

Explore Climate Dynamics Models

Presented by Steven Adler, IBM
and Rick N. Myskey, Jr., US Department of Defense



Steven Adler is IBM's Chief Data Strategist. He serves on the Commerce Department's Data Advisory Council, The Global Data Partnership's Steering Committee, is a co-chair of the W3C Data on the Web Best Practices WG, and the SDS XMILE System Dynamics TC.



Rick N. Myskey, Jr. is Program Manager at US DoD and Chairman of MilleniumKI. He has 26 years experience managing complex enterprise programs across the world. Rick continues to be recognized as a subject matter expert with extensive Global enterprise leadership expertise. Rick has experience in multiple industries and currently responsible for planning and directing all aspects of operational policies, objectives, and program initiatives.

Hosted by Steven Adler, IBM and Karim Chichakly, isee systems





***Rapid Integrated Strategic Assessment
for
Water Security
(RISA-H2O)***

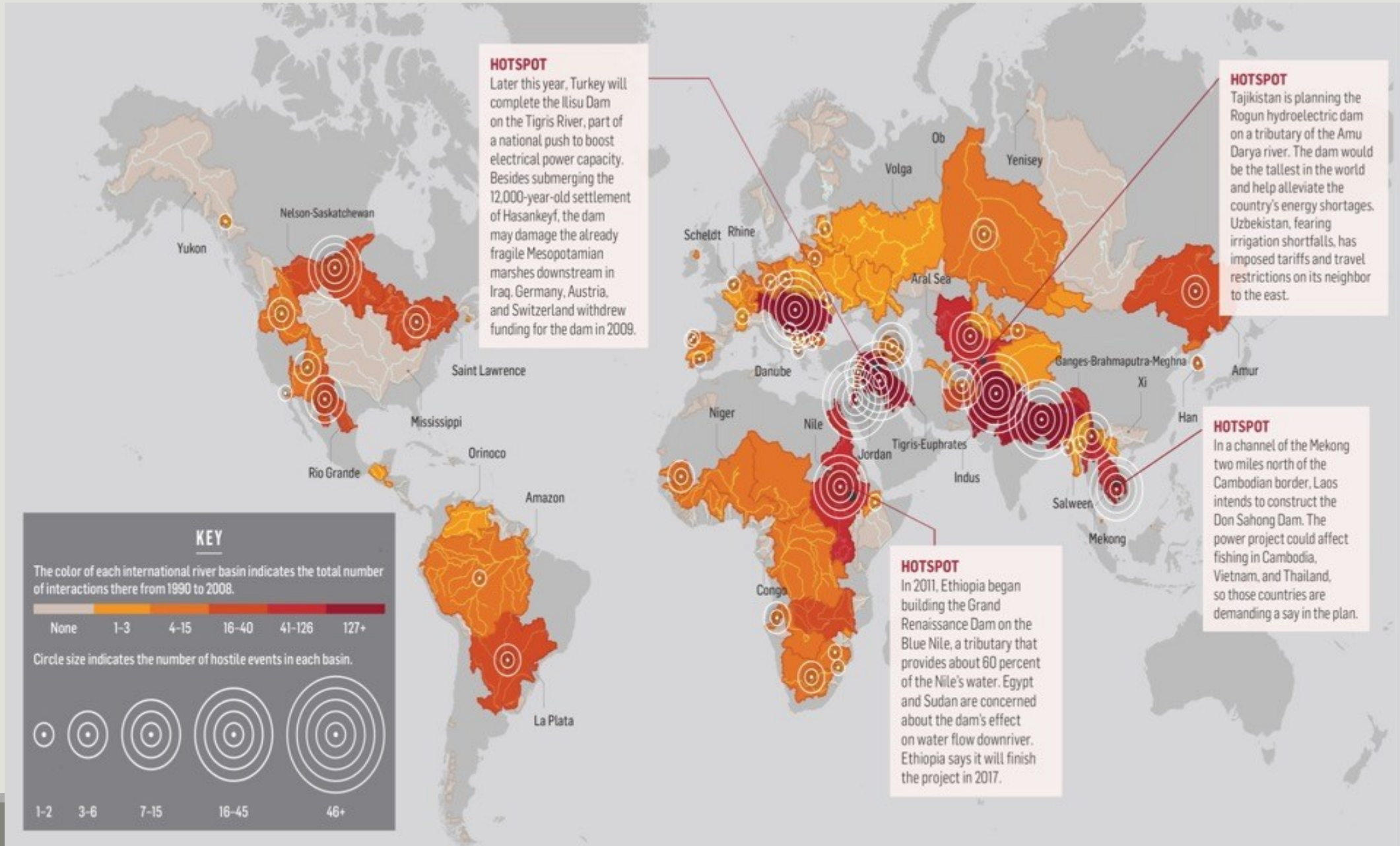
Rick N. Myskey, Jr.

