

Universal Acceptance – Getting ready for the Expansion of the DNS



Universal Acceptance

신속배달 T.62-5848 지하

7243-3215
뉴맨이용원
PHONE. 64-2280 21

청운체육관.asia
에어로빅 T.87-8366 태권도

성원돼지집
국밥 집 64 715-6111 2F

정원.ASIA
83-8686

성원.ASIA
161-6106 1F

매일회지
산지적송
자연산물어

함지박
TEL: 262-8082 8083

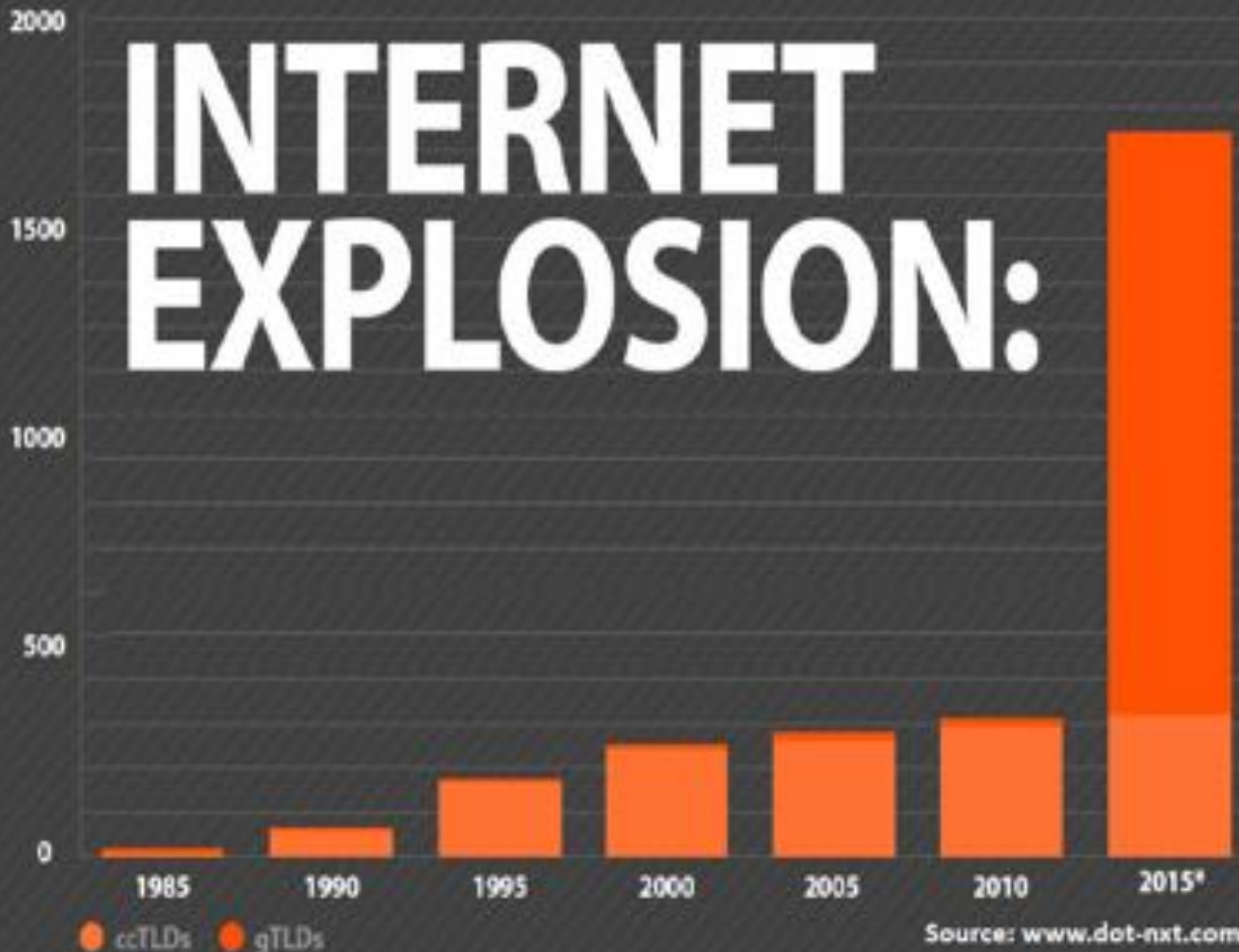
284-6611 1층 상가

성원감자탕
감자탕 전문점 715-3993 지하

제일화재
261-0616-7

Local businesses are known in their local language names

INTERNET EXPLOSION:



