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# Introduction of the NICTER project

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Cybersecurity Laboratory  
Cybersecurity Research Institute (CRI)  
National Institute of Information and Communications Technology (NICT)



# Overview of the project **NICTER**

**NICTER** = **N**etwork **I**ncident analysis **C**enter  
for **T**tactical **E**mergency **R**esponse

Objective

Comprehensive analysis of security threats on the Internet

- What happens on the Internet?
- What is the root cause?

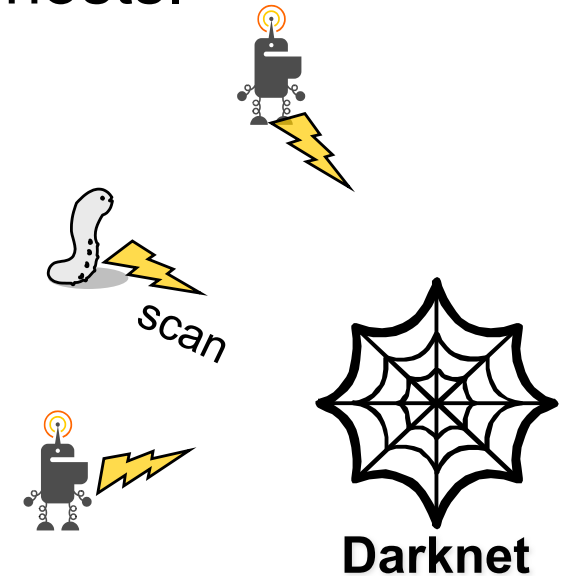
Approach

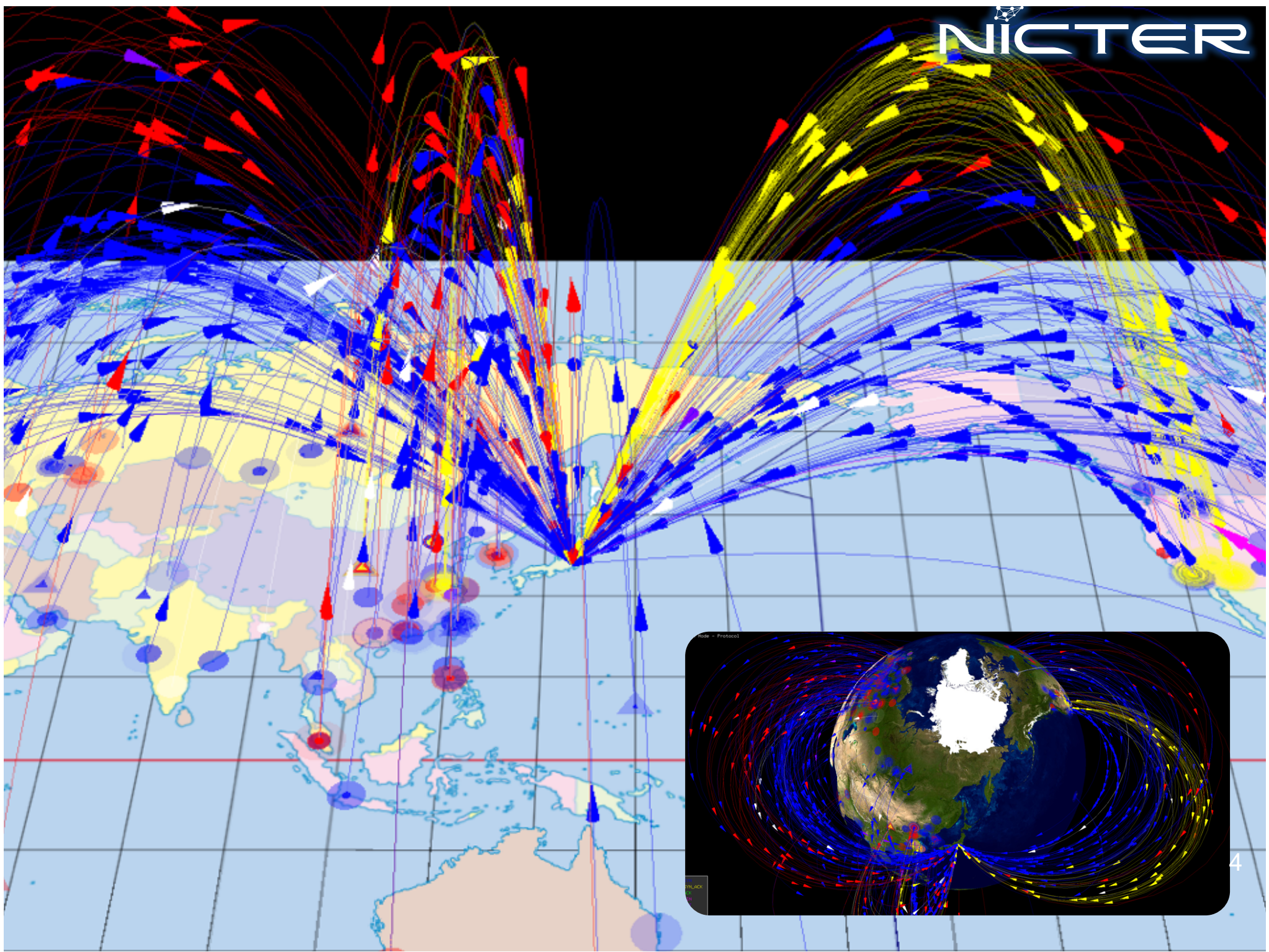
Network monitoring  
+  
Malware analysis



