

網路發展趨勢研習營

前瞻資通訊發展及應用之國際趨勢
主要國家發展策略

TH Schee 徐子涵 - 2015 Jan 24 Taipei
v20150122



開放、互連、湧現

您看到...

壹. 從ㄉㄉㄇㄻ開始

什麼是網路世代？

- Leonard Kleinrock - 1934年生
- Bob Kahn - 1938年生
- Vint Cerf - 1943年生

Fadi Chehadé - 1962年生，ICANN CEO 是比較年輕了。

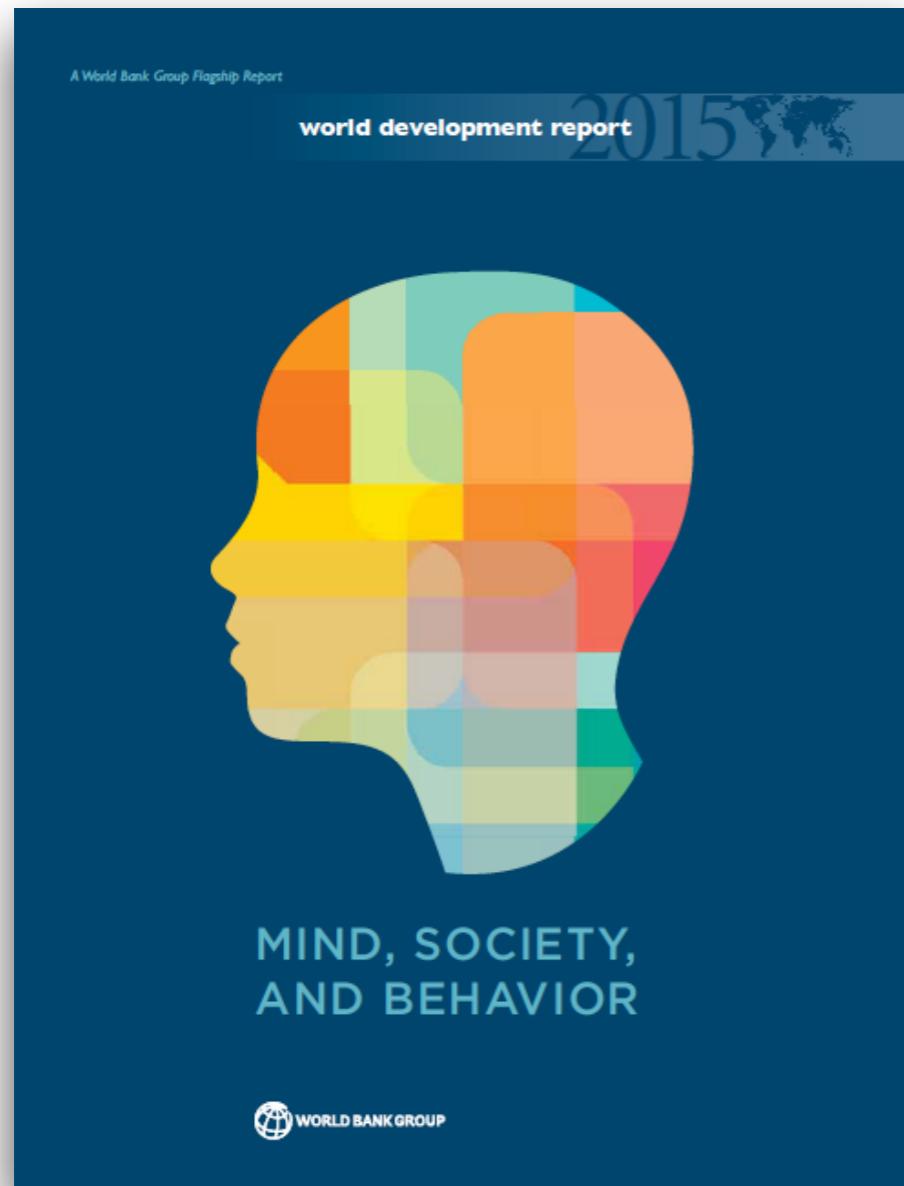
UNGA: WSIS

UN: MDG

ITU: ICT Development Index

OECD: KII

WEF: GCR



WBG: WDR 2015

CDP Carbon Disclosure Project

CLTS Community-Led Total Sanitation

EE entertainment education

FAFSA Free Application for Federal Student Aid

HDI Human Development Index

HPA hypothalamic-pituitary-adrenal

IPCC Intergovernmental Panel on Climate Change

KAP knowledge, attitudes, and practices

MFI microfinance institution

NGO nongovernmental organization

OECD Organisation for Economic Co-operation and Development

ORS oral rehydration salts

ORT oral rehydration therapy

PATHS Promoting Alternative Thinking Strategies

R&D research and development

RCT randomized controlled trial

ROSCA rotating savings and credit association

RSV relative search volume

SES socioeconomic status

SMarT Save More Tomorrow

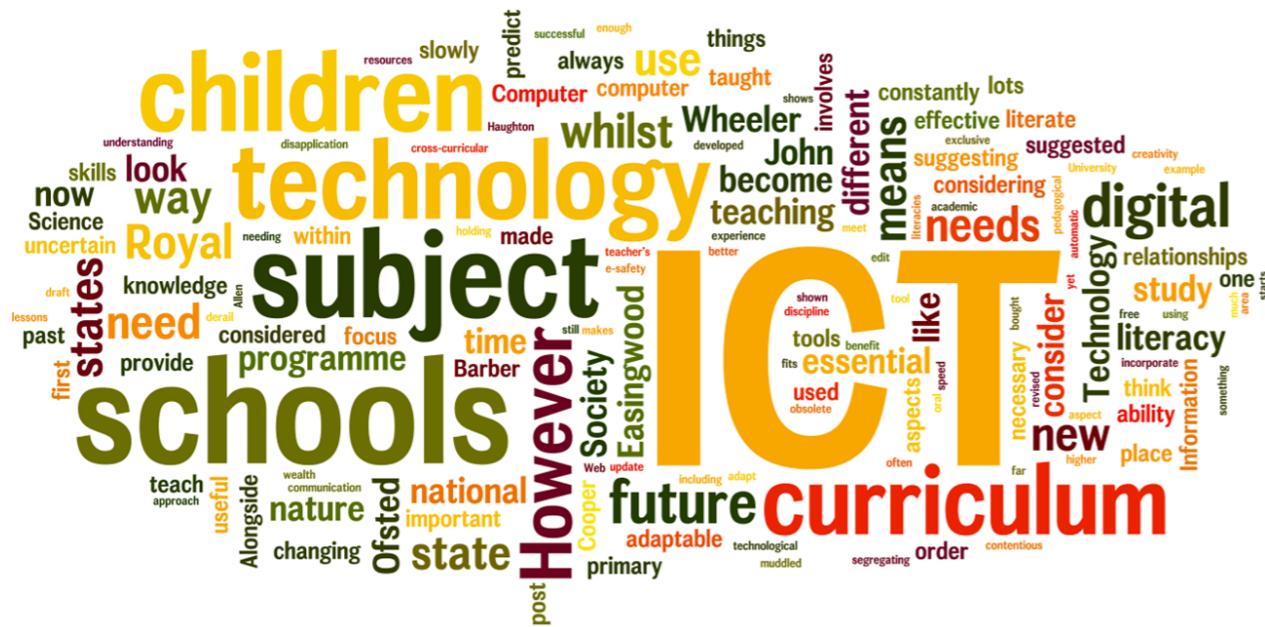
SMS short messaging service

UNICEF United Nations Children's Fund

WDI World Development Indicators (database)

