



**AFRICA CENTER  
FOR STRATEGIC STUDIES**

# **MSS: SHARED CHALLENGES AND RESPONSES IN THE INDIAN OCEAN**



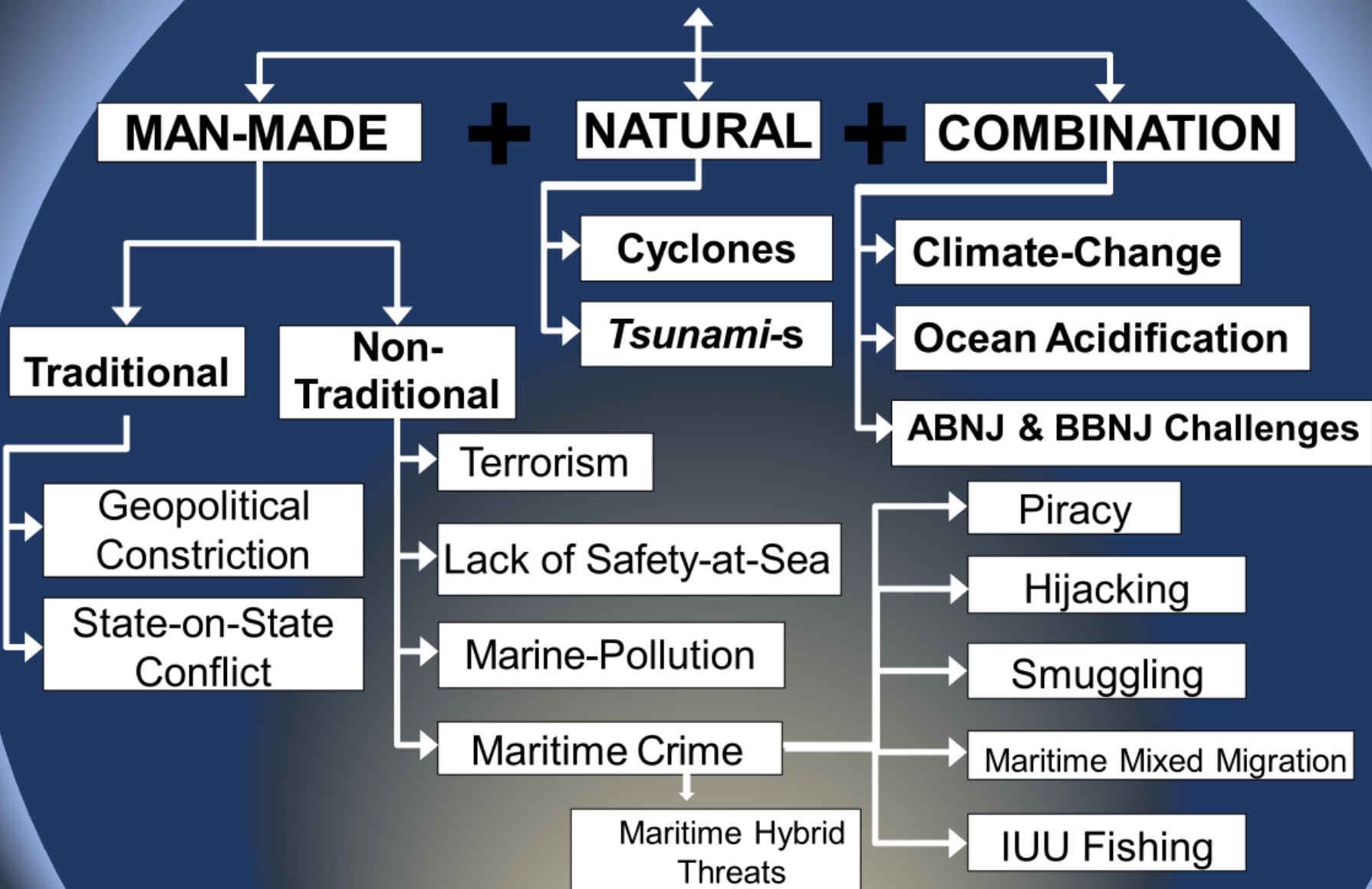
# MARITIME RISK PROFILE OF THE WESTERN INDIAN OCEAN: FORGING COOPERATION

*Presentation by:*  
**Anum Khan**  
Associate Fellow  
National Maritime Foundation

