Session 11 - Interdisciplinary and Climate Research on Resilience

Thursday 4 June 2020 Part 1. 11:00-12:30 EDT

#	Time	Speaker	Submitter Affiliation	Abstract Title
1	11:00	Gordon McBean	Western University	Session Introduction
2	11:05	Francis Zwiers	Pacific Climate Impacts Consortium	Extremes in the future climate
3	11:30	Dawn Martin-Hill	McMaster University	Ohneganous: Water as the first environment
4	11:45	Charles Lin	Retired Scientist	Climate Change, Energy, and Net Zero: A Canadian Perspective
5	12:00	Dale Beugin	VP, Canadian Institute for Climate Choices	Estimating the Costs of Climate Change for Canada
6	12:15	Natalie Carter	University of Ottawa	Collaborative survey development and training to understand Inuit uses and needs for weather, water, ice and climate information

Session Chair: Gordon McBean, Western University and ICLR

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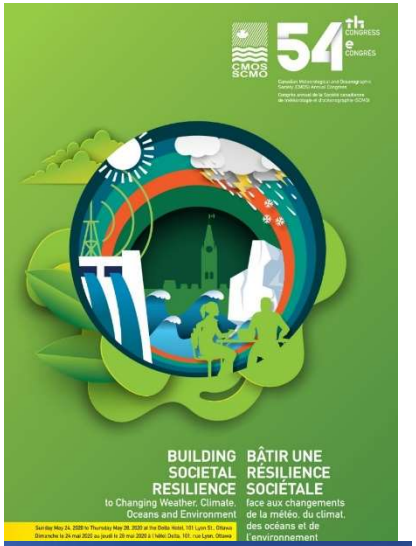
SAVE THE EARTH



Session 11 - Interdisciplinary and Climate Research on Resilience

Thursday 4 June 2020 Part 2. 13:00-14:30 EDT

#	Time	Speaker	Submitter Affiliation	Abstract Title
1	13:00	Roger Pulwarty	Senior Scientist, NOAA Physical Sciences Laboratory	Going to extremes: from risk to resilience
2	13:25	Paul Kovacs	Executive Director, Institute for Catastrophic Loss Reduction	Using science to build resilient Communities
3	13:45	Anna Deptuch-Stapf	Climate Historical Archives, Monitoring and Data Services Directorate, ECCC	Canadian National Climate Archive - Ensuring Reliable Historical Records Preservation
4	14:00	Renee Sieber	Associate Professor, Department of Geography. McGill University	Communicating Winter Storms via Natural Language Processing of Social Media
5	14:15	Paul Godin	Postdoctoral Fellow, Technologies for Exo-Planetary Science, York University	Collision-Induced Absorption of CH4-CO2 and H2-CO2 Complexes and Their Effect on the Ancient Martian Atmosphere

