



Global Internet Governance: **Multistakeholder Models**

2018.07.23 | APIGA | Gwangju

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from.Asia / for.Asia



.asia
#RiseWithAsia

What is “.asia”?

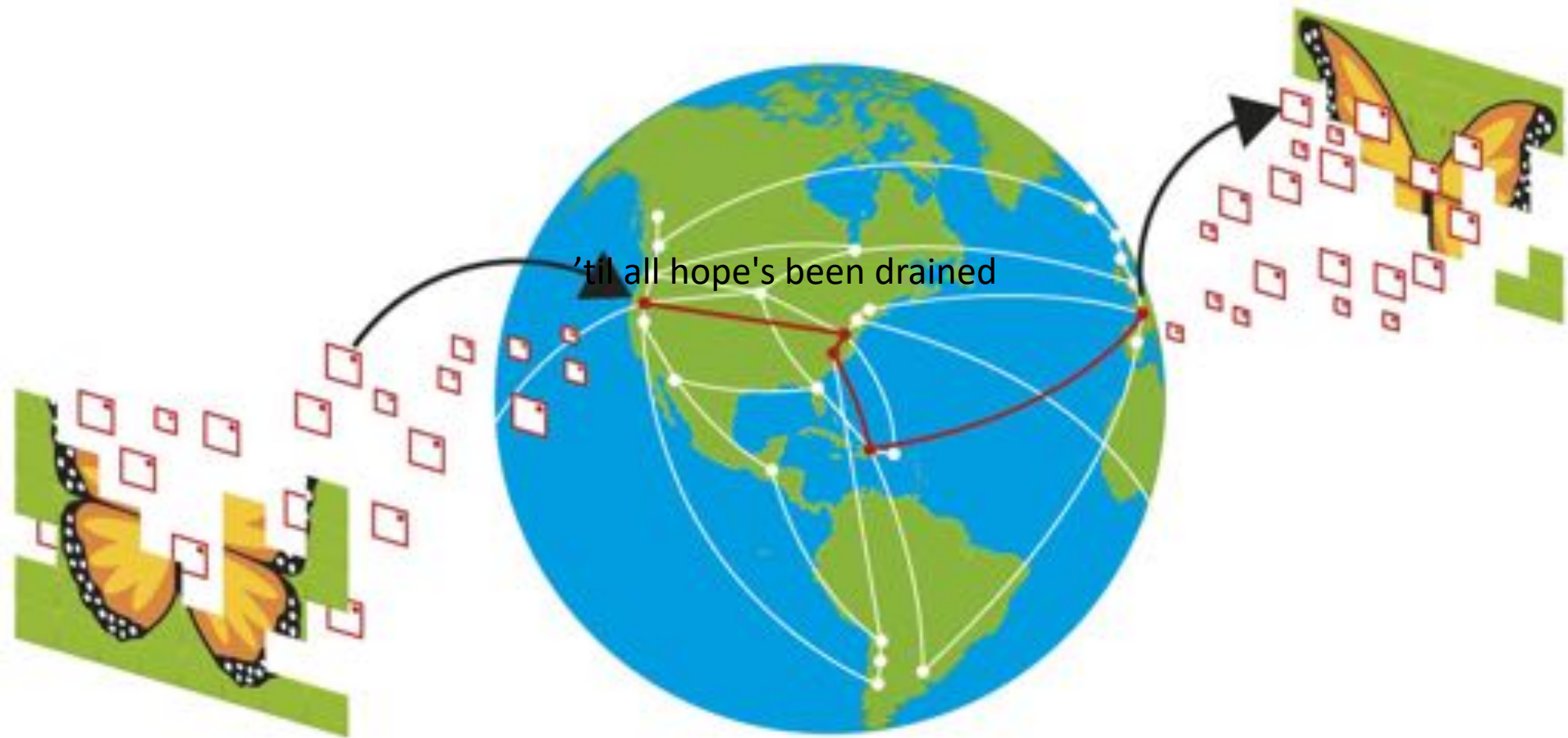
www.domain.asia



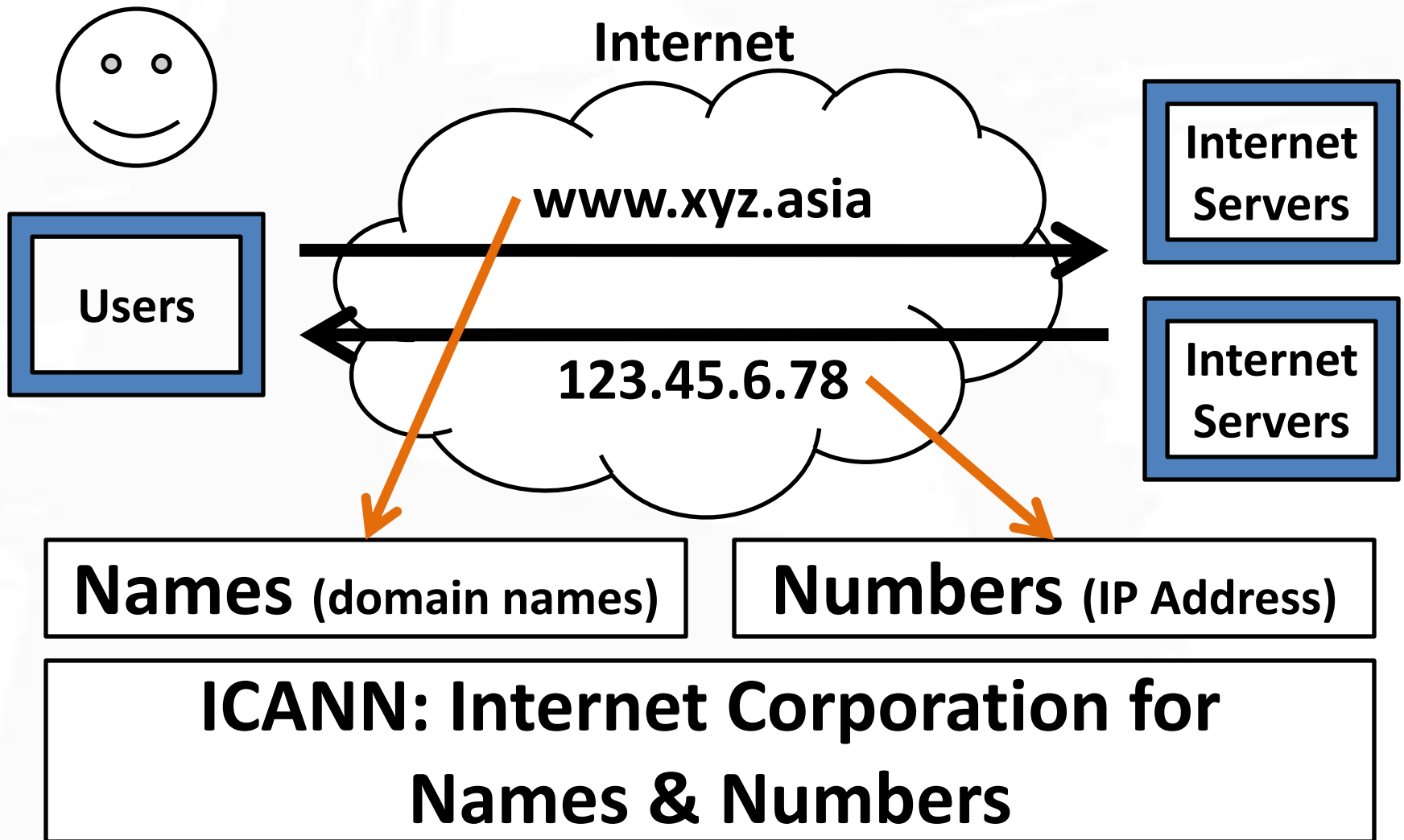
Every .Asia Domain
Contributes to Internet
Development in Asia



How the Internet works...



How the Internet Works



Where is
www.netmission.asia?

Root “.”
198.41.0.4

.asia
.com
.hk
.org ...

Rootservers.
<cache>...

