

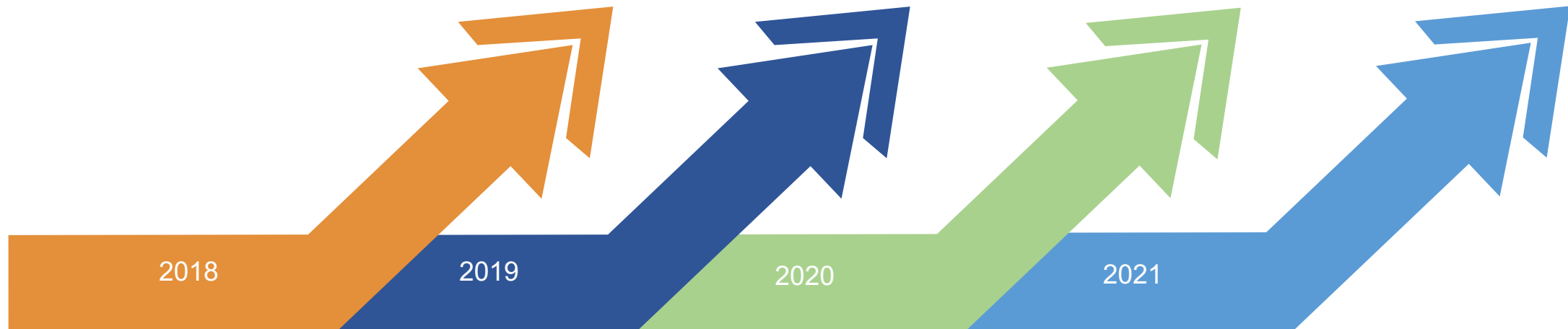
# In service of convergence

Building a multi-disciplinary community of  
cybernorms practitioners

**June 9<sup>th</sup>, 2022**

Rightscon Community Lab

# Cybersecurity in the BPFs



## BPF on Cybersecurity

- Culture, Norms and Values.
- Norms development mechanisms

## BPF on Cybersecurity

- Identify Best Practices regarding norms operationalization
- Analyse international and cross-stakeholder agreements for commonalities

## BPF on Cybersecurity

- What can we learn from normative principles in global governance?
- Exploring Best Practices in relation to international cybersecurity agreements

## BPF on Cybersecurity

- Understand drivers between normative agreements, and how norms would have been useful during real-life, historical security incidents.



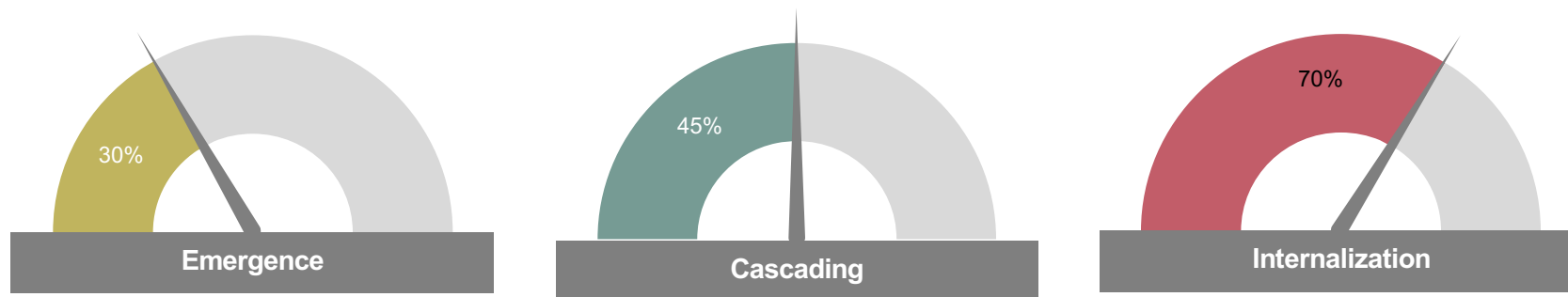
# Cyber norms





# Cyber norms

- “*Collective expectation for the proper behavior of actors with a given identity*”, Katzenstein (1996)
- Identified by those who perceive a need, or when contested
- Require time to develop