Session Chair: Gordon McBean, Western University and ICLR

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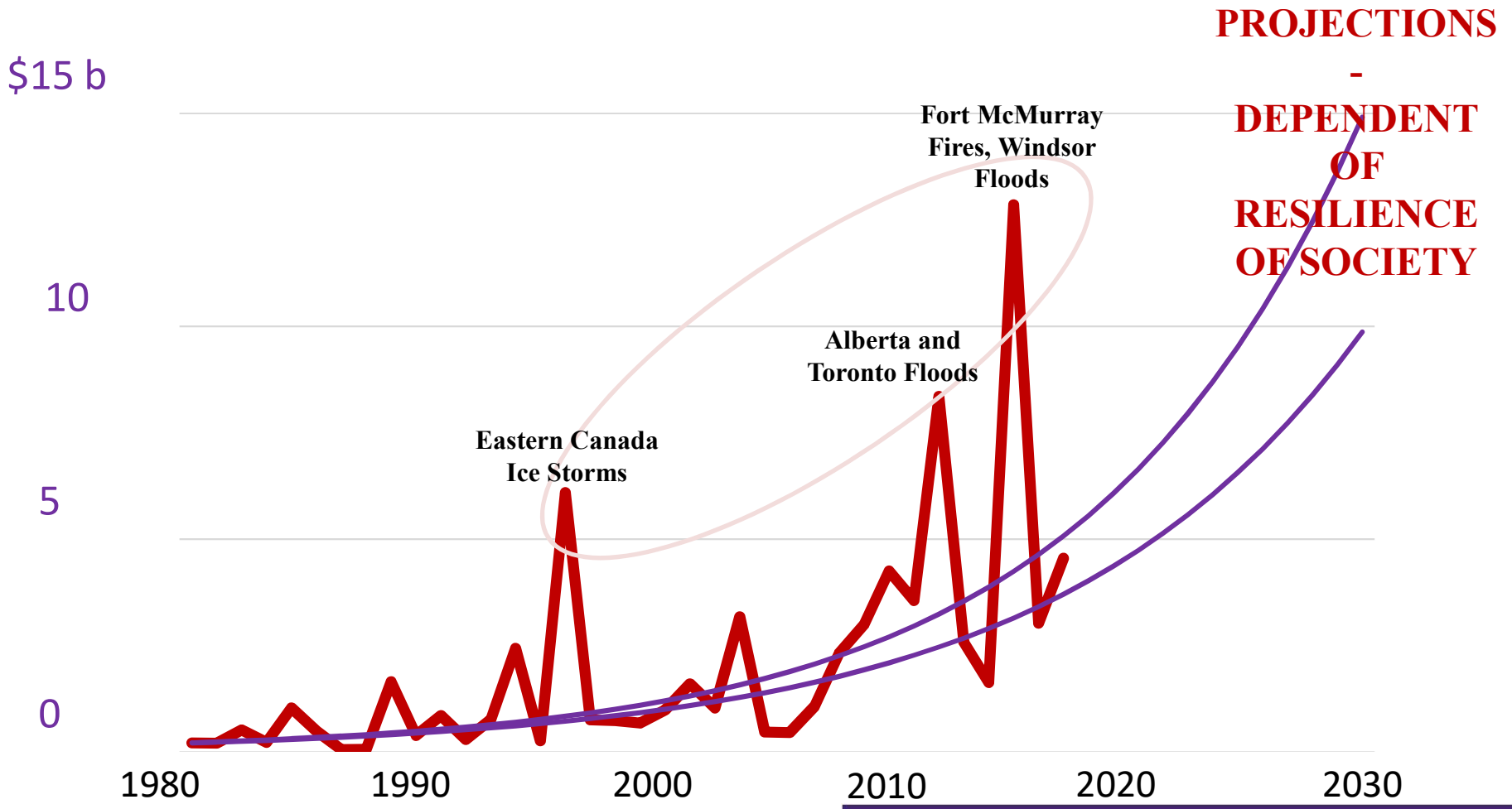
SAVE THE EARTH

Direct damage trends in Canada

Estimated annual direct physical damage, billions of dollars, adjusted for inflation



Source: Institute for Catastrophic Loss Reduction

Western Institute for Catastrophic Loss Reduction (ICLR)