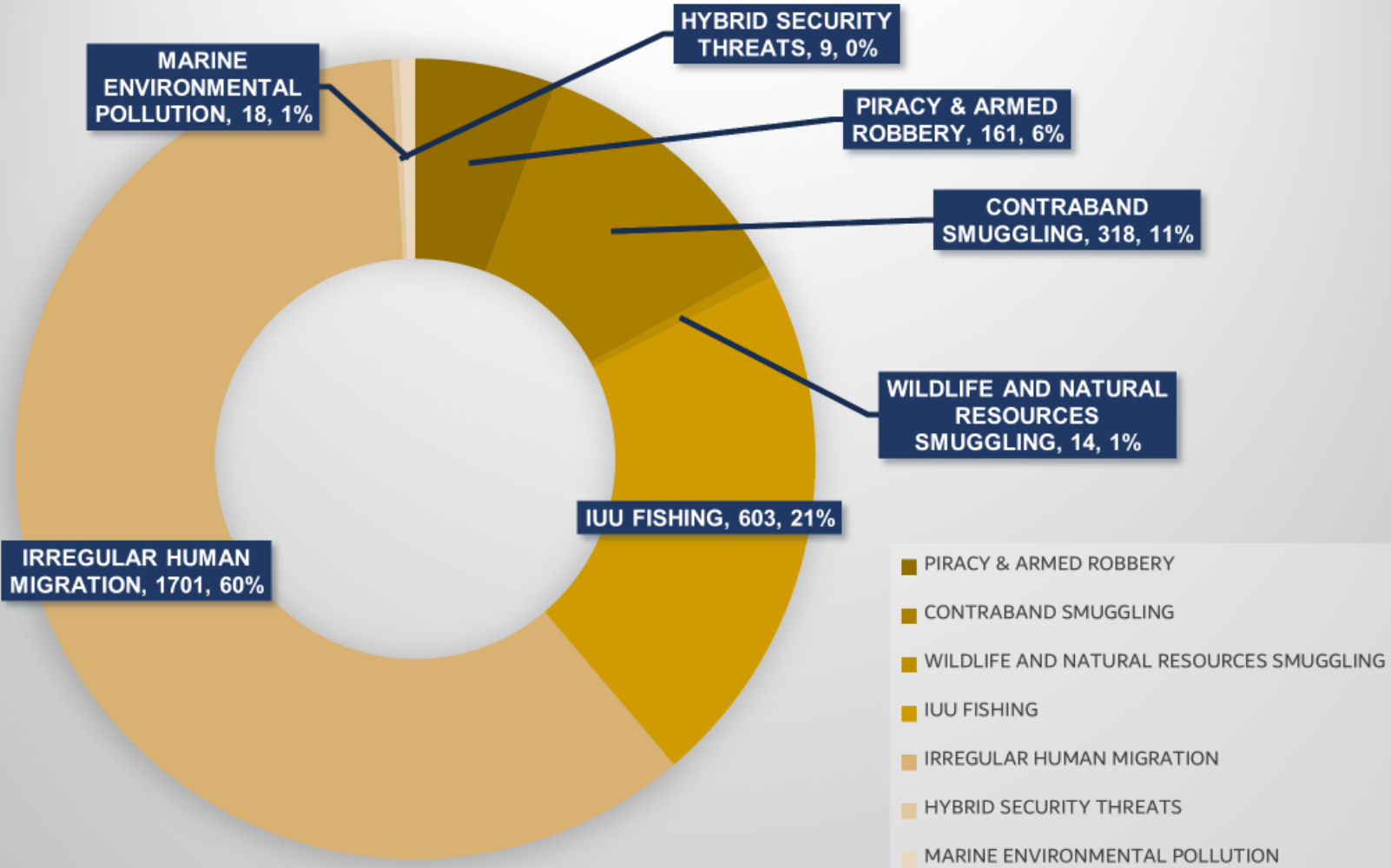
# THE OCEAN IN PERSPECTIVE



# THREATS ARISING 'IN-', 'FROM-', or 'THROUGH' THE SEA

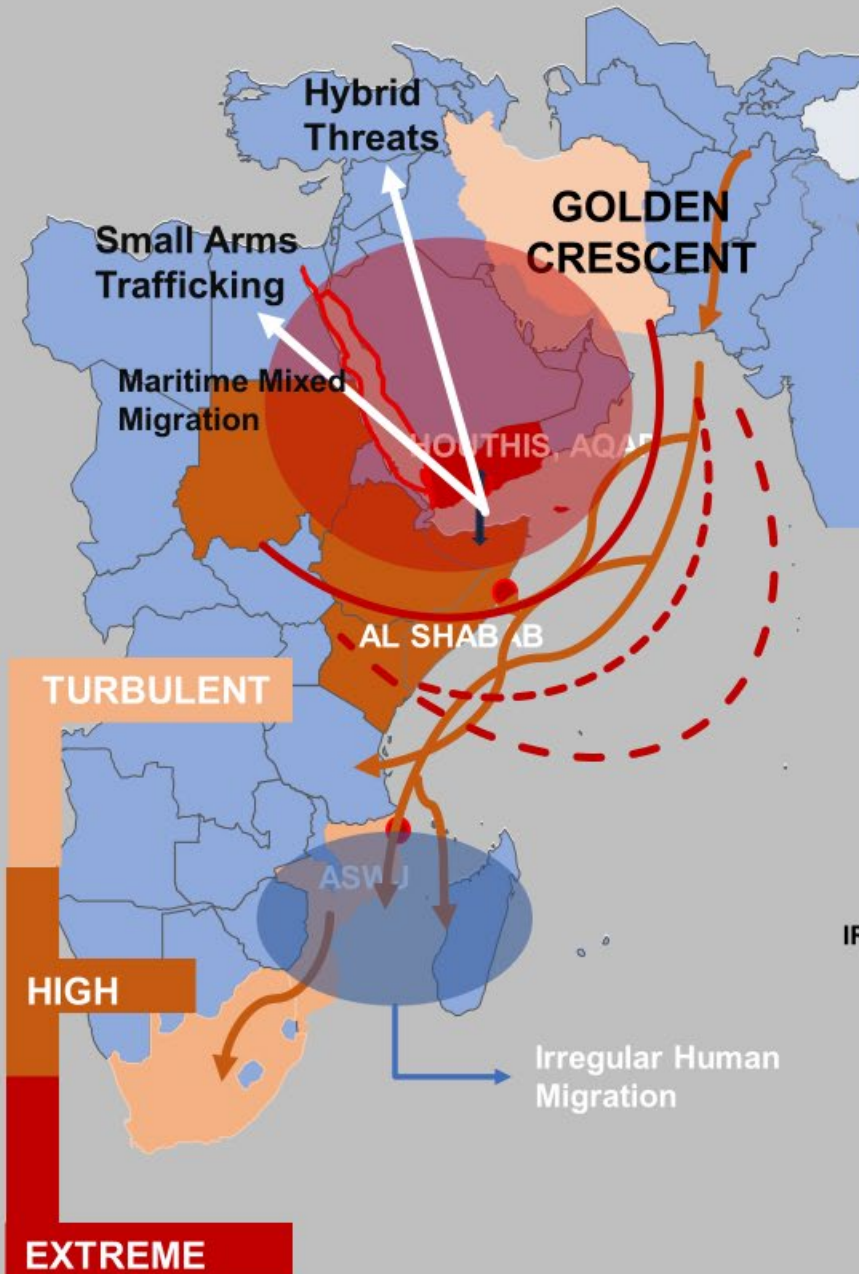


# MARITIME SECURITY INCIDENTS IN THE IOR 2022

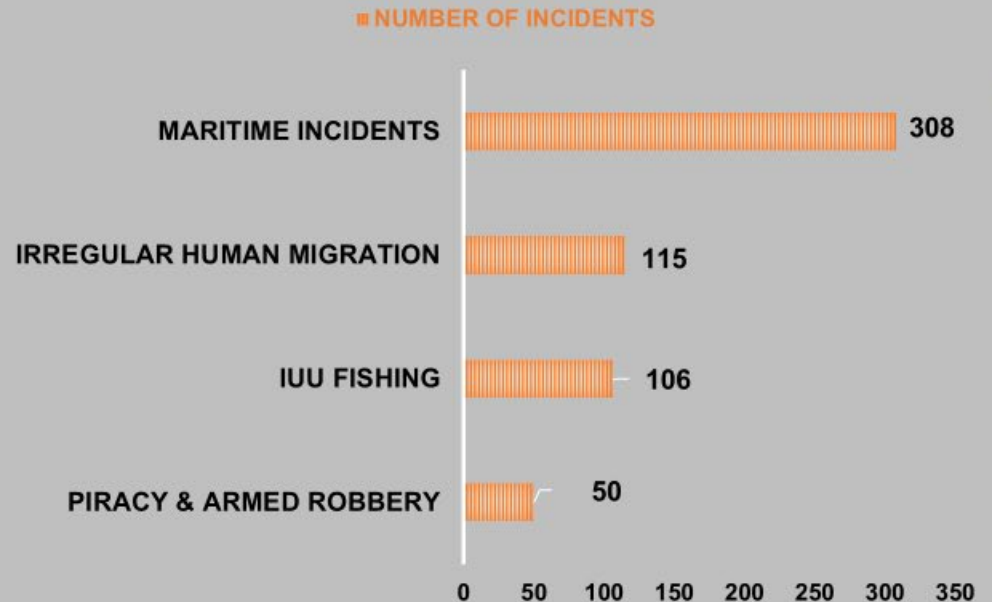


