



SMART SEAS TOOLKIT for DISASTER RESILIENCE

ITU/CTU/TATT Project

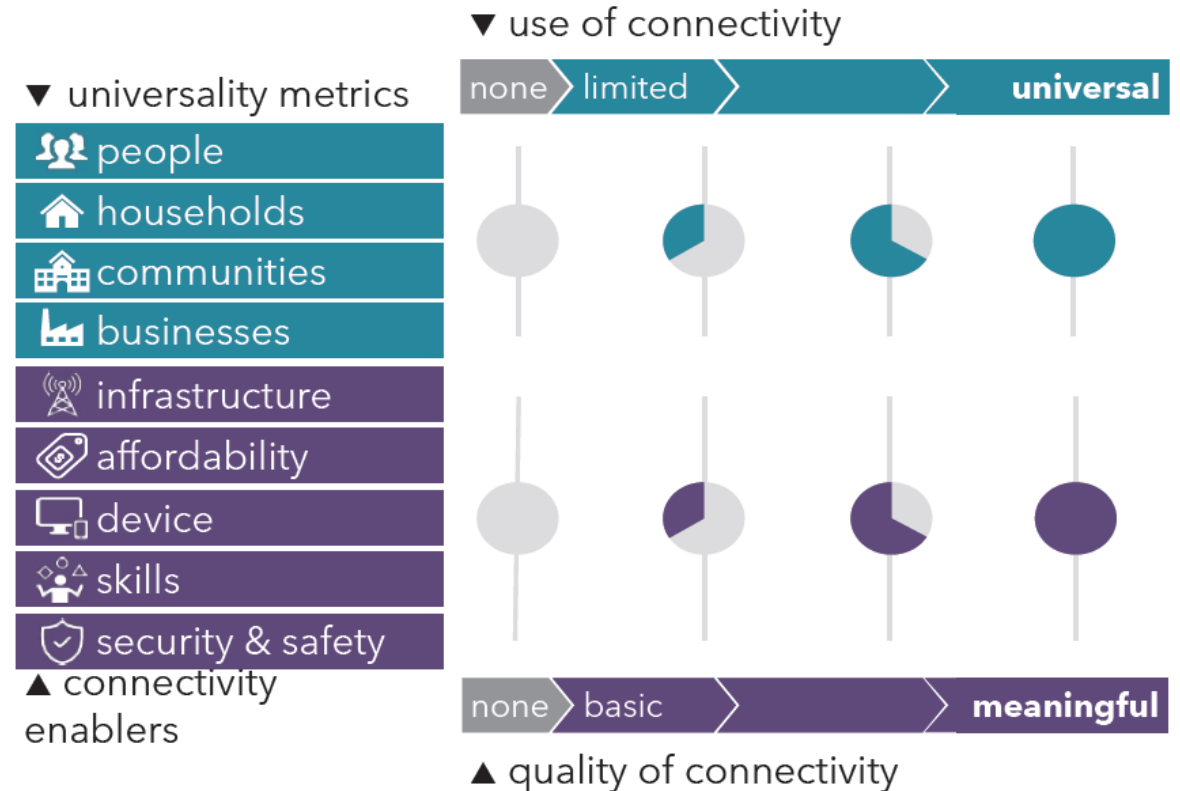
CTU's 1st International ICT Forecast and Industry Watch Meeting

13 Jan 2025

Tariq Mohammed | ITU Consultant

Universal & Meaningful Connectivity for All

- Initiatives to promote meaningful **connectivity for all** generally *exclude* some vulnerable populations
- Forms of exclusion include:
 - affordability
 - accessibility
- Affordable, accessible ICTs requires action by several agents within the ecosystem: policy makers, regulators, service providers, etc.

