







of the Federal Republic of Germany

# Ecosystem-based Adaptation for Coastal Regions Worldwide (TROPICAL ADAPT)



**Scoping Workshop** 



20. February 2025





## **Agenda**



|               | Scoping Workshop   |
|---------------|--|
|               | 20.02.2025   13:00 – 18:00 CET   Online  |
| Time          |  |
| 13:00 - 13:30 | Welcome and Introduction   |
|               | Grit Martinez (Ecologic Institute) Anke Wolff (Federal Ministry for the Environment and Consumer Protection (BMUV) Simone Wulf (Federal Agency for Nature Conservation (BfN), Germany) |
|               | Introduction of the participants  Moderation: Grit Martinez (Ecologic Institute)   |
| 13:30 – 13:45 | Presentation of the TropicalAdapt project Nico Stelljes & Gregory Fuchs (Ecologic Institute)   |
| 13:45 – 14:45 | Impulse Presentations  |
|               | "ICRI - A Global Partnership #ForCoral" Margaux Monfared (International Coral Reef Initiative).  |
|               | "Restauration of Coral Reefs – Insights from a practitioner" Andrew Ross (Seascape Caribbean)  |
|               | "Community-based EbA – Opportunities and Challenges in Mangrove Restoration Projects"  Rolf-Dieter Sprung (WWF)  |
|               | Moderation: Grit Martinez (Ecologic Institute)   |
| 14:45 – 15:00 | Break  |
| 15:00 – 16:25 | Group Work Session (Break-Out Groups)  |
|               | <ul> <li>Stakeholder Engagement &amp; Governance &amp; Communication</li> <li>Monitoring and Effectiveness of EbA</li> <li>Financing / Private Sector</li> </ul>                       |
|               | Moderation: Gregory Fuchs / Nico Stelljes / Grit Martinez (Ecologic Institute)   |
| 16:25 – 16:45 | Break  |
| 16:45 – 17:45 | Discussion of the results and prioritising the outcomes (discussion in the entire group)   |
|               | Identifying key questions for the following workshops  |
|               | Moderation: Nico Stelljes (Ecologic Institute)   |
| 17:45 – 18:00 | Goodbye and Concluding Remarks / Next Steps  |
|               | Moderation: Grit Martinez (Ecologic Institute)   |

### **TropicalAdapt**

eco logic

On behalf of:



Federal Ministry for the Environment, Nature Conservation, Nuclear Safety and Consumer Protection

of the Federal Republic of Germany

#### **Anke Wolff**

(Division T III 2A "European and International Adaptation to Climate Change")



# Federal Agency for Nature Conservation

**Simone Wulf** 

(Division I 2.4 – International Nature Conservation)



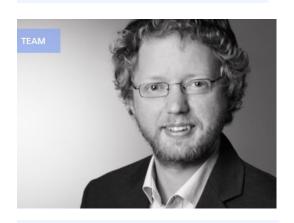
Dr. Grit Martinez

Doctor of Philosophy

MBA (Master of Business Administration)

Teaching Diploma (German Language, Literature and

History) Senior Fellow



Nico Stelljes

Doctor of Natural Sciences Environmental Scientist (Diplom-Umweltwissenschaftler)

Coordinator Coastal and Marine Studies Fellow



Gregory Fuchs

MSc (Marine Environmental Management)

Co-Coordinator Coastal and Marine Researcher



Evgeniya Elkina

MSc (Environment and Resource Management)

Researcher

**Ecosystem-based Adaptation for Coastal** Regions Worldwide -**TropicalAdapt -**Introduction of the project

### **Project goals**

# Promoting ecosystem-based adaptation (EbA) in tropical and subtropical coastal regions by:

- Strengthening the technical information base
- Promoting the international exchange of experience
- Developing and communicating policy- and implementationorientated recommendations for action to decision-makers

### **Implementation**

- > Literature research & screening of relevant actors, processes and projects
- Exchange and networking workshops with actors from science, politics, practice and international EbA networks on selected key topics
- > EbA case studies from various tropical and subtropical coastal regions
- Identification of potentials and challenges
- Development of concrete recommendations for action
- Policy brief series & final publication
- Launch event (e.g. as a side event at the 2026 CBD or UNFCCC conference)

# Target Audience of the project

- Policymakers responsible for coastal and climate adaptation policies.
- Coastal Managers & Practitioners Experts working in coastal protection and restoration projects.
- Scientists & Researchers Academics studying climate adaptation, ecosystem-based solutions, and biodiversity.
- Non-Governmental Organizations (NGOs) Groups involved in environmental protection and community resilience.
- Private Sector Stakeholders Businesses involved in sustainable coastal development and infrastructure.
- Local Stakeholder (representatives) stakeholder implementing coastal EbA initiatives.
- Local Authorities Regional and municipal decision-makers in tropical and subtropical areas.