July 12, 2016

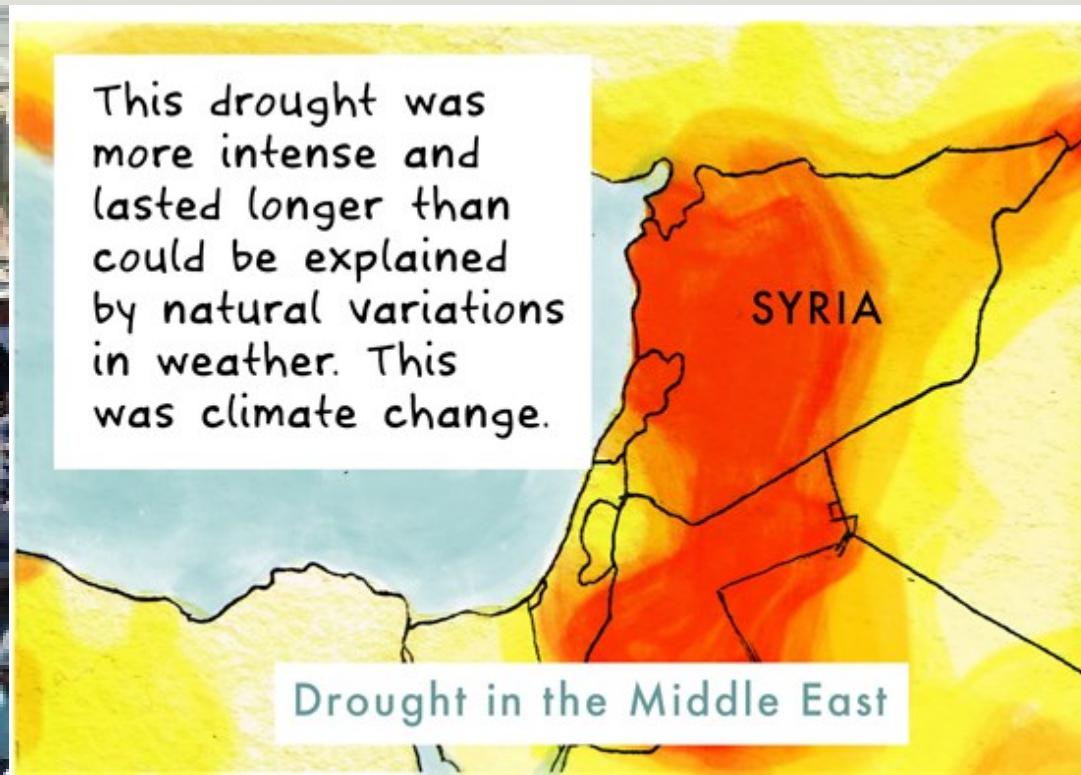
Agenda:

1. Why Water Security for United States DoD
2. Intro to DIPSR Systems Thinking
3. The future need for Global Security

DoD Worldwide Water Security Challenge



Why Water Security for United States DoD



Nearly 85% of livestock died.

