



**Nepal Police, Central Investigation Bureau**

**“Credibility, Impartiality and Bravery”**

**APNIC(Asia-Pacific Network Information Centre)**

**Conference-45**

**WHOIS Accuracy : Present Status & its Challenges**

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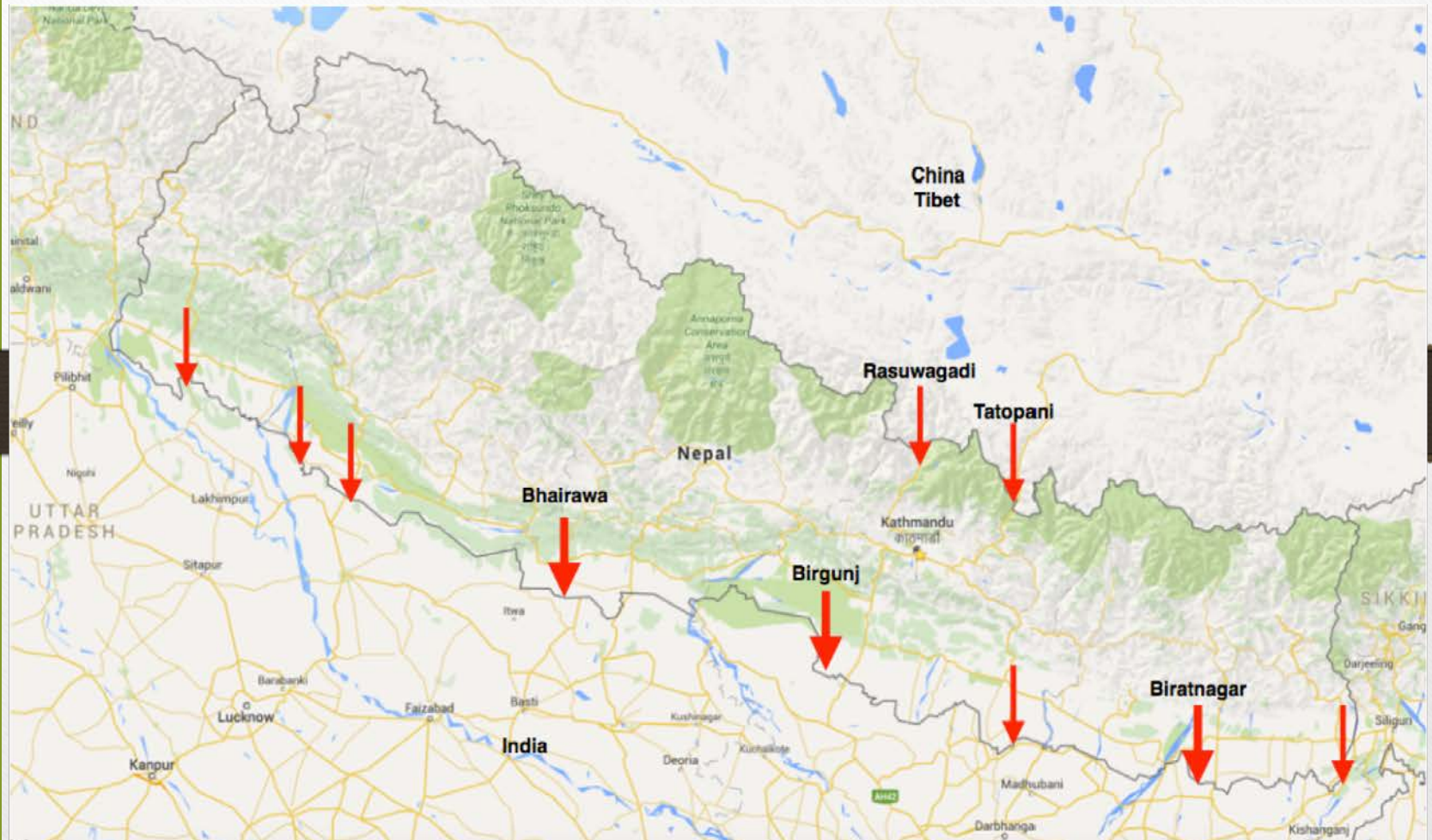
**Date : Monday 25<sup>th</sup> Feb-2018**

