

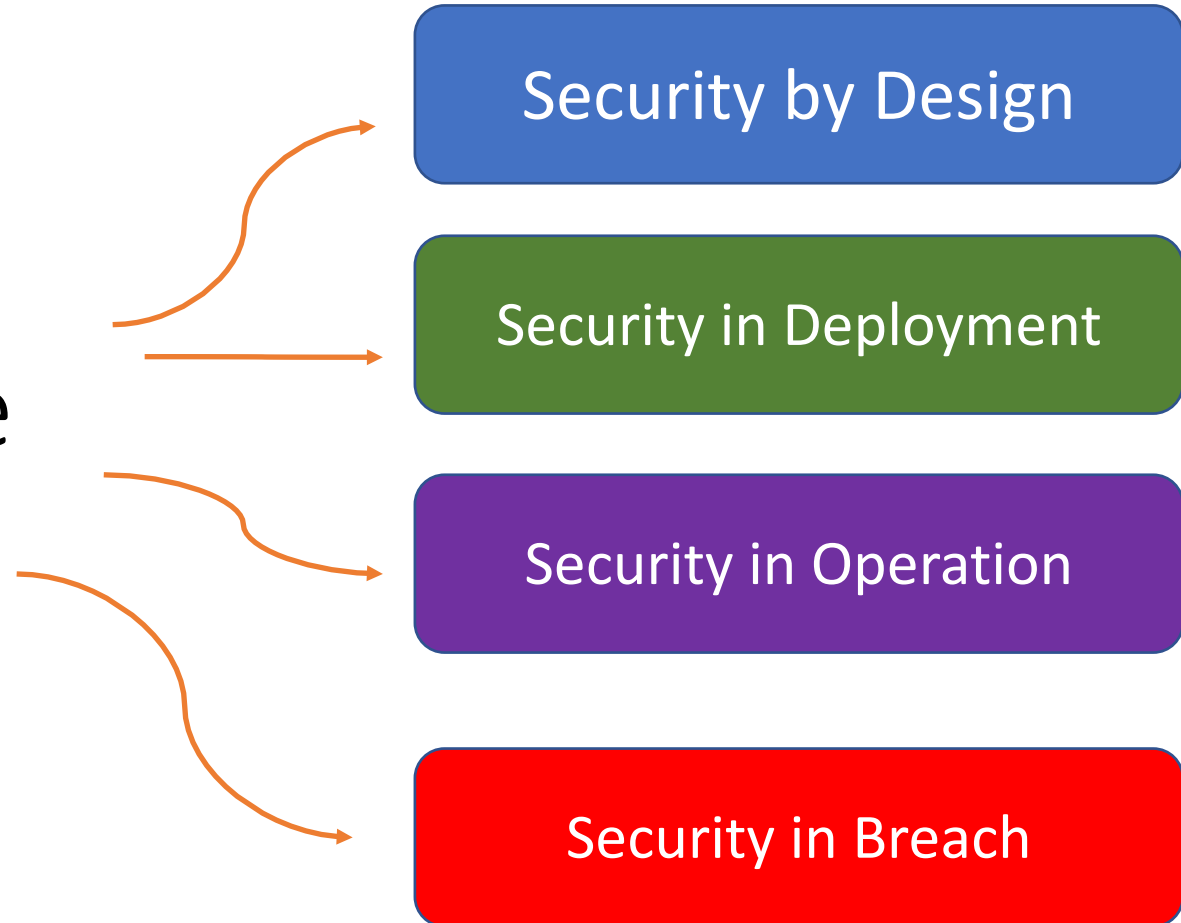
Security Incident Response Capabilities & CSIRTs