SOURCE: Annual Report 2022 , IFC IOR

# RISK MAPPING OF WESTERN INDIAN OCEAN



## NUMBER OF INCIDENTS RECORDED





**THANK YOU!**



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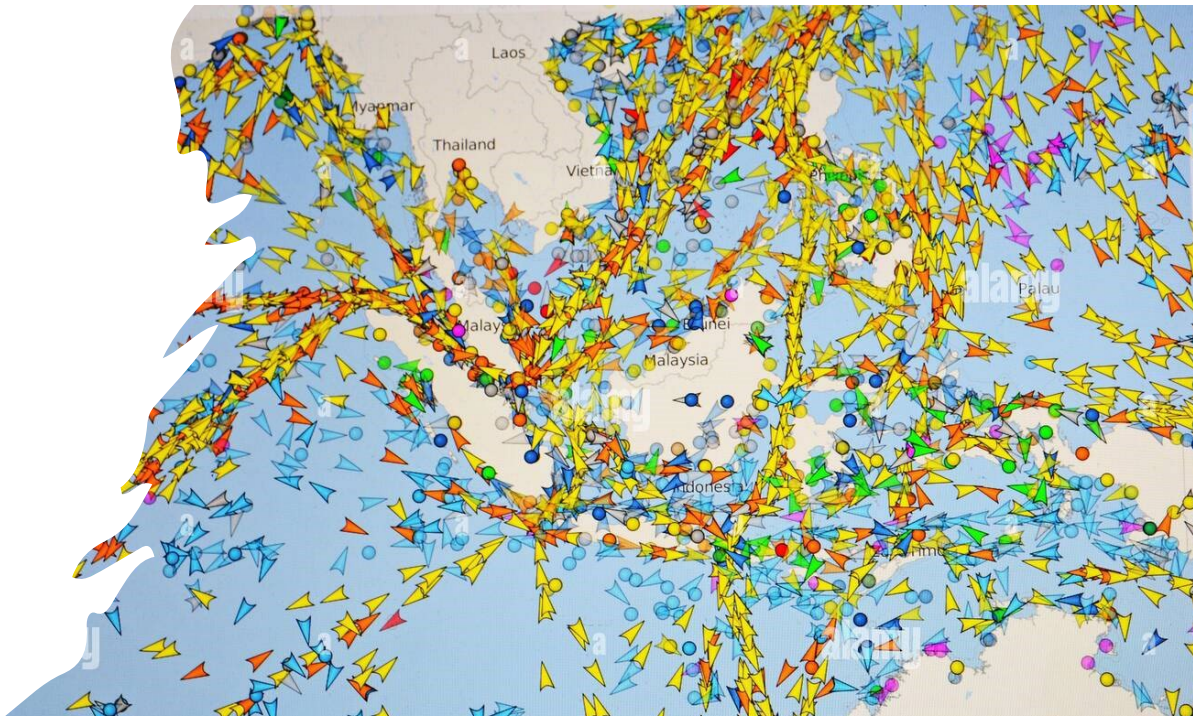
# Traditional and Digital Tools – the State of IOR MDA

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Note – the Views expressed are of the presenter alone and do not represent the views or position of the National Defense University, the United States Department of Defense, or the United States government.



