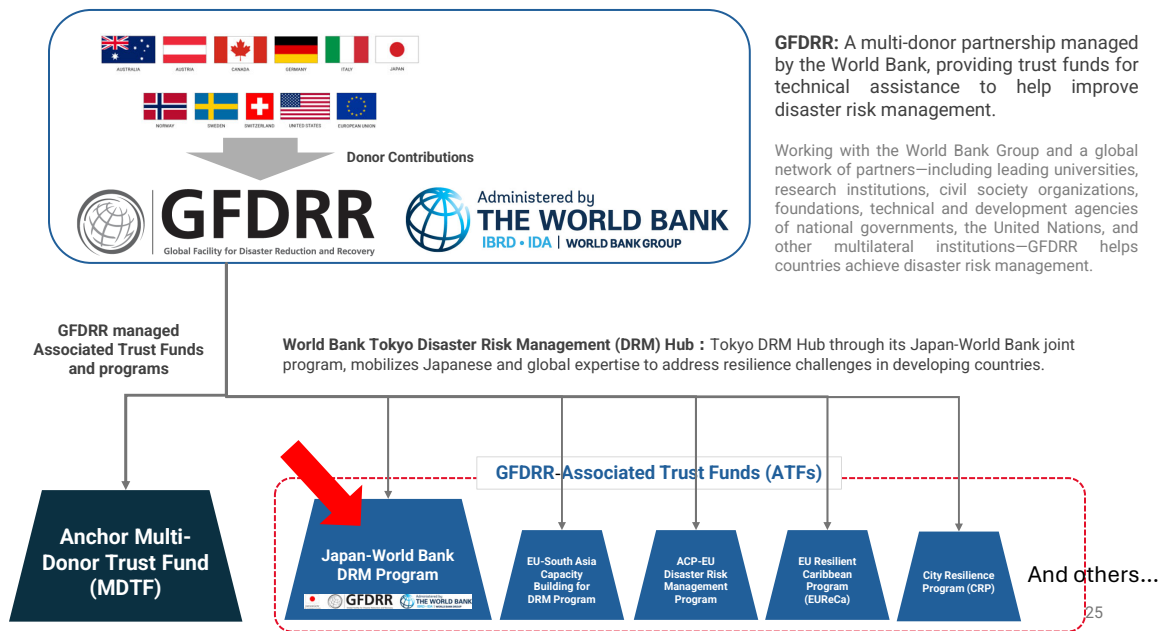
Sr. Disaster Risk Management Specialist, Tokyo DRM Hub, GFDRR, The World Bank Group



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World Bank's Global Facility for Disaster Reduction and Recovery (GFDRR)



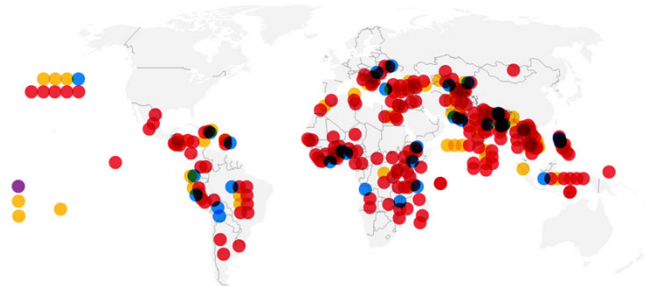
The Japan–World Bank joint Program for Mainstreaming DRM in Developing Countries



- The Program was established in 2014 with support from **the Government of Japan** in the wake of the 2011 Great East Japan Earthquake and Tsunami, to further mainstream DRM and share Japan's DRM knowledge, experience, and technology with developing countries through World Bank projects.
- It provides World Bank project teams with **technical assistance—drawing primarily on Japan's expertise**—and grants, spanning hard infrastructure (e.g., resilient schools, roads, and power distribution) and soft policy reforms such as integrating DRM into policies.
- Implemented by the **Tokyo DRM Hub** in collaboration with GFDRR

Support by Country and Region

Countries that the Program has supported through 280+ technical assistance projects across 110+ countries, with total funding of over **US\$165 million** (as of September 2025).