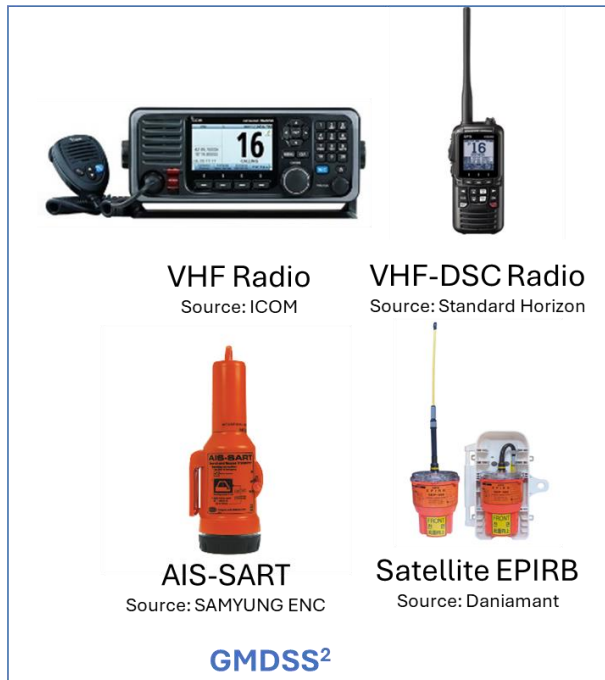


Source: *Measuring Digital Development The ICT Development Index 2023* (ITU 2023)

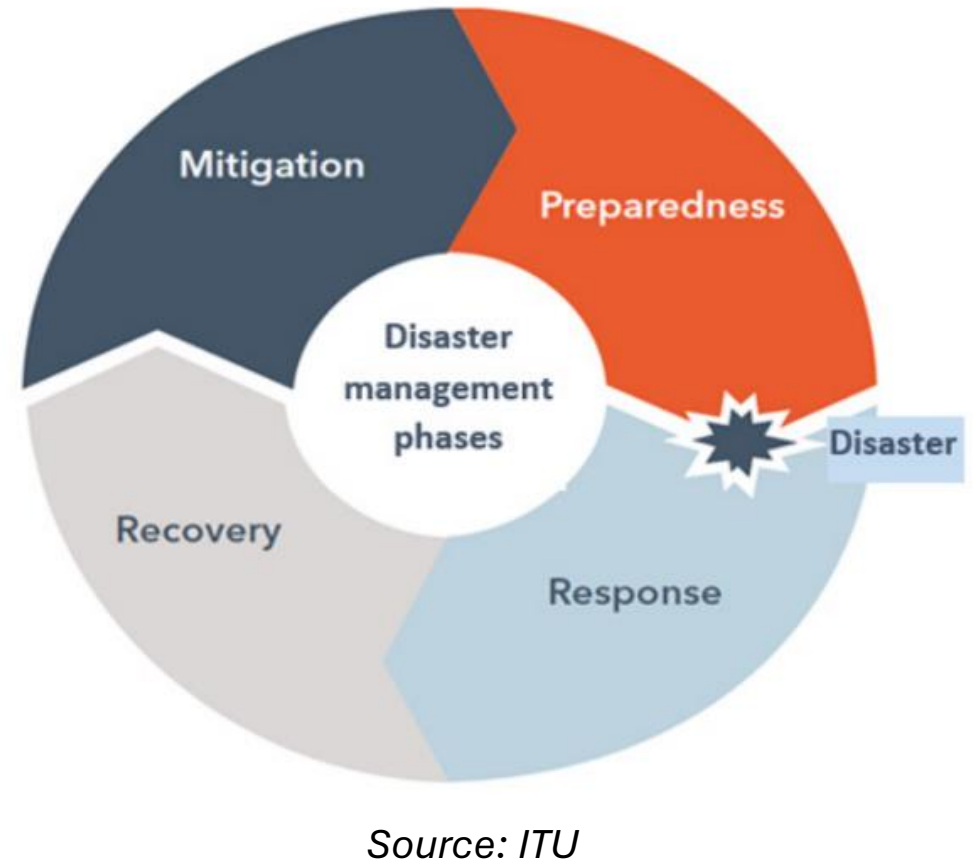
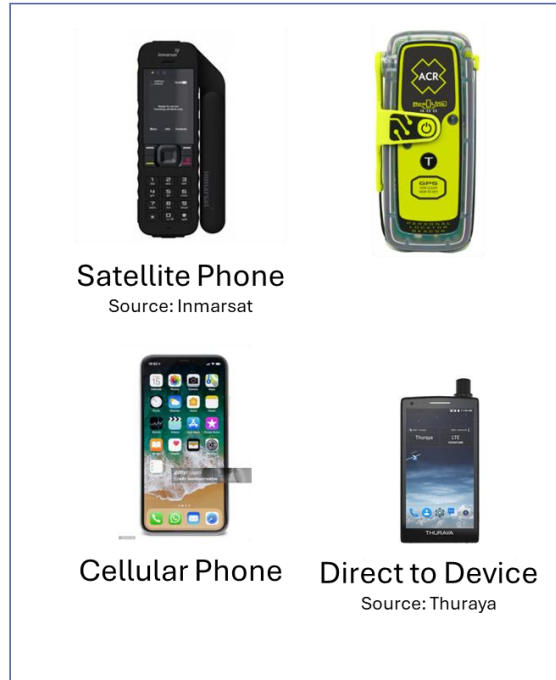
ICTs in Disaster Management & @Sea