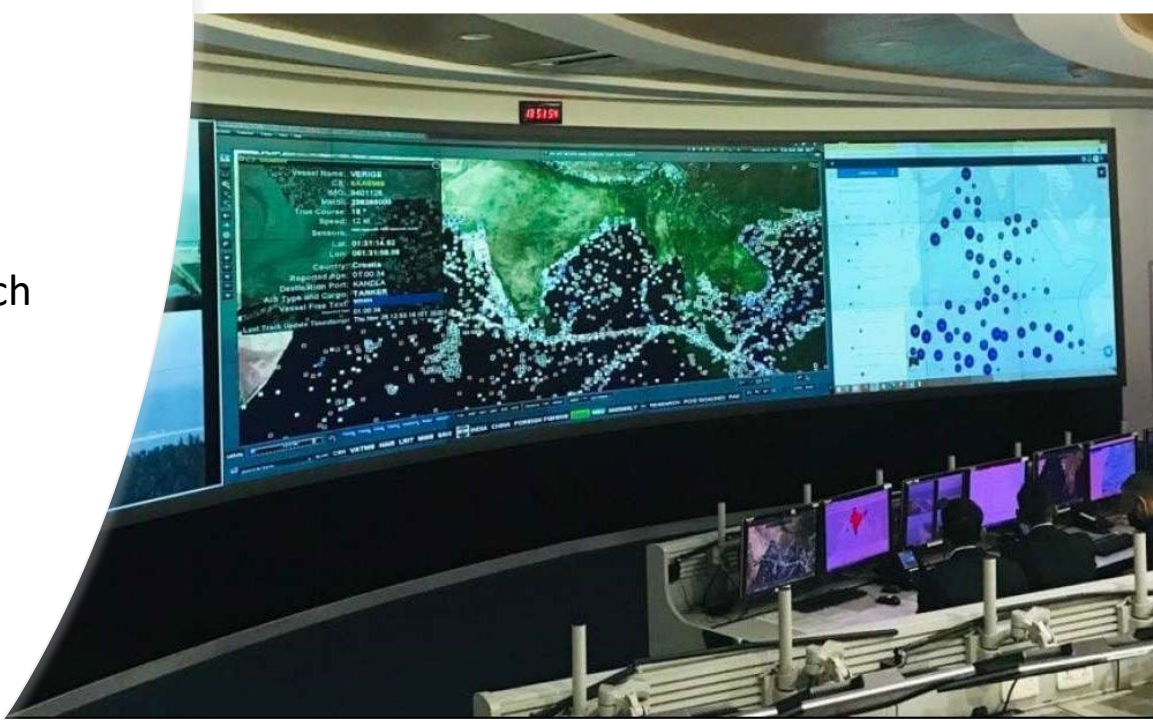