# Agenda

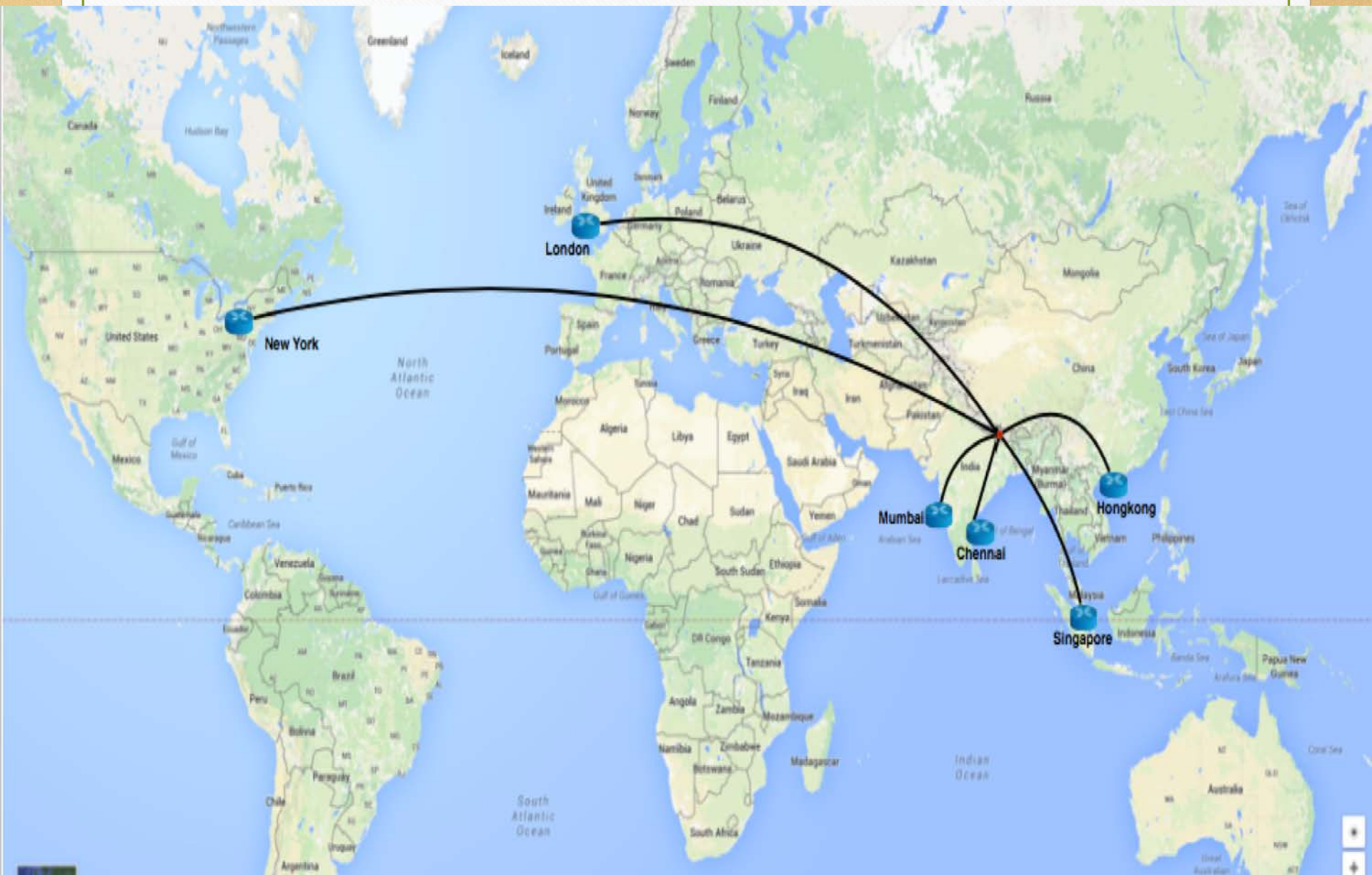
- Status of WHOIS
- Uses of WHOIS
- Case Examples
- Existing WHOIS accuracy challenges

# Cross Border points of Nepal-Connecting the World

## Nepal –Through India and China



# IP Transit Points



# Some Facts

- The current population of Nepal is 29,512,663  
( 29 Million 512 Thousand 6 hundred 63)
- Total Internet Users as of today, 11,457,989  
( 11.457989 Million ) in Nepal, More than 64%  
Internet Penetration
- 97% access Internet via Mobile Phone

# USES OF WHOIS

RIR (Regional Internet address Registry) community, and public uses of WHOIS:

- WHOIS Searches are one of the most common and starting point for investigators

Assuring the security and reliability of the network and ensuring IP address holders are properly registered so as to resolve abusive practices that impact safety and security

## CASE STUDY(eg)

- In August 2017, A victim/complainant contacted Law Information Agency reporting about the use of an IP address to send threatening/extortion messages. “Pretending to be Original “

“ In return, the reply from the Service Provider was- One of the CGNAT(carrier grade Network Address Translation) public IP block so won't able to provide the details. Provided IP is used in some location within Nepal as customer NAT(Network Address Translation) Pool.

# CHALLENGES

From a public safety perspective, failure to have accurate WHOIS-

Information can present the following challenges:

- Inability of public safety agencies to quickly identify resources used in abusive activities
- Misdirected legal requests can waste both public safety agencies' and network operator's time and resources
- APNIC WHOIS DATABASE (itself) up to date issue.
  - May be due to the shortage of sufficient IP distribution
  - May be the involvement of broker or mediator

# **Key Challenges**

## **(Nepal Prospective)**

- **There is no permanent provision of MLAT(Mutual Legal Assistance Treaty), ILOR( International Letter of Request), Letter of Rogatory or Diplomatic Channel that support during the investigation.**
- **35 days of limitation for the victim to lodge FIR (Electronic Transaction Act-2008)**
  - **Note: None of the International Intermediaries has Local Contact office in Nepal that directly effect speedy investigation.**

## Way Forward/Goal

- Global Coordination with RIRs(Regional Internet address Registry) and Public Safety Organizations
- Seeking industry assistance
  - Collaborate with example ARIN (American Registry for Internet Numbers)/ RIR (Regional Internet address Registry)communities

Last but not the least

- Introducing globally coordinated policy in each RIR region

***Thank You***