# Where do they originate

<b>Stakeholder group</b>	<b>Example norms creating body or normative text</b>
<b>Government</b>	UN Government Group of Experts, Freedom Online Coalition
<b>Civil Society</b>	Manila Principles (EFF et al)
<b>Technical Community</b>	Internet Society (Mutually Agreed Norms for Routing Security)
<b>Private Sector</b>	Microsoft
<b>Multi-stakeholder</b>	Global Commission on the Stability of Cyberspace

# Examples of cyber norms

Proposer	Language	Affected party
<b>UNGGE</b>	<i>States should not conduct or knowingly support activity to harm the information systems of another state's security incident response teams and should not use their own teams for malicious international activity;</i>	States
<b>GCSC</b>	<i>State and non-state actors should not pursue, support or allow cyber operations intended to disrupt the technical infrastructure essential to elections, referenda or plebiscites</i>	Everyone
<b>Microsoft</b>	<i>Global ICT Companies should issue patches to protect ICT users, regardless of the attacker and their motives</i>	Global ICT companies

# 2022 Workstreams



## Agreements

**Lead:** John Hering and  
Pablo Hinojosa

Publication of research  
paper assessing 36  
normative documents.



## Events

**Lead:** Mallory Knodel

How would specific norms  
have been effective at  
mitigating adverse  
cybersecurity events?



## Outreach

**Lead:** Sheetal Kumar and  
Markus Kummer

Identified and engaged new  
stakeholders into the BPF  
on Cybersecurity  
community.

# Workstream 1: Approach and learnings

## **Analytical approach:**

- Identified 36 agreements that met our core criteria
- Classified into multilateral, single-stakeholder and multistakeholder
- Identified trends and shared priorities

## **Key learnings:**

- Identified cooperation and human rights as core themes, with human rights a growing portion over 2020
- Least common was "restraint" in development of cyber capabilities
- Published a detailed analysis of 36 agreements



# Workstream 1: Scoping and agreements

36 international agreements between or among stakeholders including voluntary, nonbinding cybersecurity norms

1	Draft EAC legal framework for cyberlaws	13	NATO Cyber Defence Pledge	25	The Council to Secure the Digital Economy International Anti-Botnet guide
2	Shanghai Cooperation Organization's Agreement on cooperation in the field of ensuring the international information security	14	OSCE Confidence Building Measures (2013 and 2016)	26	ASEAN-United States Leaders' Statement on Cybersecurity Cooperation
3	League of Arab States Convention on Combating Information Technology Offences	15	The Freedom Online Coalition's Recommendations for Human Rights Based Approaches to Cyber security	27	DNS Abuse Framework
4	Convention on International Information Security	16	ITU-T WTSA Resolution 50 -Cybersecurity	28	Contract for the Web
5	APEC Guidelines for Creating Voluntary Cyber Security ISP Codes of Practice	17	Charter for the Digitally Connected World	29	Ethics for Incident Response and Security Teams (EthicsFIRST)
6	ASEAN Regional Forum Work Plan on Security of and in the Use of Information and Communications Technologies (ICTs)	18	G7 declaration on responsible state behaviour in cyberspace	30	GCSC's Six Critical Norms
7	Southern African Development Community (SADC) Model Law	19	Joint Communication to the European Parliament and the Council Resilience, Deterrence and Defence: Building strong cybersecurity for the EU	31	FOC Joint Statement on the Human Rights Impact of Cybersecurity Laws, Practices and Policies
8	African Union Convention on Cyber Security and Personal Data Protection	20	Charlevoix Commitment on Defending Democracy from Foreign Threats	32	Organization of American States List of Confidence- and Security-Building Measures (CSBMS), Committee on Hemispheric Security
9	Digital Security Risk Management for Economic and Social Prosperity OECD Recommendation and Companion Document	21	Commonwealth Cyber Declaration	33	XII BRICS Summit Moscow Declaration
10	G20 Leaders Communique	22	The Paris Call for Trust and Security in Cyberspace	34	OEWG Consensus Report (2021)
11	International code of conduct for information security	23	Siemens Charter of Trust	35	Report of the Group of Governmental Experts on Advancing responsible State behaviour in cyberspace in the context of international security
12	Group of Governmental Experts on Developments in the Field of Information and Telecommunications in the Context of International Security (2015)	24	Cybersecurity Tech Accord	36	Mutually Agreed Norms for Routing Security