書籍 机构 セール 通販 游戏 谷歌
政务 在线 موقع 娱乐 公益 中文网 一号店 亚马逊
sंगठन ฟูアツシヨン 商城 ڪاٺوليك 莫斯科 飞利浦
kатолик بيتك 佛山 嘉里大酒店 网址 ぐる
ストア 盛貿飯店 рус 點看 中信 企业 家電 淡馬錫
健康 大拿 كوم 信息 онлайн 商店 香港電訊 همراه 食品 天主教
慈善 招聘 网店 手机 بازار 닷컴 ابوظبي 餐厅 дети 诺基亚
орг شبكۃ 盛貿飯店 微博 香格里拉 جوزايك 政府
购物 vermögensberater काम 手表 ポイント 新闻 ال عليان
移动 八卦 اتصالات 深圳 موبايلى vermögensberatung
大众汽车 联通 닷넷 网络 欧莱雅 сайт 普利司通
電訊盈科 网站 世界 广东 点看 नेट 通用电气公司
クラウド 集团 KOM 时尚 公司 삼성 嘉里 アマゾン
كويوتل كوم ارامكو 我爱你 珠宝
机构体制



The Reality





Universal Acceptance

Helvetica

To: Eopxc@npwep.p@

Cc: <mailto:رسيل السعودية حجازة@رسيل السعودية>

Bcc: 微软测试@互联网.中国 <微软测试@互联网.中国>

Subject: Universal Acceptance

From: Lars Steffen - mail@larsstefen.de

Signature:

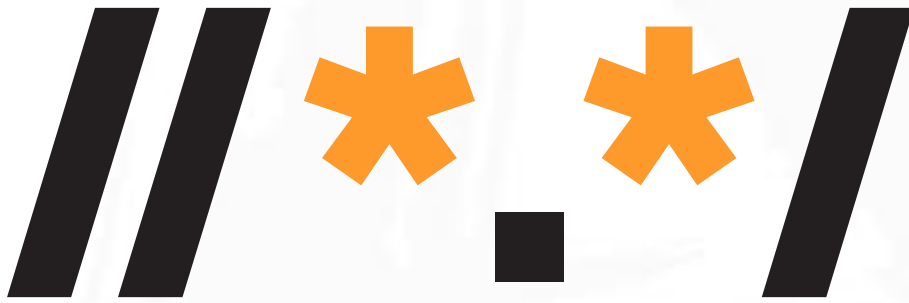
Hi



Warning

"Eopxc@npwep.p@" does not appear to be a valid email address. Verify the address and try again.

Cancel Send Anyway



Universal Acceptance

Welcome to Facebook - Log In, Sign Up ...

https://www.facebook.com/index.php?stypes=lo&hs=Ac9ocPtljyR2w6ps

facebook

Email or Phone: Password: Log In

Keep me logged in Forgot your password?

Heading out? Stay connected
Visit facebook.com on your mobile phone.

Get Facebook Mobile

Sign Up
It's free and always will be.

First Name: Using IDN

Last Name:

Your email: someone@idndomain.中國

Re-enter email: someone@idndomain.中國

New Password:

Please enter a valid email address.

Definition

“Universal Acceptance (UA) ensures that all domain names and email addresses can be used by all Internet-enabled applications, devices and systems.”

Universal Acceptance Steering Group



Who is involved...



How to get
Universal Acceptance ready?



What Does “Universal Acceptance” Mean?



ACCEPT



VALIDATE



STORE



PROCESS



DISPLAY

Software and online services support Universal Acceptance when they offer the capabilities listed above for all domains and email names.

Universal Acceptance (UA) is the state where all valid domain names and email addresses are accepted, validated, stored, processed and displayed correctly and consistently by all internet-enabled applications, devices and systems. Due to the rapidly changing domain name landscape, many systems do not recognize or appropriately process new domain names, primarily because they may be more than three characters in length or in a non-ASCII format. The same is true for email addresses that incorporate these new extensions.

The Universal Acceptance Steering Group (UASG), established by Internet Corporation for Assigned Names and Numbers (ICANN), is a community-led, industry-wide initiative working on creating awareness and identifying and resolving problems associated with the universal acceptance of domain names. The purpose of these efforts is to help ensure a consistent and positive experience for internet users globally.

For more information on the UASG and recent developments, visit:
<https://goo.gl/k8Byax>.

 Universal
Acceptance

Note that accept, validate and process are treated as distinct in this document. In actual practice these capabilities may overlap.

UASG Activities



Review

Popular Websites, Dev Frameworks, Browsers, OS



Build

Use Cases, Test Environments, EAI Community



Outreach

Live Workshops, Panel Discussions, Presentations



Writing

Knowledge Databases, Whitepapers, Quick Guides

Why should you care?



ABC Associates

Attorneys at Law

John Smith
Vice President

123 Main Street
Washington, DC 20005
Tel 202.123.4567
Fax 202.123.4568

jsmith@abc.com
www.abc.com

約翰·使密夫
副總裁

123 第一大道
華盛頓DC 20005

電話: (202) 123-4567

傳真: (202) 123-4568

電子郵件: jsmith@abc.com



网站

Internet of Things (IoT)

fridge.jiro.box
家電.次郎.世界

tv.jiro.box
テレビ.次郎.世界

sink.jiro.asia
厨房.次郎.世界

oven.jiro.asia
オーブン.次郎.世界

Internet of Names

A smart city is an open city

- Open data
- Open standards
- Open infrastructure
- Open culture
- Open for everyone