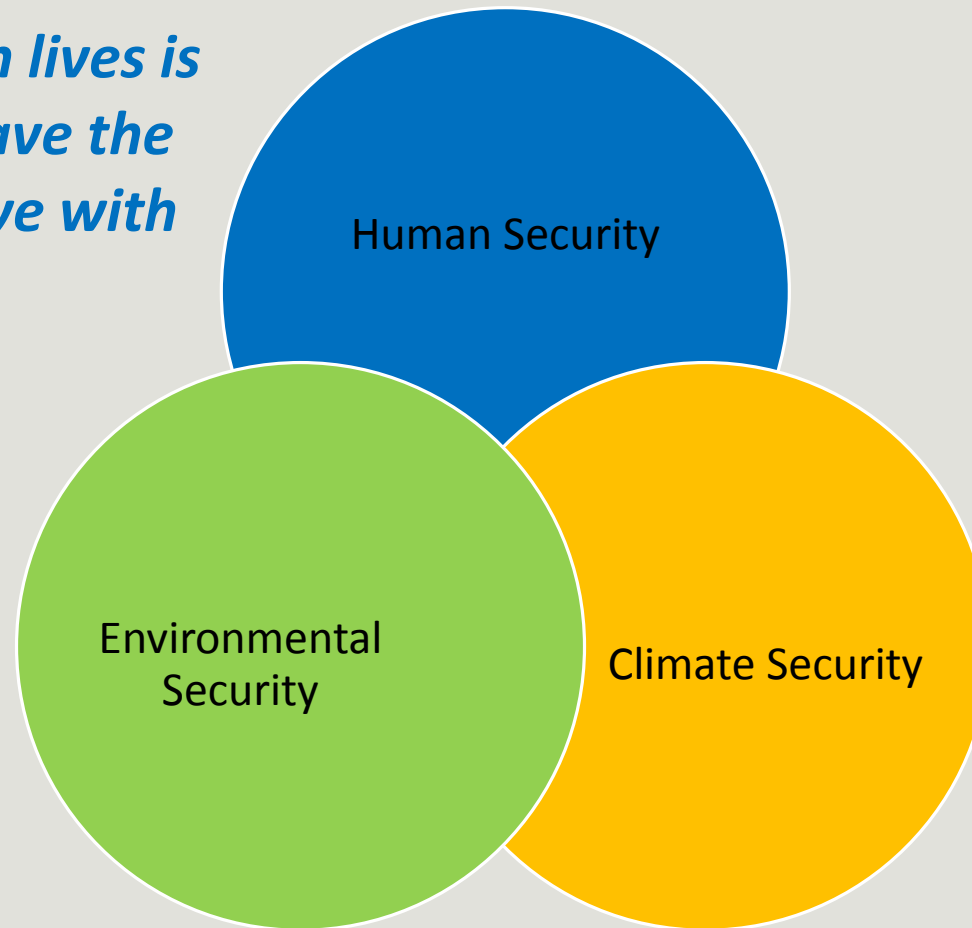


<http://yearsoflivingdangerously.tumblr.com/post/86898140738/this-comic-was-produced-in-partnership-by-years-of>
<http://www.motherjones.com/politics/2014/05/syria-climate-years-living-dangerously-symbolia>

Security Nexus

Human Security is a condition that exists when *the vital core of human lives is protected*, and when *people have the freedom and capacity to live with dignity*.

Environmental Security is a process where *solutions to environmental problems contribute to national security objectives* (Environmental Protection Agency, 1995) of *increasing stability and decreasing instability*.



Climate Security concerns the *direct and indirect security implications of climate change*. By *placing strains on the infrastructure and resources* necessary for the viability of the nation-state system and the well-being of its populations, and by *physically changing the geostrategic environment*, climate change presents a risk to both national and international security.

Why Water Security for United States DoD



<http://yearsoflivingdangerously.tumblr.com/post/86898140738/this-comic-was-produced-in-partnership-by-years-of>

Why Water Security for United States DoD

- Support US Military Planning and Decision-making
 - Enhance understanding of regional water security
 - Provide visualization tools and analytical forecasting capabilities
 - Identify data and knowledge gaps
 - Introduce innovative methods to collect, process, analyze, visualize, and store large data structures related to Water Security.