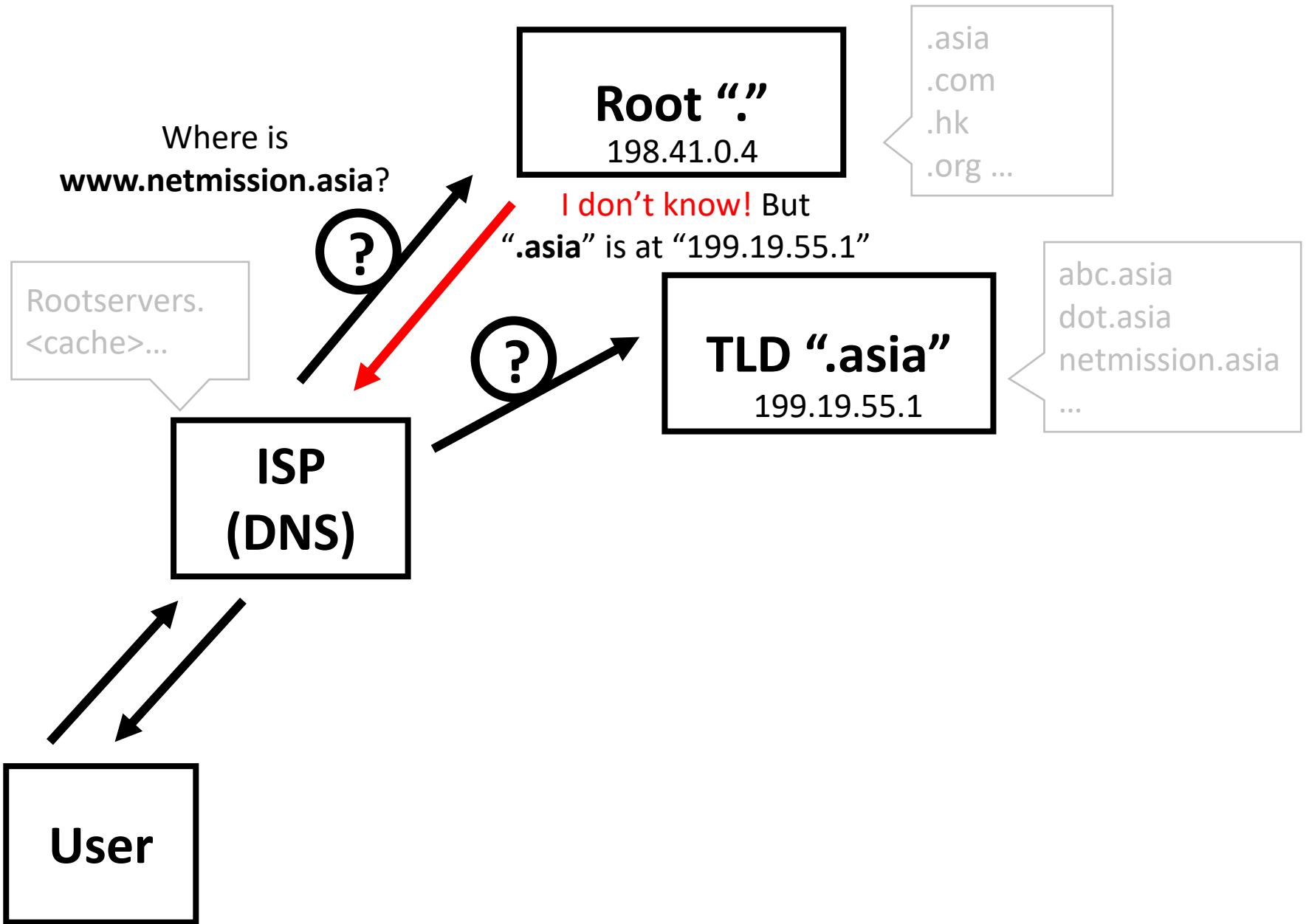


**ISP
(DNS)**

User

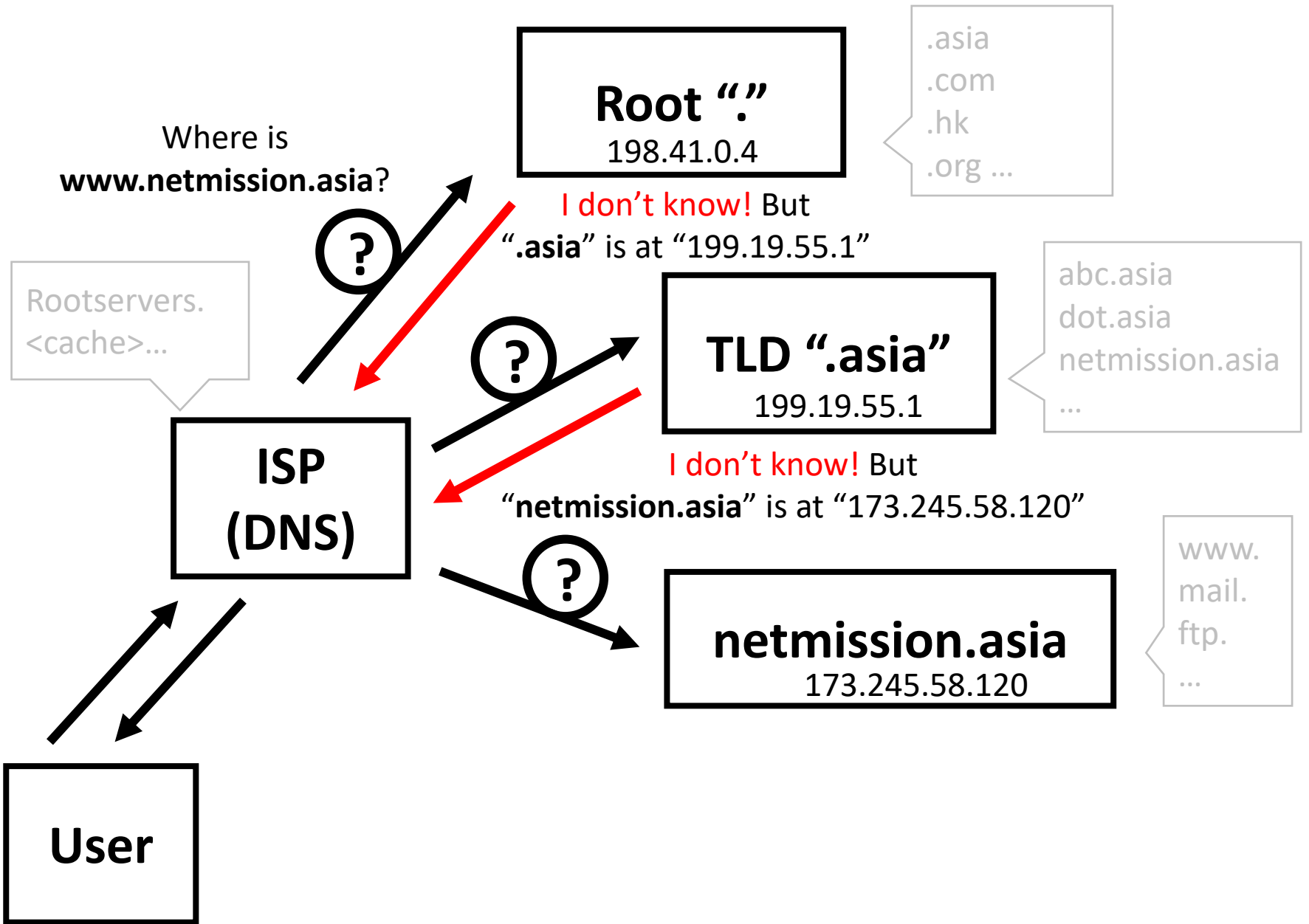
DNS Query

- Query:
- Where is: www.netmission.asia
- Response (From Root):
- **I don't know**
- But **.asia** is at:



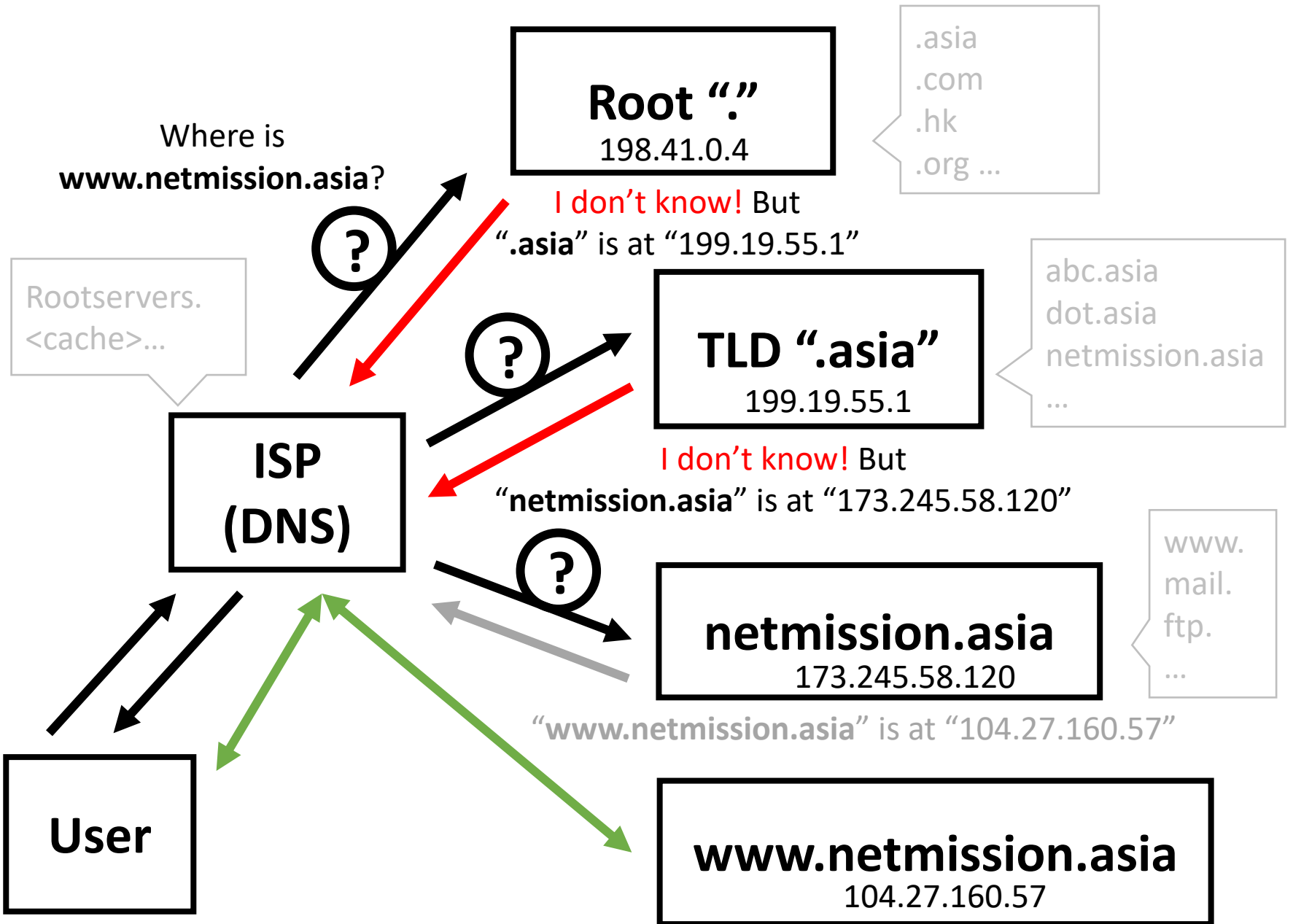
DNS Query

- Query:
- Where is: www.netmission.asia
- Response (From .asia Top Level Domain “TLD”):
- **I don't know**
- But **netmission.asia** is at:



DNS Query

- Query:
- Where is: www.netmission.asia
- Response (From netmission.asia Name Server):
- **.asia** is at:



DNS Security Extensions (DNSSEC)

- **Signing & Distribution/Depositing of Certificates:**
 1. Root → Internet At Large (ISPs)
 2. TLD (.asia) → Root
 3. netmission.asia → .asia TLD
- **Resolution Path:**

Where is
www.netmission.asia?