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

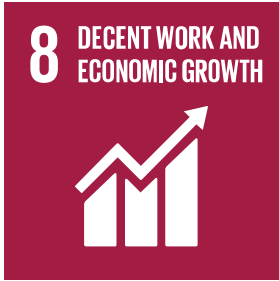
15 LIFE ON LAND

16 PEACE AND JUSTICE STRONG INSTITUTIONS

17 PARTNERSHIPS FOR THE GOALS

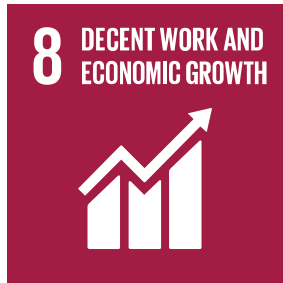
THE GLOBAL GOALS
For Sustainable Development

Infrastructure Development



- 8.2 Achieve higher levels of economic productivity through diversification, technological upgrading and innovation, including through a focus on high-value added and labour-intensive sectors
- 9.1 Develop quality, reliable, sustainable and resilient infrastructure, including regional and transborder infrastructure, to support economic development and human well-being, with a focus on affordable and equitable access for all
 - 9.a Facilitate sustainable and resilient infrastructure development in developing countries through enhanced financial, technological and technical support to African countries, least developed countries, landlocked developing countries and small island developing States
 - 9.b Support domestic technology development, research and innovation in developing countries, including by ensuring a conducive policy environment for, inter alia, industrial diversification and value addition to commodities
 - 9.c Significantly increase access to information and communications technology and strive to provide universal and affordable access to the Internet in least developed countries by 2020
- 11.a Support positive economic, social and environmental links between urban, peri-urban and rural areas by strengthening national and regional development planning
- 12.6 Encourage companies, especially large and transnational companies, to adopt sustainable practices and to integrate sustainability information into their reporting cycle
- 12.7 Promote public procurement practices that are sustainable, in accordance with national policies and priorities
- 12.a Support developing countries to strengthen their scientific and technological capacity to move towards more sustainable patterns of consumption and production

Cultural Diversity, Heritage, Social & Environmental Development



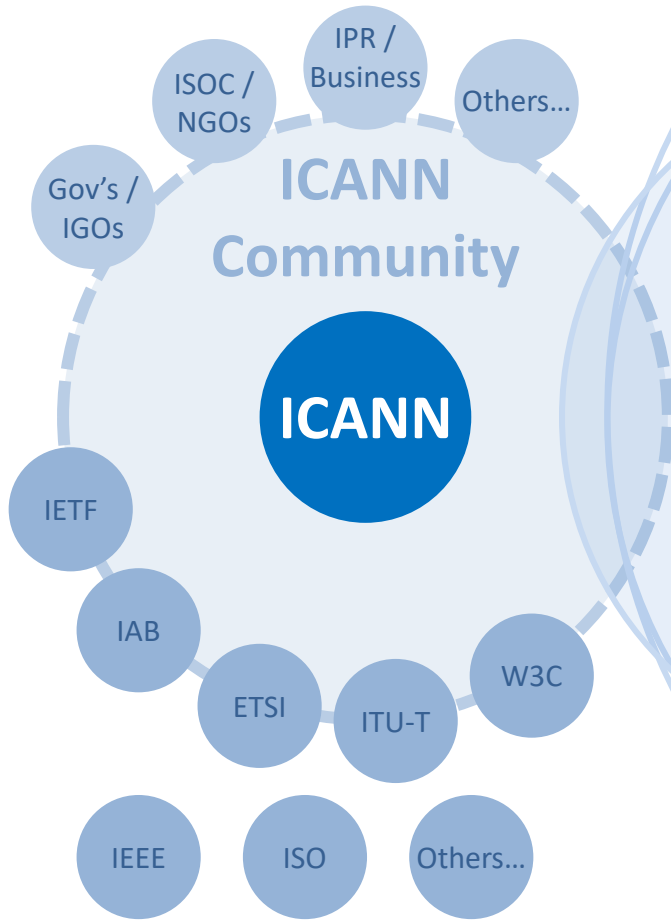
- 4.7 By 2030, ensure that all learners acquire the knowledge and skills needed to promote sustainable development, including, among others, through education for sustainable development and sustainable lifestyles, human rights, gender equality, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and of culture's contribution to sustainable development
- 8.9 By 2030, devise and implement policies to promote sustainable tourism that creates jobs and promotes local culture and products
- 11.4 Strengthen efforts to protect and safeguard the world's cultural and natural heritage
- 12.b Develop and implement tools to monitor sustainable development impacts for sustainable tourism that creates jobs and promotes local culture and products
- 6.b Support and strengthen the participation of local communities in improving water and sanitation management
- 13.b Promote mechanisms for raising capacity for effective climate change-related planning and management in least developed countries and small island developing States, including focusing on women, youth and local and marginalized communities
- 15.c Enhance global support for efforts to combat poaching and trafficking of protected species, including by increasing the capacity of local communities to pursue sustainable livelihood opportunities