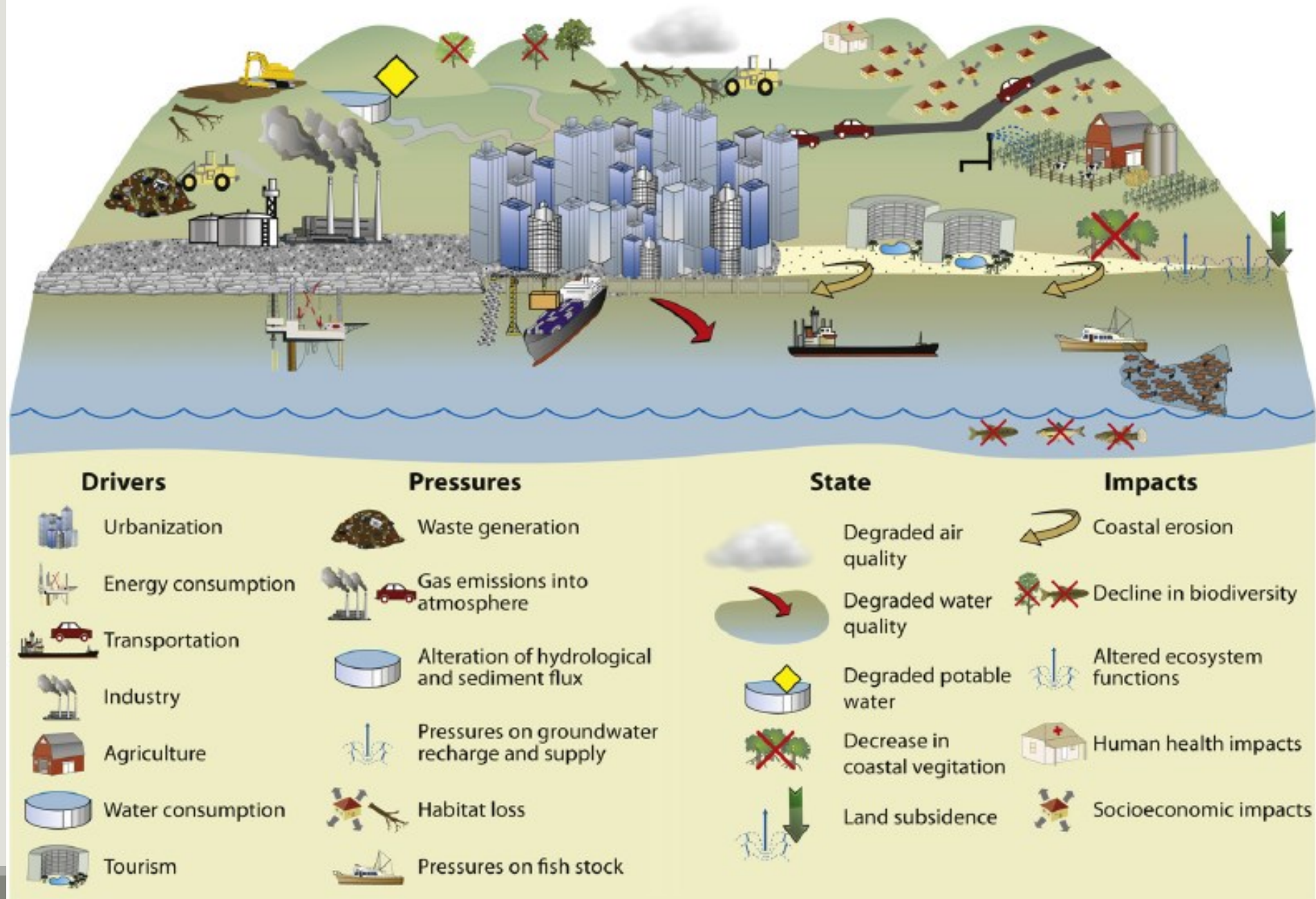