- ICTs play critical role in all four phases of disaster mgmt. cycle
- ICTs in Comms@Sea:

Essential (emergency comms: lifesaving)



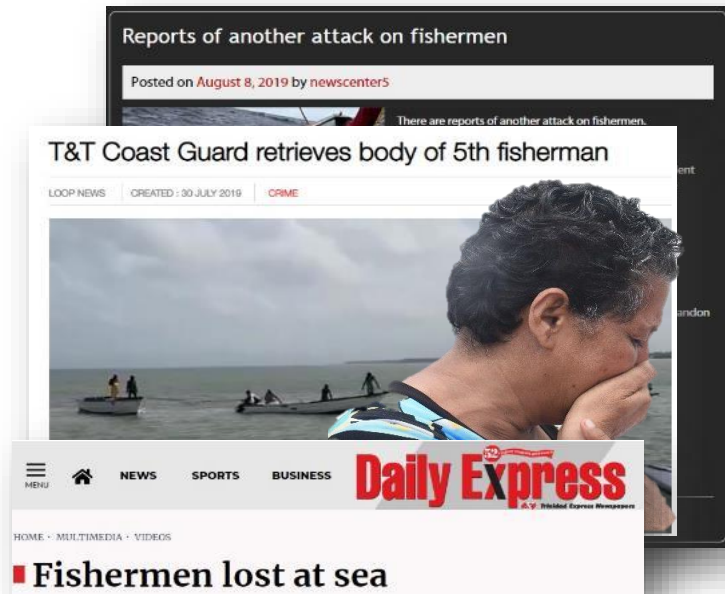
Non-essential (regular comms & livelihoods)



²Global Maritime Distress and Safety System

A Vulnerable Group: Small-Scale Fishers

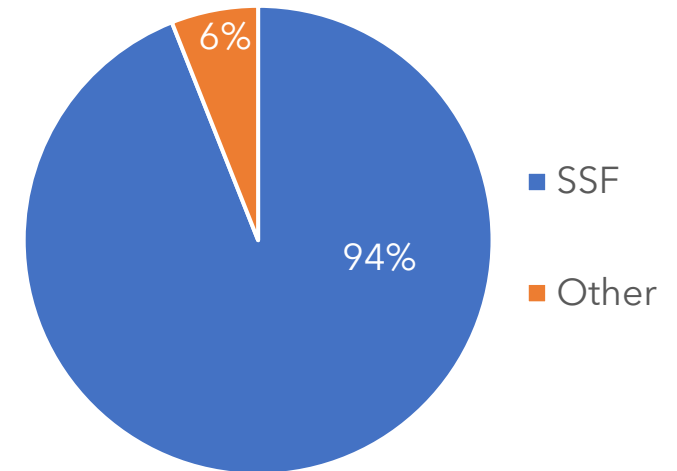
- Fishing often ranked as most dangerous job; 32,000 annual fatalities @ sea (FAO 2020)
 - SSF: 94% of global fishing fleet | 40% of global fish caught
 - Low visibility of small-scale fisher (**SSF**) vulnerability:
 - **Livelihoods:** digitally & financially
 - **Lives:** physically in undecked vessels
- ICTs critical to both lives & livelihoods
- Simply having ICTs is not enough, **enabling environment** essential for affordable, accessible ICTs