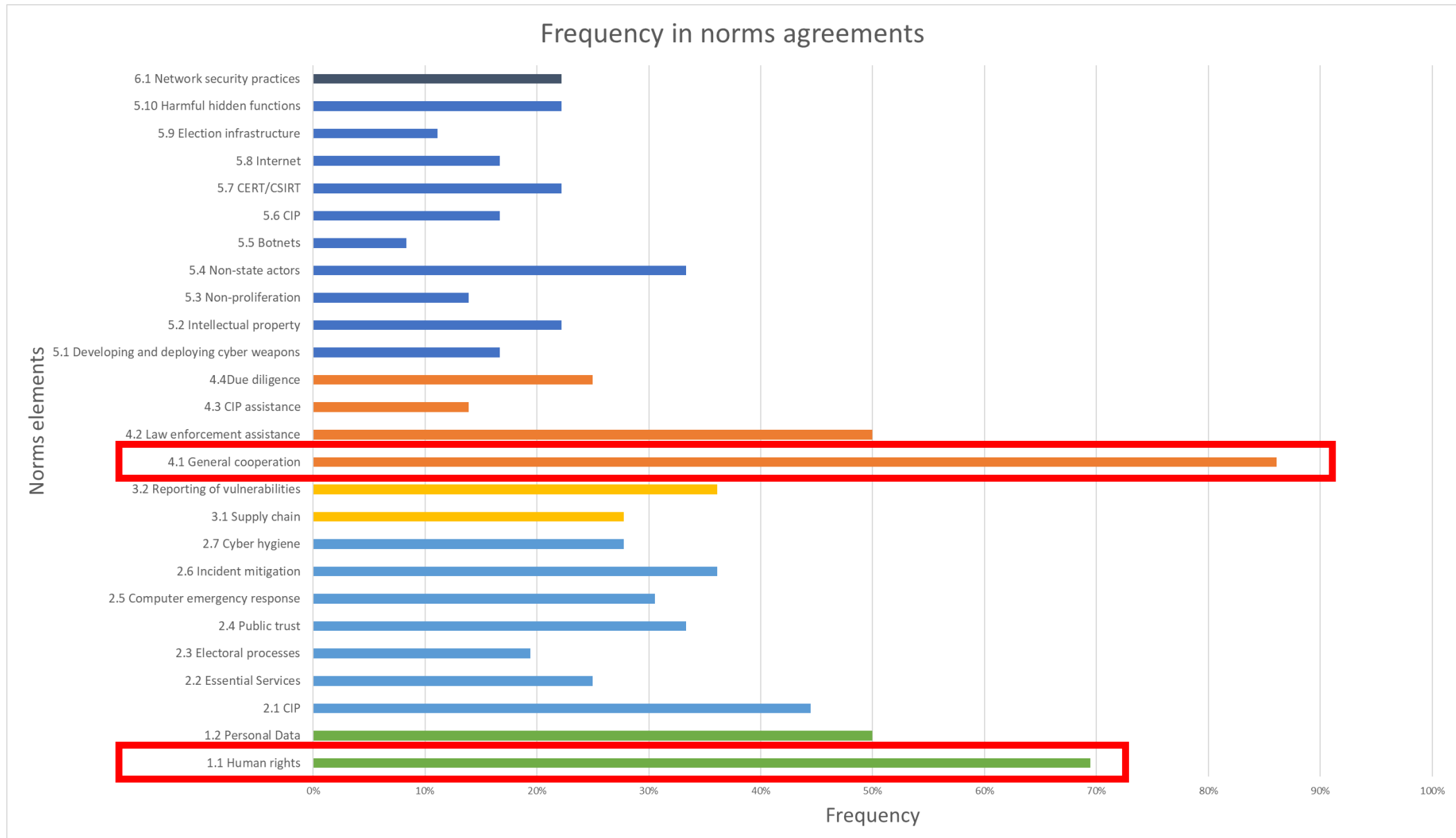
# Workstream 1: Norm elements

<b>1. Rights and freedoms+A1:B26</b>	1.1 Human rights
	1.2 Personal Data
<b>2. Information Security and resilience</b>	2.1 CIP
	2.2 Essential Services
	2.3 Electoral processes
	2.4 Public trust
	2.5 Computer emergency response
	2.6 Incident mitigation
	2.7 Cyber hygiene
<b>3. Reliability of products</b>	3.1 Supply chain
	3.2 vulnerability reporting
<b>4. Cooperation and assistance</b>	4.1 General cooperation
	4.2 Law enforcement assistance
	4.3 CIP assistance