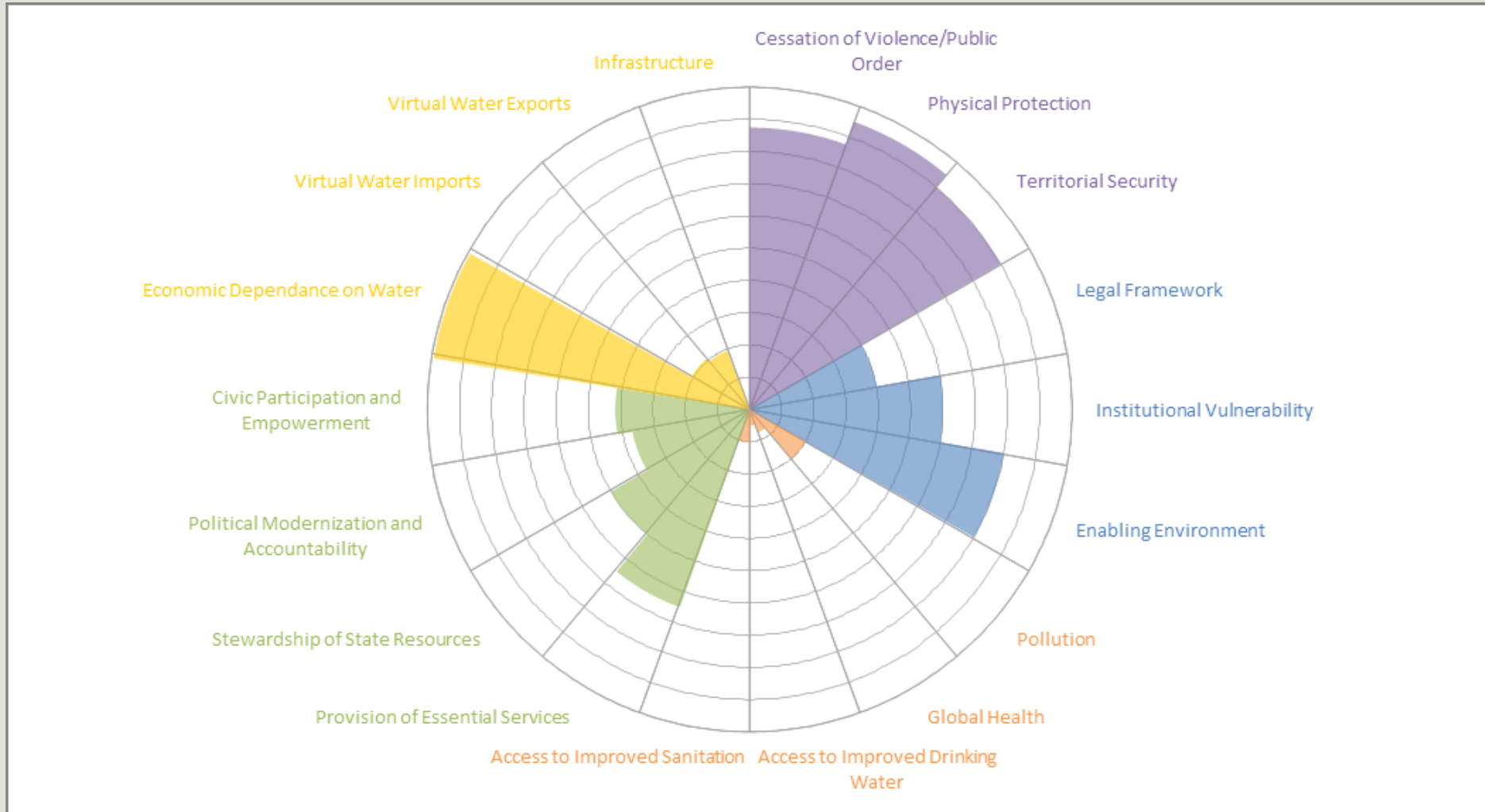