Root “.”
198.41.0.4

.asia
.com
.hk
.org ...

Rootservers.
<cache>...



**ISP
(DNS)**

User



DNS Query

- Query:
- Where is: www.netmission.asia
- Response (From Root):
- **I don't know**
- But **.asia** is at:
- **AND** here is the **.asia Certificate**
- as received by the Root

DNS Query

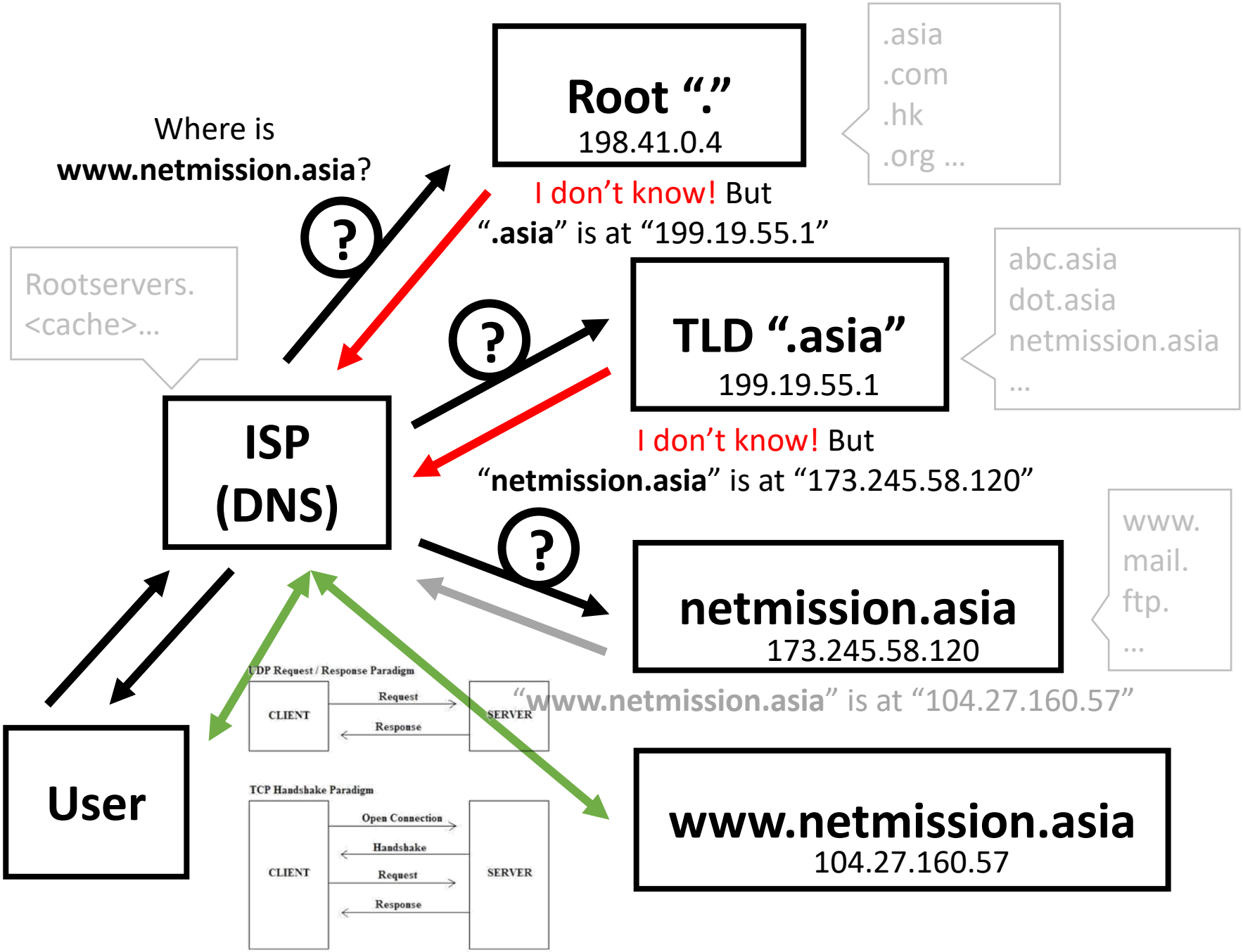
- Query:
- Where is: www.netmission.asia
- Response (From .asia Top Level Domain “TLD”):
- **I don't know**
- But **netmission.asia** is at:
- **AND** here is the **netmission.asia Certificate**
- as received by .asia TLD

DNS Security Extensions (DNSSEC)

- **Signing & Distribution/Depositing of Certificates:**
 1. Root → Internet At Large (ISPs)
 2. TLD (.asia) → Root
 3. netmission.asia → .asia TLD
- **Resolution Path:**
 1. Root → response + TLD (.asia) Certificate
 2. TLD (.asia) → response + **netmission.asia** Certificate
- **Verification Logic:**
 - ISP **already has** Root Cert → Verify response from **Root** for **.asia**
 - Uses **.asia** Cert **obtained from Root** → Verify response from **.asia TLD** for **netmission.asia**
 - Uses **netmission.asia** Cert **obtained from .asia TLD** → verify response from **netmission.asia** for **www.netmission.asia**

DNS Query

- Query:
- Where is: www.netmission.asia
- Response (From .asia Top Level Domain “TLD”):
- **I do not know**
- But **netmission.asia** is at:



DNS Security Extensions (DNSSEC)

- **Signing & Distribution/Depositing of Certificates:**
 1. Root → Internet At Large (ISPs)
 2. TLD (.asia) → Root
 3. netmission.asia → .asia TLD
- **Resolution Path:**
 1. Root → response + TLD (.asia) Certificate
 2. TLD (.asia) → response + **netmission.asia** Certificate
- **Verification Logic:**
 - ISP already has Root Cert: Verifies response for **.asia**
 - Uses .asia Cert obtained from Root: Verify response for **netmission.asia**
 - Uses netmission.asia Cert obtained from .asia TLD → verify response for **www.netmission.asia**



Internet Corporation for Assigned Names and Numbers



Internet Governance (Names/No.)

ICANN: Internet Corporation for Names & Numbers

Names

Numbers

ccTLD

gTLD

Regional Internet Registries

253 country-code

Top Level Domains:

- .CN – China
- .JP – Japan
- .KR – Korea
- .UK – United Kingdom
- .US – United States
- ...

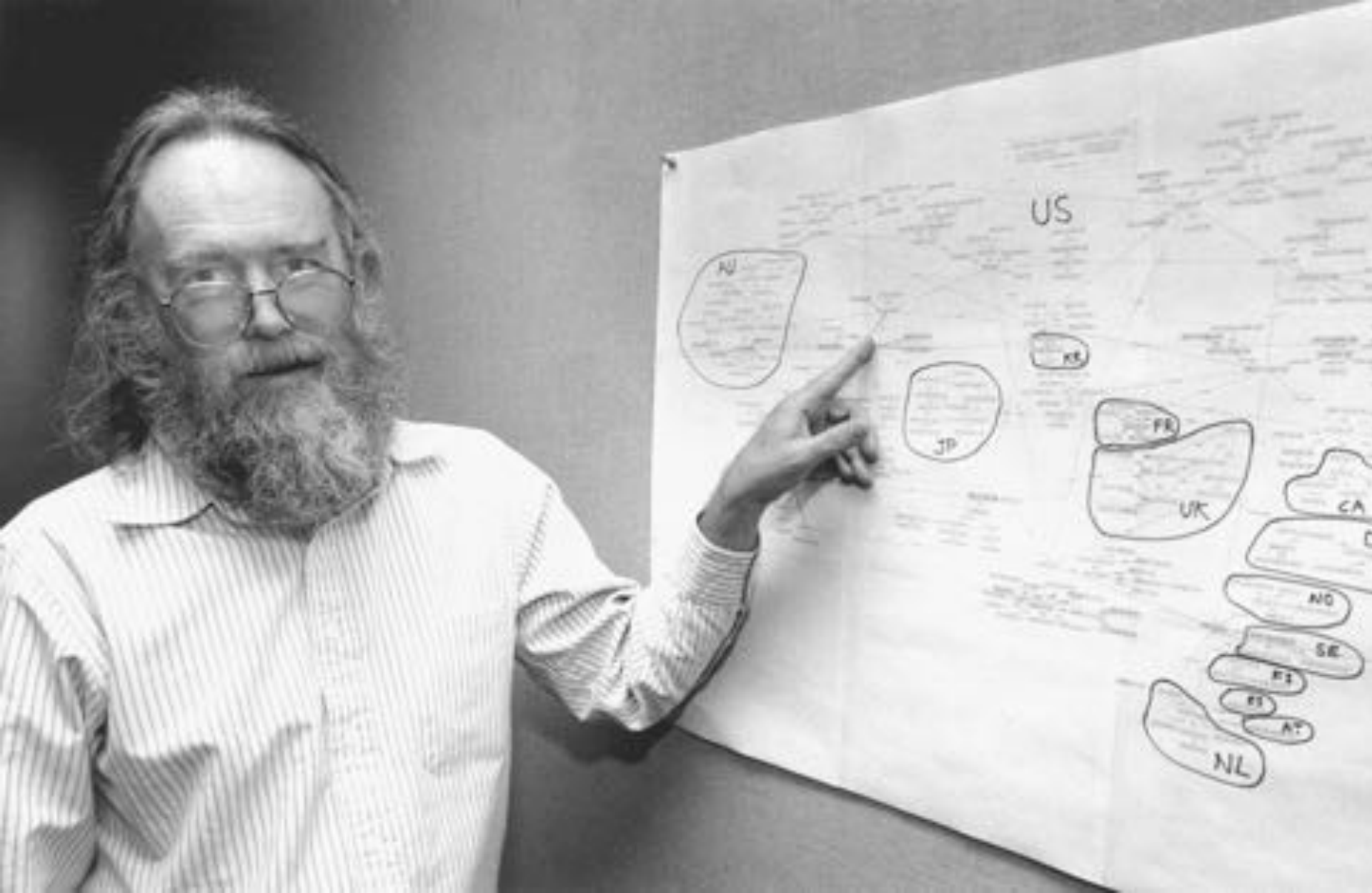
22 generic TLDs (14 new):