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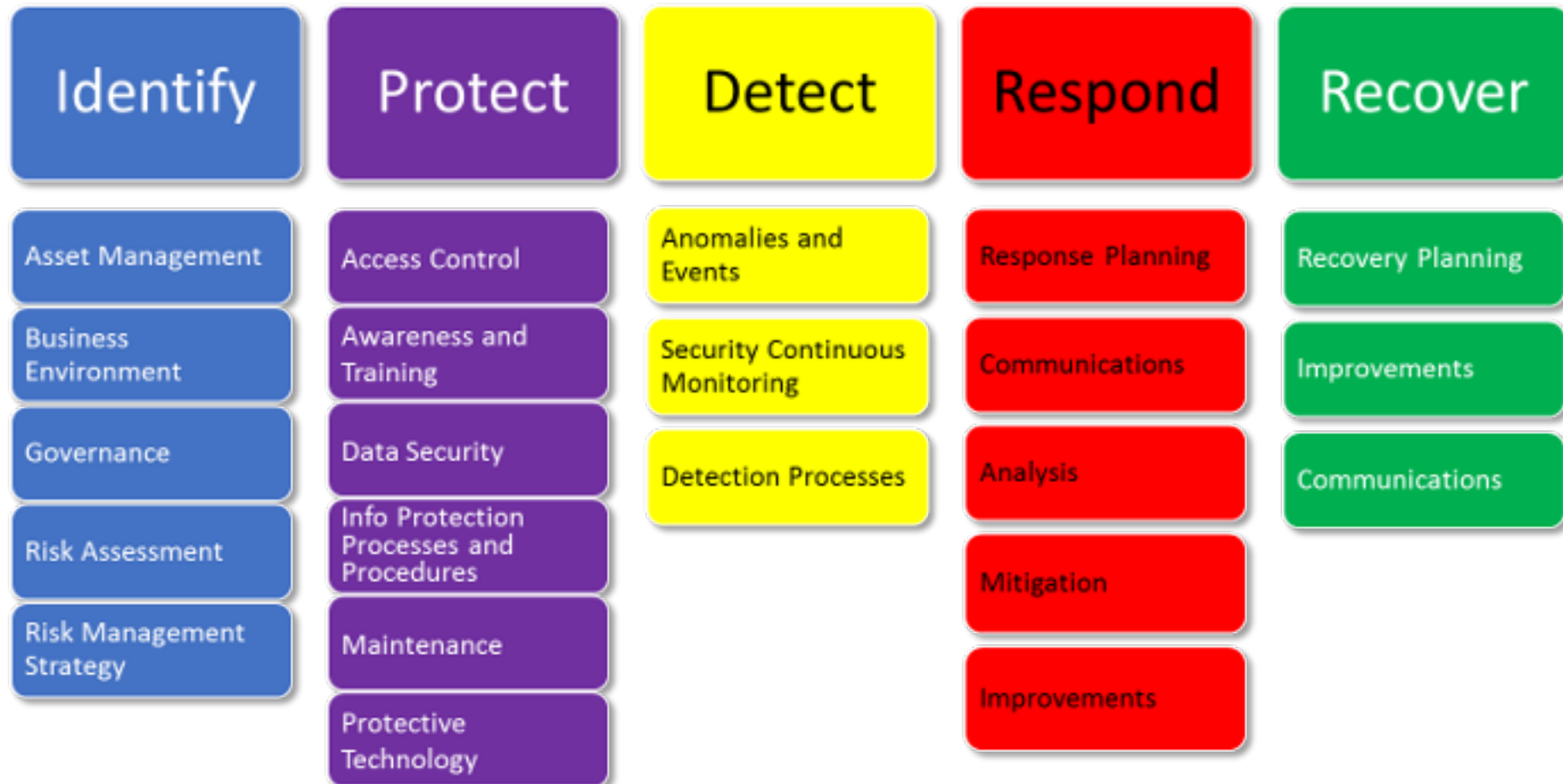
Adli Wahid

- Security Specialist @ APNIC
- Board Member @ FIRST.org
- Member of INTERPOL Cyber Crime Expert Group
- Let's Connect
 - Twitter: @adliwahid
 - LinkedIn: Adli Wahid
 - APNIC's Blog: <https://blog.apnic.net>