### **Project Timeline**

Today: Scoping Workshop (Feb. 2025)

Hybrid Workshop: 2nd half of 2025 (3 days, lunch to lunch event)

- 1. Virtual Workshop: End 2025/Early 2026 (2 half-days Workshop)
- 2. Virtual Workshop: Spring 2026 (2 half-days Workshop)
- each WS is followed by a Policy Brief (summarizing main results of WS)

Launch Event: End 2026 (side event) to present final results

| TropicalAdapt |     | 2024 |     |     |     |     | 2025 |      |     |     |     |     |     |      |     |     |     | 2026 |      |      |     |     |     |     |     |      |     |     | 2027 |     |      |      |     |     |
|---------------|-----|------|-----|-----|-----|-----|------|------|-----|-----|-----|-----|-----|------|-----|-----|-----|------|------|------|-----|-----|-----|-----|-----|------|-----|-----|------|-----|------|------|-----|-----|
|               | 1   | 2    | 3   | 4   | 5   | 6   | 7    | 8    | 9   | 10  | 11  | 12  | 13  | 14   | 15  | 16  | 17  | 18   | 19   | 20   | 21  | 22  | 23  | 24  | 25  | 26   | 27  | 28  | 29   | 30  | 31   | 32   | 33  | 34  |
|               | Aug | Sept | Okt | Nov | Dez | Jan | Febr | März | Apr | Mai | Jun | Jul | Aug | Sept | Okt | Nov | Dez | Jan  | Febr | März | Apr | Mai | Jun | Jul | Aug | Sept | Okt | Nov | Dez  | Jan | Febr | März | Apr | Mai |
|               |     |      |     |     |     |     |      |      |     |     |     |     |     |      |     |     |     |      |      |      |     |     |     |     |     |      |     |     |      |     |      |      |     |     |
| Workshops     |     |      |     |     |     |     |      |      |     |     |     |     |     |      |     |     |     |      |      |      |     |     |     |     |     |      |     |     |      |     |      |      |     |     |

## Advisory Board of the project

- Be kept informed of the project's progress through regular virtual meetings and updates via email.
- Offer **guidance** to ensure the project's success and alignment with diverse perspectives and expertise.
- Help foster collaboration across institutions to integrate a wide range of knowledge and experience.

# **Advisory Board**

- Dirk Günther (CEDAE)
- Atifa Kassam (UNEP, Climate Change Adaptation Unit)
- Ulrike Krauss (Caribbean Biodiversity Fund)
- Margaux Monfared (International Coral Reef Initiative ICRI)
- Ali Raza Rizvi (IUCN)
- Andrew Ross (Seascape Caribbean)
- Rolf-Dieter Sprung (WWF)
- Martin Zimmer (ZMT)

# Scoping Workshop

### Aim of this Workshop:

- Setting the Scene for the project
- Discuss main topics and key questions regarding coastal EbA in tropical and subtropical regions
- Develop ideas and topics for upcoming Workshops and Policy Briefs

# **Background Paper – Results (I)**

- Coastal EbA refers to the use of natural ecosystems to enhance climate resilience and reduce coastal risks like erosion, flooding, and storm surges.
- These ecosystems act as natural buffers, reducing storm surges, preventing erosion, and mitigating flooding while also supporting fisheries, water quality, and biodiversity.
- Focus on mangroves and coral reefs, as they are the most addressed ecosystems regarding EbA approaches.

## Background Paper – Results (II)

## **Mangrove EbA**

#### Coastal Protection:

- Reduce flood risk, stabilize shores, and shelter communities from storms.
- Attenuate wave energy: ↓13-66% over 100m, ↓50-99% over 500m (esp. for waves <70 cm).</li>
- Deep roots trap sediment, preventing erosion and raising ground levels.

#### Co-benefits:

- Support marine habitats & nurseries for fish/invertebrates.
- Filter nutrients, enhancing water quality.
- Enable commercial & recreational fishing.

#### Threats:

 Highly vulnerable to sea-level rise, with potential near-total loss within a century if trends persist.

# **Background Paper – Results (III)**

### **Coral EbA**

#### Coastal Protection:

- Act as **submerged breakwaters**, dissipating wave energy and reducing storm surge impact.
- Prevent coastal erosion and reduce flood-related economic damages (tens of billions USD annually).
- Protect coastlines from pollution risks (e.g., sewage, petrochemicals).
- Help **replenish** beaches with sediment post-storm.

#### Co-benefits:

- Support marine biodiversity & food security.
- Sustain fisheries & livelihoods.

#### Threats:

- Highly vulnerable to climate change (rising temperatures, ocean acidification).
- Coral cover declined from 34.8% to 16.3% (1970-2012).
- Ecosystem service capacity halved since 1950s, threatening dependent communities.