- .COM .NET .ORG
- .ARPA .MIL .INT .EDU
- .GOV
- 2001 (+7): .INFO .BIZ
- .AERO .MUSEUM .COOP
- .NAME .PRO
- 2004 (+7): .TRAVEL .ASIA
- .CAT .TRAVEL .TEL .MOBI
- .POST

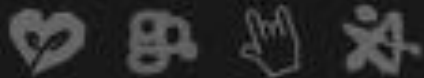
- APNIC (Asia Pacific)
- ARIN (North America)
- LACNIC (Latin America)
- RIPE (Europe)
- AFRINIC (Africa)

.ASIA





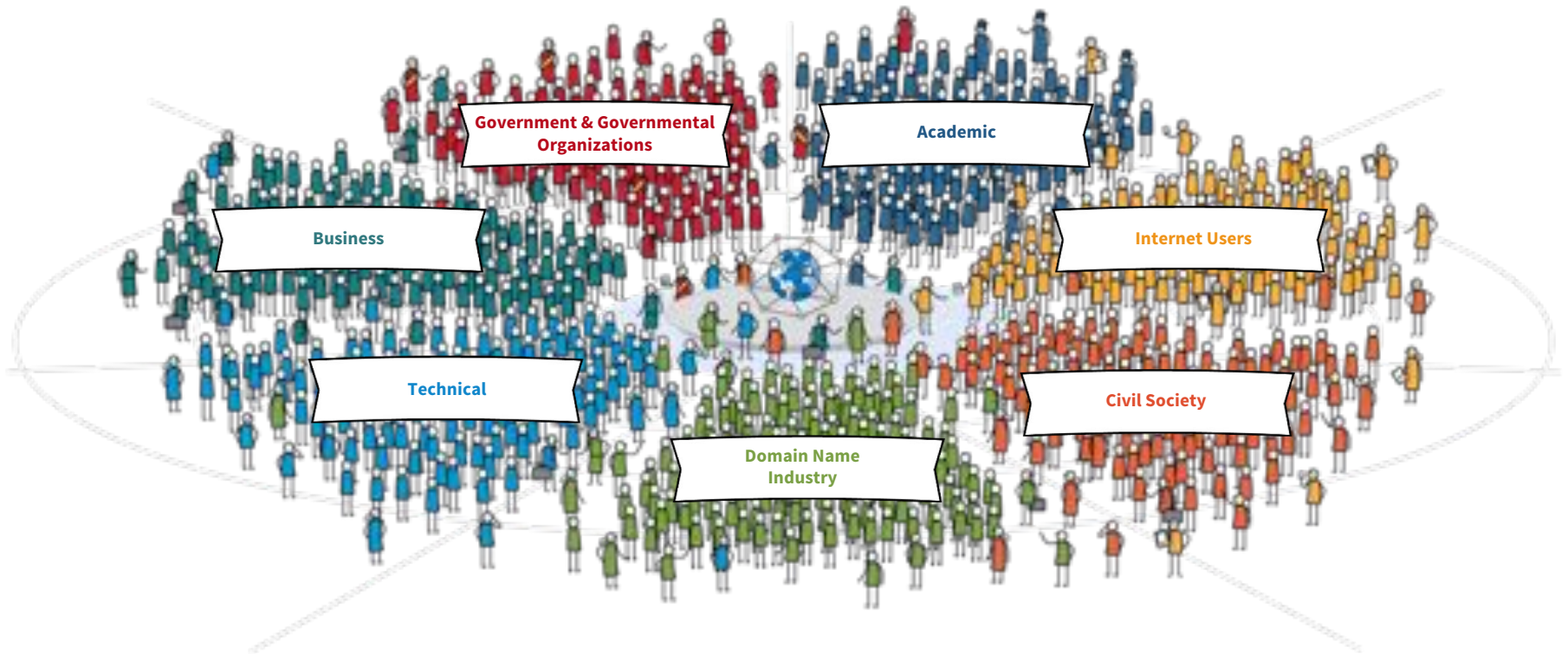
Jon Postel: 1943-1998



ICANN's Global Multistakeholder Community

Today's Community of Communities

In the same way the Internet is a network of networks comprised of computers and devices, the ICANN community is a community of communities comprised of people and organizations