WDR 2015 team team for the 2015 World Development Report
<http://schee.info>

WHO World Health Organization



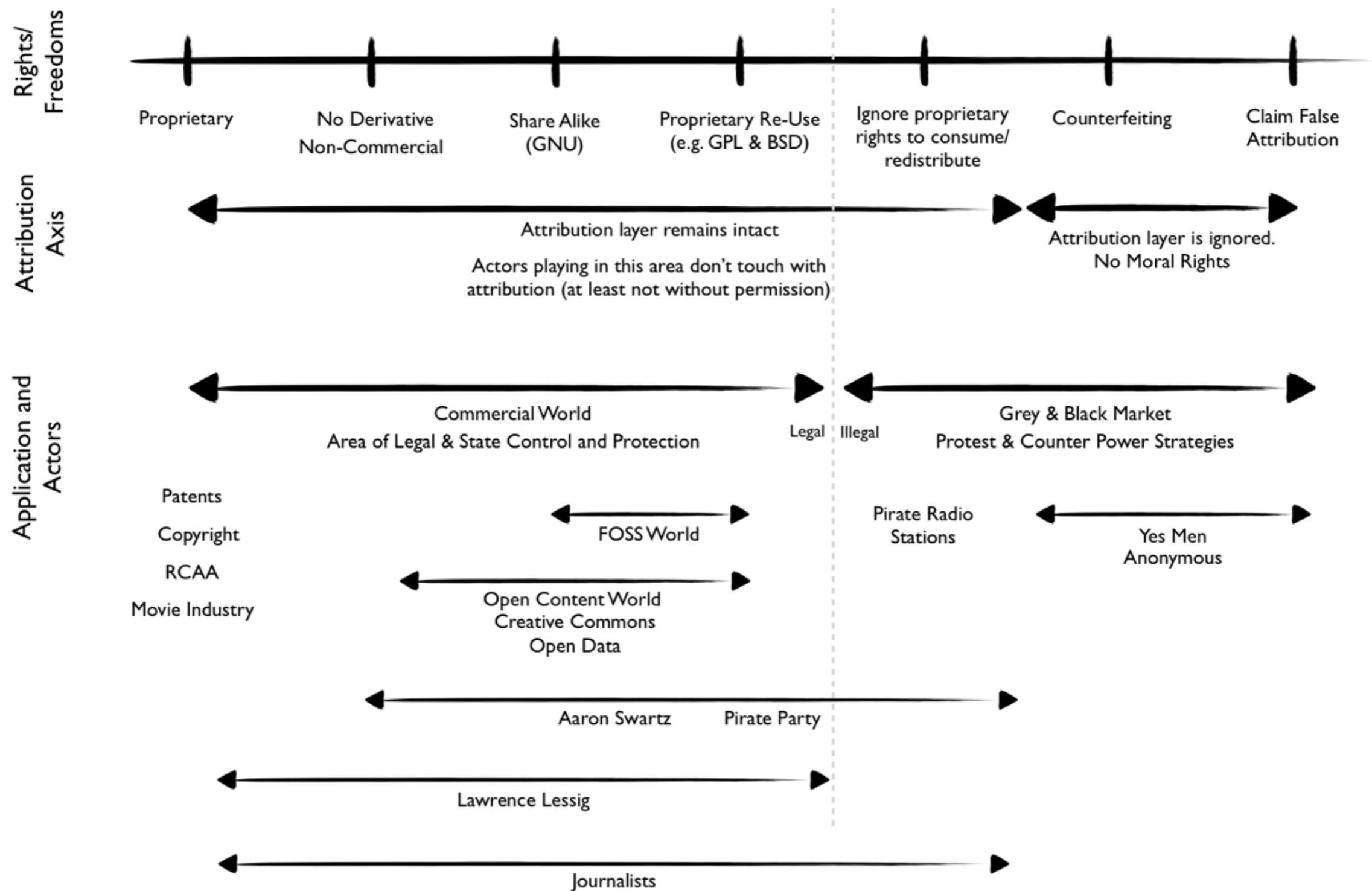
<http://www.digitalmeetsculture.net/article/preforma-the-berlin-open-data-culture-hackathon/>

<https://ict4dblog.wordpress.com/2014/01/30/analysing-the-post-2015-development-agenda/>

<http://mypad.northampton.ac.uk/cmcdonald/>

<http://schee.info>

Mapping the Definition and Use of Open



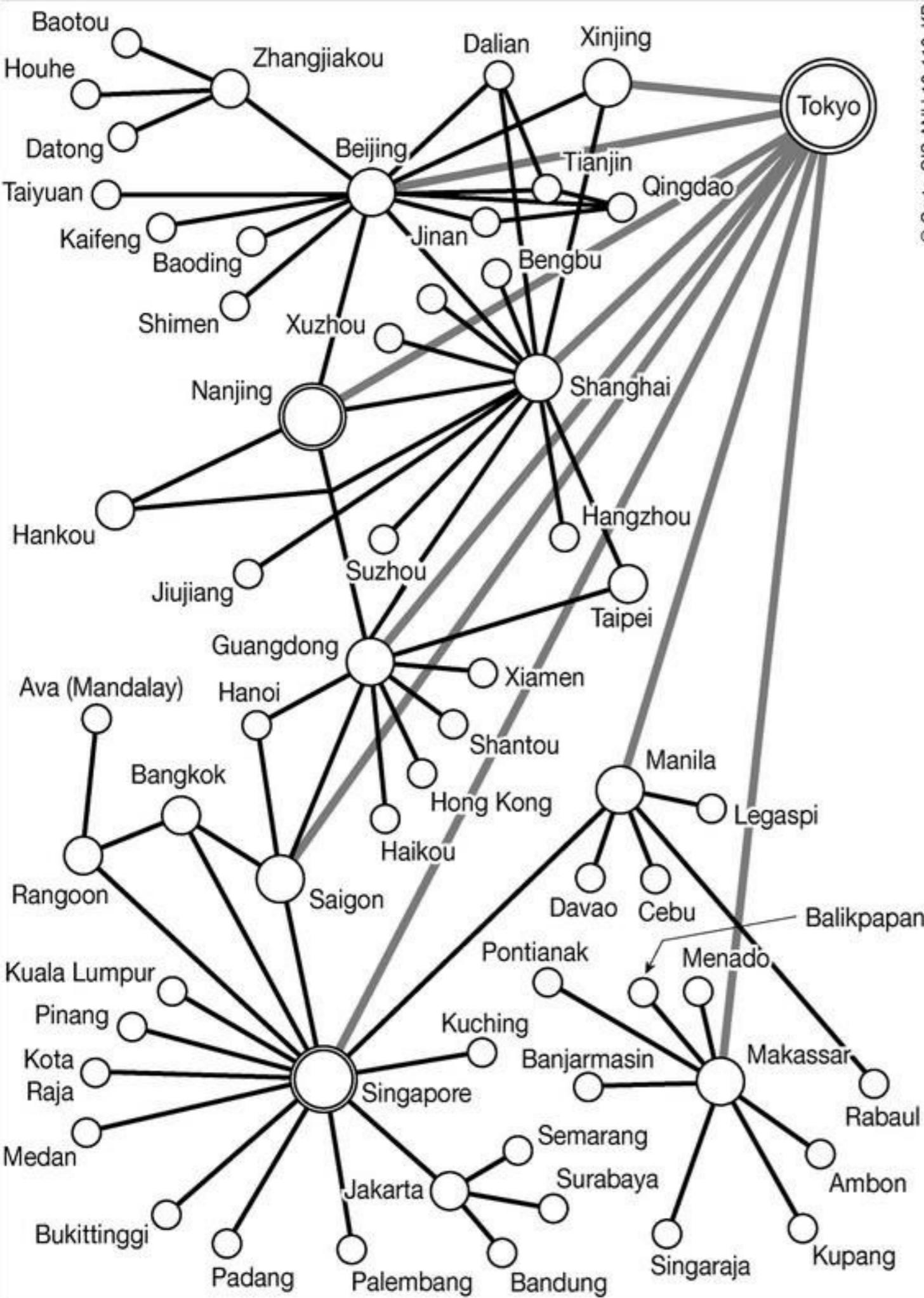
<http://techpresident.com/news/wegov/24244/beyond-property-rights-thinking-about-moral-definitions-openness>