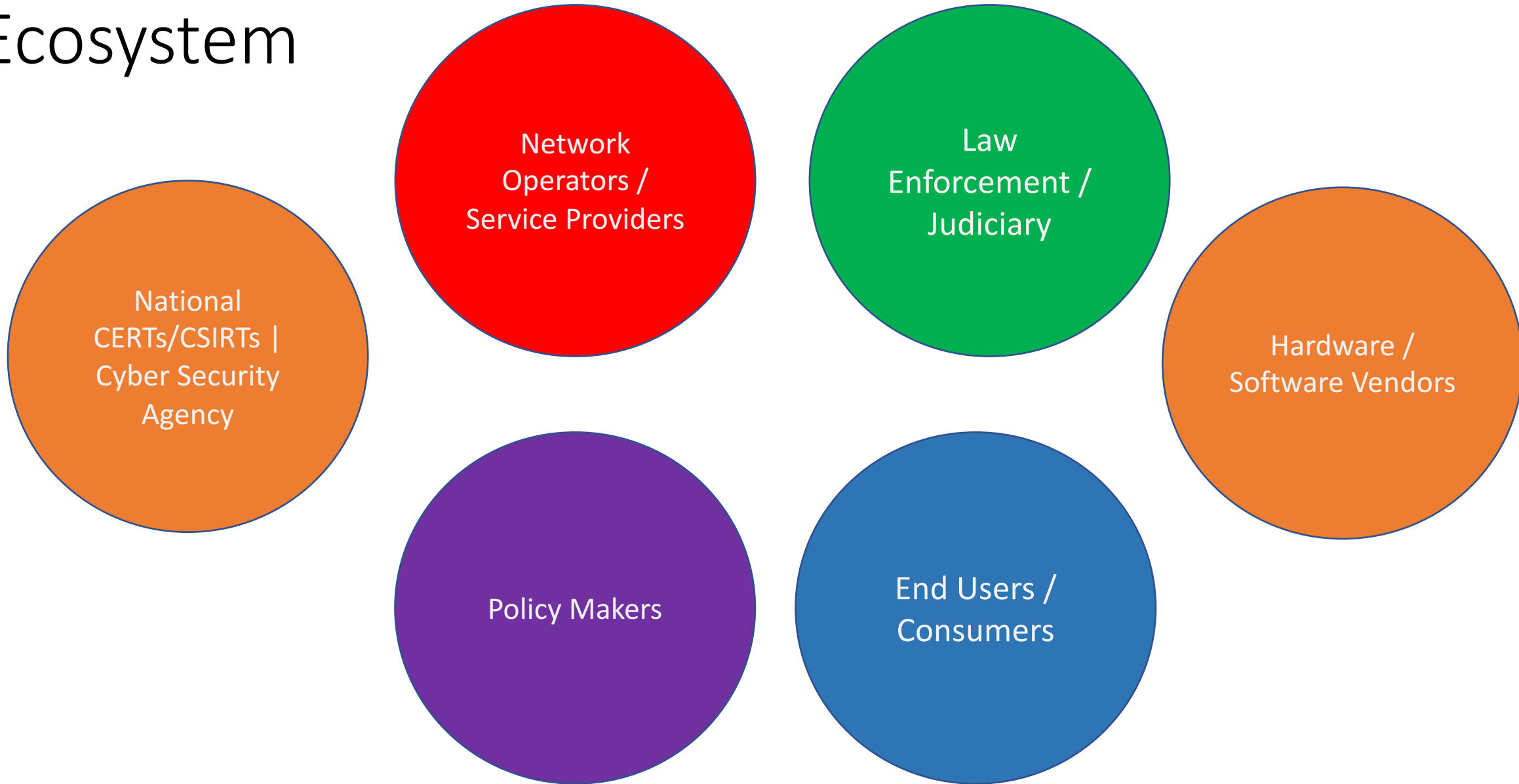
Security Resilience



NIST Cyber Security Framework



Ecosystem



Why?