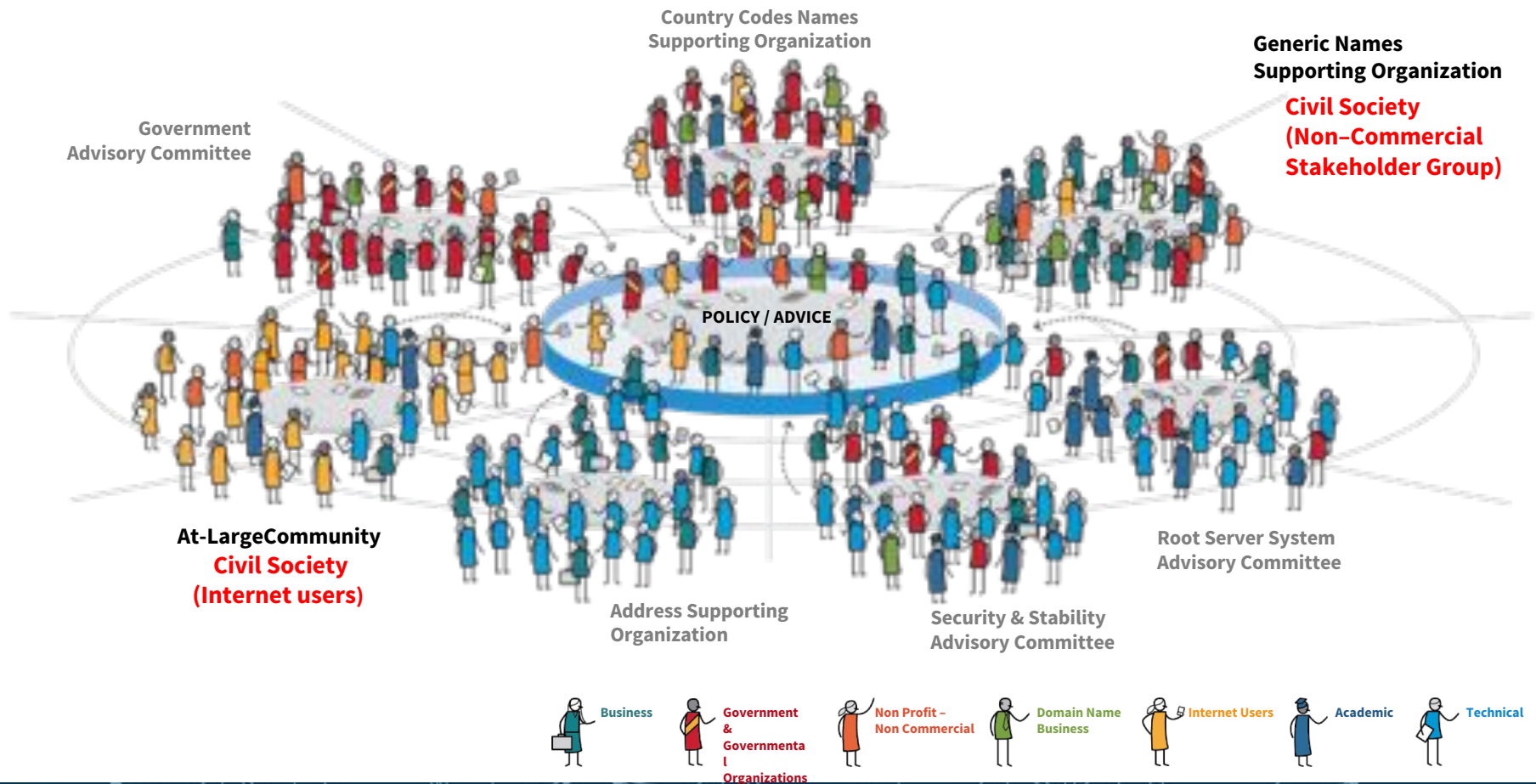


The ICANN Community At Work

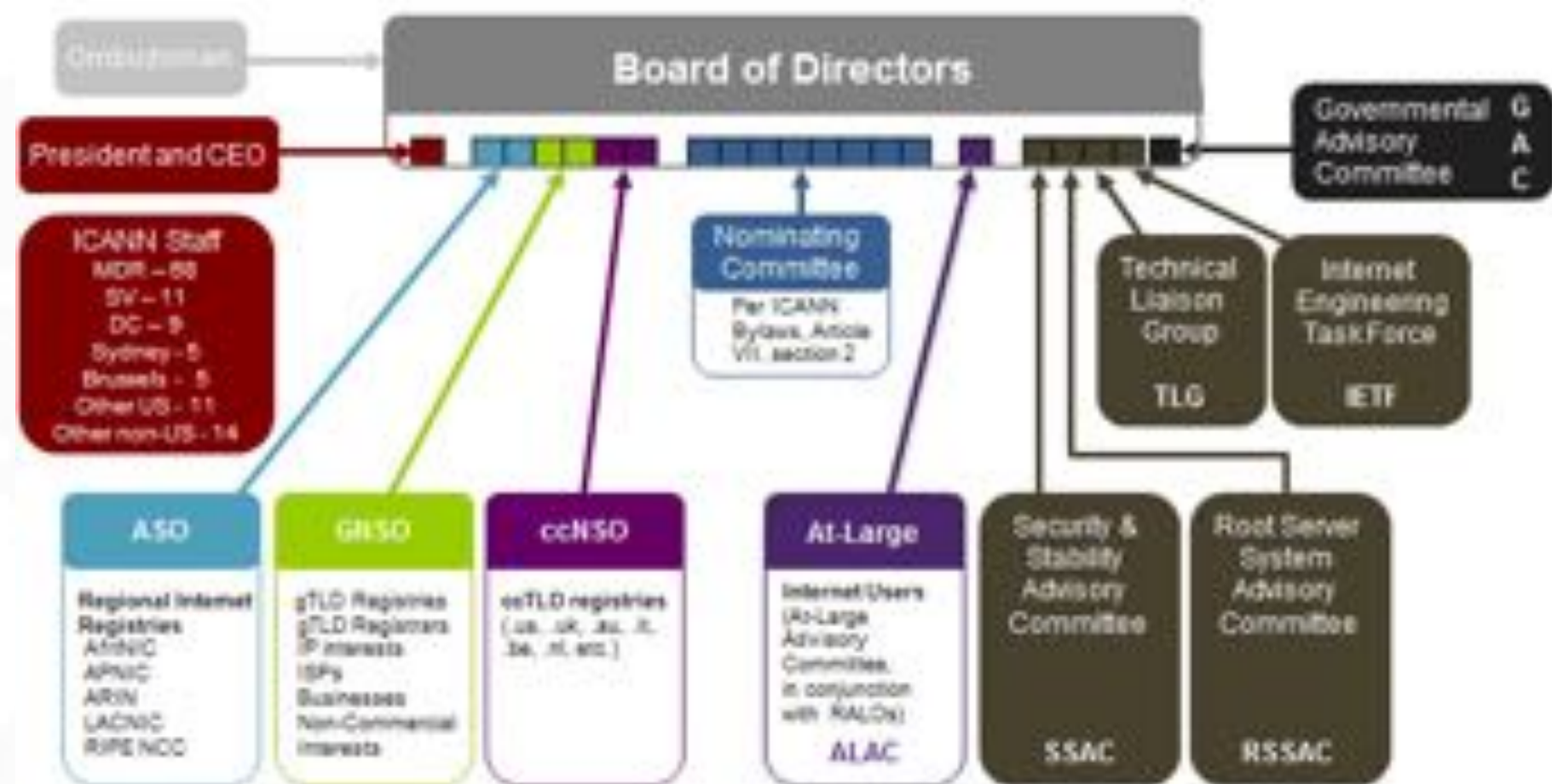
The Bottom-Up Multistakeholder Model

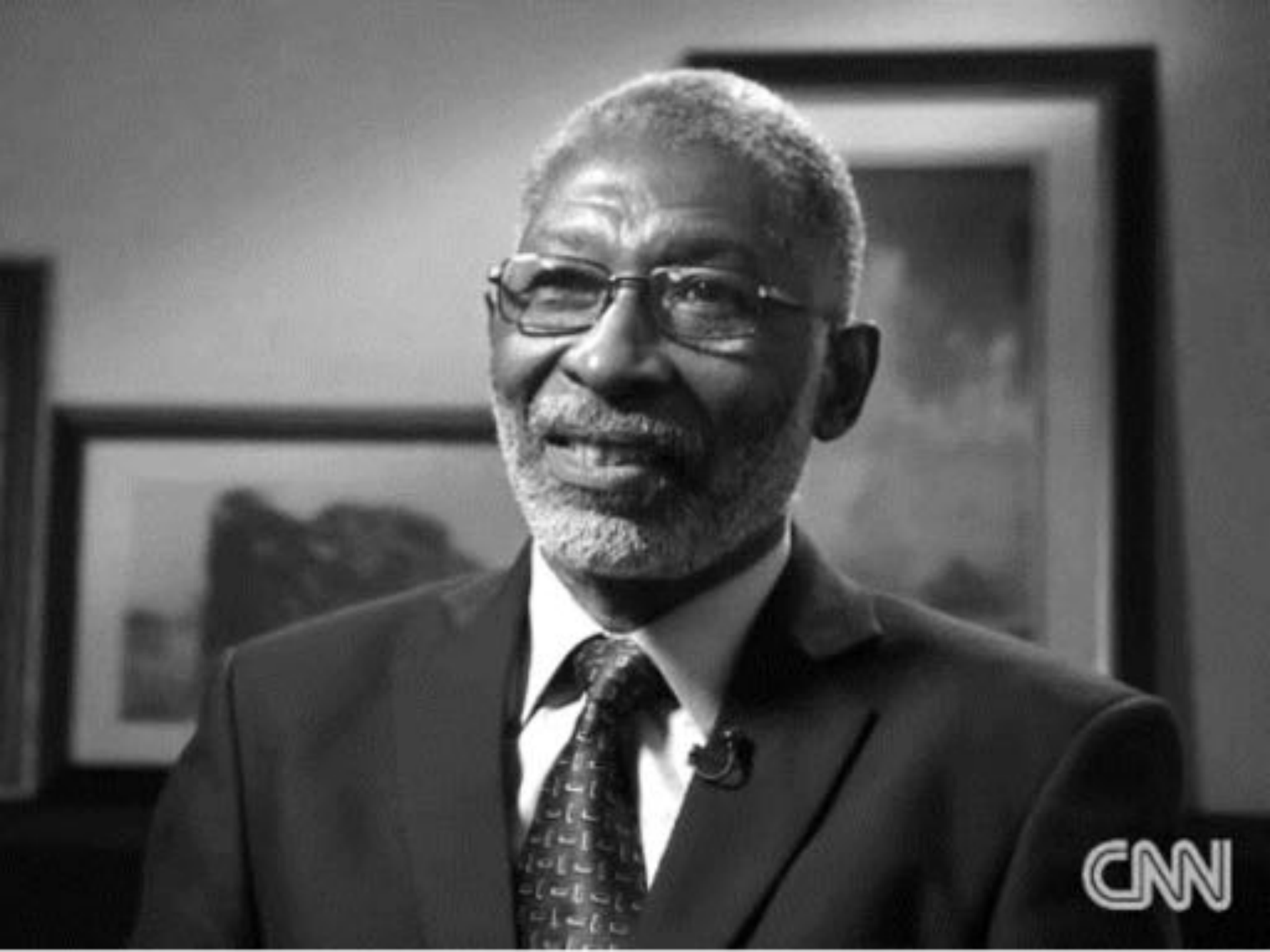
The collective efforts of the ICANN community culminate in a common shared goal:

A single, interoperable Internet supported by stable, secure and resilient unique identifier systems.



ICANN Multi-Stakeholder Model





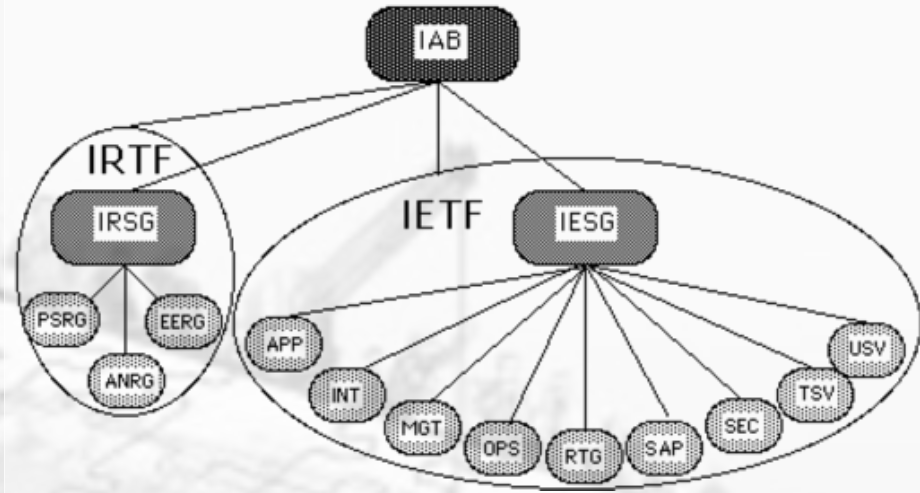
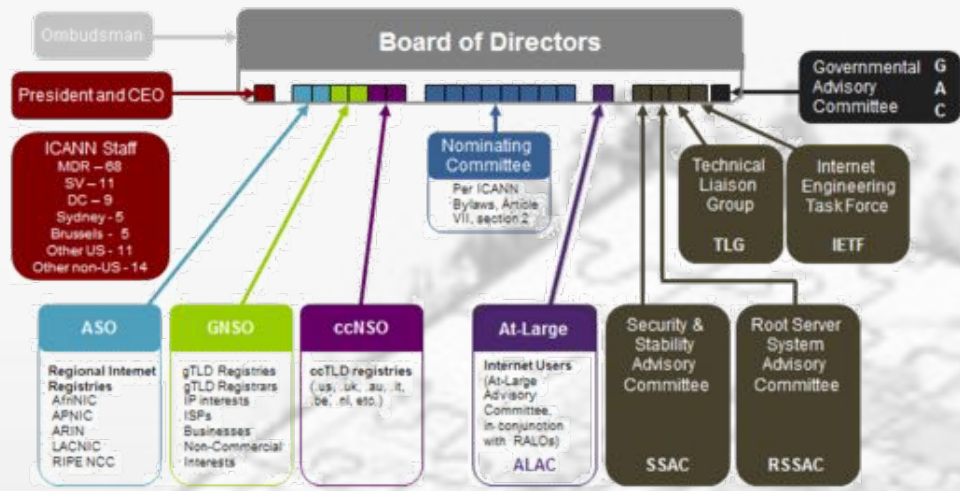
CNN