<http://schee.info>

貳. 不缺什麼 缺如何

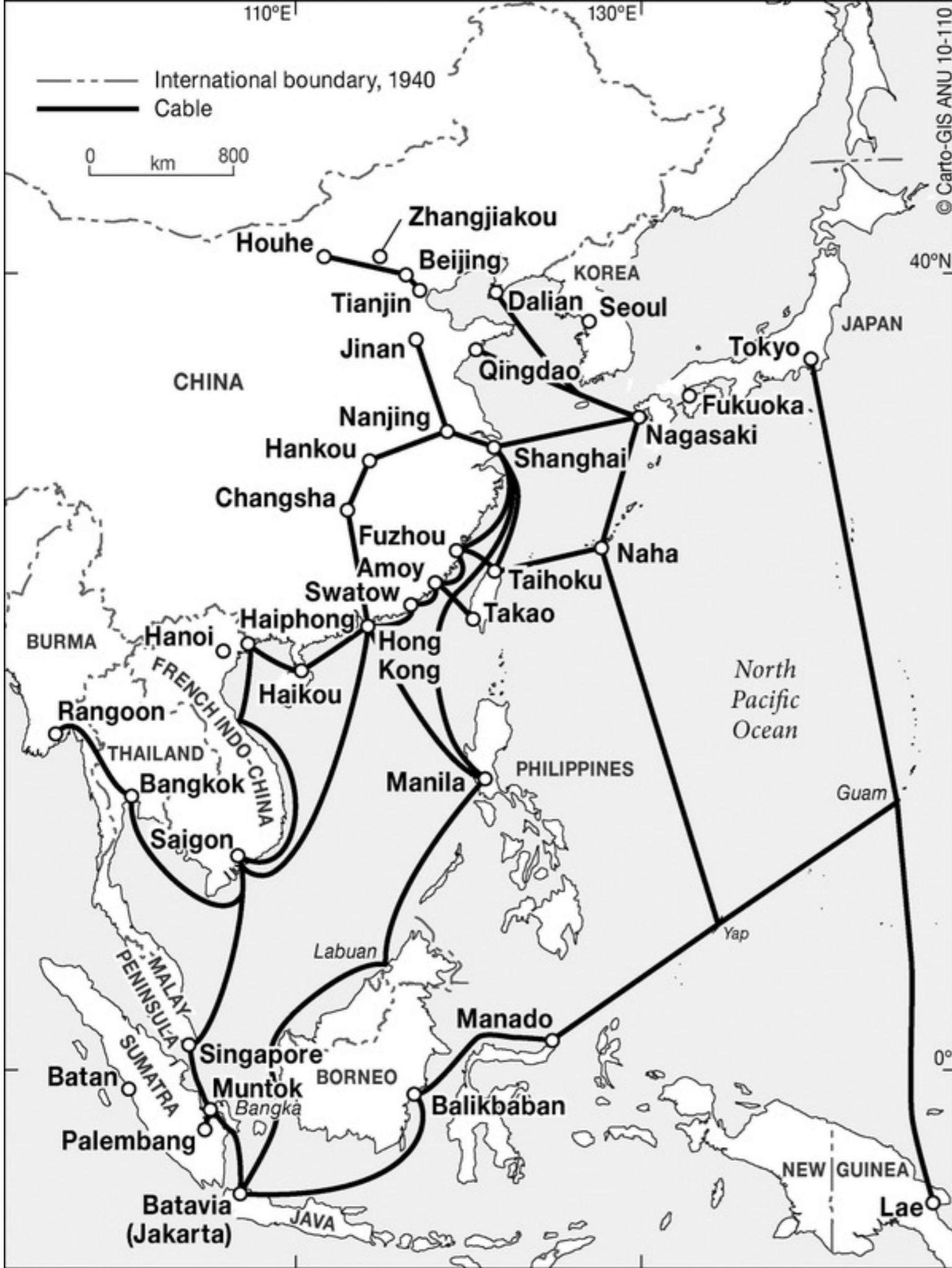


- 前瞻洞見和願景 foresight & vision
- 經濟體條件 constraints of economies
- 政策食譜 cookbook
- 治理機制 governing & steering
- 知識、資訊的開放 diffusion of knowledge & data
- 網絡途徑 networked approach



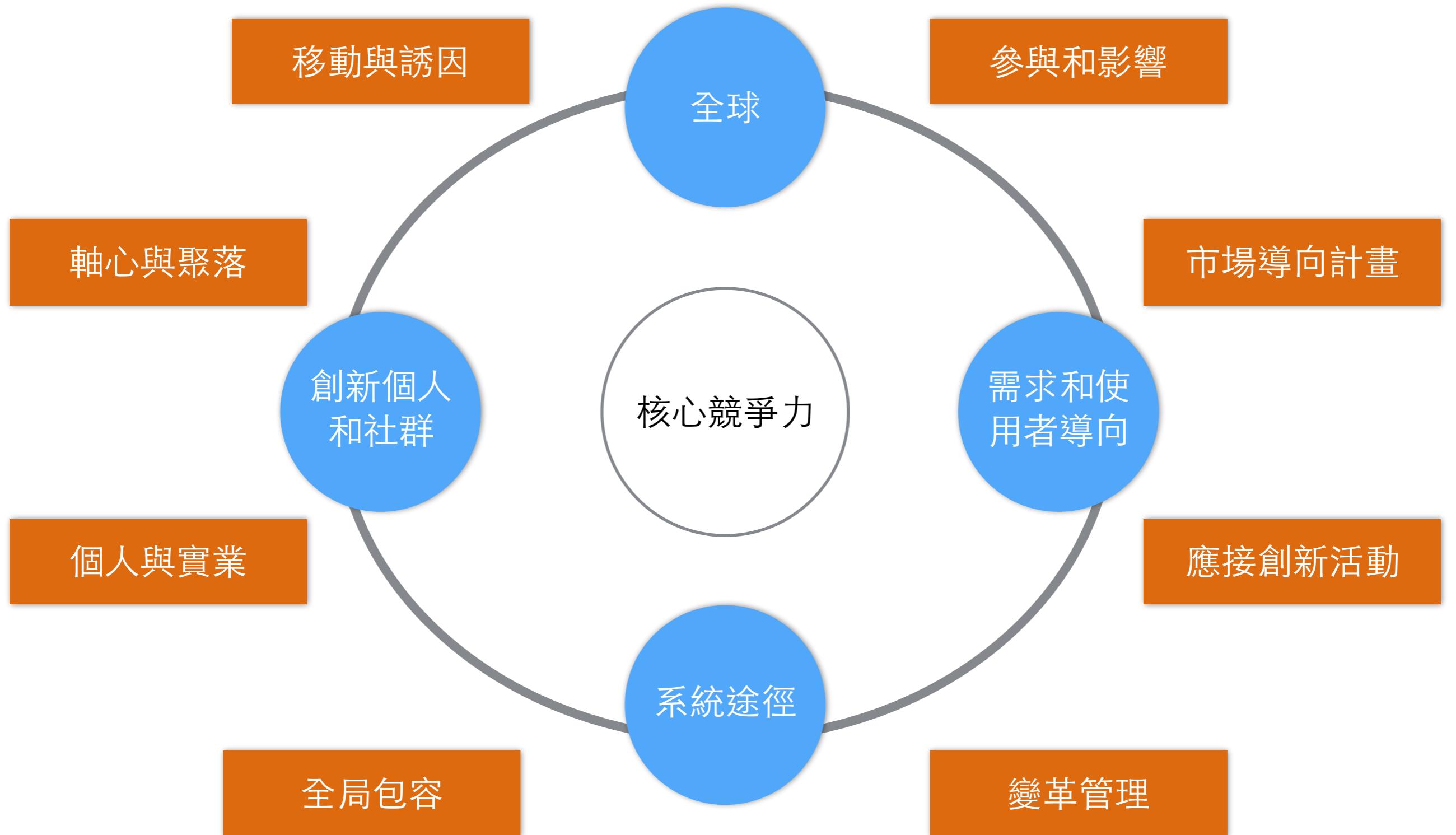
© Carto-GIS ANU 10-110_KP

Tomoko Akami, **Japan's News Empire** and the Domei News Agency in Occupied Southeast Asia, 1942-1945



Cable Network in Asia and Western Pacific, 1940

Source: Daniel R. Headrick, *The Invisible Weapon: Telecommunication and International Politics, 1851–1945* (Oxford: Oxford University Press, 1991); Bernard Finn and Daqing Yang eds, *Communications under the Seas: The Evolving Cable Network and Its Implications* (London: The MIT Press, 2009); and various other sources.