Climate Change and SSF:

- ↑ risk for SSF: magnitude and severity of natural disasters exacerbated by climate change
- ↑ sea temp. drives fish further from shore; drives fishers further from shore into waters which their vessels may not be designed for

Global Fisheries Fleet



Strengthening Enabling Env: Smart Seas Project

- Smart Seas Toolkit for Disaster Resilience (Smart Seas) Project: joint initiative supported by the Government of Trinidad and Tobago

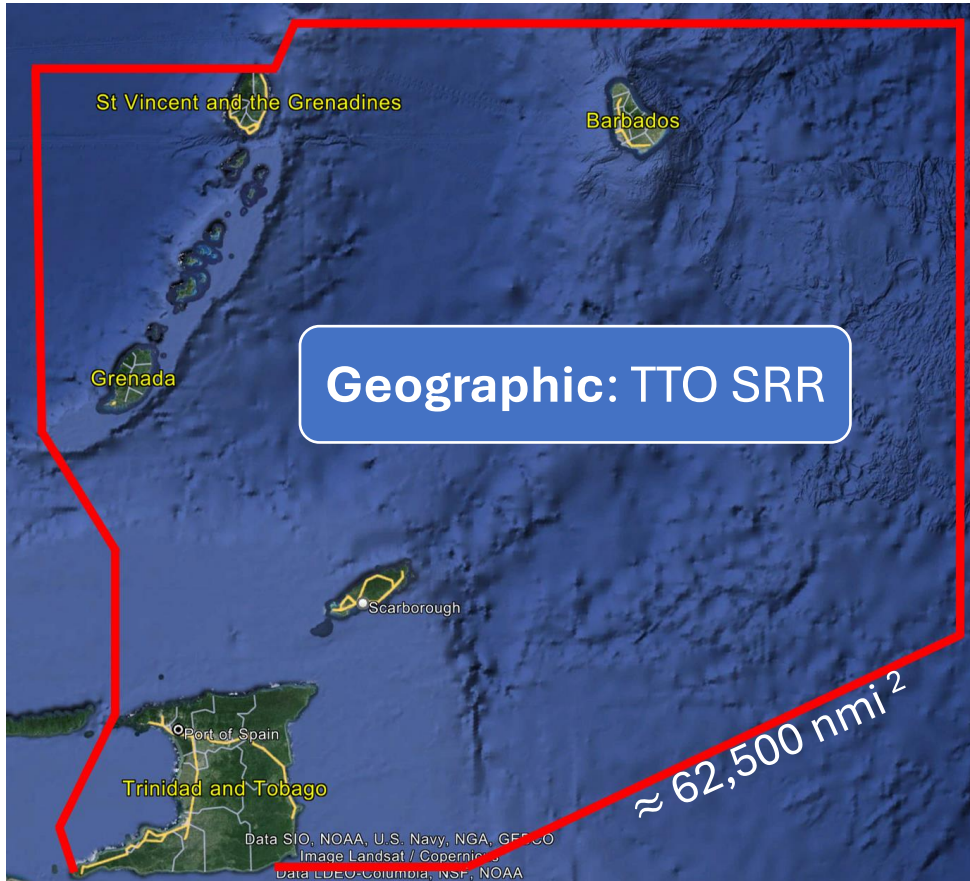


- Aim: to increase the resilience & preserve the lives of SSF through ICTs with emphasis on the **enabling environment**¹
- Enabling environment *essential* for **affordable & accessible** ICTs