YOUTH MOBILITY
INDEX 2018



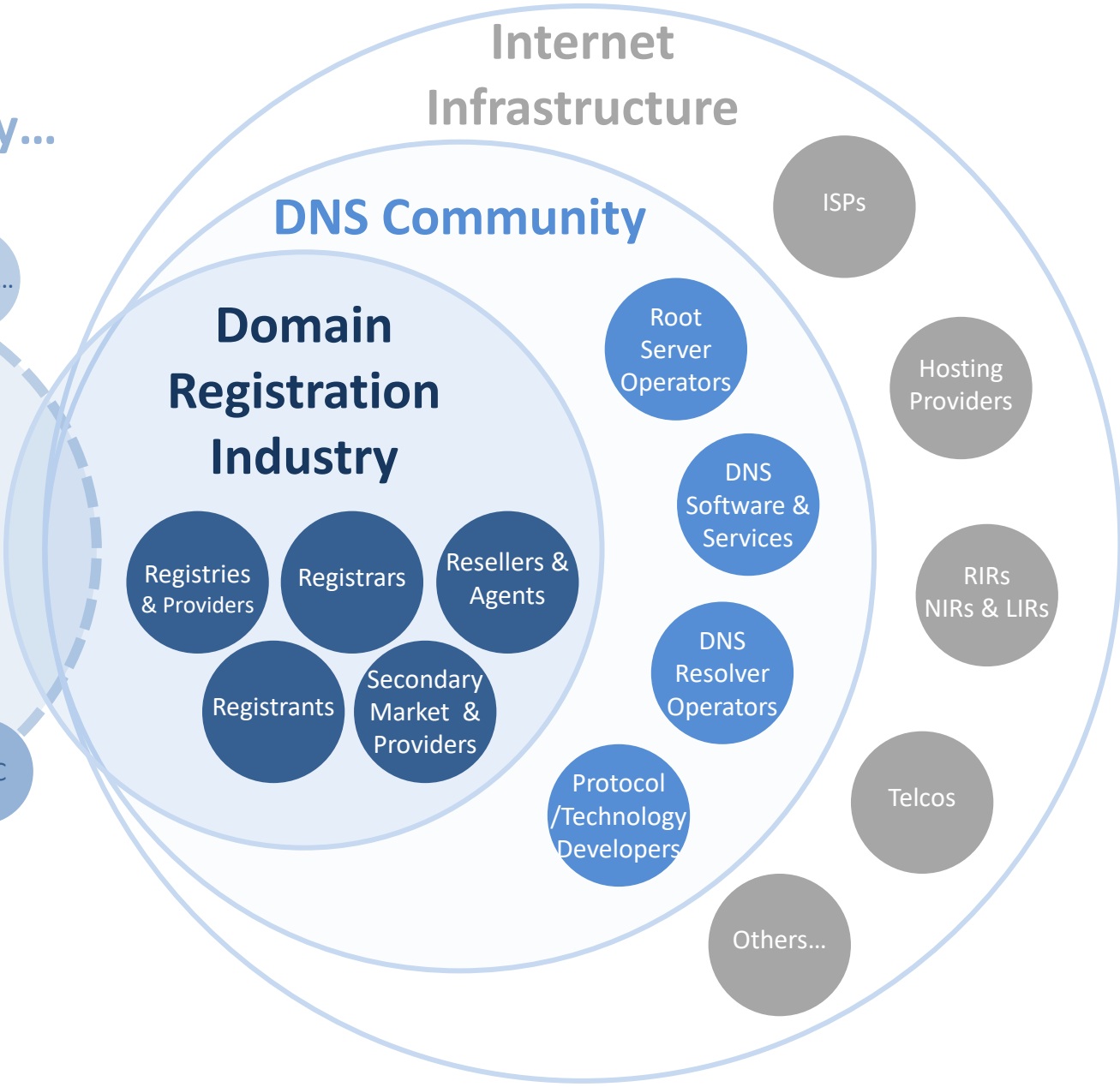
#YouthMobilityAs
CompetitiveAdvantage

Internet Community...