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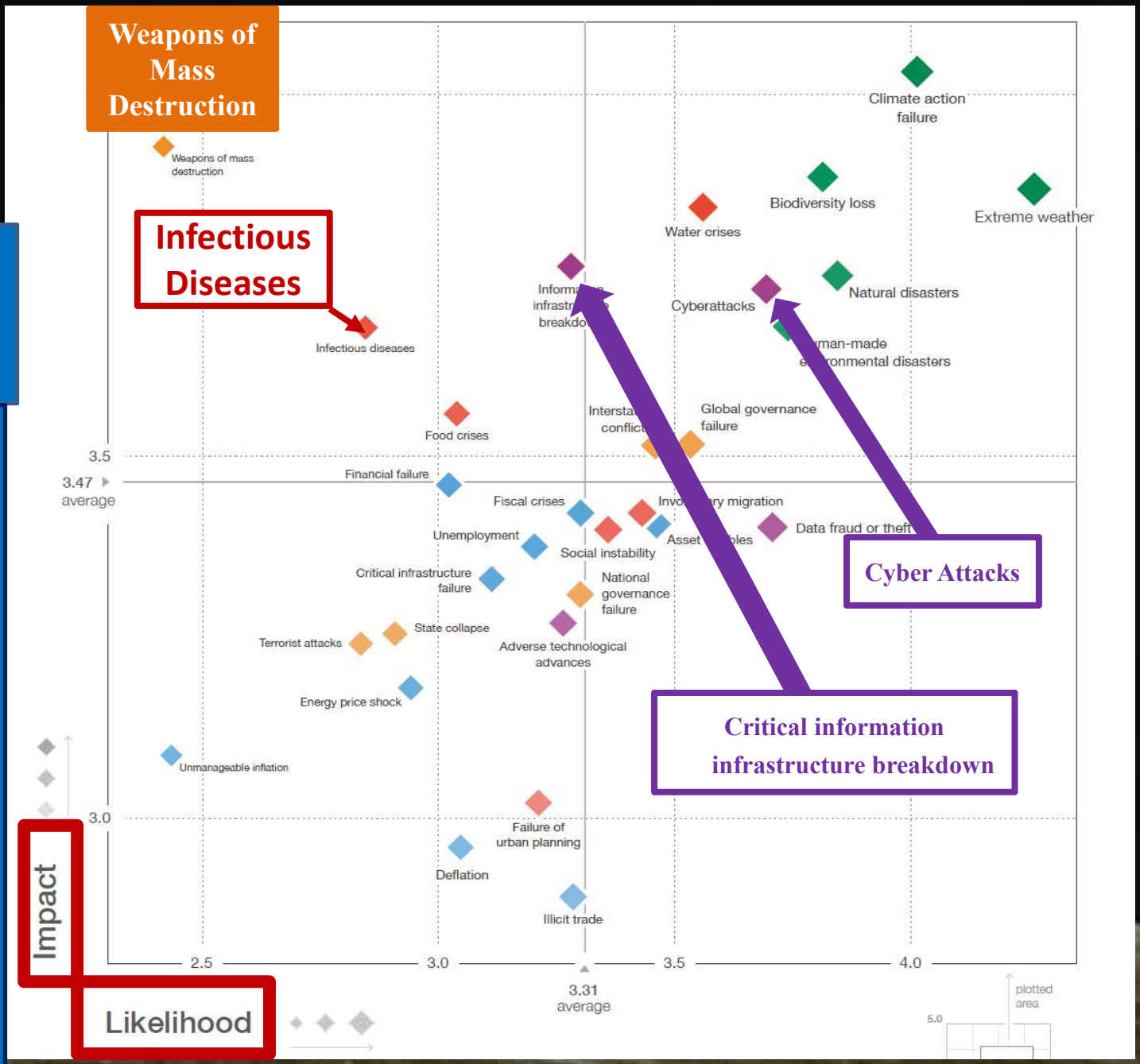
Global Risks Report 2020

A GLOBAL RISK …event or condition that, if it occurs, can cause significant negative impact for several countries or industries within the NEXT 10 YEARS.



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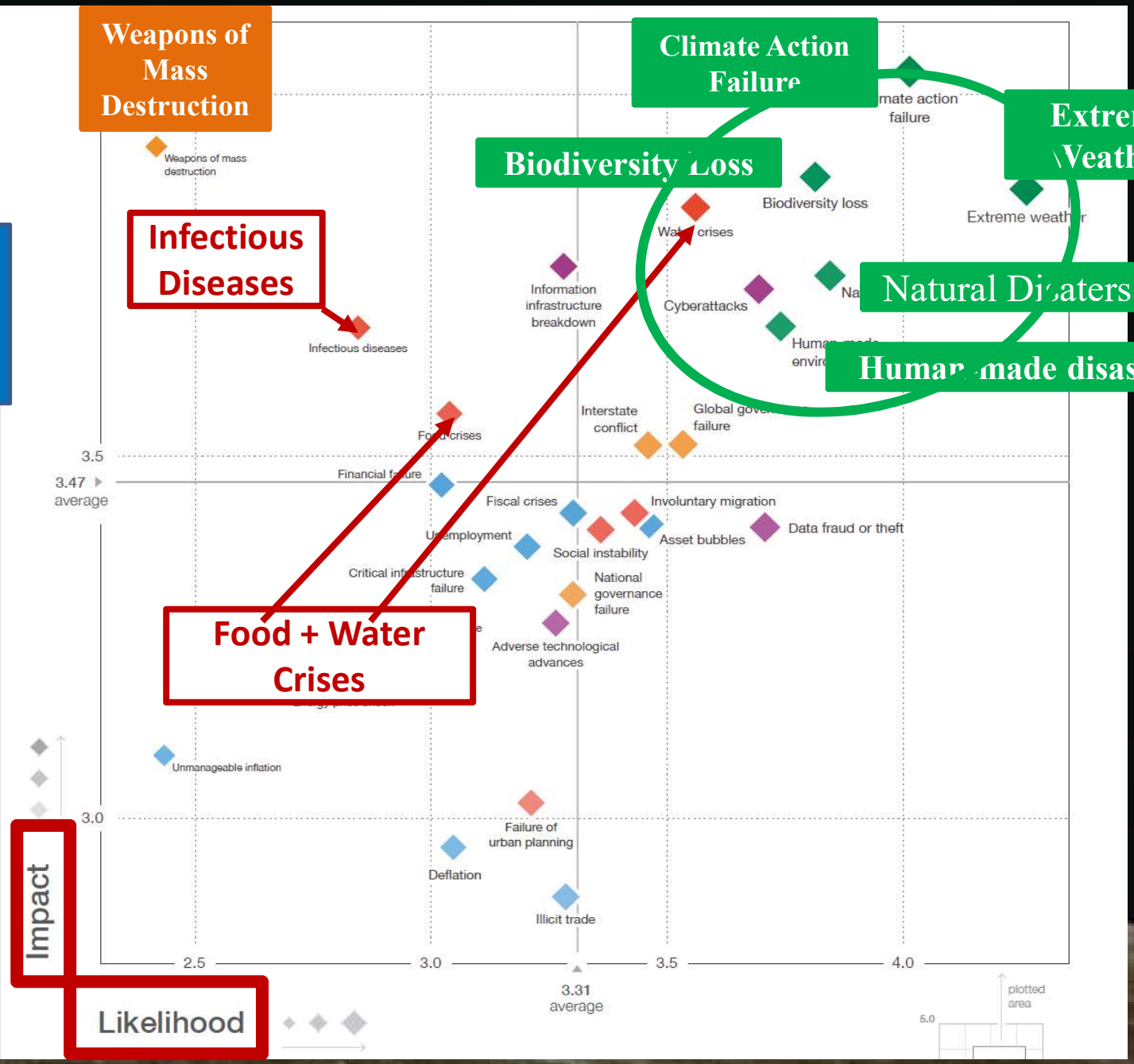