¹ the set of actors, policies, regulations, frameworks, capacity, operations and associated engagements among actors and agencies which facilitate maritime communications to increase the resilience of small-scale fishers

Scope & Dimensions

Scope:



Beneficiary Sector: Fisheries 

Dimensions:



Policy & Regulation



Operations



Capacity




Technology


Transferable: other sectors & underserved or vulnerable communities

Extensible: regionally & globally

Smart Seas Outputs, Outcomes & Impacts

OUTPUTS




Current State  Best practice

Gap Analysis



SMART SEAS

Smart Seas Toolkit




Equipment



Agenda for Accessible Comms@Sea

OUTCOMES



Capacitated ecosystem



Strengthened enabling environment

IMPACT



Resilient SSF

SSF Week 2025 Programme at a Glance

Day			
Agenda Validation Workshop	VHF-DSC Radio Training		
Mon 3 Feb 2025	Tue 4 Feb 2025	Wed 5 Feb 2025	Thu 6 Feb 2025
Workshop Opening	Registration	Day 2 opening	Day 3 opening
Welcome Remarks: ITU, CTU, TATT	Opening Ceremony	Recap: voice technique & procedure; voice calls	Recap: DSC alerts
Agenda Report Overview		DSC alerts: distress	
Feature Address			
Group Photo			
Validation: Chapters 1 & 2 <i>1: Introduction</i> <i>2: Comms@Sea</i>			
Break	Break	Break	Break
Validation: Chapters 3 - 7 <i>3: Gaps in Accessible Comms@Sea</i> <i>4: Priorities for Accessible Comms@Sea</i> <i>5: Forward Looking</i> <i>6: Channels for Action</i> <i>7: Conclusion</i>	Maritime Radio Theory	DSC alerts: urgency, safety & test	Rules of the road
	Radio Walkthrough		Licensing
	Voice Technique & Procedures		Open mic
	Voice calls: Distress		Workshop recap & closure
	Recap & Day 1 Closure	Recap & Day 2 closure	
	Lunch		
Overall Feedback & Open Mic	<i>Optional: Trainers avail for 1 hour for additional support</i>	<i>Optional: Trainers avail for 1 hour for additional support</i>	<i>Optional: Networking & licensing opportunity</i>
Closing Remarks & Next Steps			