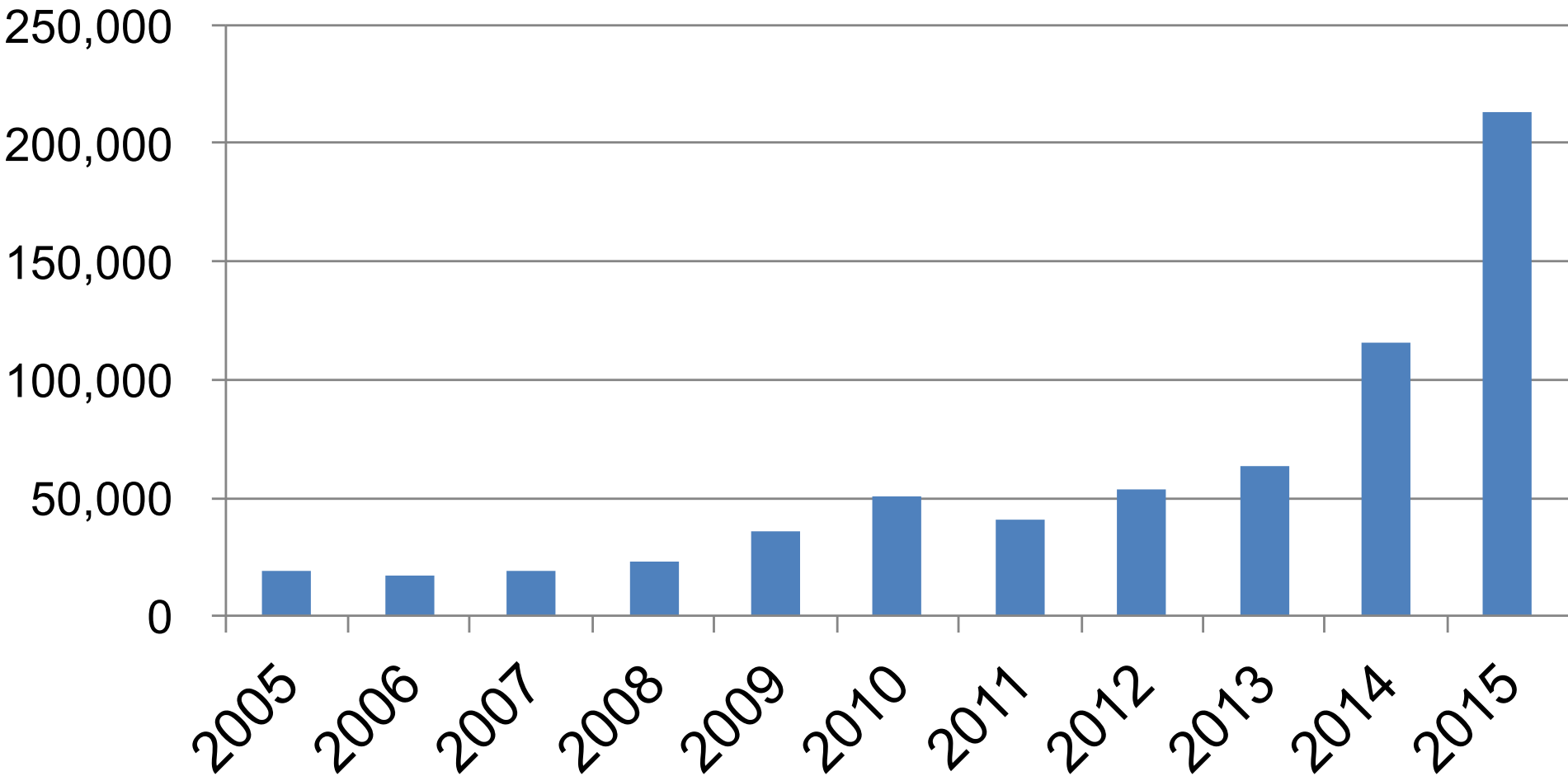
# What is Darknet?