# **Impulse Presentations**

"ICRI - A Global Partnership #ForCoral"

Margaux Monfared (International Coral Reef Initiative)

"Restoration of Coral Reefs – Insights from a practitioner" Andrew Ross (Seascape Caribbean)

"Community-based EbA – Opportunities and Challenges in Mangrove Restoration Projects" Rolf-Dieter Sprung (WWF)

# **Break out Groups**

**Aim**: Discuss in three Groups main challenges, success factors and needed actions for coastal EbA

How to: Using Concept Board as tool

Link: <a href="https://app.conceptboard.com/board/imen-h269-ex2x-u85n-0xd6">https://app.conceptboard.com/board/imen-h269-ex2x-u85n-0xd6</a>

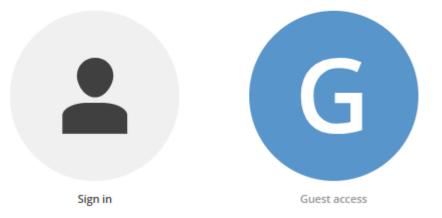
# **Concept Board**

via Guest access



#### **Scoping Workshop Tropical Adapt**

Created by FG-I23 (Conceptboard@BfN)





#### Als Gast beitreten

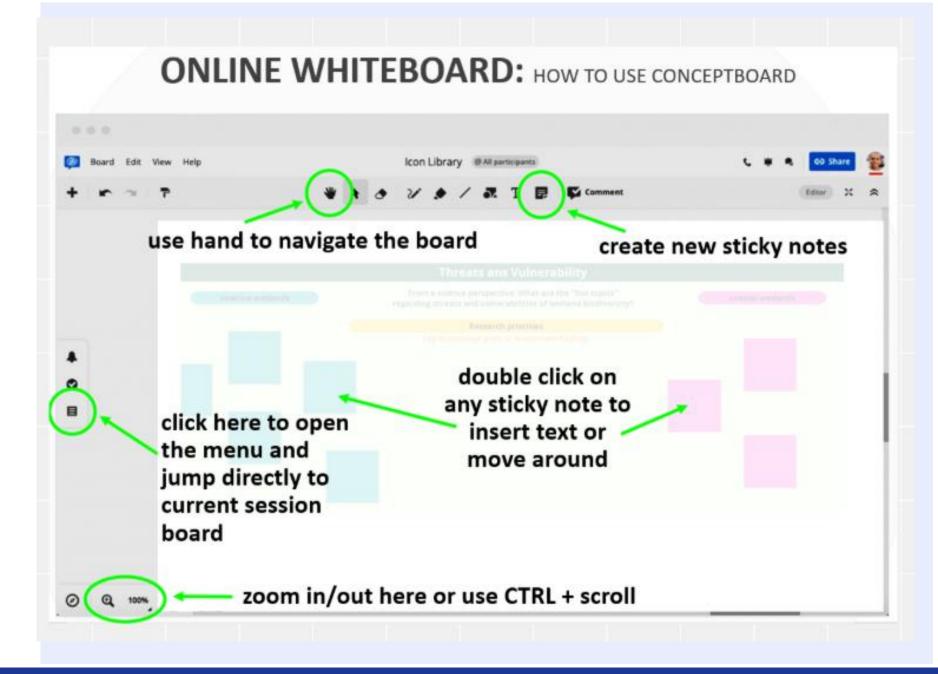
Nico Stelljes (Ecologic)

✓ Ich habe die <u>Datenschutzbestimmungen</u> von Conceptboard@BfN gelesen.

#### Als Gast mitarbeiten

zurück

# **Concept Board**



# **Concept Board**

Groups

TropicalAdapt Scoping
Workshop
GROUP 1:

Stakeholder Engagement & Governance & Communication.

**START** 

TropicalAdapt Scoping Workshop

GROUP 3: Financing & private Sector

**START** 

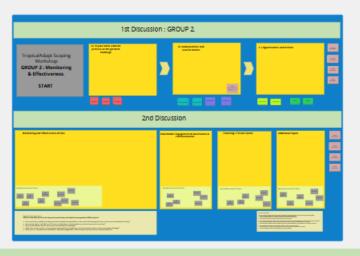
TropicalAdapt Scoping Workshop

**GROUP 2 : Monitoring** & Effectiveness.

**START** 











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Discussion in the entire group









### **Group work**

TropicalAdapt Scoping
Workshop
GROUP 1:

Stakeholder Engagement & Governance & Communication.

**START** 

TropicalAdapt Scoping Workshop

**GROUP 2 : Monitoring** & Effectiveness.

**START** 

TropicalAdapt Scoping
Workshop
GROUP 3: Financing &
private Sector

START





### Vielen Dank.

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