Agenda Validation Workshop

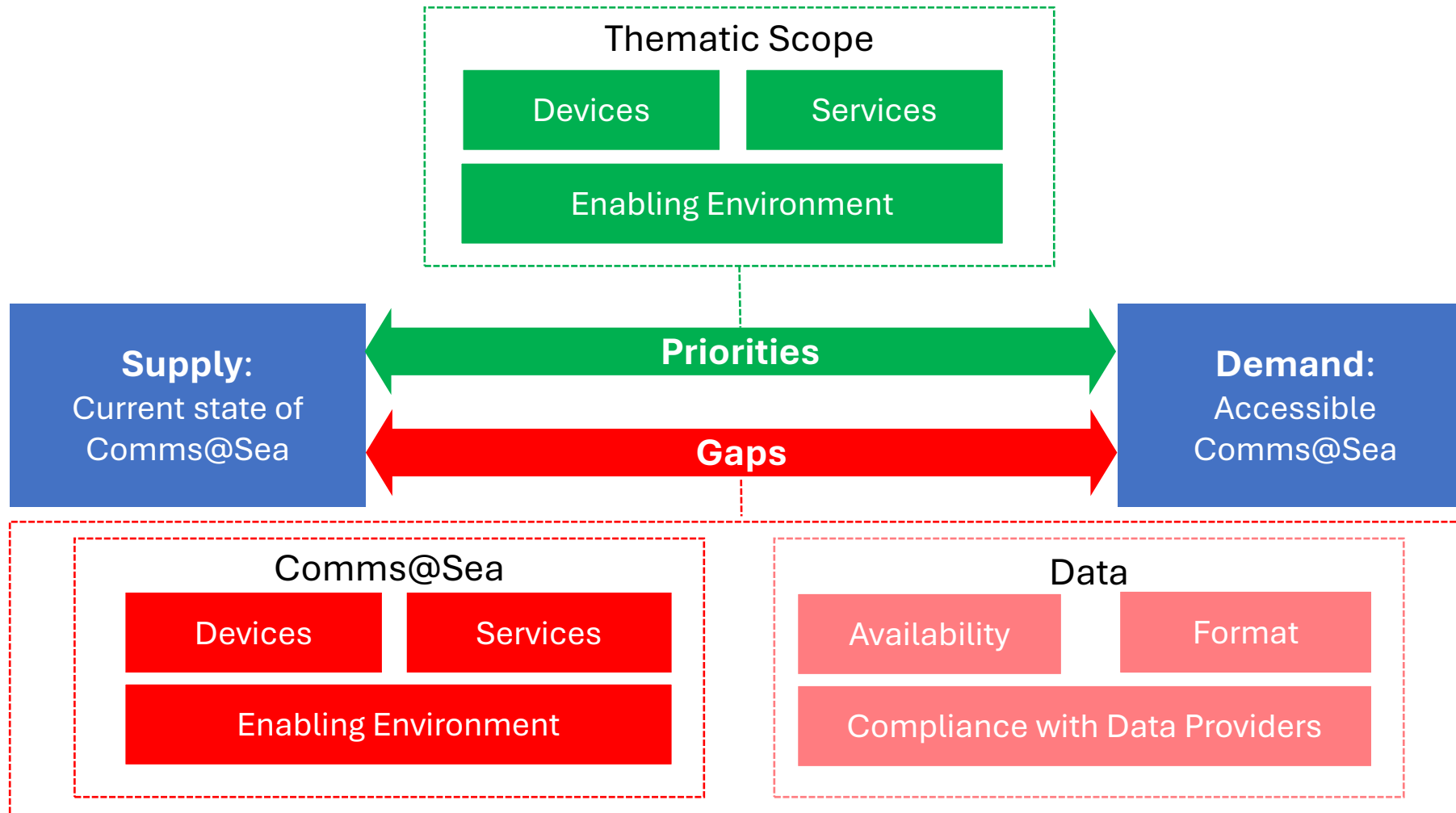


Workshop Particulars:

Date: Mon 3 Feb 2025
Time: 09:00 – 12:30 (AST)
Venue: Zoom

Relevant Agencies:

- Research institutions
- Standards bodies
- Manufacturers
- Service providers
- Policy makers & regulators
- Fisheries agencies
- Coast stations
- Entrepreneurs
- Etc.



VHF-DSC Radio Training Workshop

Aim:

To strengthen the capacity of SSF and other key maritime comms agencies with respect to VHF-DSC radios

Outcomes:



Capacity building



Multistakeholder Collaboration



Enabling environment

Nominal Schedule:

Day 1
(4 Feb 2025)

Intro to Radio

Day 2
(5 Feb 2025)

Voice & DSC

Day 3
(6 Feb 2025)

Radio in Practice

Learning Outcomes:

1. Identify causes of **service loss** at sea
2. Identify **safety at sea scenarios** & their **priorities**
3. Operate basic device **controls**
4. Demonstrate proper voice **technique**
5. Demonstrate proper **voice & DSC procedures** for *distress, urgency, safety, & routine* communications
6. Identify key local **licensing** requirements

Relevant Stakeholder Groups:

- Fisherfolk
- Coast stations
- DMAs
- Regulators
- Service providers
- Etc.

Venue:

Telecommunications Authority of Trinidad and Tobago (TATT) - Barataria, Trinidad and Tobago

Register Here:



Share with your networks!

THANK YOU!

For more information, email us at sst@ctu.int
(see chat for registration links)

Check out the Smart
Seas Project Brief, here:



References

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APPENDIX