Redrawn from MEE Group 2008a

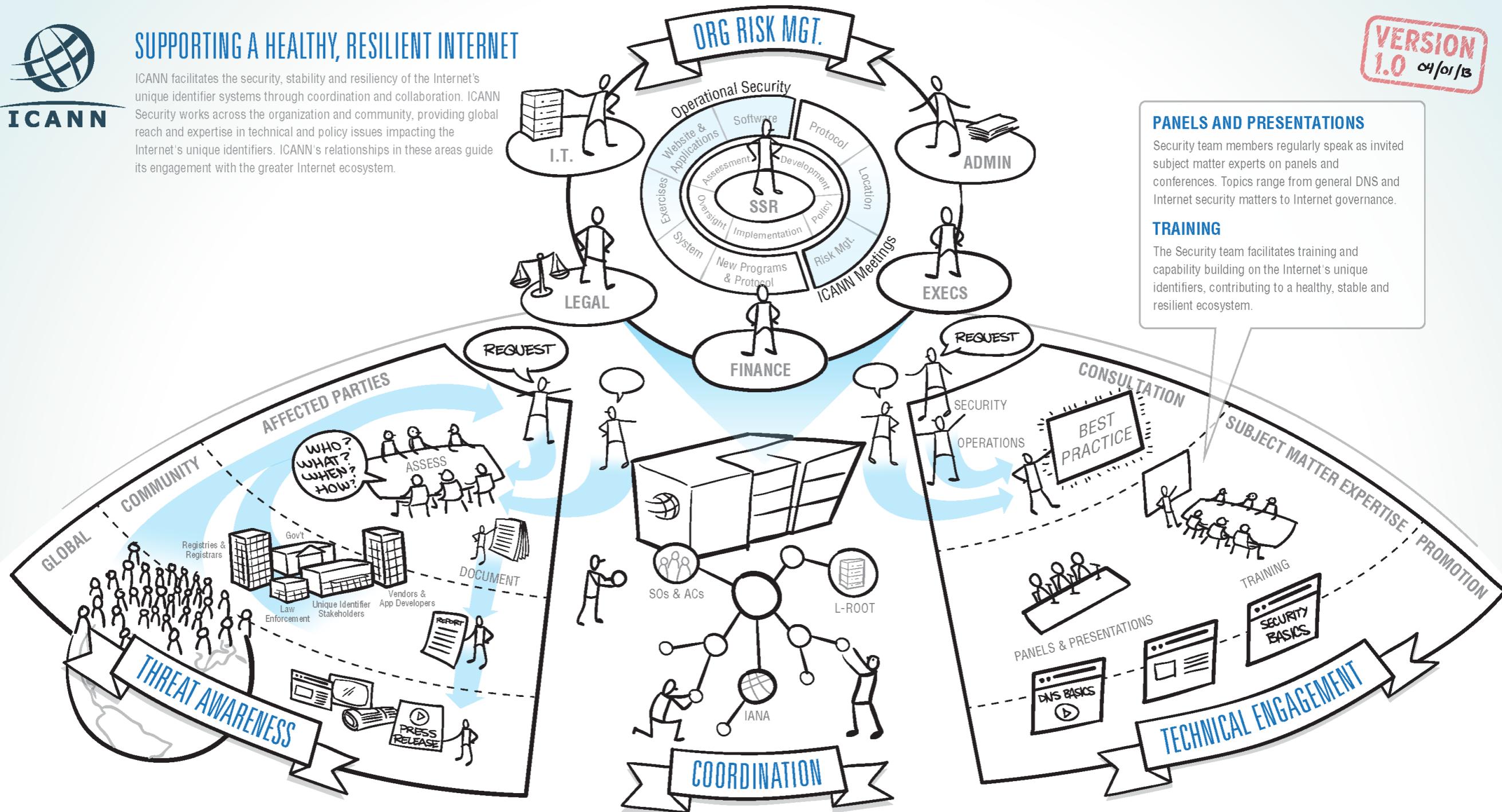
<http://schee.info>



SUPPORTING A HEALTHY, RESILIENT INTERNET

ICANN facilitates the security, stability and resiliency of the Internet's unique identifier systems through coordination and collaboration. ICANN Security works across the organization and community, providing global reach and expertise in technical and policy issues impacting the Internet's unique identifiers. ICANN's relationships in these areas guide its engagement with the greater Internet ecosystem.

VERSION
1.0 04/01/13



COORDINATE & COLLABORATE



PUBLICIZE & PROMOTE



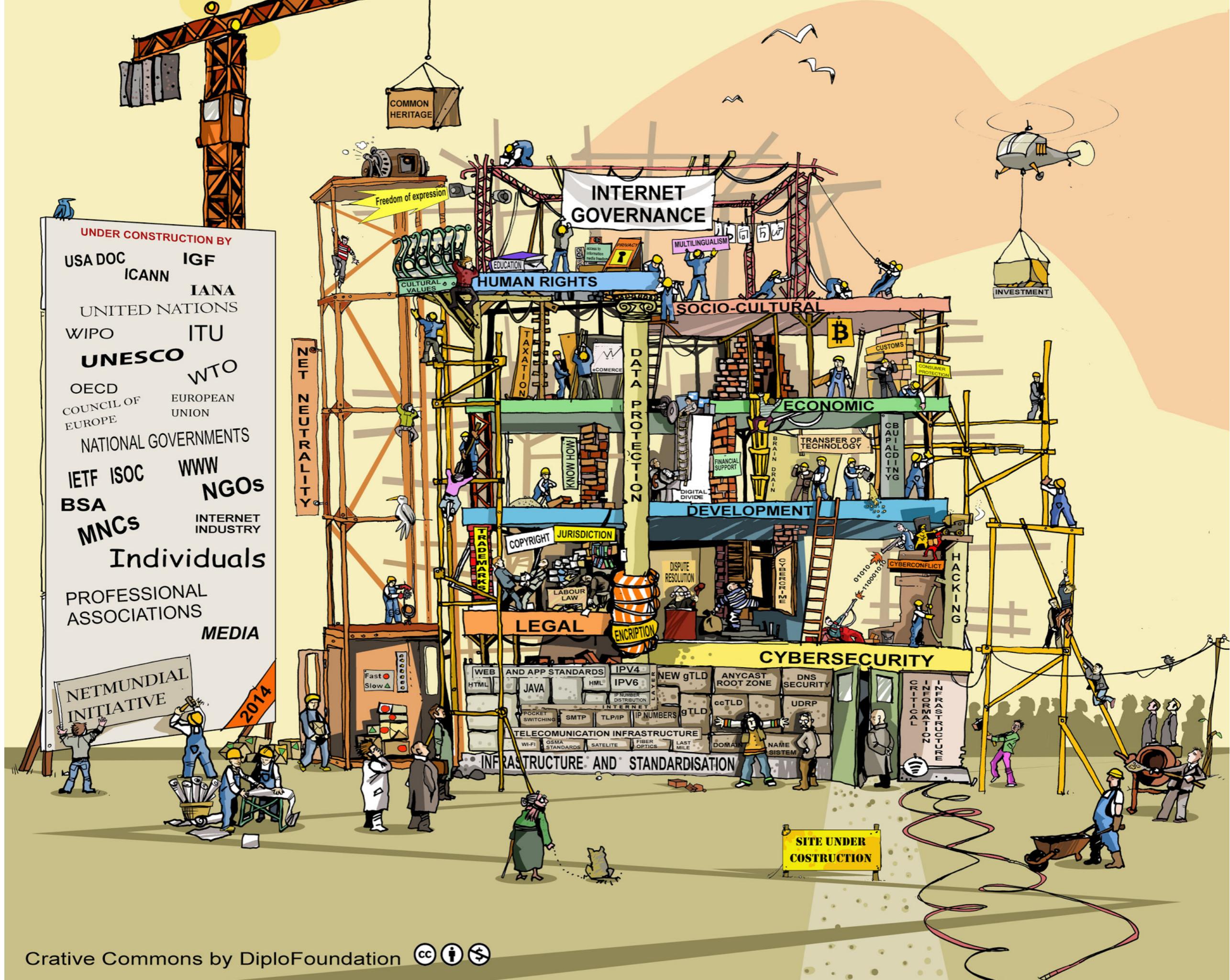
CONSULT & ADVISE



REVIEW & COMMENT



參. 不缺方向 缺層次



UNCTAD: IG WG

資料庫欄位

- 報告編號 Number of issue in report
- 主事/主辦/地點 Actor/Host/Venue
- 名稱/機制說明 Name/Description of Mechanism
- 機制型態 Type of Mechanism
- 參與機制的功能 Function of Participation Mechanism
- 跨領域途徑 Inter-sectoral Approach
- 地區/國際範圍 Coverage Regional/international
- 可能斷層型態 Type of Possible Gap
- Possible Gap or Gap submitted to the Correspondence Group