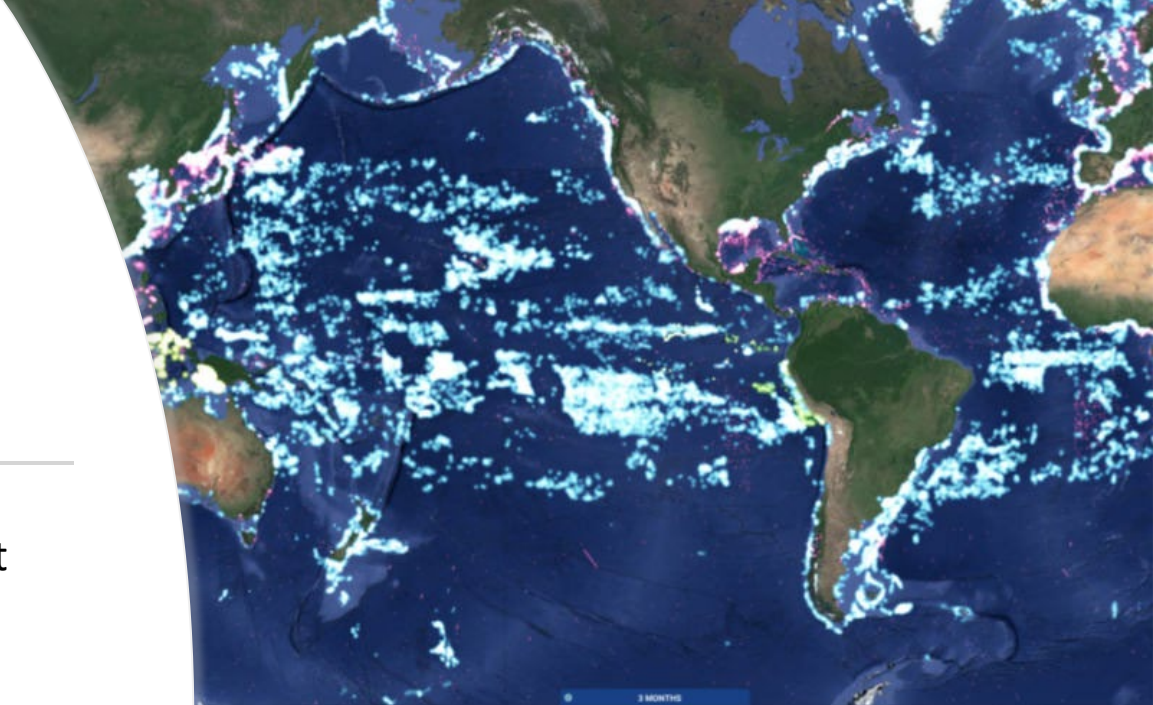
# MDA and Data

