

4.4. Updates on the work of SERCOM Advisory Group on Socioeconomic Benefits (AG-SEB)

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CDP focal point in AG-SEB

13th Meeting of Capacity Development Panel

(EC-CDP-13)

23 and 24 September 2026



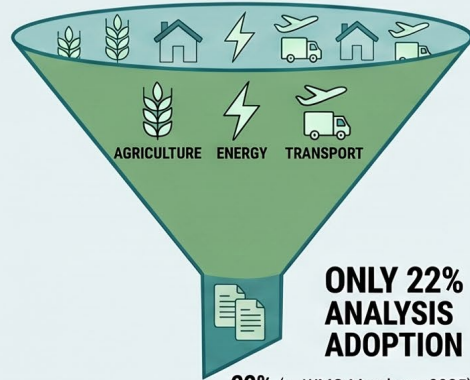
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Content

- Introduction to SEB assessments
- Work of AG-SEB (white paper & SEB Toolbox)
- Feedback request to CDP members for SEB toolbox
- SERCOM side-event on SEB

SEB at a glance: closing the evidence gap for hydromet services

Expanding Mandates, Static Evidence



NMHSs serve broad sectors, yet the evidence base has not kept pace.

A significant “drop-off” exists between sectors served and those with documented socioeconomic proof.



The Power of Partnerships & Impact

PARTNERSHIPS DRIVE COMPLETION

Members who collaborate with external researchers are significantly more likely to complete SEB studies (n=Survey, 2024)



1:15 RETURN ON INVESTMENT



Every dollar invested in early warnings and climate intelligence saves up to **fifteen** dollars (n=Global Estimate, 2024)

The Triple Dividend of Resilience



AVOIDED LOSSES
Protecting lives, assets, and infrastructure.



UNLOCKED ECONOMIC POTENTIAL
Optimizing production and efficiency.



SOCIAL/ ENVIRONMENTAL CO-BENEFITS
Improving health, well-being, and ecosystem sustainability.

Value is measured through these three dividends (n=Framework, 2024)

Illustrative Economic Benefits (Data Examples)



AGRICULTURE

64% increase in Sorghum yields (Mauritania)
Tarchiani et al. (n=Regional Study, 2021)



ENERGY

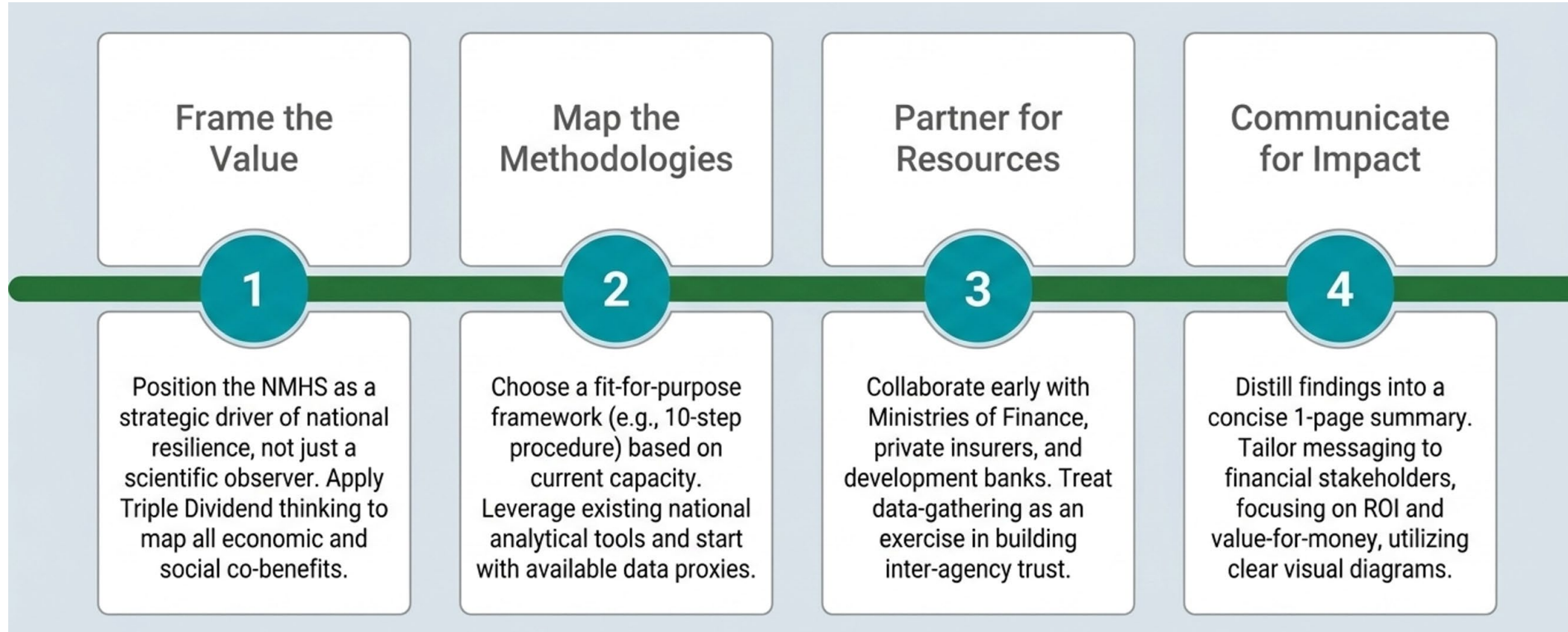
\$384M gain in household income via wind forecasts (USA)
Jeon et al. (n=National Study, 2022)



TRANSPORTATION

\$9.4B in annual global fuel savings for aviation
Kull et al. (n=Global Analysis, 2023)

Strategic recommendations for WMO Members



*Outcomes from the **White Paper “Socioeconomic Benefits of Weather, Climate, Hydrological, Marine and related Environmental Services: The Role of WMO”** in process of approval*

SEB Toolbox



Consider integration of the Toolbox online platform into existent online monitoring platforms for different users etc. (as part of WMO Monitoring and Evaluation unit).

SEB Toolbox

 ArcGIS StoryMaps

[Starter Kit](#) [Methods and Examples](#) [Communications](#) [Capacity Development](#)



Starter Kit

Guidance on how to start your socioeconomic benefit (SEB) report.



Methods and Examples

Existing frameworks, models and case study examples by region and sector.



Communications

Best practice approaches and tick-box template for key considerations.



Capacity Development

Contact form for WMO Members to provide feedback to shape future trainings.

SEB Toolbox: Feedback request from the CDP

- How can CDP add value to the SEB toolbox ongoing process? Do you have any recommendations on what topics we may add in the Capacity Development section?
- What do you think are the Members' needs related to SEB assessments?

FUTURE CONSIDERATION

Development of an SEB-dedicated AI chatbot, integrated into the SEB Toolbox, that allows users to input their available resources and receive tailored recommendations on suitable approaches.

*Proposal from Green
Climate Fund (GCF)*



SERCOM Side-Event: relevant information for CDP Members

Event Title: *Demonstrating together the value of our weather, climate and water services*

When? Monday, 19th of Octobre 2026, 17:00-18:00 (Geneva Time)

Hybrid Format: In-person (only for those Members' delegates attending SERCOM session) and **online (open for attending in your role as CDP Members)**

Thank You



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