http://unctad.org/meetings/en/SessionalDocuments/CSTD_2014_Mapping_InternetDatabase_en.pdf

<http://schee.info>

2. 基礎和標準聚落

- 2.1. 電信基礎
- 2.2. 技術
- 2.3. 網路技術
- 2.4. IP Number
- 2.5. DNS
- 2.6. Root zone
- 2.7. 網路中立性
- 2.8. 雲端運算
- 2.9. 數位匯流
- 2.10. IoT
- 3. 安全聚落
- 3.1. 網路安全
- 3.2. 網路犯罪
- 3.3. 關鍵資訊架構
- 3.4. 網路衝突
- 3.5. 兒少網安
- 3.6. 加密
- 3.7. 垃圾郵件
- 3.8. 電子簽章

- 4. 人權聚落
- 4.1. 言論自由
- 4.2. 隱私與資料保護
- 4.3. 身心障礙者的網路近用

- 4.4. 女性網路權益
- 4.5. 其他人權議題
- 5. 法律聚落
- 5.1. 管轄權
- 5.2. 仲裁
- 5.3. 著作權
- 5.4. 商標
- 5.5. 勞動法
- 5.6. 中介機構
- 6. 商務聚落

6.1. 電子商務

- 6.2. 電子貨幣/虛擬貨幣
- 6.3. 消費者權益保護

6.4. 稅務

7. 國際發展聚落

- 7.1. 寬頻近用
- 7.2. 數位落差
- 7.3. 培力發展
- 7.4. 其他發展議題
- 8. 社會文化聚落
- 8.1. 內容政策
- 8.2. 文化多樣性
- 8.3. 多語
- 8.4. 線上教育
- 8.5. 全球公益

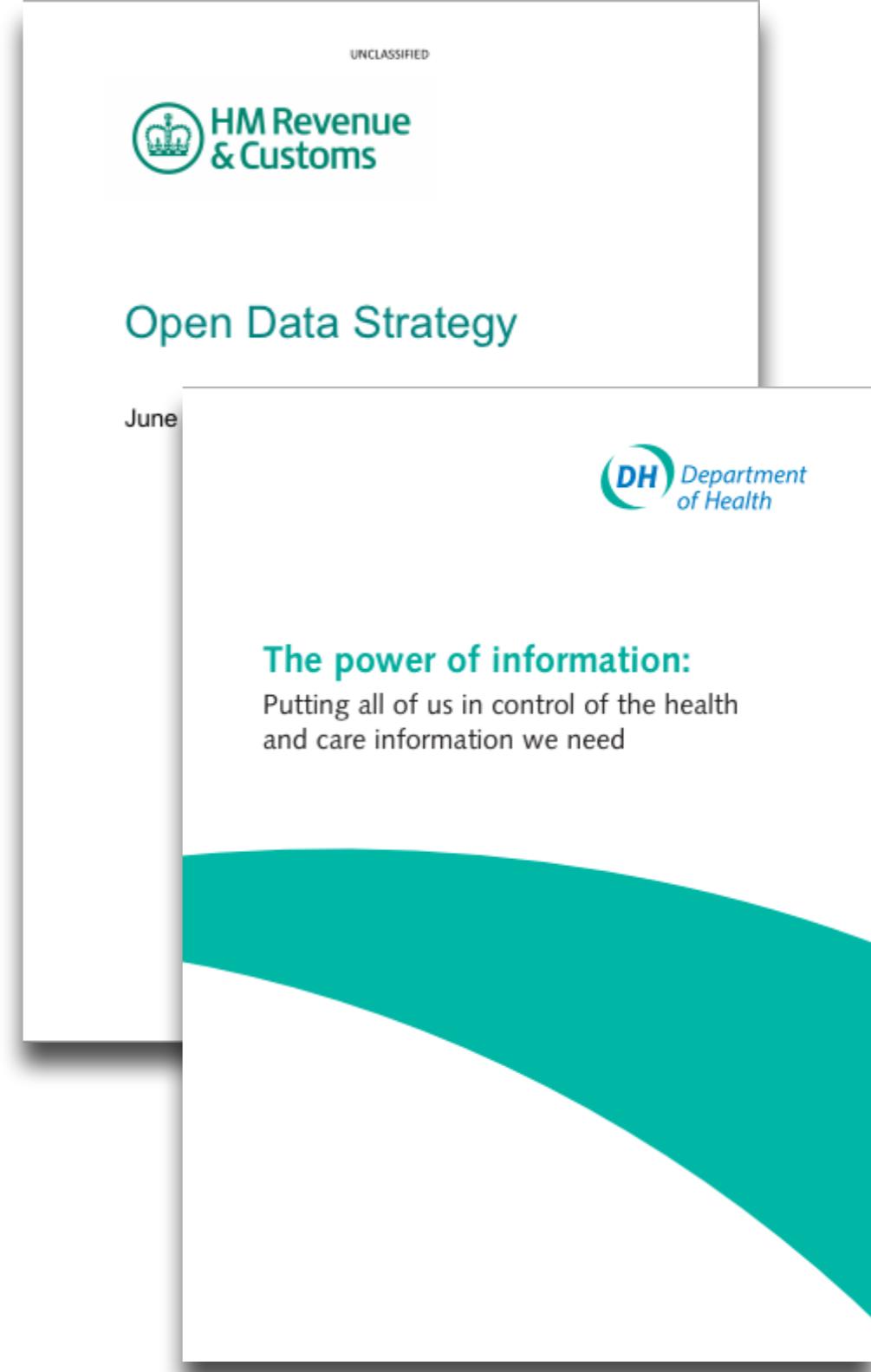
Why do **US** Internet companies dominate in **layer 3**?

How did **East Asia** (Japan, Korea, Taiwan and China) become so strong in **layer 1**?