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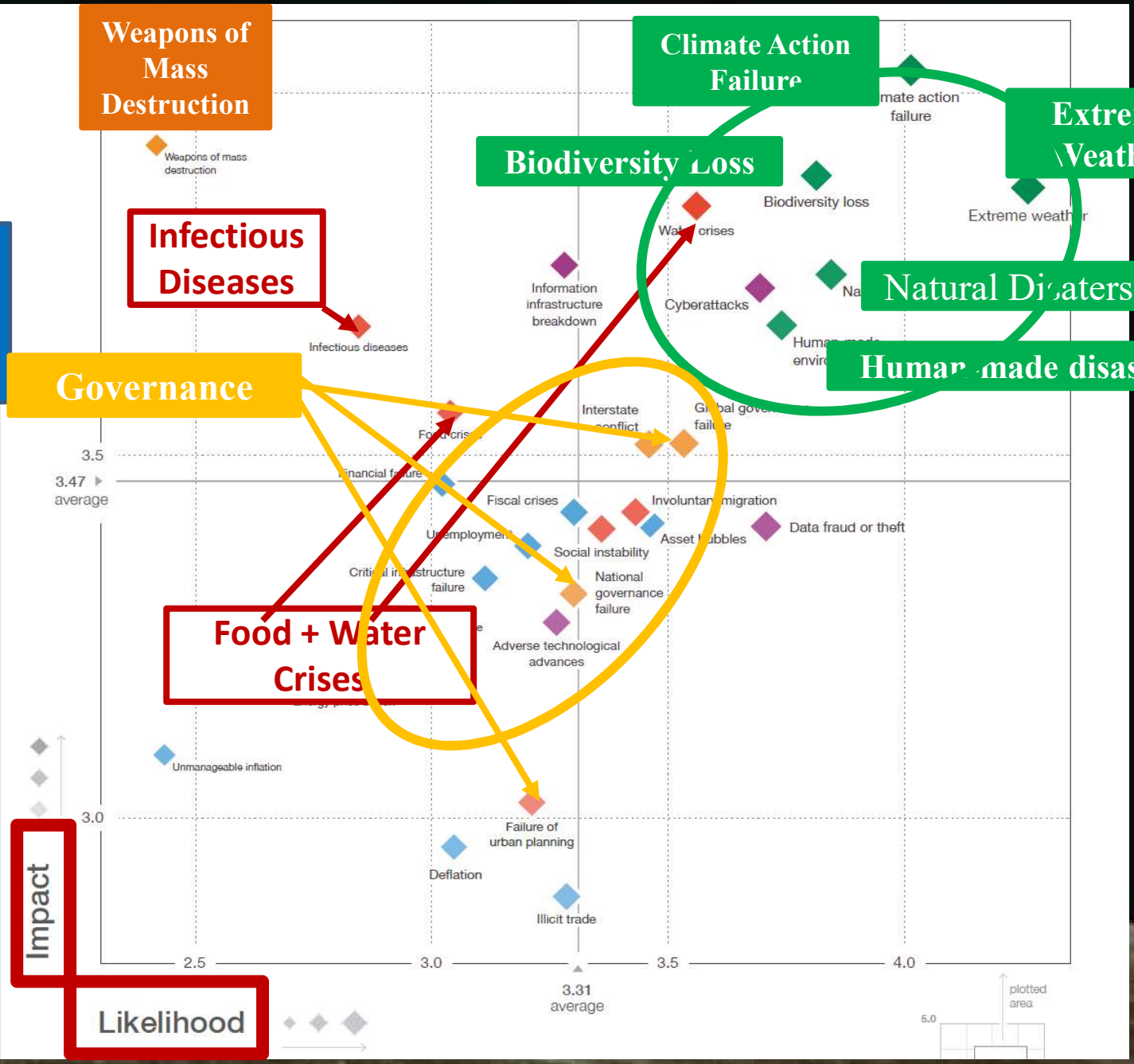