1. Get notified
2. Reduce Impact of Security Incident
3. Understand the (root) cause
4. Do Something About It

Get Notified

- How can other CERTs/CSIRT contact you?
 - Incidents
 - Source of Security Incidents
 - Suspicious activities
 - Threat Information
- Whois db and other means
 - APNIC's Whois Accuracy initiative
- Will you do something about it?
 - Awareness
 - Capabilities
 - Policies & Procedures
- All of the above: Preparedness

```
irt:      IRT-APNIC-IS-AP
address:  South Brisbane, Australia
e-mail:   helpdesk@apnic.net
abuse-mailbox: helpdesk@apnic.net
admin-c:  AIC1-AP
tech-c:   AIC1-AP
auth:     # Filtered
remarks:  APNIC Infrastructure Services
mnt-by:   MAINT-APNIC-IS-AP
changed:  hm-changed@apnic.net 20110704
source:   APNIC
```



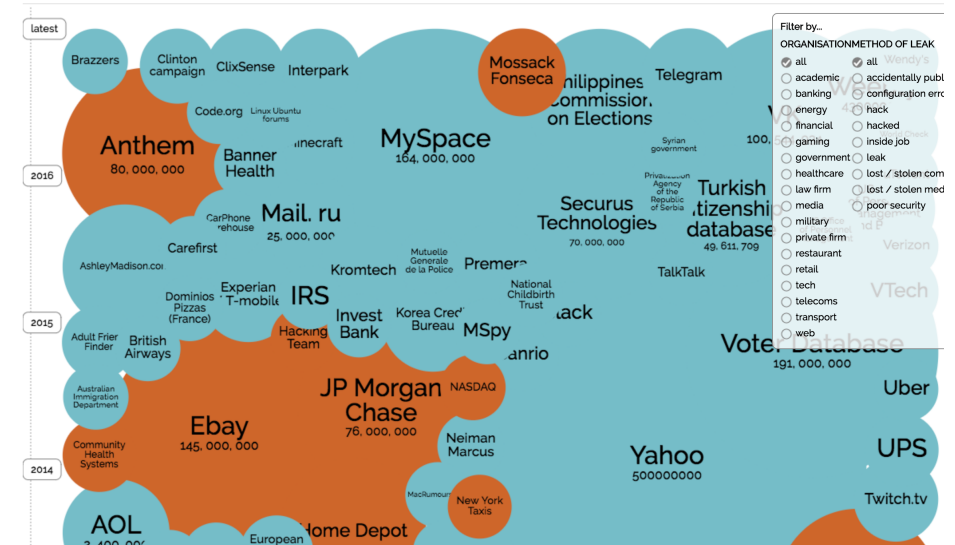
<https://blog.apnic.net/2016/09/27/lea-stakeholders-enter-whois-discussion/>

Reduce Potential Impact

- Timeliness
- Security Incidents have affect constituent's
 - Operation
 - Business
 - Image / Brand
 - Safety
- Understand the (root) cause
 - Advise / Alert the constituents
- Reduce cost required to fix