Fransman (2010-03-01). The New ICT Ecosystem (Kindle Locations 3575-3576). Cambridge University Press. Kindle Edition

DH Open Data Strategy
HMT Open Data Strategy
MOJ Open Data Strategy
MOD Open Data Strategy
HMRC Open Data Strategy
FCO Open Data Strategy
DECC Open Data Strategy
Home Office Open Data Strategy
DfID Open Data Strategy
DfE Open Data Strategy
DWP Open Data Strategy
DCLG Open Data Strategy
Cabinet Office Open Data Strategy
BIS Open Data Strategy

data.gov.uk/open-data-strategies



<http://schee.info>

肆. 不缺應用 缺介面

A123456789

168.195.1.1

2001:0DB8:02de:0000:0000:0000:0000:0e13

www.ntpc.gov.tw

25.0122349, 121.465541

220

台北市中正區中山南路1號

建物/網站 buildings, applications

道路/網絡 roads, utilities, networks

區位/拓樸 zoning, topologies

法律/源碼 codes

社區/網絡 social networks

設計 design

認同/識別 identity, URI



城市願景

Vision



市民住民

People



公共生態

Ecosystem



軟性基礎建設

Software



城市維運系統

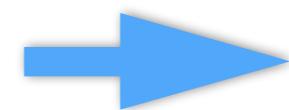
Systems



硬體基礎建設

Hardware

Henry
Kissinger
World
Order



.ROMA

.nyc

.tokyo

.berlin



.sydney

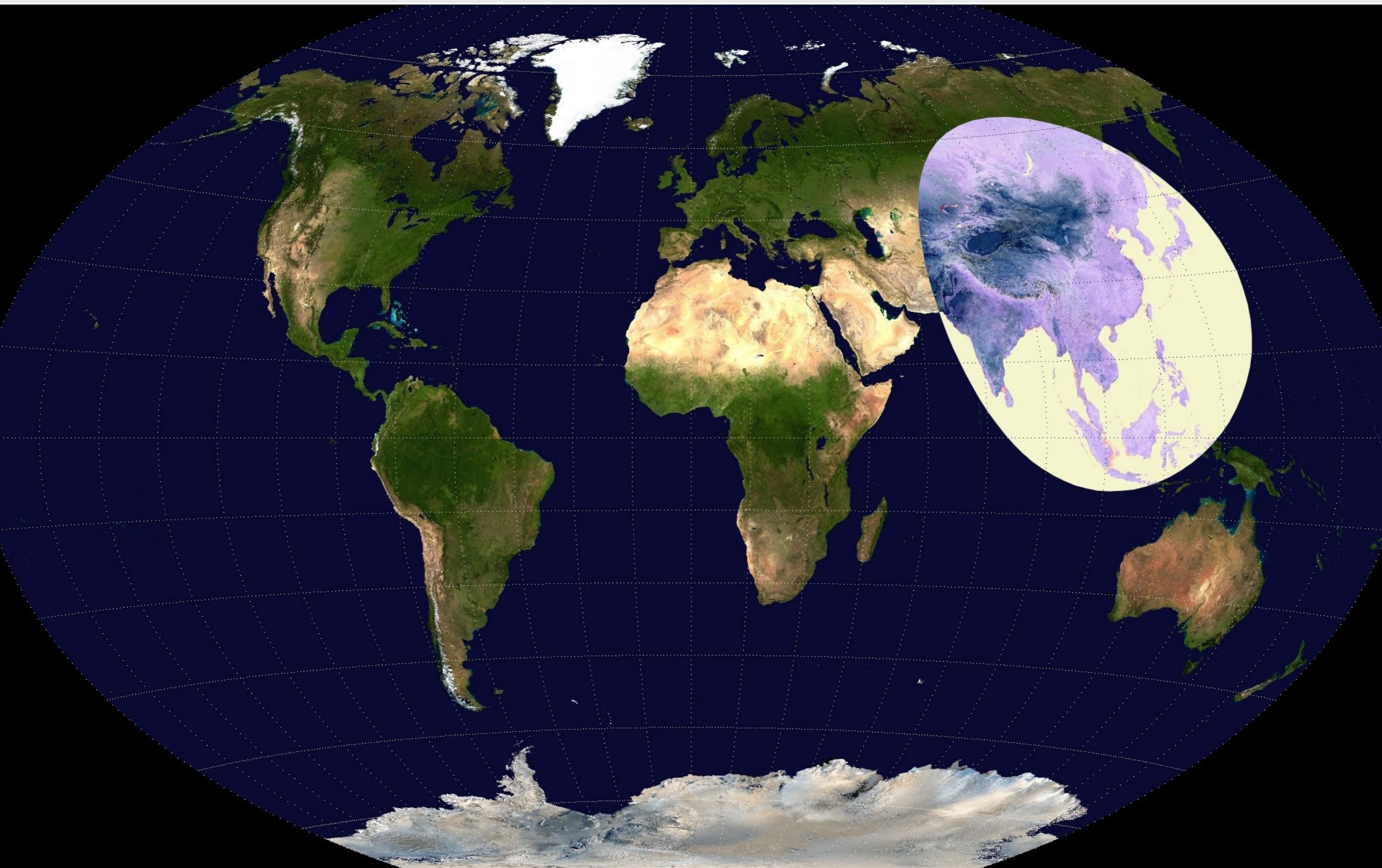
.paris



1618~

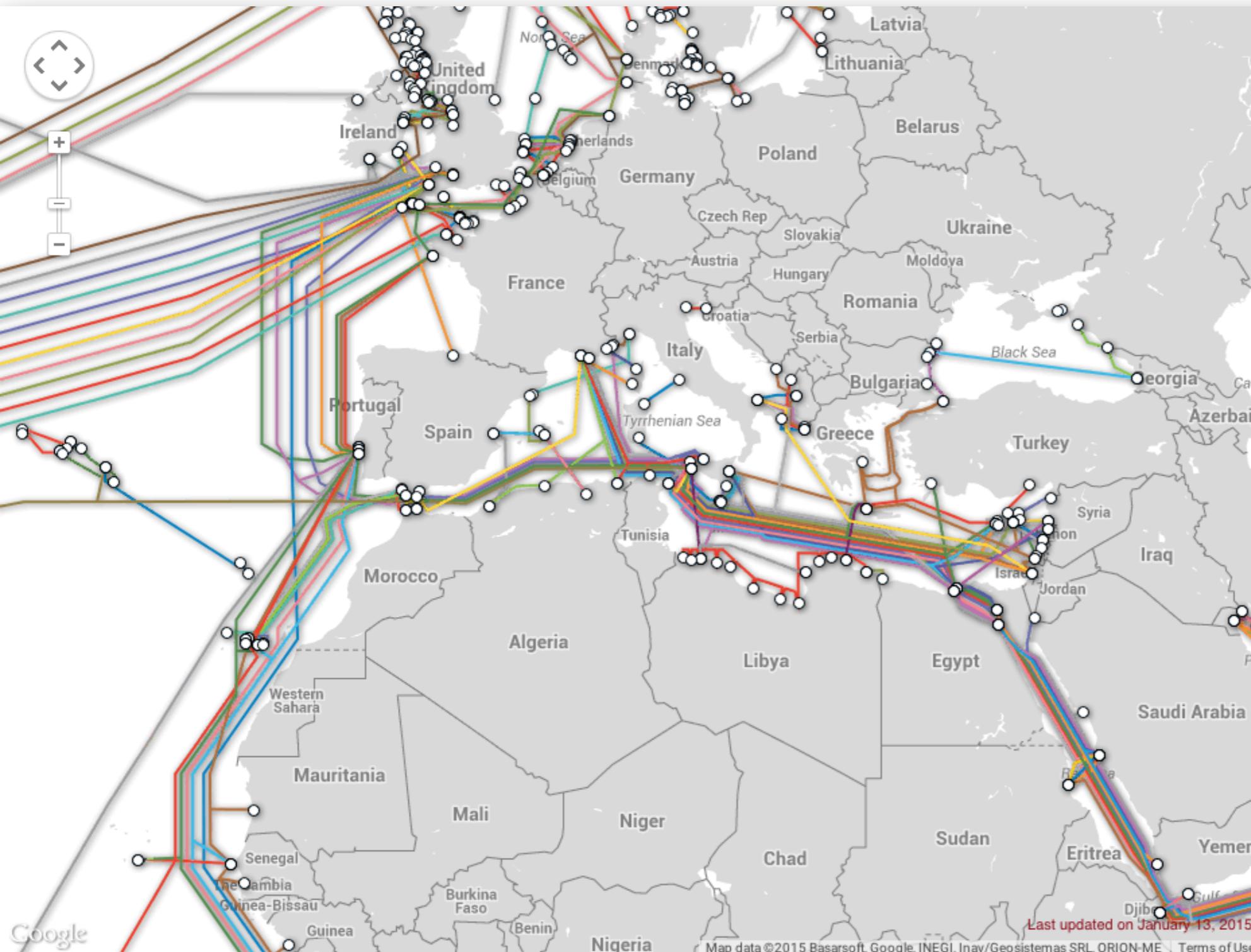
2013~

伍. 不缺趨勢 缺市場感



<http://i.imgur.com/MWnlkbo.jpg>

<http://schee.info>



TeleGeography Submarine Cable Map

The Submarine Cable Map is a free resource from TeleGeography. Data contained in this map is drawn from the [Global Bandwidth Research Service](#) and is updated on a regular basis.