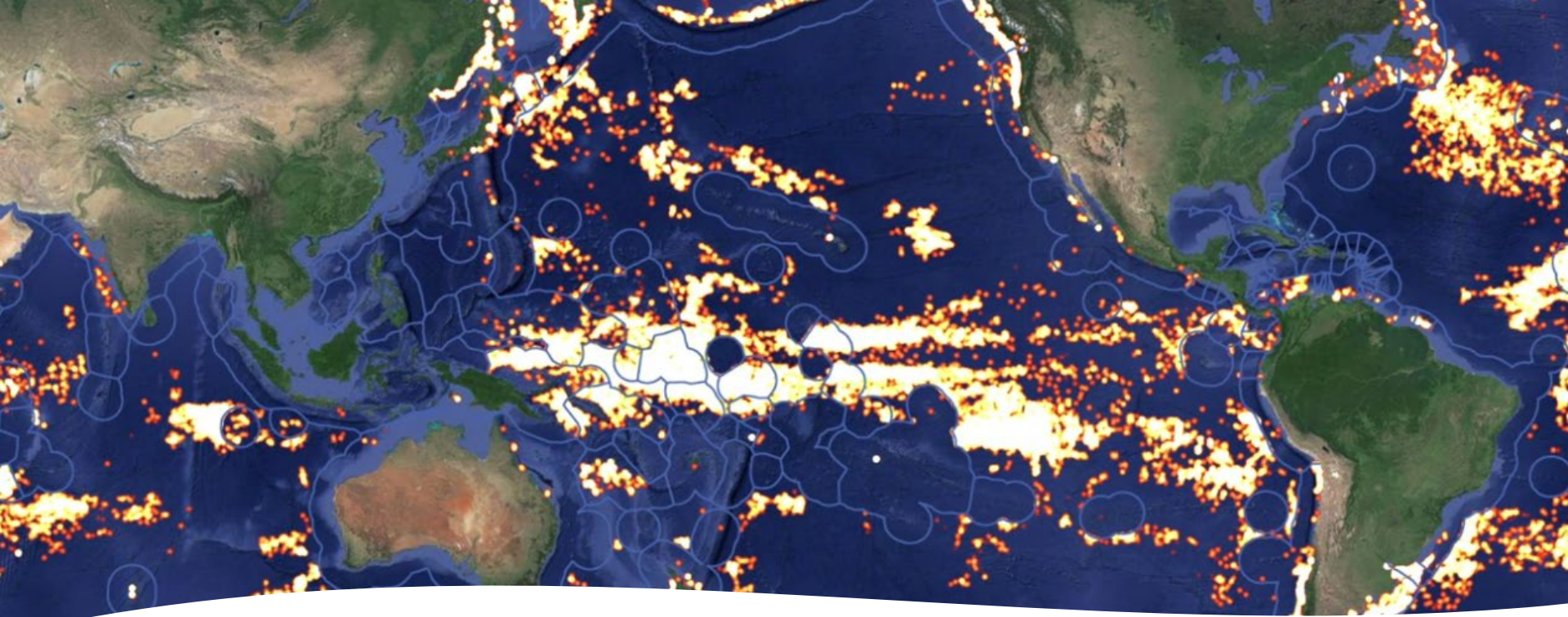
- Experience/Institutional Memory
- Natural/Oceanography
- Communal/Cultural
- Industrial/Commercial
- Scientific Imagery
- Digital Layering / Machine Learning
- Pattern / Precision Layering