Project Types

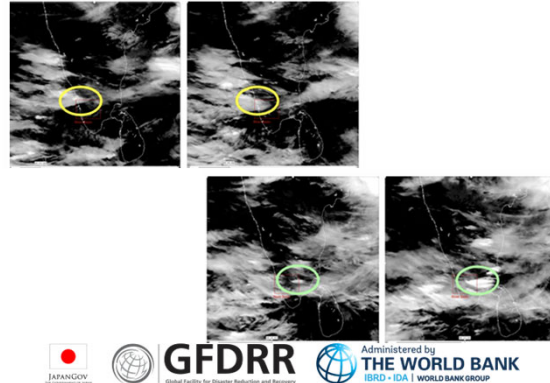
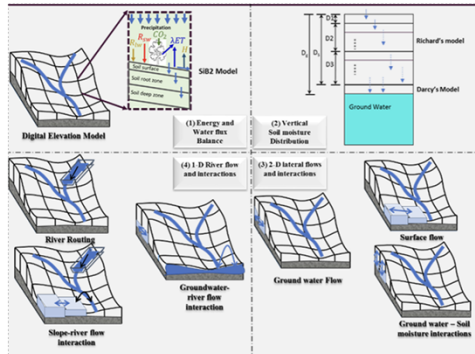
■ Phase 1 ■ Phase 2 ■ Phase 2 & 3 ■ Phase 3

Data Source: the World Bank Group

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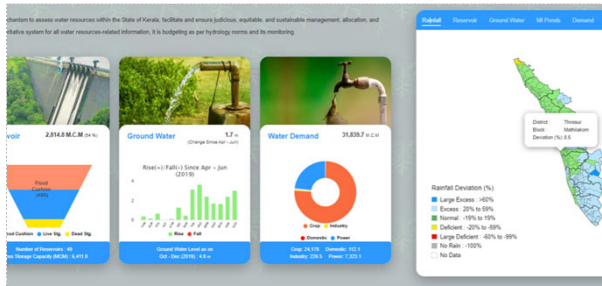
(インド) ケララ洪水管理：技術的成果

- ✓ 衛星降雨＋バイアス補正
- ✓ 高解像度WRF (1.6km)
- ✓ WEB-RRRによる氾濫解析
- ✓ 事前放流シミュレーション
- ✓ 統合流域管理 (IRBM) へのロードマップ

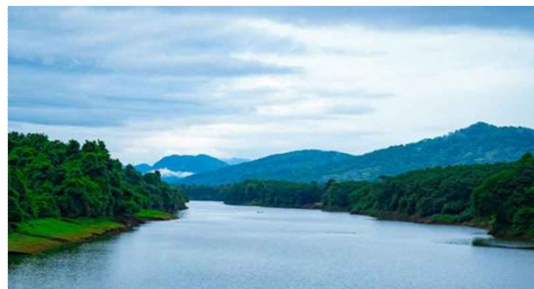


(インド) ケララ統合流域管理(IRBM): 制度的成果

- Japan's river basin management model applied and customized to Kerala
 - Data-sharing and institutional coordination emphasized
 - Kerala launched IRBM Phase II with high-level steering committee
 - Foundation for long-term resilience planning
- 日本の流域管理モデルをケララに適用
 - データ共有と制度連携の重要性を確認
 - ケララ州がIRBM Phase IIを正式開始（高位委員会設置）
 - 長期的レジリエンス計画の基盤を形成



Source: Kerala Water Resources Information System HP



Integrated Reservoir Operations in Krishna Basin

(インド) クリシュナ川流域の統合ダム運用

- Cascade dams operated independently caused recurring flood risk
- Introduced Integrated reservoir operation model (Karnataka → Andhra Pradesh)
- Developed Dam Command Center TOR/SOP
- Preflood Drawdown Manual

- ✓ カスケードダムの個別運用により洪水リスクが増大
- ✓ 統合運用モデルの導入（カルナータカ州→アーンドラ・プラデーシュ州）
- ✓ ダム指令センター 業務範囲記述書/標準作業手順書
- ✓ 事前放流マニュアル



South Sudan Flood Modeling and Capacity Building

南スーダンの洪水モデルと能力強化

- ✓ South Sudan Flood model developed using Japanese experience
- ✓ Study tour to Japan: floodplain mapping, early warning, CBDRM
- ✓ Knowledge embedded in Ministry's national workplan
- ✓ Strengthening early warning and resilience for vulnerable communities

- ✓ ICHARMが日本のデータを活用し洪水モデルを開発
- ✓ 日本での研修：氾濫原マッピング、早期警報、コミュニティ防災
- ✓ 学びが南スーダン政府の公式ワークプランに反映
- ✓ 脆弱コミュニティの早期警報・レジリエンス強化に貢献



Advancing capacity development for flood control, water use, and water environment conservation under climate change - Thanks to ICHARM's exceptional leadership.

Thank You!



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