To learn more about TeleGeography or this map please click [here](#).



Sponsored in part by Huawei Marine

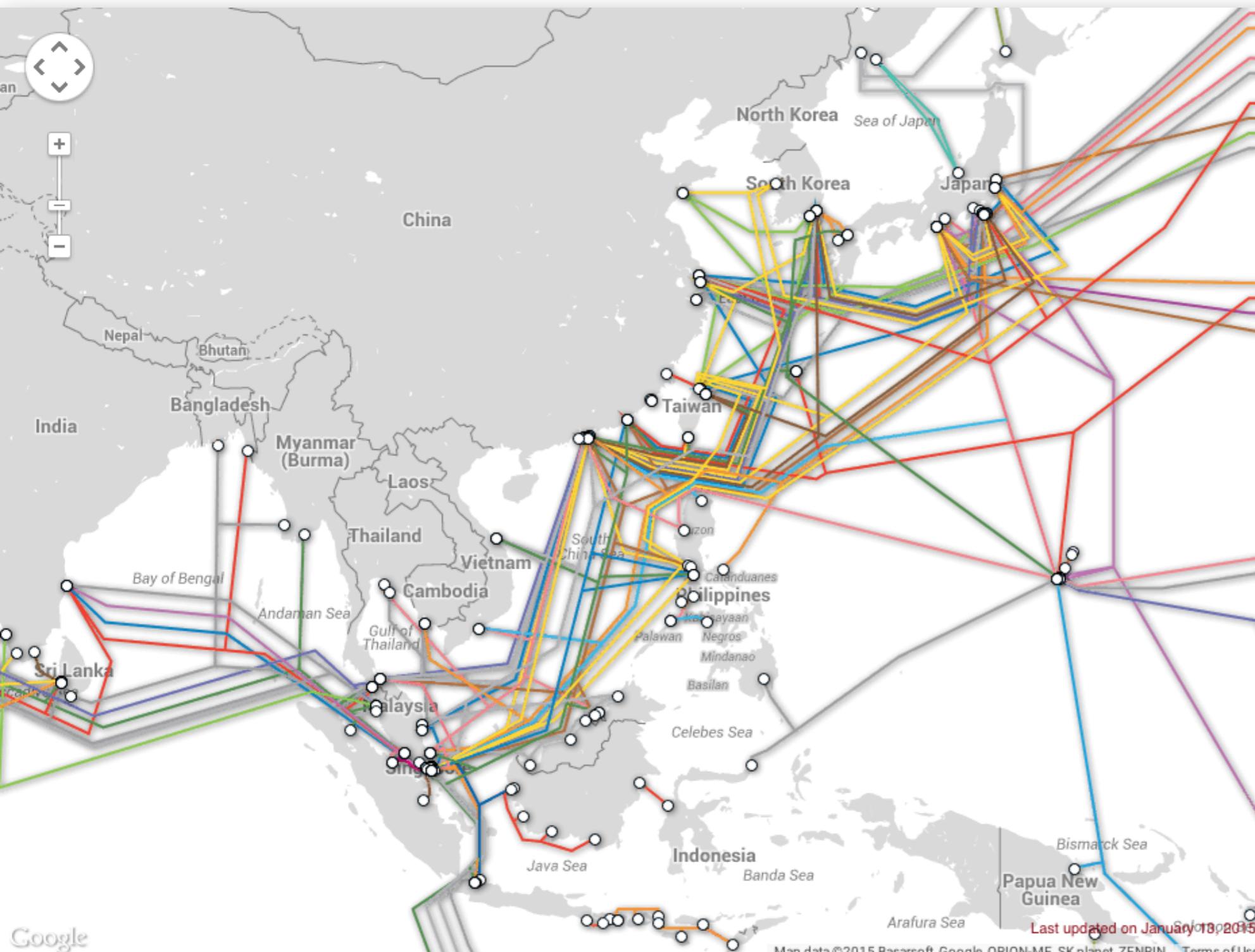
Feedback [Twitter](#) [Facebook](#) [GitHub](#)

Search

Submarine Cables

- [ACS Alaska-Oregon Network \(AKORN\)](#)
- [Aden-Djibouti](#)
- [Adria-1](#)
- [Africa Coast to Europe \(ACE\)](#)
- [ALASIA](#)
- [Alaska United East](#)
- [Alaska United Southeast](#)
- [Alaska United Turnagain Arm \(AUTA\)](#)
- [Alaska United West](#)
- [ALBA-1](#)
- [Aletar](#)
- [Alonso de Ojeda](#)
- [ALPAL-2](#)
- [America Europe Connect \(AEC\)](#)
- [America Movil Submarine Cable System-1 \(AMX-1\)](#)
- [American Samoa-Hawaii \(ASH\)](#)
- [Americas-I North](#)

All content © 2014 PriMetrica, Inc.



TeleGeography Submarine Cable Map

The [Submarine Cable Map](#) is a free resource from TeleGeography. Data contained in this map is drawn from the [Global Bandwidth Research Service](#) and is updated on a regular basis.

To learn more about TeleGeography or this map please click [here](#).



Sponsored in part by Huawei Marine

Feedback [Twitter](#) [Facebook](#) [GitHub](#)

Search

Submarine Cables

- [ACS Alaska-Oregon Network \(AKORN\)](#)
- [Aden-Djibouti](#)
- [Adria-1](#)
- [Africa Coast to Europe \(ACE\)](#)
- [ALASIA](#)
- [Alaska United East](#)
- [Alaska United Southeast](#)
- [Alaska United Turnagain Arm \(AUTA\)](#)
- [Alaska United West](#)
- [ALBA-1](#)
- [Aletar](#)
- [Alonso de Ojeda](#)
- [ALPAL-2](#)
- [America Europe Connect \(AEC\)](#)
- [America Movil Submarine Cable System-1 \(AMX-1\)](#)
- [American Samoa-Hawaii \(ASH\)](#)
- [Americas-I North](#)

All content © 2014 PriMetrica, Inc.

Think Like a Data Journalist: How the Guardian Turns Data into Stories

Every Day - Simon Rogers and Feilding Cage

This hands-on session will show how a dataset turns into a story, the narrative process the Guardian's team goes through, the tools used and the lessons learned.

Putting Big Data to Work in Retail - Increasing Margins, Avoiding Food Waste - Jan Karstens and Johanna Fleckner

For food retailers the fresh food category is important for customer satisfaction. Providing sufficient stocks while avoiding food waste makes for customers happy and keeps the retailer profitable. This case study shows how a fully automated, data-driven replenishment process is possible based on internal and external data sources combined with advanced predictive analytics.



Search...

The story Components Case studies Showroom Meet the ICT industry News Toolkit e-R



Raising the e-Generation

Eva and Samuel use the e-School system to check their children's grades, homework and progress online.

[read more](#)







DigiDoc

DigiDoc is a system that's widely-used in Estonia for storing, sharing and digitally signing documents.