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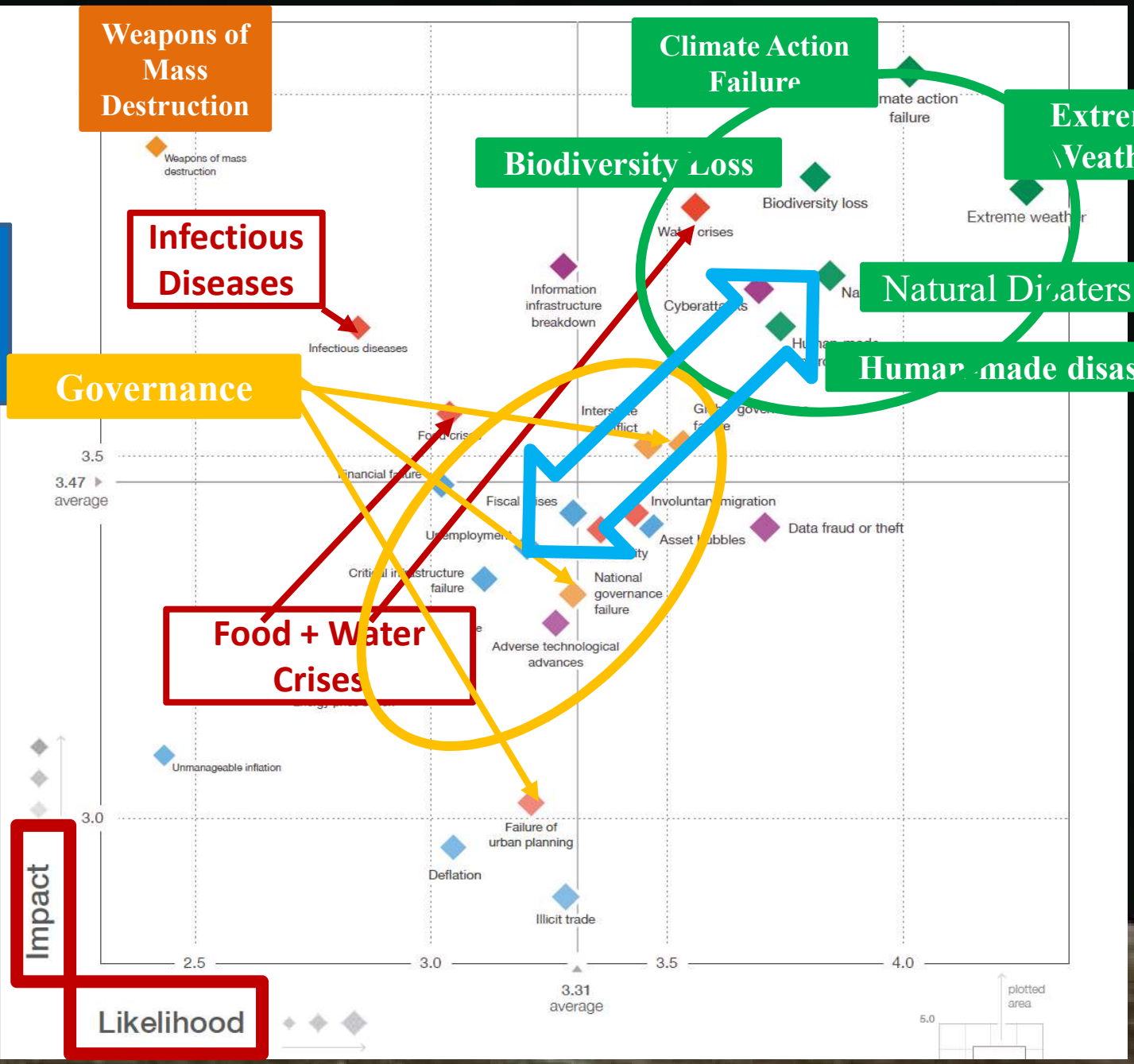
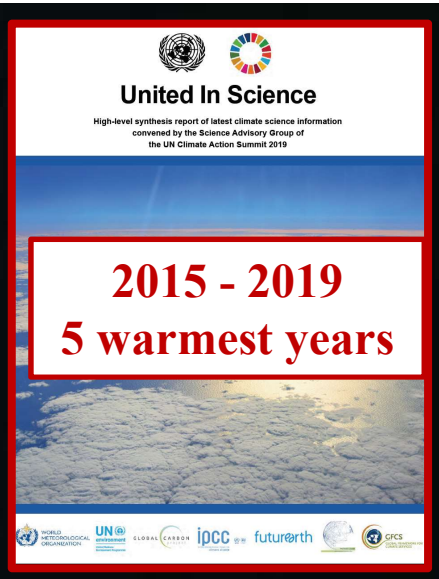