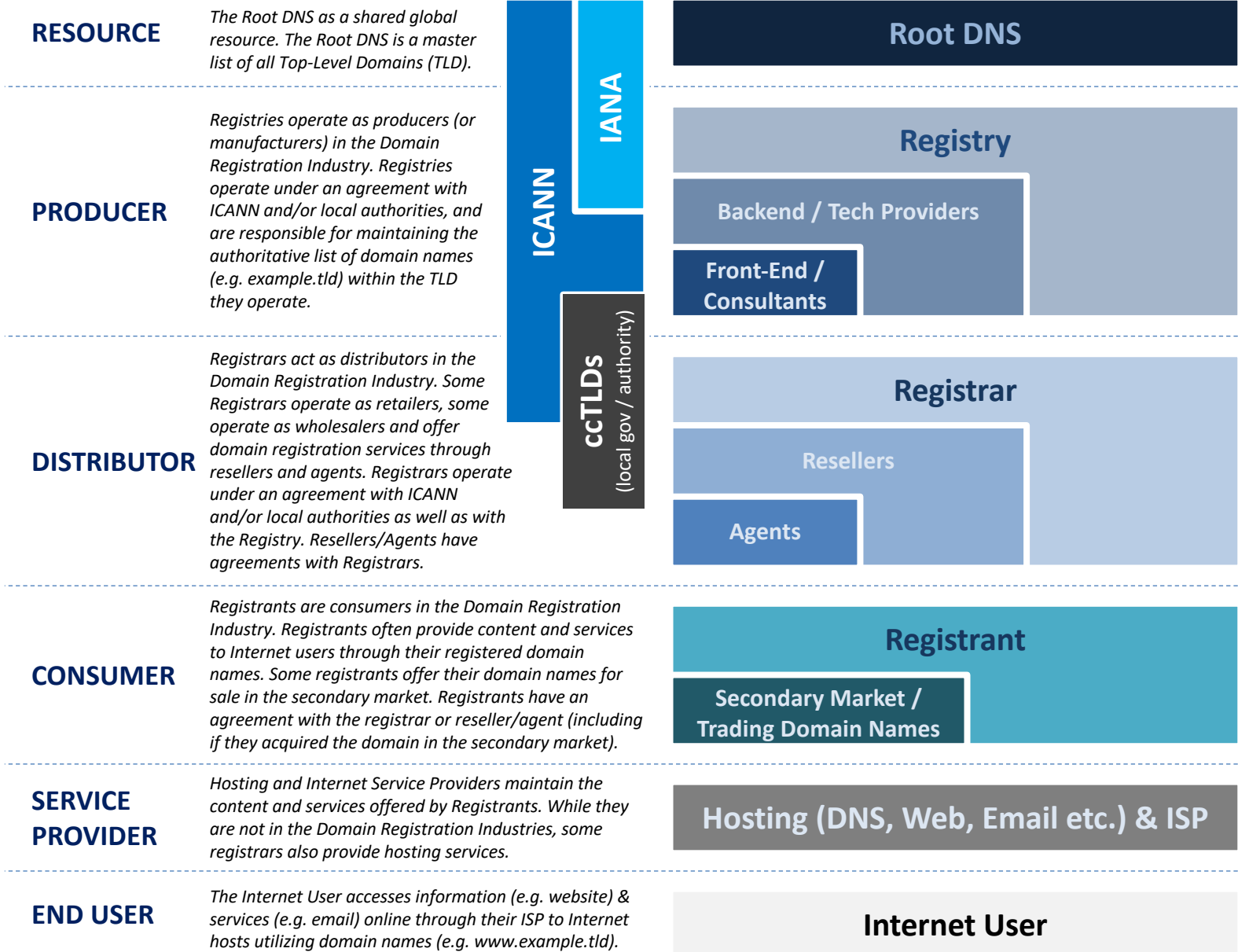
Standards / Policy Coordination ...

Internet Infrastructure



Policy Coordination

ICANN is the global policy coordination body for the Internet's root DNS. All generic TLD (gTLD) Registries and Registrars have an agreement with ICANN. Some Country Code TLD (ccTLD) Registries also have an agreement with ICANN, some ccTLDs are governed by local authorities. All TLDs maintain a relationship with IANA who administers the root DNS.



Domain Registration Industry

DNS Community / Internet Infrastructure



Universal Acceptance ready

- * Accept, Support, Use and Show Unicode.
- * Store Information in UTF-8.
- * Accept Strings up to 256 characters.
- * Validate as little as possible.
 - * Verify TLDs against authoritative table.
 - * Query domain name against DNS.



Universal Acceptance ready

- * When developing app / service, or operating a registry, consider languages supported.
- * Perform code reviews.
- * Check code points that were not defined when application / service was created.



Universal Acceptance ready

- * Consider mixed-script addresses become more common.
- * Convert non-Unicode to Unicode before display.
- * Use Unicode IDNA Compatibility Processing to match user expectations.
- * End user should see “everyone.みんな” vs. “everyone.xn--q9jyb4c.”

Encountering UA issues?

uasg.tech/global-support-centre

A decorative border at the bottom of the slide consisting of a repeating pattern of triangles in various shades of gray, creating a textured, geometric effect.

Further information

- * Visit uasg.tech
- * Visit bit.ly/icannUA
- * Visit github.com/icann



- * Get your Universal Acceptance Quick Guide!

Email:

Your email...

Password:

Your password...

LOGIN TO ACCOUNT



How many APPs would a
user download?
Really...