PROCESS OF PROCESS

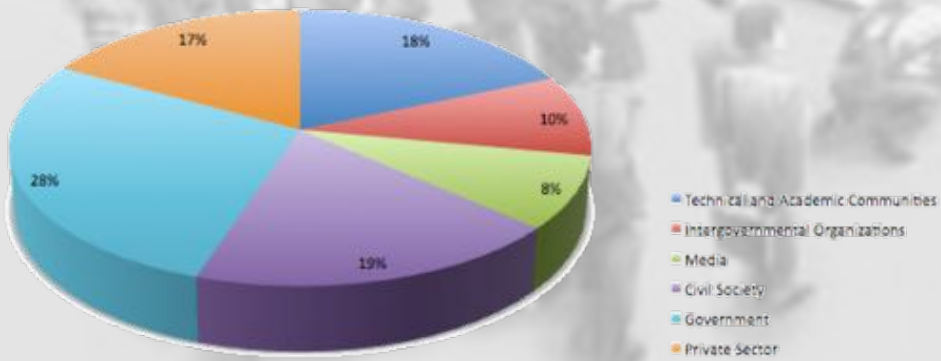
PROCESS

ISSUES

ICANN Multi-Stakeholder Model

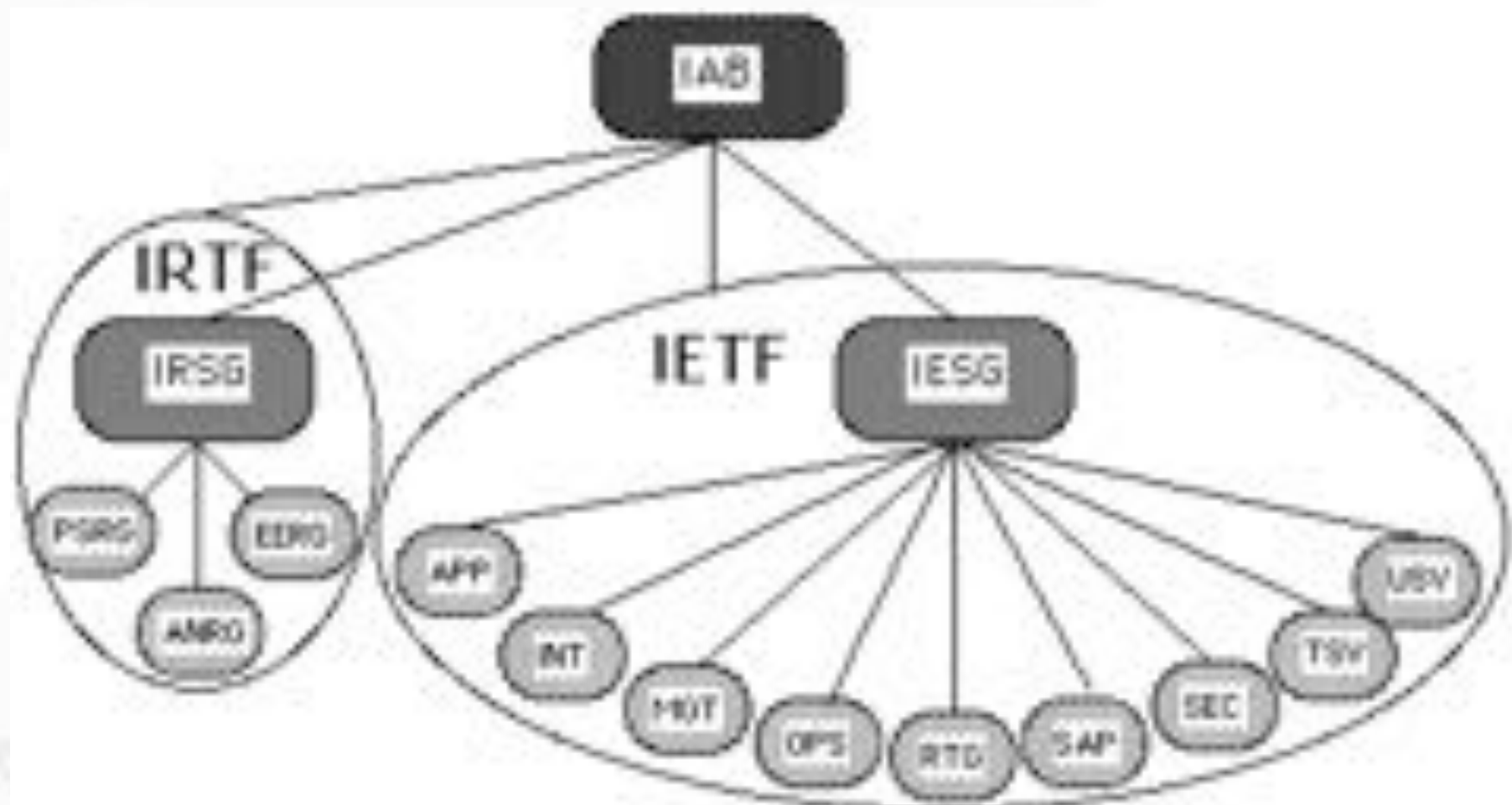


Multistakeholder Approach





I E T F[®]





WE REJECT KINGS,
PRESIDENTS AND VOYEV,
WE BELIEVE IN
ROUGH CONSENSUS
AND RUNNING CODE.

IETF 83

IAB Chairman: I am a Representative, but I cannot and do not Represent the IETF.

RFC7282: On Consensus and Humming in the IETF

- Lack of disagreement is more important than agreement
- Rough consensus is achieved when all issues are addressed, but not necessarily accommodated
- Humming to start a conversation, not to end
- Consensus is the path, not the destination
- 100 for, 5 against might not be rough consensus
- 5 for, 100 against might still be rough consensus



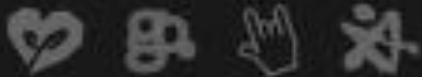
Global Internet Governance: **Multistakeholder Models**

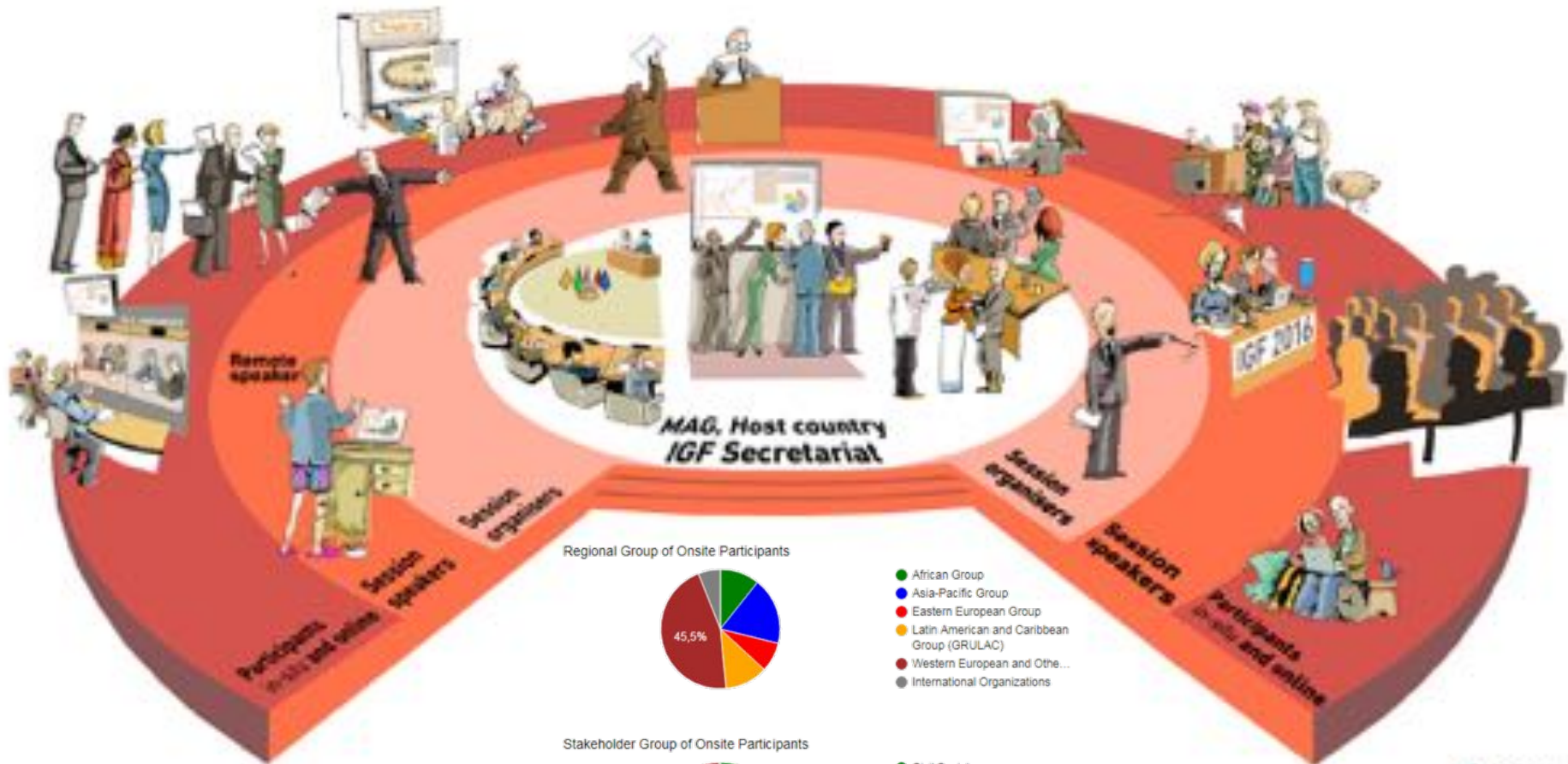
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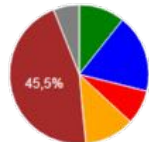
from.Asia / for.Asia

Governance **OF** the Internet
vs.
Governance **ON** the Internet



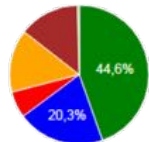


Regional Group of Onsite Participants



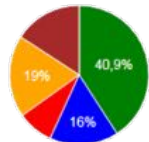
- African Group
- Asia-Pacific Group
- Eastern European Group
- Latin American and Caribbean Group (GRULAC)
- Western European and Othe...
- International Organizations

Stakeholder Group of Onsite Participants



- Civil Society
- Government
- Intergovernmental Organizations
- Private Sector
- Technical Community
- Media

Stakeholder Group of Online Participants



- Civil Society
- Government
- Intergovernmental Organizations
- Private Sector
- Technical Community

IGF 2014 Istanbul Turkey

Alumnus: **Bianca Ho** MAG2015-17



IGF
GENEVA 12

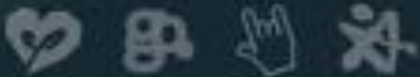
12TH INTERNET
GOVERNANCE
FORUM

SHAPE YOUR DIGITAL FUTURE!

