

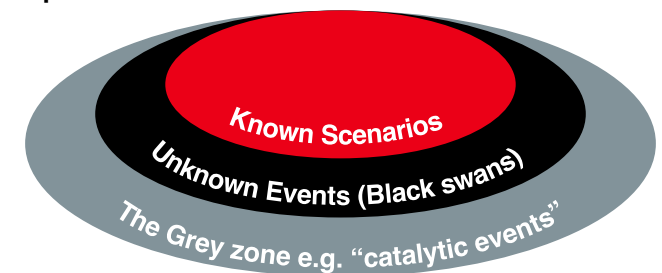
# Defining a Cyber Event

## Building Blocks of a definition & key questions

### All perils vs Named perils

- **All perils**
  - Challenge: How to distinguish between event and non-event (i.e. attritional and large non-cat claims), e.g.
    - Include losses from same “originating cause” (e.g. same vulnerability, delivery mechanism, point of failure)
    - Exclude attacks targeted at individual insureds
    - Exclude “campaigns” e.g. Ransomware as a service, ransomware gangs using same TTPs repeatedly
    - Implicitly, “black swans” are covered
- **Named perils**
  - Known scenarios / perils only e.g.
    - widespread malware
    - service provider outages
    - hardware or other “single point of failure” events
  - Black swans are excluded

Spectrum of events considered in Event Definitions



### “Temporal” aka time constraint

How will an event’s losses be aggregated over time?

- Time frame for claim notifications stemming from the event to be aggregated as an “event”
- Cyber incident responders suggest activity following a major event peaks in the first 6-8 weeks
- Would a 60-day loss notification window therefore be long enough to capture most losses?
- Start at date of first notification, or date of discovery?
- How to deal with “straggler” notifications, complex loss adjustments, latent losses e.g. 3<sup>rd</sup> party liability

# Defining a Cyber Event

## Grey areas to be explored

### Grey zone #1 : Mass vulnerabilities

Vulnerabilities with mass exploitation potential e.g. Log4J, MOVEit. How to deal with these?

- A vulnerability does not (necessarily) = an event
- Different malware strains may be developed by different threat actors, based on a single vulnerability.
  - Some may be used to carry out targeted attacks (might not be classed as an event), others may be used to carry out widespread events or ones aimed at a point of failure (clearly an event)
- There may be a short-term spike in separate targeted attacks until patch is available and applied
  - Are these claims grouped as one event?

One event definition includes all of the above within an “all perils” wording, in which these are described as “Catalytic Cyber Events”

### Grey zone #2: Partially automated attacks

E.g. Microsoft Exchange aka ProxyLogon

- Millions of backdoors (Webshells) automatically installed = non-targeted widespread attack (sounds like an event!), however financial loss only occurs after additional individually targeted cyber acts per victim: use backdoors later to look for sensitive data and carry out further attack (e.g. data exfiltration, ransomware)
- Can insurers (or their IT forensic service providers) even determine this in a short time-frame – IT forensic analysis required to understand nature of how each loss occurred