大閘蟹.asia

大閘蟹專門店

Home Posts Photos About Likes Videos

Create a Page

訂購流程

1. 易學訂貨 - WhatsApp/Wechat/Email
2. 即時回響 - 服務範圍
3. 精選蟹類 - 大閘蟹
4. 送到府上/海濱城/酒店/公司
5. 保證新鮮 - 保證送到
6. 免費送貨 - 信心之選

簡單方便 免費送貨 保證新鮮 信心之選

十多年老店 誠信成立 第10年

大閘蟹專門店

66225224 靚蟹

Liked Following Share Call Now Message

Featured For You

Get in touch with 大閘蟹專門店

Save 大閘蟹專門店 to visit it later

95% response rate
Typically replies within minutes

中秋節、食月餅、玩燈籠
大閘蟹專門店祝大家中秋快樂

Company

Invite friends to like this Page

免費送貨 - 直銷可送到海濱城或府上(保過火燭), 小量訂購可送到任何地點
M: 6622 5224 可 whatsapp/Wechat

7,340 Likes
Leona Chan-Dietzer and 4 other friends like this

About See All

66225224

Typically replies within minutes
Message flow

www.facebook.com/hairycrab

Company

Becky Bam replied to her own comment

Heather Reed likes Ching Chan's post in Wicked Women's Network

Nick Ashton likes and Richard Westlake are now friends

Pavan Buthran

Ben Cheng

Kus Wan Ho

Ching Chan

Joseph Kee-Yin Ng

Charles Lee

Jacky Tsai

William Kong

Keith Hong

Christian Dawson

Chris LaHalle

Ken Fong

Albert Cheng

Victor Fung

Jay Wisecover



NETMISSION.asia

Youth engagement program on Internet Governance & Digital Inclusion. Ambassadors selected from Universities are trained on global Internet issues and tasked with implementing their own projects. Alumni projects have touched Primary & Secondary School Students and Beyond.



Young Asians Setting Out to Change the World

TH #8

YOUTH MOBILITY
YOUTH OLYMPICS 2018



#YoungAsiansTakingOnTheWorld



#YouthMobility #YouthOlympics #RiseWithAsia

www.ymi.asia



www.ymi.asia

Youth Mobility Index (YMI.Asia) Methodology

	Outbound Mobility	Inbound Mobility	Startup Mobility	Sustainability	Internet Factor
Education					
Employment					
Entrepreneurship					