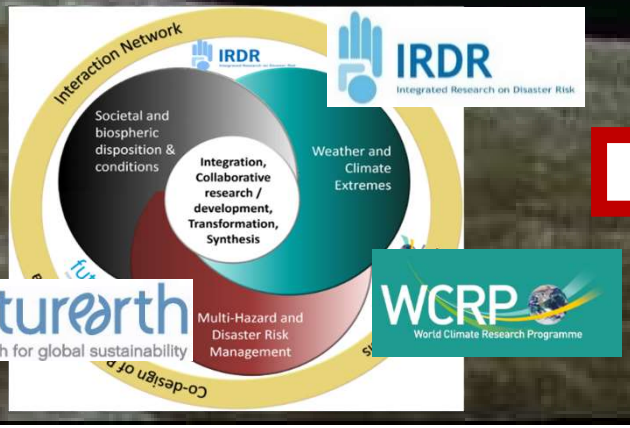
António Guterres, United Nations Secretary-General

CLIMATE CHANGE IS THE DEFINING CHALLENGE OF OUR TIME.

UN Climate Action Summit 2019

- **Finance: for decarbonization to advance resilience;**
- **Cities and Local Action: Advancing mitigation and resilience at urban and local levels; … resilience for the urban poor and all of society;**
- **Resilience and Adaptation: advancing global efforts to address and manage the impacts and risks of climate change**

Risk KAN *Knowledge Action Network on* **Emergent Risks and Extreme Events**



IRDR Integrated Research on Disaster Risk

futureearth research for global sustainability

WCRP World Climate Research Programme

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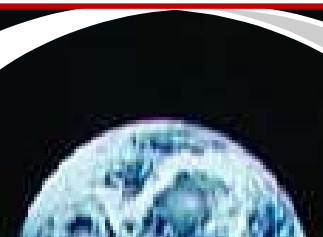
Science

PARIS2015 UN CLIMATE CHANGE CONFERENCE COP21·CMP11



UN World Conference on Disaster Risk Reduction 2015 Sendai Japan

SENDAI Disaster Risk Reduction

Interdisciplinary and Climate Research on Resilience

Resilience and Adaptation: advancing global efforts to address and manage the impacts and risks of climate change, particularly in those communities and nations most vulnerable.

Interdisciplinary and Climate Research on Resilience

Resilience and Adaptation: advancing global efforts to address and manage the impacts and risks of climate change, particularly in those communities and nations most vulnerable.

Zwiers – extremes
Martin-Hill – water environment
Lin – energy, net zero
Beugin – climate costs
Carter - Inuit uses and needs

Pulwarty - risk to resilience
Kovacs - resilient communities
Deptuch-Stapf – climate data
Sieber – communicating storms
Godin – climate science

Interdisciplinary and Climate Research on Resilience for ACTION

Covid-19 – Build Back Better

- Sendai Framework
- Sustainable Development
- Climate Convention