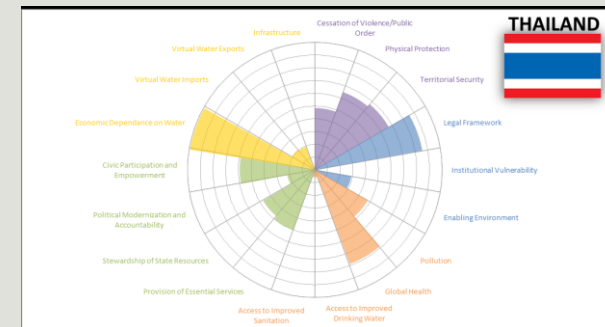
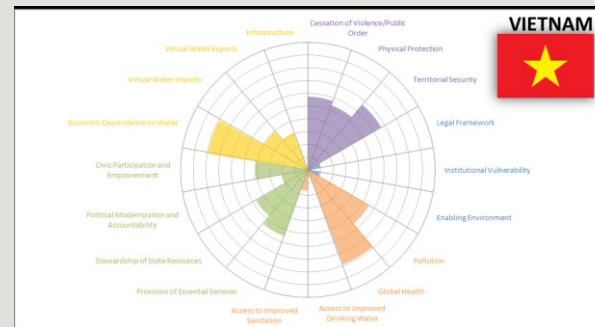
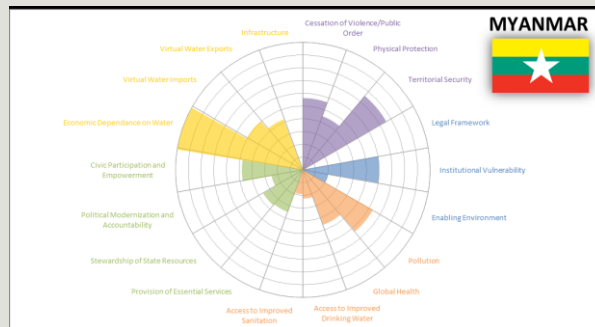
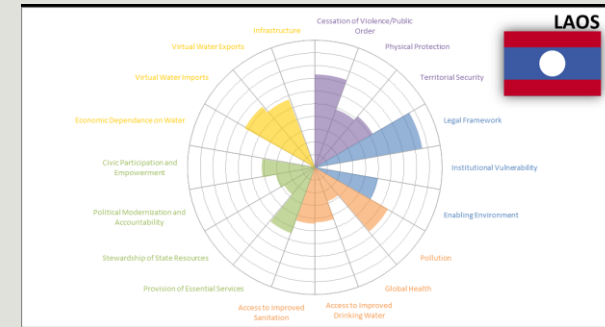
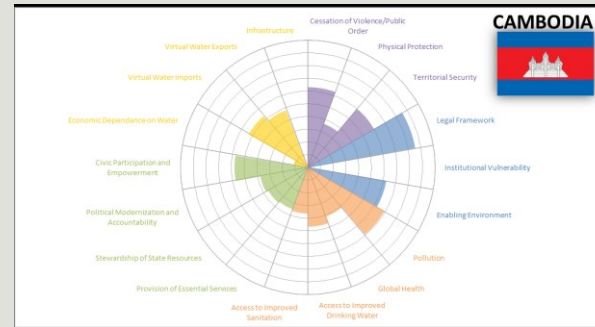
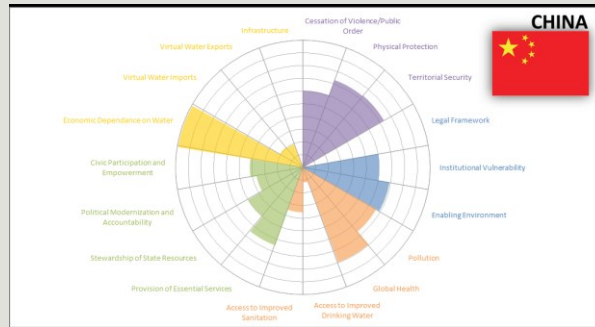
Fig. 3. Drivers, Pressures, State and Impacts regarding megacities in the coastal zone.

Visualize Findings



Visualize Findings

Stability End State Conditions





US Army Corps of Engineers
BUILDING STRONG.

Questions?

Thank you for joining us for this webinar on Exploring Climate Dynamics Models in XMILE (XMILE series details: xmile.systemdynamics.org).

Videos are available at www.youtube.com/user/XMILEtc.

Please join us for the first hackathon to develop open source climate dynamics models at the International System Dynamics Conference in Delft, Netherlands. Meeting times:

July 18, 12:30 pm to 2 pm: Aula Frans van Hasseltzaa

July 19, 12:30 pm to 2 pm: Aula Frans van Hasseltzaa

July 20, 12:30 pm to 2 pm: Aula Frans van Hasseltzaa

Please also join our meetup group to join us and learn about future meetings:

<http://www.meetup.com/Climate-Data-Meetup/>