	4.4 Due diligence

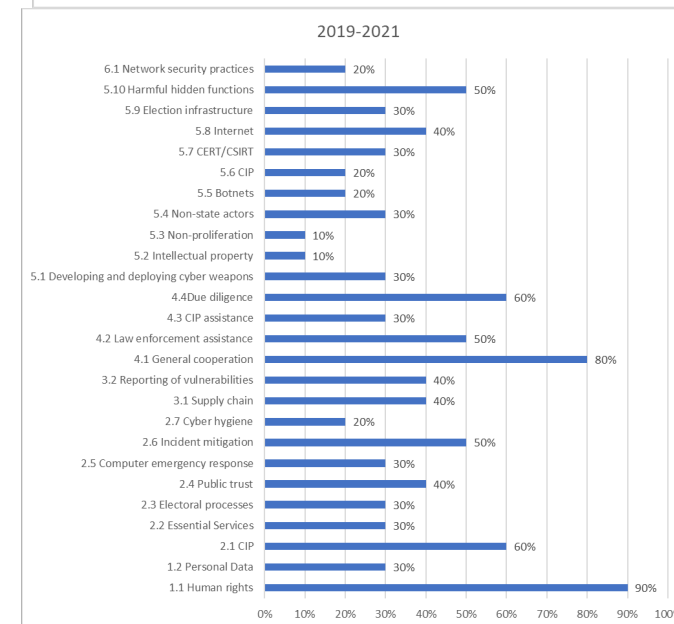
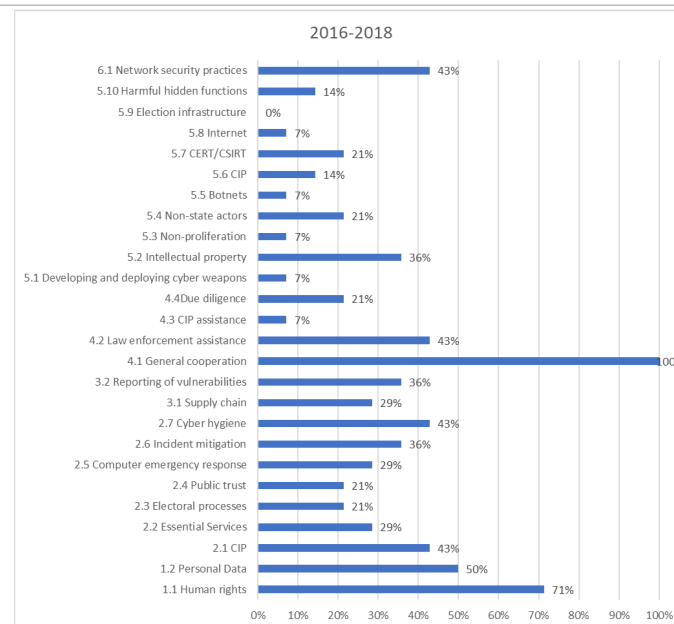
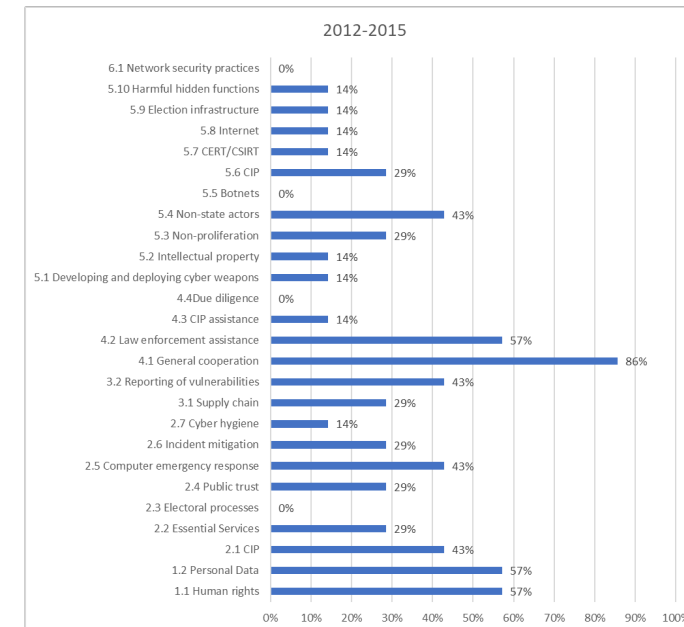
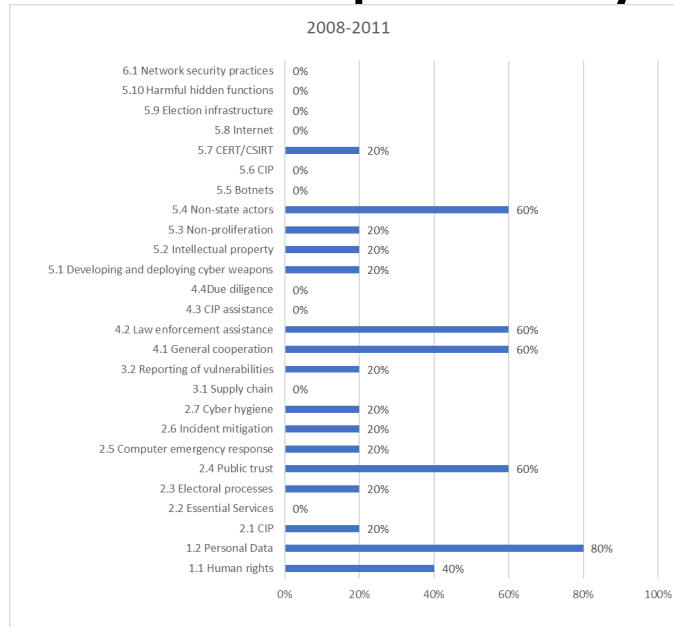
<b>5. Restraint on development and use of cyber capabilities</b>	5.1 Developing and deploying cyber weapons
	5.2 Intellectual property
	5.3 Non-proliferation
	5.4 Non-state actors
	5.5 Botnets
	5.6 CIP
	5.7 CERT/CSIRT
	5.8 Internet
	5.9 Election infrastructure
	5.10 H functions
<b>6. Technical/Operational</b>	6.1 Network security practices