# MDA In Focus: the Good and Bad

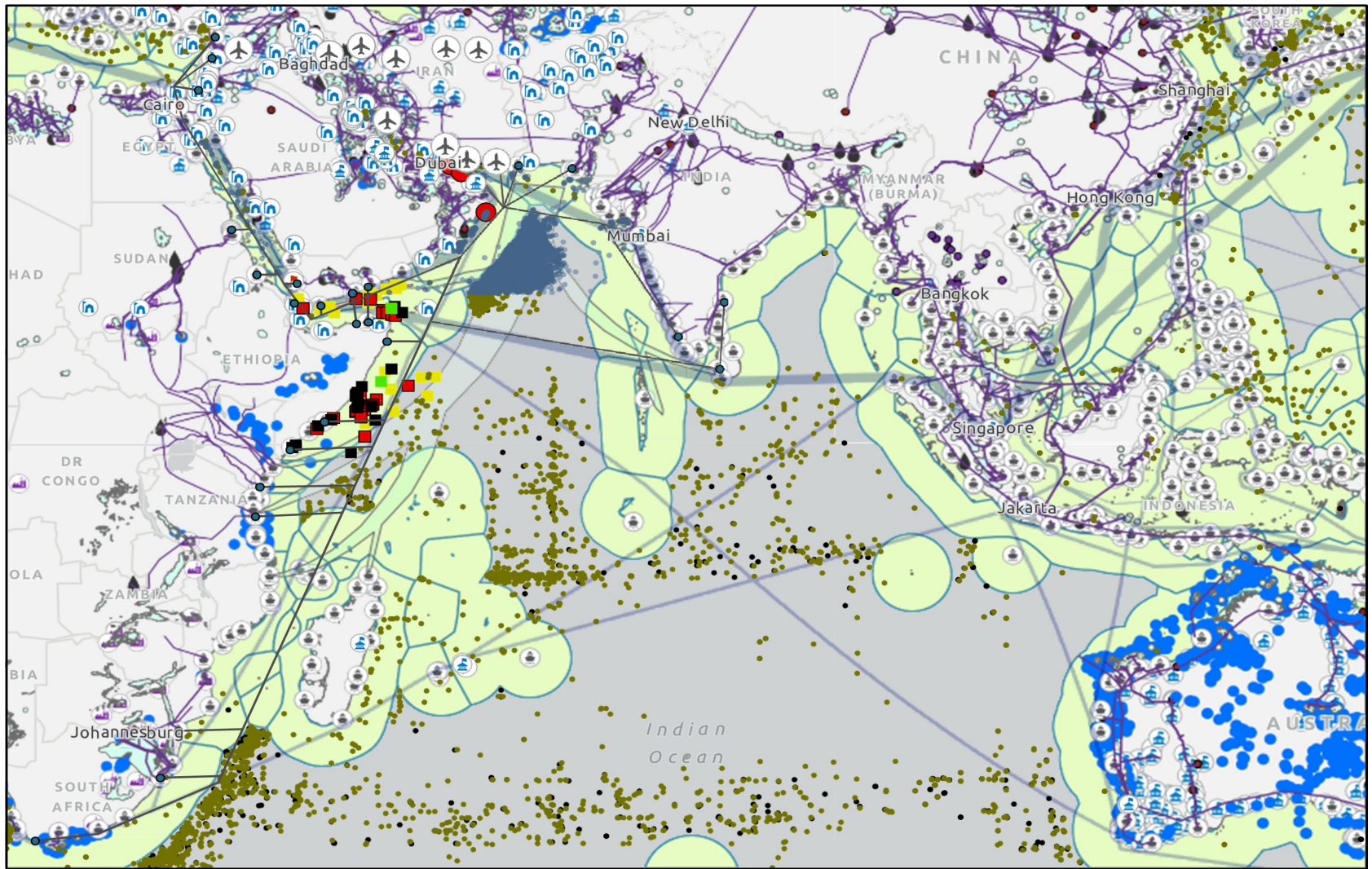
- How do we talk about data? What data do we trust?
- Days of Data Drought are Over
- Arrival of the Sailor/Data Engineer
- MDA has become crowded with interested parties; Public and Private Actors
- Various Methods – IFCs, Exercises, Experiments, Applications, and Tech
- Connectivity Forming, Slowly
- Digital Tools are NOT Magic – Traditional Sources and Methods Remain Vital





## Today's Network

- Networks are forming, but no hub and no global convener
- State Actors Direct Focus; Public-Private Partnerships becoming more Efficient; Private Sector Actors experimenting more and more with the “Market”
- Tech Industry – commercial revolution in orbit; imagery filters; next-gen commercial sensors; and machine learning/AI applications
- No uniform “network” – commercial opportunity; environmental focus; law enforcement tools; scientific inquiry
- Efforts at translating data into Policy / Responses / Regulation /Upholding Rules



My Thanks!

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