3 Core Sectors

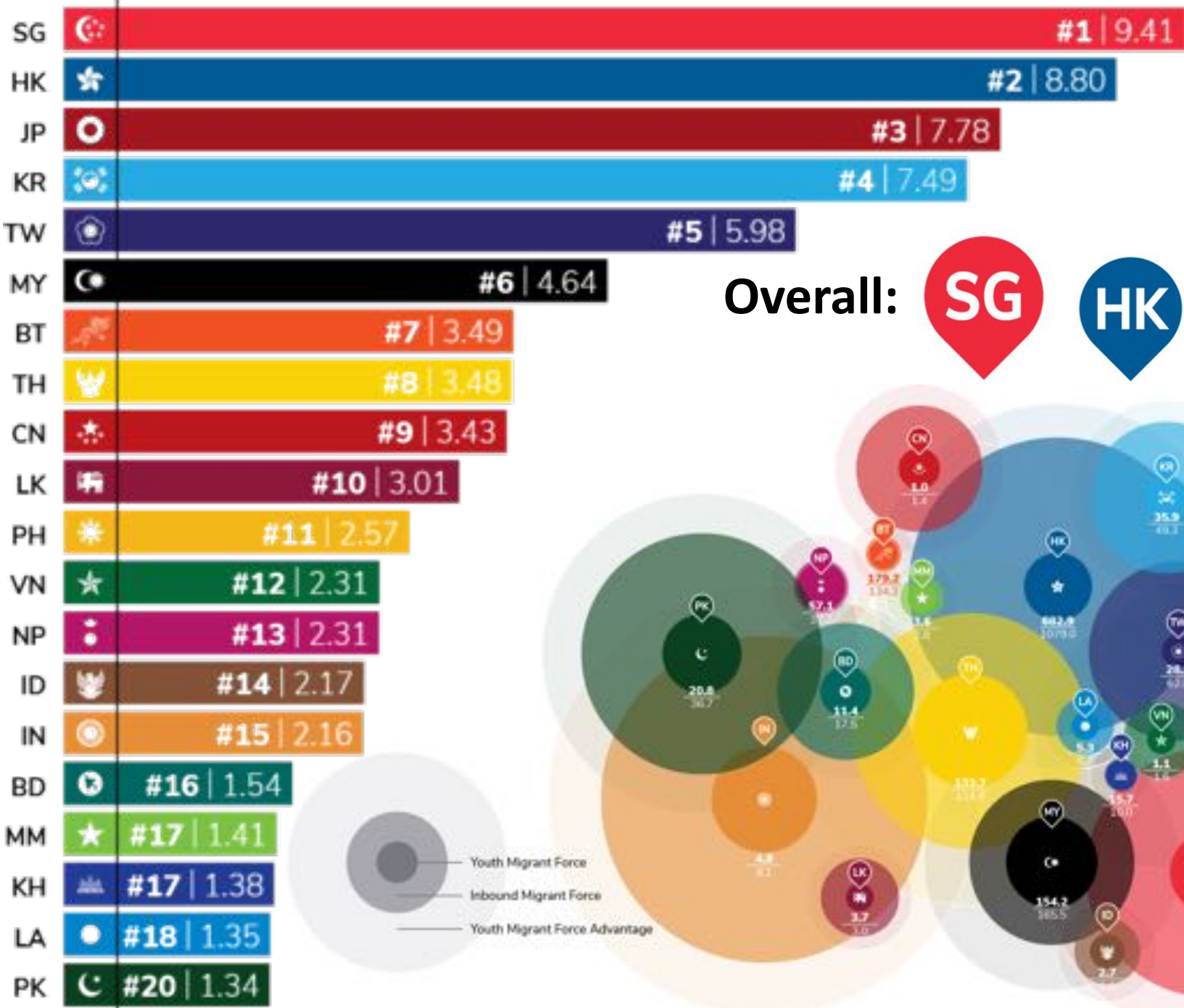
5 Mobility Vectors

15 Components

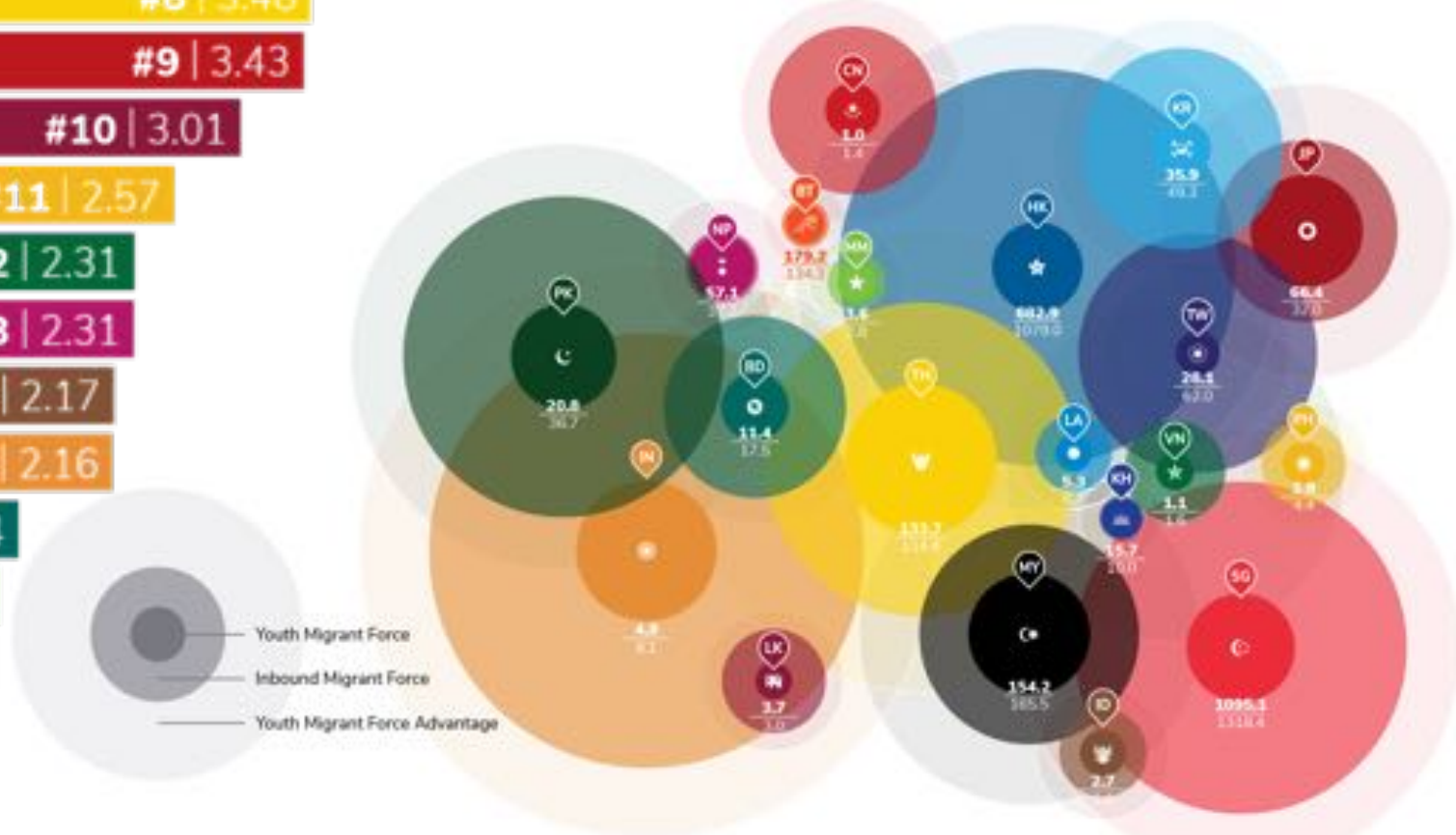
60 Indicator Compounds

3 Core Sectors
× 5 Mobility Vectors
= 15 Components
× 4 Dimensions Each
= 60 Indicator Compounds

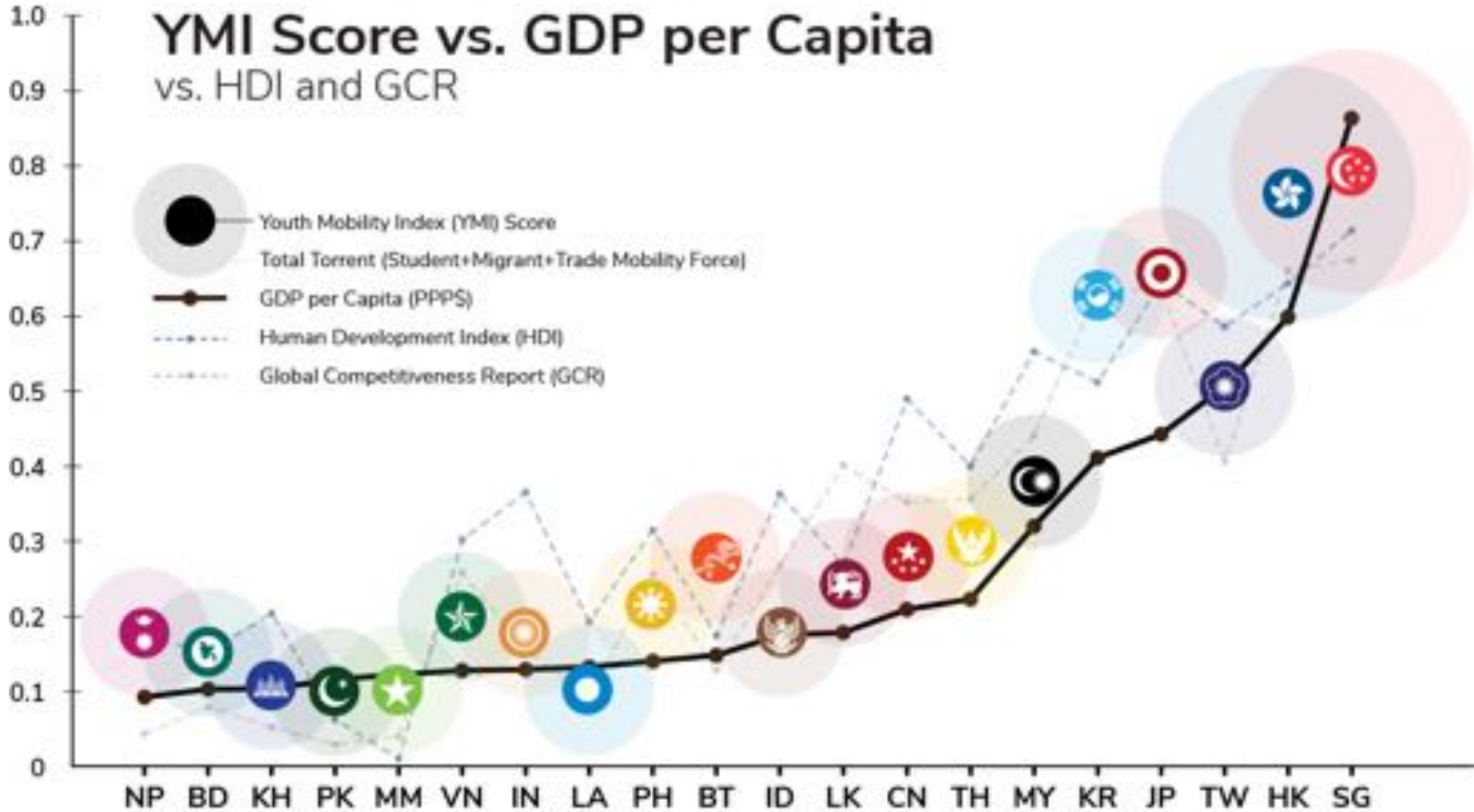
Each Indicator Compound Combines 2 or more Socio-Economic Indicators (e.g. GDP, No. Outbound Migrants, Internet Users, etc.). A total of 216 Indicators are used in the YMI 2018 calculations.



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



YMI Score vs. GDP per Capita vs. HDI and GCR



Digital Mobility 移動力



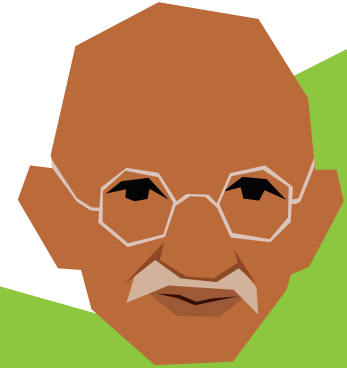
The Internet lives
where anyone can
access it.

VINT CERF
*Father of
the Internet*



The future
depends on
what you
do today.

MAHATMA GANDHI





Universal Acceptance: Local Languages Global Standards

2018.07.25 | APIGA | Gwangju

Edmon Chung

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from.Asia / for.Asia



.asia
#RiseWithAsia



Every .Asia Domain
Contributes to Internet
Development in Asia