# Workstream 1: Frequency



# Workstream 1: Frequency over time





# Workstream 2: Approach and learnings

## **Analytical approach:**

- Identified criteria to select historical events (coverage by secondary and tertiary sources, demonstrable harm, successful mitigation)
- Analyzed events for influence of cybersecurity norms
- Expert contributor-led interviews with incident responders and victims

## **Key learnings:**

- Existing cyber norms would have helped mitigate many cybersecurity events from the past
- Each analysis uncovered a missing nuance: e.g. GhostNet showed that cyber resilience is really a community-level concern

# Workstream 2: Approach and learnings

## **Questions to ask**

- Describe the incident and your role.
- What do cyber norms mean to you?
- What cyber norms do you think apply in this case?
- What cyber norms do you think have been, or would have been, helpful in this case?
- What cyber norms did you, or might you hope to, see arising from this case?

# Events for discussion

- **Pegasus**
- Stuxnet
- **Solarwinds**
- Snowden disclosures
- **Ghostnet**
- Heartbleed
  
- **Do you have another example to share?**

# Thank you!

- **BPF on Cybersecurity conveners**
  - Markus Kummer
  - Hariniombonana Andriamampionona
- **UN Consultant:** Wim Degezelle
- Join the mailing list at [https://intgovforum.org/pipermail/bpf-cybersecurity\\_intgovforum.org/](https://intgovforum.org/pipermail/bpf-cybersecurity_intgovforum.org/)
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