- **Darknet:** Unused IP addresses space
- In theory: any packets should NOT arrive at the darknet because they are not connected to any hosts.
- In fact: quite a few packets DO arrive!
- Packets arriving at the darknet are...
  - Scans by malwares
  - Backscatter (reflection of DDoS attack)
  - Mis configurations etc.
- Darknet traffic reflects global trend in malicious activities on the Internet.





# Yearly Stats of Darknet Traffic



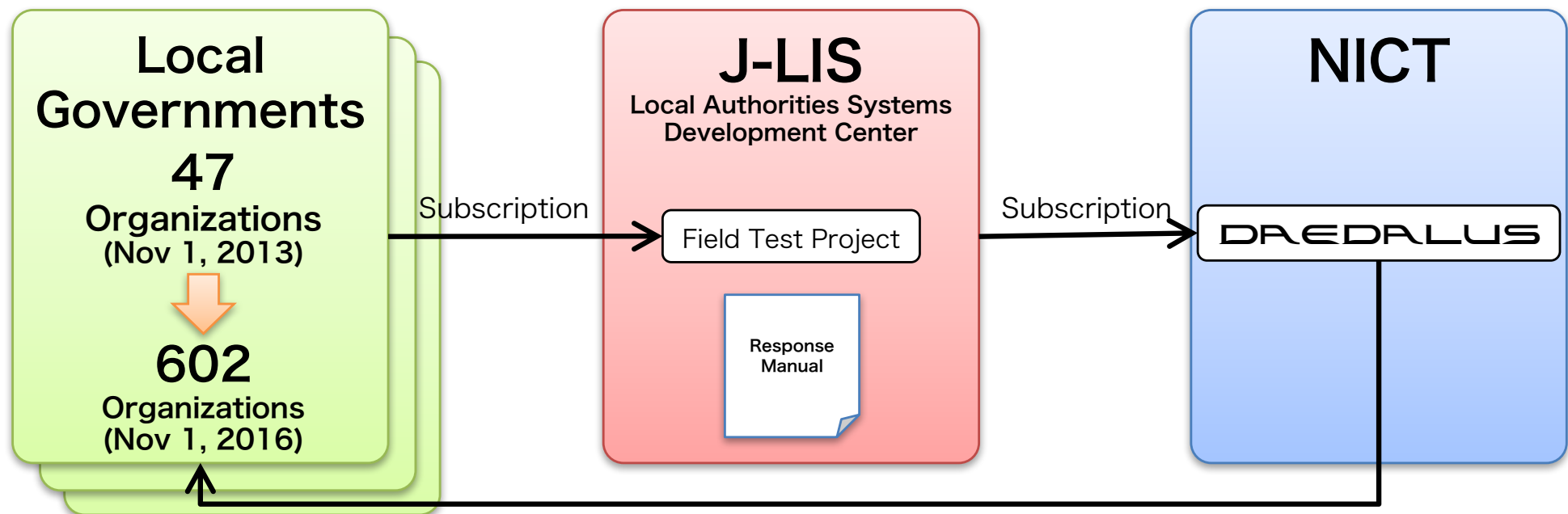
Number of packets par 1 IP address per year



# DRADALUS for Local Gov.

DRADALUS has started to provide alerts to local governments in Japan (free of charge).

- ✓ From Nov. 1, 2013.
- ✓ Started with 47 local governments.



# DRÆDALUS for ASEAN

**JASPER:** security partnership between Japan and ASEAN initiated by the Ministry of Internal Affairs and Communications (MIC) since 2013.