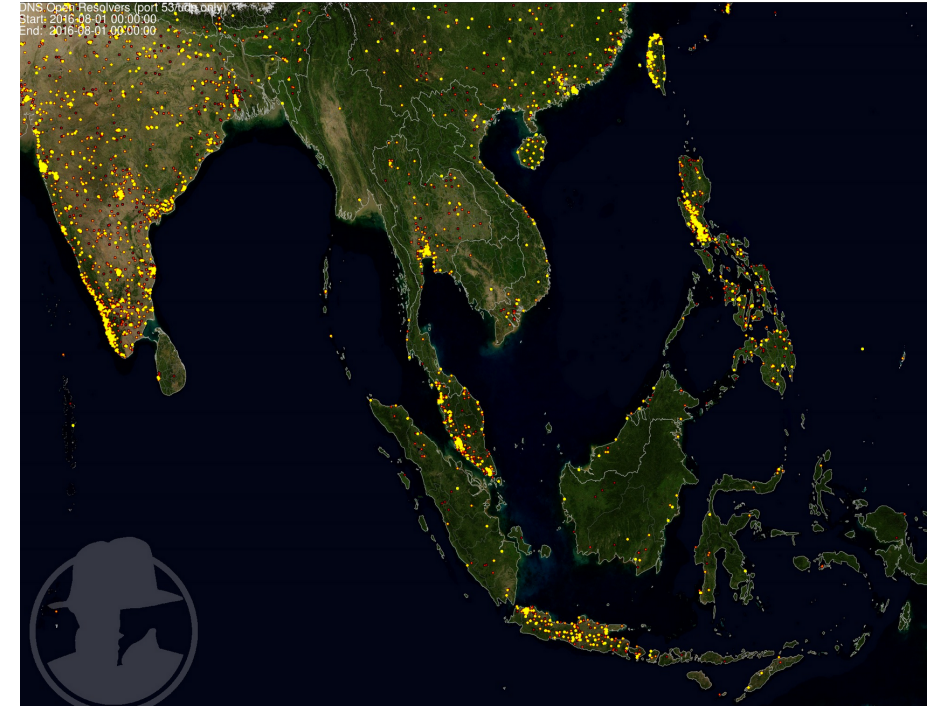


Cryptolocker



Do Something About It

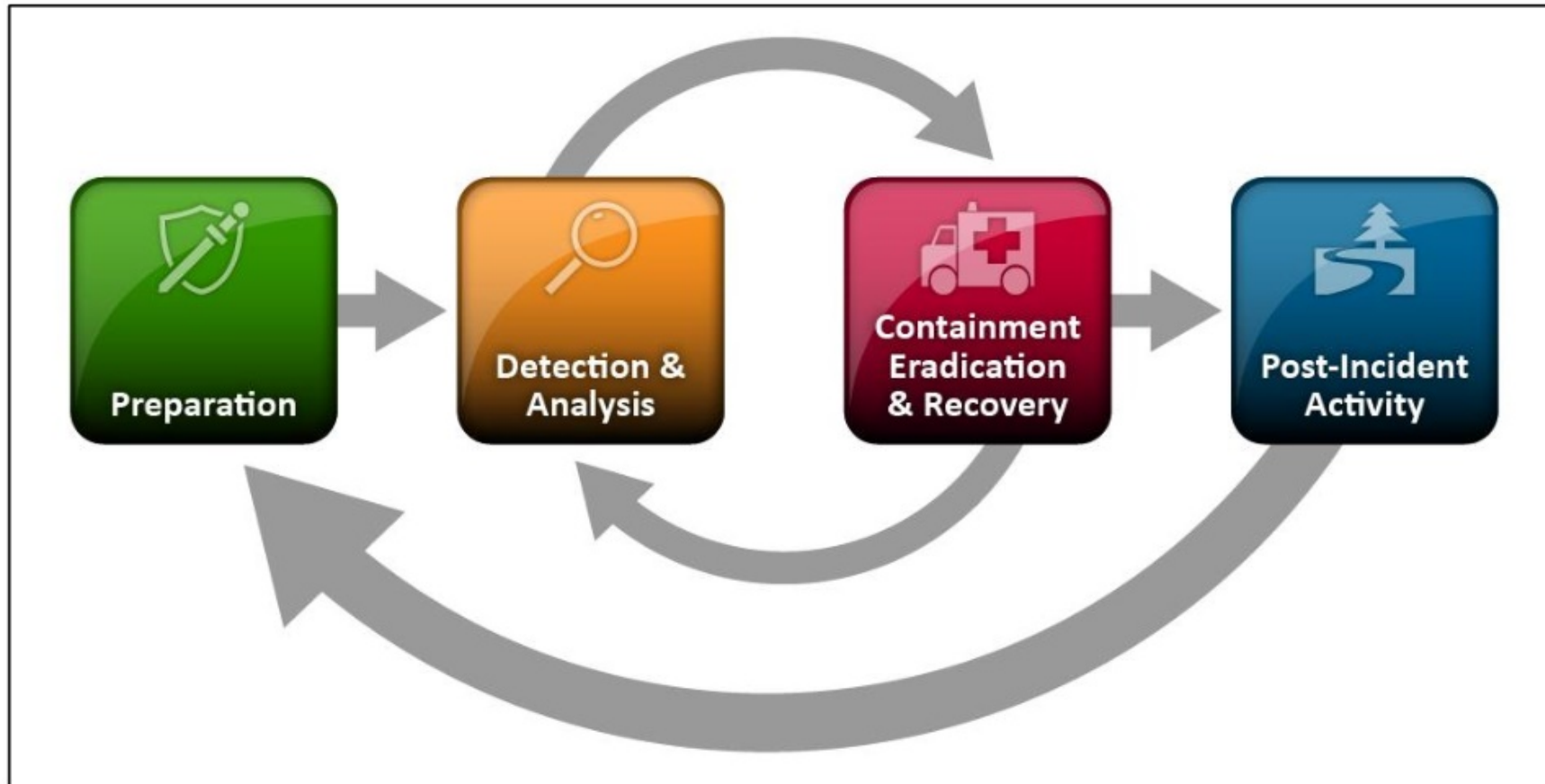
- Remediation
 - Analysis
 - Collaboration
 - Escalation
- DDoS Example
 - Fixing / removing vulnerable hosts
 - Fixing / removing vulnerable services
 - BCP 38 / Source Address Validation
 - Continuous Monitoring
- Join industry-wide initiatives