Alumnus: **Jianne Soriano** MAG2018-20

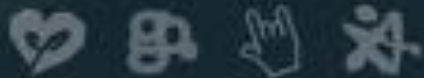
GAC

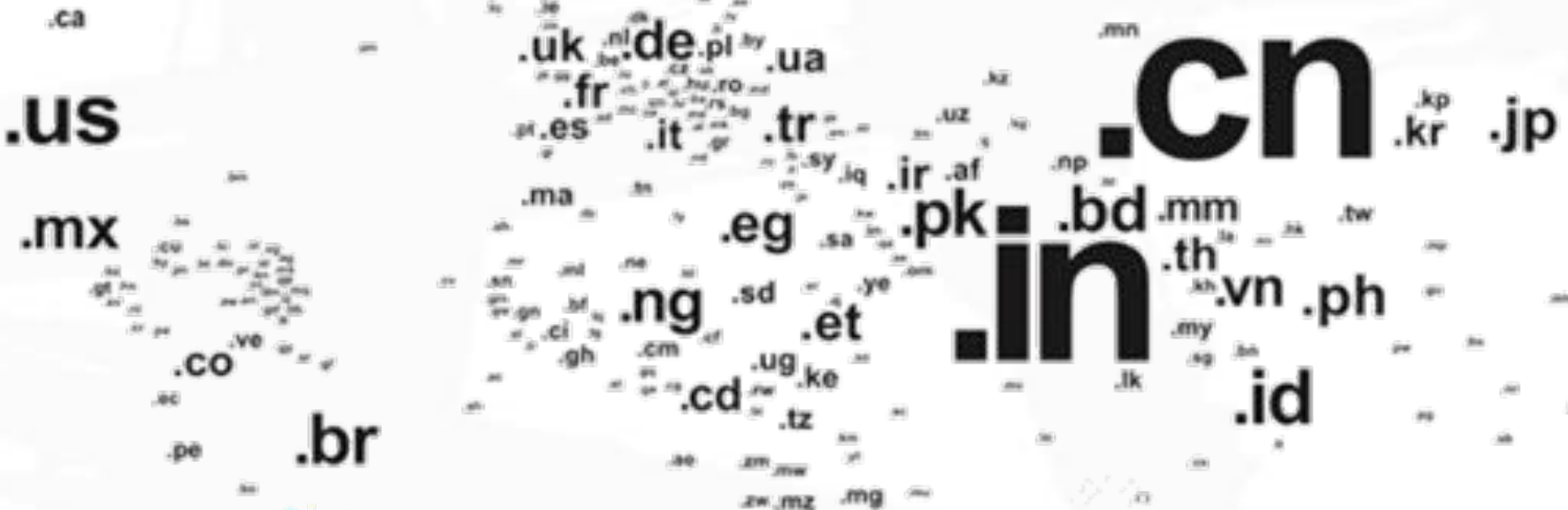
Government Advisory Committee



ccNSO

Country-Code Names Supporting Organization





Asia Pacific	Europe	Latin America
<input type="text"/>	<input type="text"/>	<input type="text"/>
● ● ●	● ● ●	● ● ●
Africa	North America	NomCom
<input type="text"/>	<input type="text"/>	<input type="text"/>
● ● ●	● ● ●	● ● ●

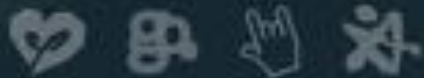
ALAC

At-Large Advisory Committee



GNSO

Generic Names Supporting Organization



GNSO Council: 2 House Design

ccNSO

Han Chuan Lee –
ccNSO Observer –
AAPAC

GNSO Council

Jonathan Robinson (SOI) – Chair – EU {22
Members – 20 Votes} (1 NCA)

Jennifer Wolfe (SOI) – NCA – NA (AGM 2014)

ALAC

Alan Greenberg (SOI) –
ALAC Liaison – NA

Contracted Party House {6+1}

Mason Cole (SOI) - Vice-Chair - NA
(AGM 2014)

Thomas Rickert (SOI) – Voting NCA – EU
(AGM 2013)

Non-Contracted Party House {12+1}

Wolf-Ulrich Knochen (SOI) Vice Chair – EU
(AGM 2013)

Lanre Ajayi (SOI) – Voting NCA – AF
(AGM 2013)

**Registry
Stakeholder Group
{3}**

- Registries

**Registrar
Stakeholder Group
{3}**

- Registrars

**Commercial
Stakeholder Group {6}**

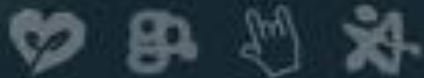
- Business
- Intellectual Property
- Internet Service Providers

