

Agenda item 4

# WIM-TEC joint policy brief on technologies for averting, minimizing and addressing loss and damage in coastal zones

WIM Excom, 10<sup>th</sup> meeting

Bonn, Germany, 23-25 October 2019



**Nedal Katbehbader & Yuichi Ono**  
Members of Joint Working Group WIM Excom

## 1. Background

- In 2018 WIM Excom and TEC agreed to develop a joint policy brief on *Technologies for averting, minimizing and addressing loss and damage in coastal zones*
  - ✓ The topic reflects common areas of interest of two bodies
  - ✓ The preparation of the joint policy brief will be coordinated by a WIM-TEC joint working group
  - ✓ Experts in relevant fields will be engaged on a voluntary basis
- Excom 9 agreed to the outline of the policy brief and the co-organization of Expert Dialogue to support development the policy brief

## 2. Agreed outline of the joint policy brief (recap)

### Chapter 1 – Introduction

Brief overview on: types of loss and damage, comprehensive risk management, recovery and rehabilitation in coastal zones, and technology categorisation (hardware, software, orgware)

### Chapter 2 - Technologies for coastal zone risk assessment

Overview of types of technologies available to observe and assess climate impacts in the coastal zones, case studies, opportunities and challenges

### Chapter 3 -Technologies for coastal zone risk retention

Overview of types of technologies available to manage and accommodate climate impacts in the coastal zones, case studies, opportunities and challenges

### Chapter 4 -Technologies for recovery and rehabilitation

Overview of types of technologies available for recovery and rehabilitation in the coastal zones, case studies, opportunities and challenges

### 3. Expert Dialogue

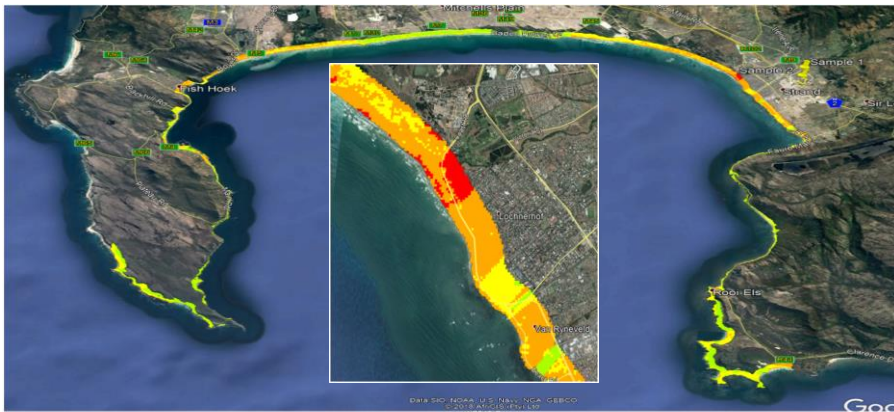
- 17 June 2019 – in conjunction with SB 50 in Bonn, Germany
- Attended by WIM Excom and TEC members, Parties, observer organizations, 11 experts and practitioners as speakers/resource persons/contributors to policy brief
- Dialogue is structured around the 4 chapters of the brief
- Outcomes to feed into development of the brief



## 4. Select highlights from the dialogue

- 40 percent of the world's population live within 100 km of the coast, and there is urgent need to take concrete measures address issues in coastal zones
- Comprehensive risk management approaches in coastal zones is very relevant as communities in these areas face multiple risks both from land and seas

### Storm surges and sea level rise cause havoc to coastal infrastructure and livelihoods



### Technologies for risk assessment

- Having good data on economic and non-economic losses are important to enable forecast future risks and impacts
- While tools to predict extreme weather event exist, there is a lack of such kind of tools to predict slow climate events

## Agenda item 4 – WIM-TEC joint work

### Technologies for risk retention

- Technological solutions exist to manage and adapt, ranging from climate-resilient housing, saline water purification, protection seawall, and mangrove green belt to prevent erosion
- There may not be ‘one-size fit’ solution for coastal protection
- Nature-based solution can help manage risks and strengthen nature



### Technologies for recovery & rehabilitation

- Various measures including integrated solutions for flooded areas, re-building after hurricane, and enabling orgware for long-term implementation and maintenance
- Hardware, software and orgware are useful in implementing recovery and rehabilitation process



### Challenges identified (cross-cutting)

- Lack of data
- Poor/insufficient capacity
- One size fits all approach would not work
- Technologies alone cannot address issues
- Insufficient funding



### Enablers identified to overcome challenges

- Partnership with various stakeholders, including business and private sector
- Involvement of local communities
- Indigenous and endogenous solutions are important elements to be taken into consideration
- Information on cost effectiveness of the approach
- Combine climate technologies with other technologies (e.g. digital tech)