ShadowServer Foundation

<https://www.cybergreen.net>

Mapping Threat to Incident Response

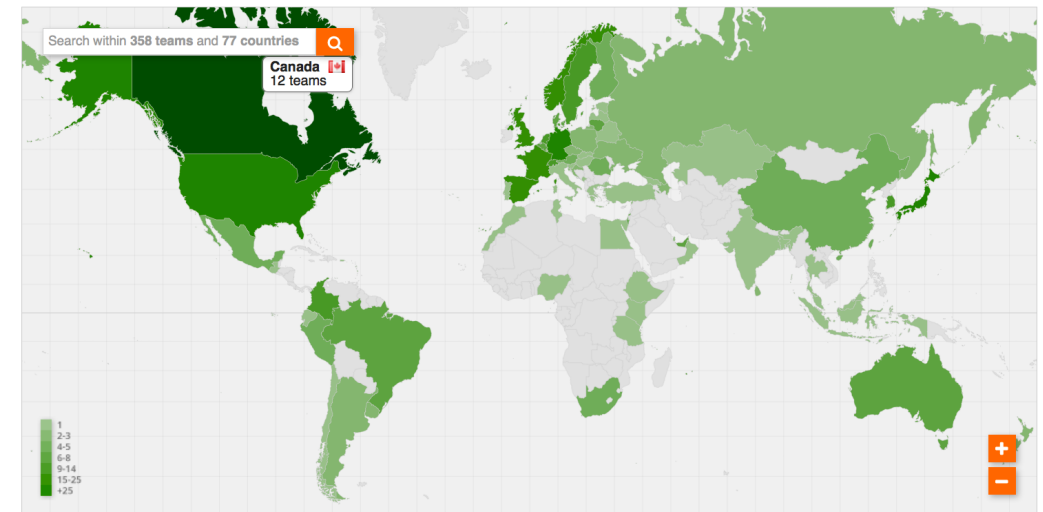


Community of CSIRTs

- Trusted group
- Information Sharing
- Beyond that
 - Lessons Learned
 - Joint Projects (Standards, Tools, Frameworks)
 - Joint Activities (Events, Drills)
 - Resources (Training, Trainers)
 - Mentoring
- Examples:
 - FIRST.org , APCERT, NZITF



FIRST.org Fellows



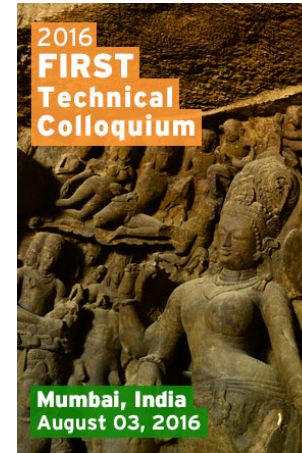
FIRST follows the International Olympic Committee (IOC) country name listings.

[credits]

<https://www.first.org>

CERT/CSIRT Activities in AP Region

- Partnerships
 - Collaboration with FIRST.org
 - MoU with Asia Pacific Computer Emergency Response Teams (APCERT)
 - Share resources, promote initiatives
- Activities
 - FIRST Technical Colloquia (Security Track) at APRICOT & APNIC Supported Events
 - Cyber Security Workshops
 - Training / E-Learning
- 2017
 - FIRST-TC @ APRICOT
 - More activities being planned



Tonga CERT Discussion



Security Workshop in Bhutan

Thank You

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