**Non-Commercial
Stakeholder Group {6}**

- Non-Commercial Users
- Not-for-Profit
Operational Concerns
Constituency

ASO

Address Supporting Organization



RIR: Regional Internet Registries



IANA

AfNIC

ARIN

APNIC

LACNIC

RIPE NCC

CNIC
中国互联网络信息中心
China Internet Network Information Center

NIR

JPNIC

LIR

LIR


中国电信
CHINA TELECOM

ISP

ISP


NTT

ISP


網上行
netvigator™

EU

EU

EU

EU

EU

EU

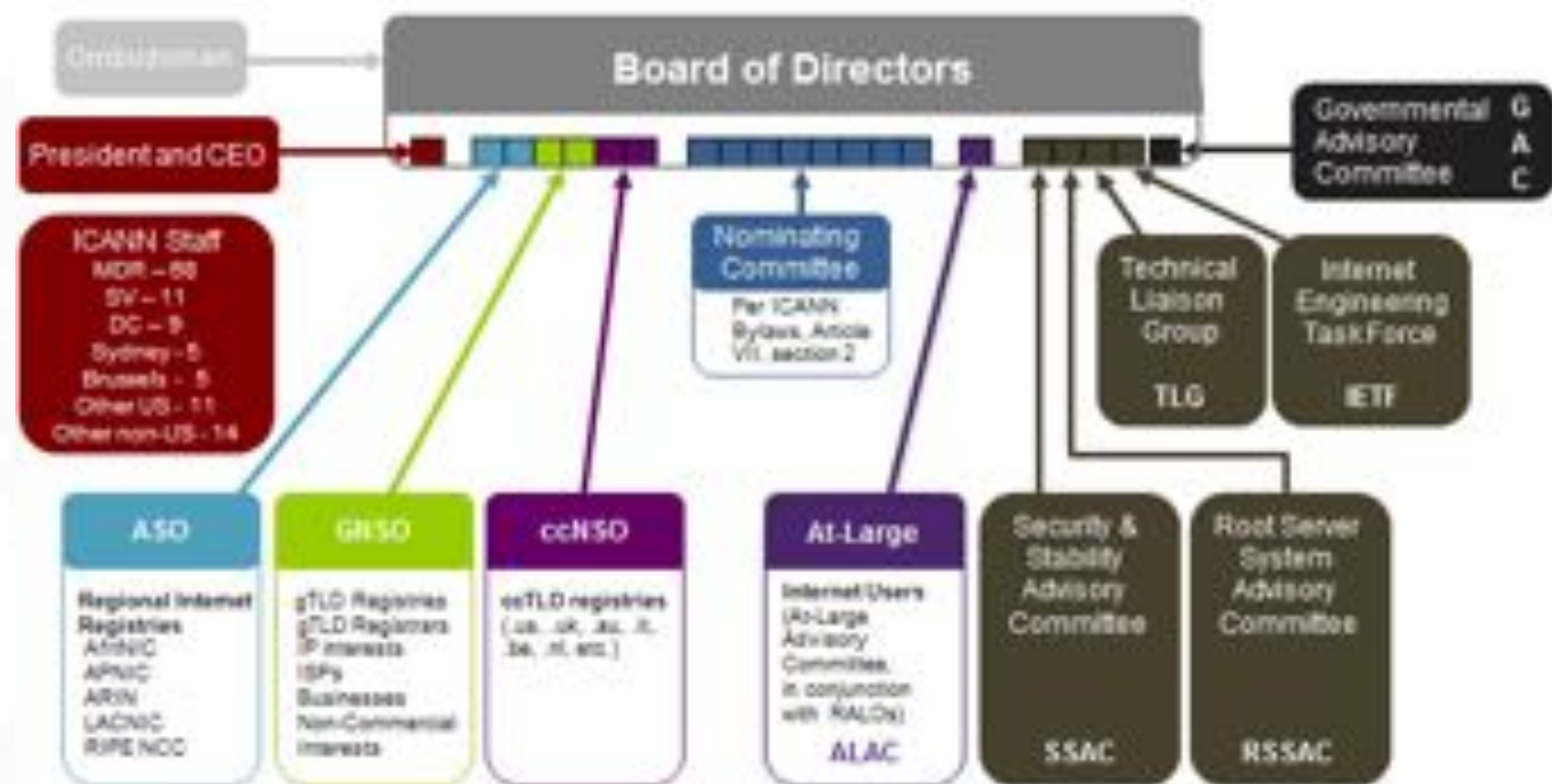

Baidu 百度


香港高登
HKGOLDEN.COM

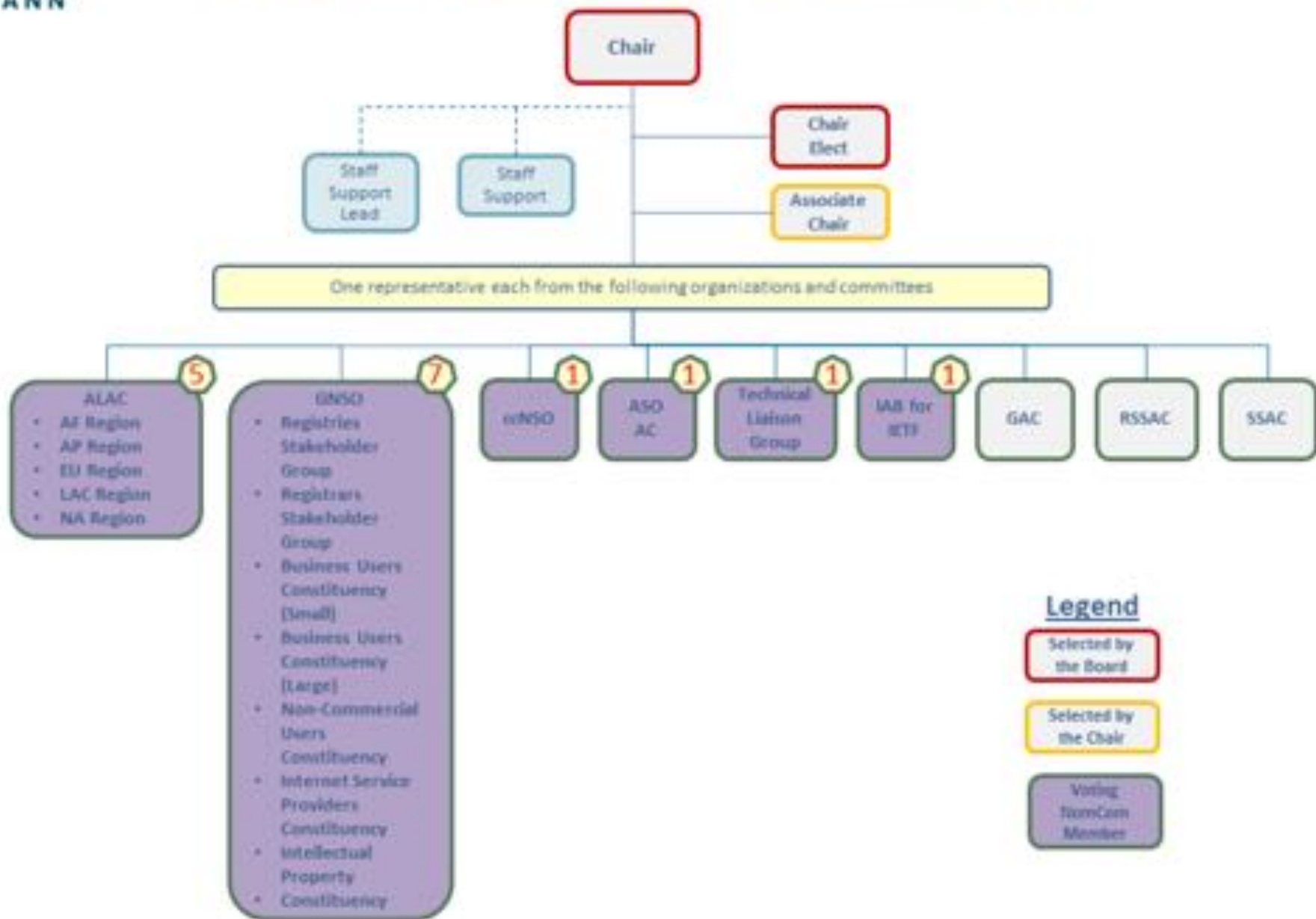
■ National Internet Registries
■ Internet Service Providers

■ Local Internet Registries
■ End Users

ICANN Multi-Stakeholder Model



Nominating Committee Organizational Chart



PERMISSIONLESS INNOVATION

The Continuing Case for
Comprehensive Technological Freedom



Google

FACE BOOK

AMATEUR

BIG BROTHER





Global Public Interest

EXIT 23

ACCOUNTABILITY
STRAIGHT AHEAD







Business & Special Interest Capture

Blurring
Stakeholder
Group
Boundary



DON'T LET OTHERS SPEAK FOR YOU



Constituency & Representation

ANIMAL FARM

GEORGE ORWELL



ALL ANIMALS
ARE EQUAL
BUT SOME ANIMALS ARE
MORE EQUAL
THAN OTHERS



SUSTAINABLE DEVELOPMENT GOALS

17 GOALS TO TRANSFORM OUR WORLD

1 NO POVERTY

2 ZERO HUNGER

3 GOOD HEALTH AND WELL-BEING

4 QUALITY EDUCATION

5 GENDER EQUALITY

6 CLEAN WATER AND SANITATION

7 AFFORDABLE AND CLEAN ENERGY

8 DECENT WORK AND ECONOMIC GROWTH

9 INDUSTRY, INNOVATION AND INFRASTRUCTURE

10 REDUCED INEQUALITIES

11 SUSTAINABLE CITIES AND COMMUNITIES

12 RESPONSIBLE CONSUMPTION AND PRODUCTION

13 CLIMATE ACTION

14 LIFE BELOW WATER

15 LIFE ON LAND

16 PEACE AND JUSTICE STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS

THE GLOBAL GOALS
For Sustainable Development

3rd Asia Ministerial Conference



on tiger
conservation

Delhi

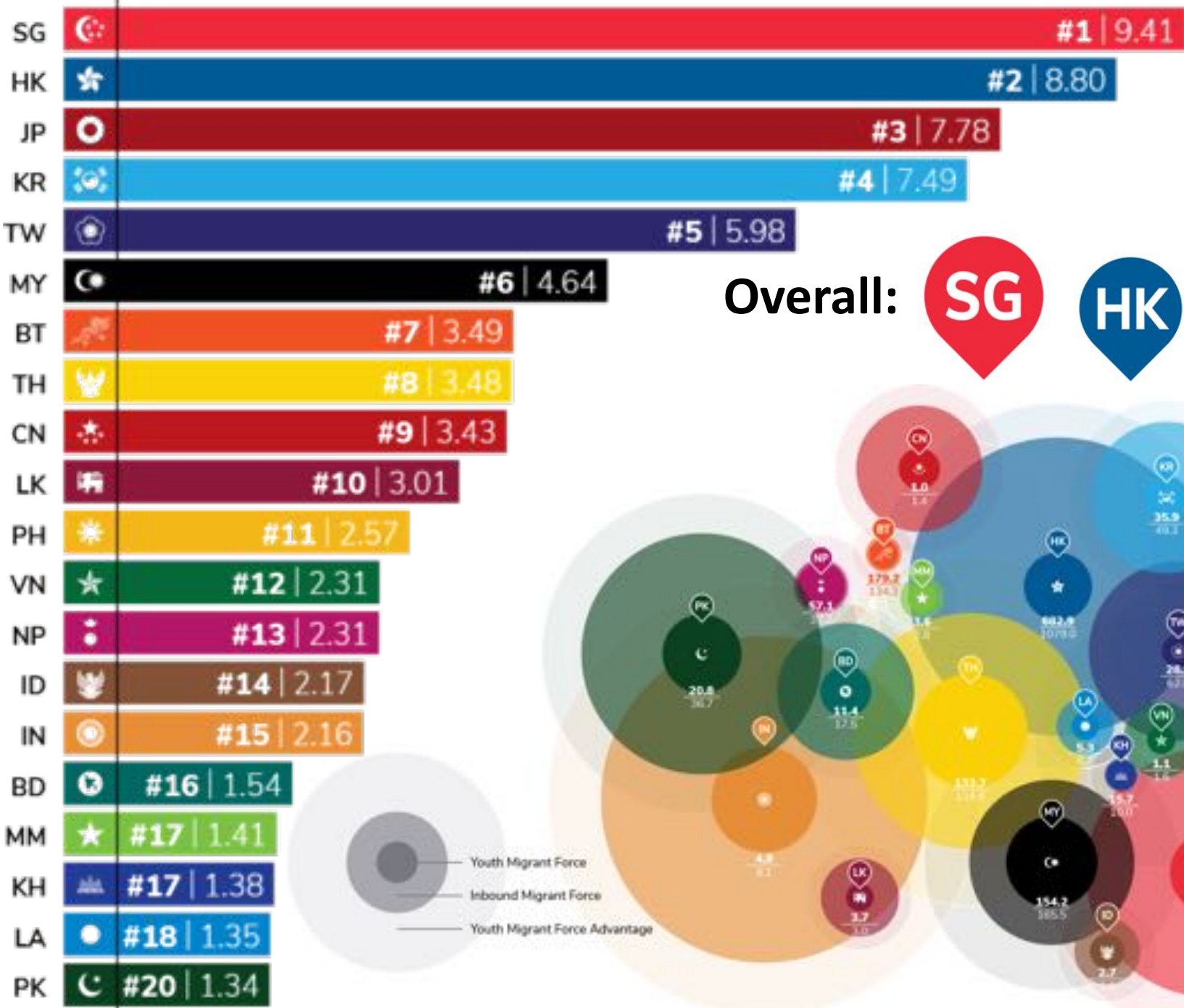
April 12-14, 2016, Vigyan Bhawan



YOUTH MOBILITY
INDEX 2018



#YouthMobilityAs
CompetitiveAdvantage



Overall: **SG** **HK** **JP**