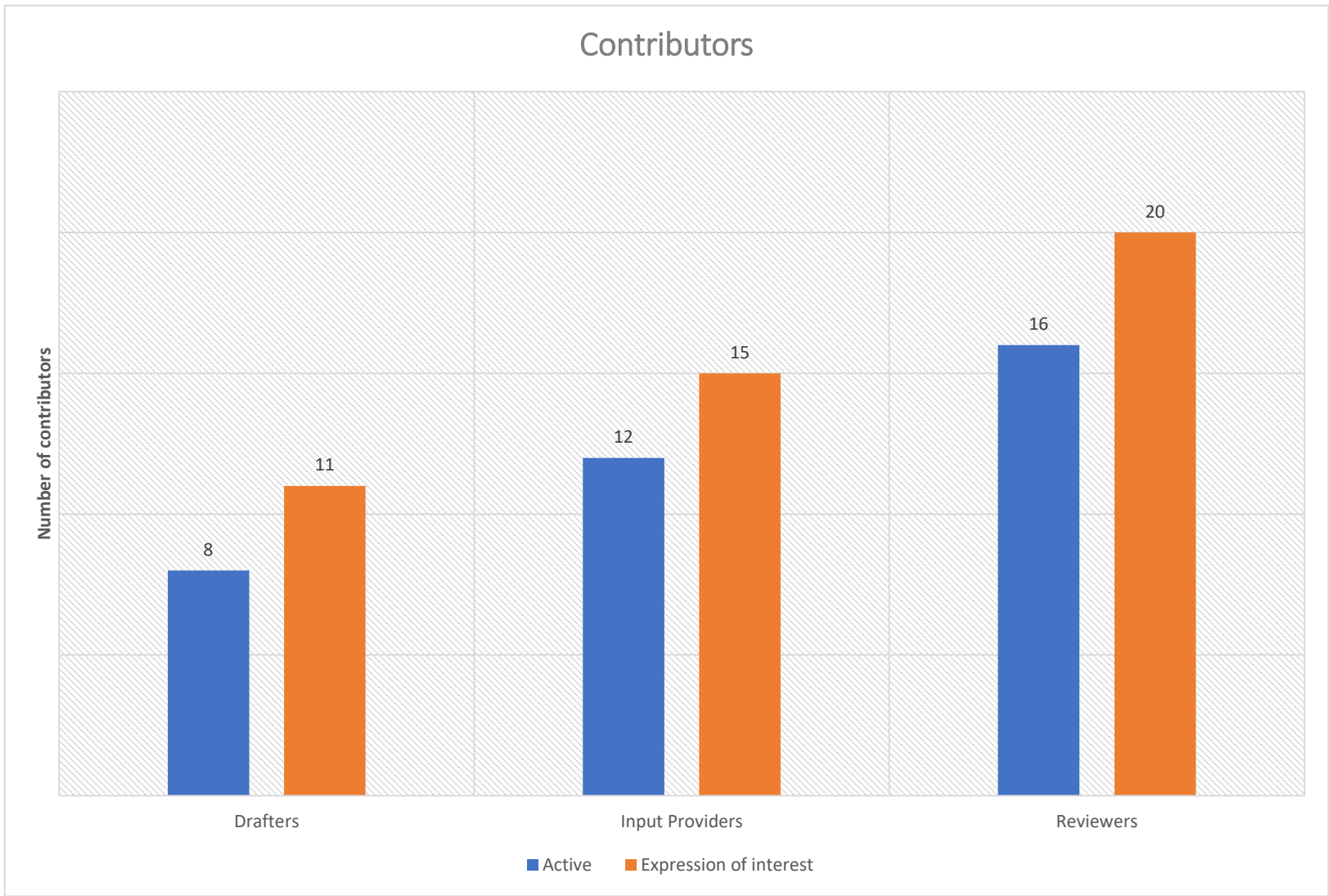
## 5. Preparation of draft joint policy brief

- Initial timeline anticipates official release of the document at COP25
- Due to various issues, including contribution is done on voluntary basis, the compilation of inputs for all four chapters took longer than anticipated
- Draft document will be reviewed by the TEC at its 20<sup>th</sup> meeting in spring 2020
- Proposed revision to the timelines:

Activity	Original	Revised
Preparation of draft	July- August 2019	September - October 2019
Draft policy brief	TEC 19 (Sept 2019)	Excom 10 (Oct 2019)
Final inputs	Excom 10	Excom 11/TEC 20 (Spring 2020)
Release for publication	COP 25 (Dec 2019)	Post Excom11/TEC 20 (spring 2020)



Agenda item 4 – WIM-TEC joint work



## 6. WIM Excom consideration

- The WIM Excom is invited to take note of the information provided and provide guidance on the finalization of the joint policy brief

*Thank you!*