Digital Signature

Digital signature enables secure, legally-binding, electronic document signing



e-Business Register

Enables entrepreneurs to register their new business online in minutes



e-Cabinet

A powerful tool used by the Estonian government to streamline its decision-making process



e-Law

Allows public access to every piece of draft law that has been submitted since February 2003



e-Police

Revolutionizes police communication and coordination, maximizing effective policing.



e-Prescription

A centralized, paperless system for issuing and handling medical prescriptions



e-School

Allow students, teachers and parents to collaborate in the learning process



e-Tax

e-Tax has drastically reduced the time spent by individuals and entrepreneurs on filing taxes



Electronic Health Record

Integrates data from healthcare providers into a national record for each patient



Electronic ID Card

e-ID acts as definitive proof of ID in secure electronic environments



Electronic Land Register

A one-of-a-kind information system for storing real estate and land data



i-Voting

i-Voting allows voters to cast their ballots over the internet, from anywhere in the world



Location-Based Services

A positioning service that detects device location & provides location information



m-Parking

Allows drivers to pay for city parking using a mobile phone



Mobile-ID

Allows a client to use a mobile device to verify



Mobile Payment

Enables payment for goods and services via mobile



Population Register

The state database for basic population statistics



Smart Grid in Energy Sector

Estonian-developed technology for energy



Social Welfare e-Services

The social welfare benefit system is available

計畫的概念？

電子居民的概念是核發給非愛沙尼亞居民的電子身分證 (identification card)。電子身分證約略等同於身分證，是一張塑膠製的晶片卡，能儲存生物資訊，例如指紋和視網膜特徵，但並不留存本人相片。這張晶片卡能提供電子身分證擁有者使用愛沙尼亞境內的各種電子服務。電子身分證是申請制，而並非在憲法層次所提供的身分識別和保障。所以擁有者不要以為就可以拿到這張卡就可以自由出入愛沙尼亞邊境，享受國民的各種權利（例如投票）。



陸. 不缺產值 缺價值捕獲

Value Creation and Capture in Global Value Chains

“林一平表示，擁有全國巨量資料部會，包括財政部財稅資料中心、衛福部國民健康署、交通部運研究所、內政部警政署，及金管會聯徵中心等，科技部利用國網中心介入，以去識別化供研究，暫不作商業營利用途。”

<http://www.chinatimes.com/newspapers/2015010500012-260202>

THE FRAMEWORK PROGRAMME FOR RESEARCH AND INNOVATION

HORIZON 2020

1. Improve the economy
2. Develop the next generation of technologies
3. Resolve real-world end user limitations
4. Improving the marketplace

瑞典：零傷亡願景倡議

交通系統通常都把安全責任放在道路使用者身上，
零傷亡願景倡議把這一責任放在「系統設計」上。

<http://v0.taipei.io>



<http://schee.info>

1. 基礎設施

零傷亡願景涉及規劃、設計和建造道路與基礎設施，以便提高安全性，減少致命事故。必須在規劃新的基礎設施項目時，將安全因素植入並納入系統。

- 高容量道路
- 工程師
- 顧問
- 環境保護
- 建築師
- 交通安全
- 較低成本
- 挽救生命
- 交工單位

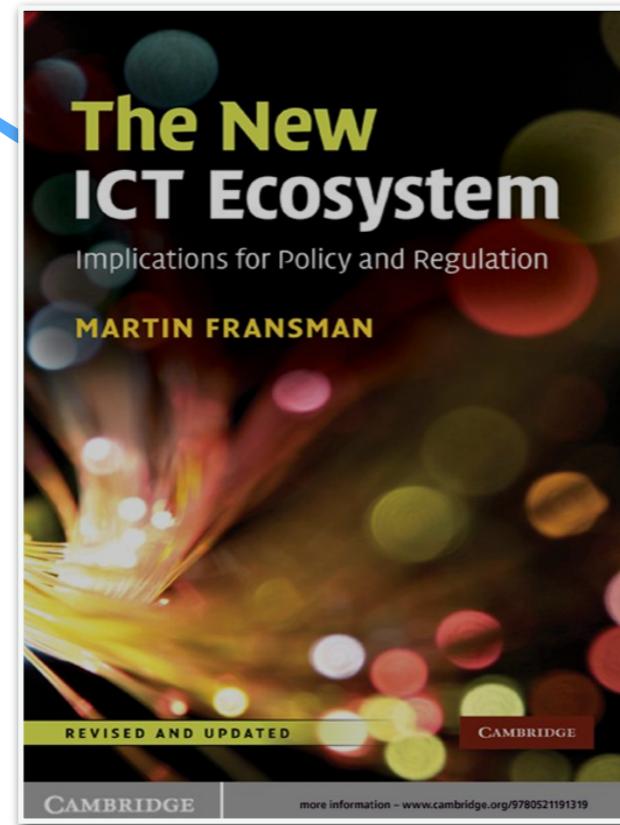
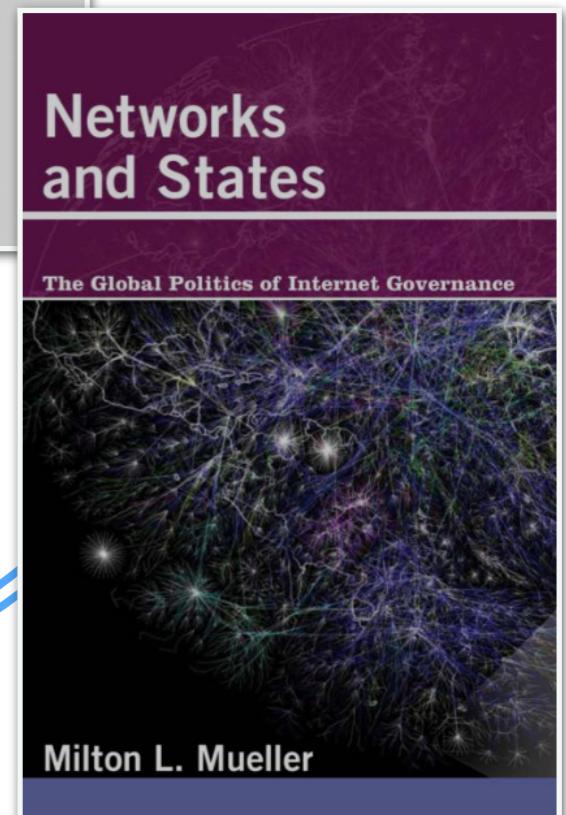
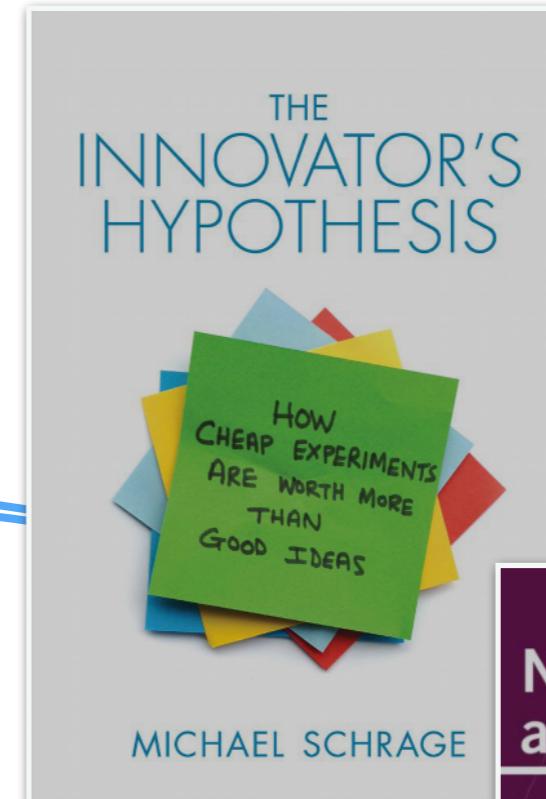
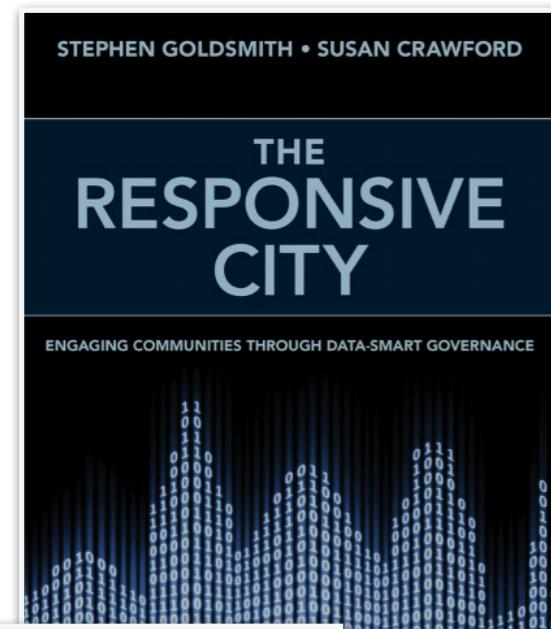
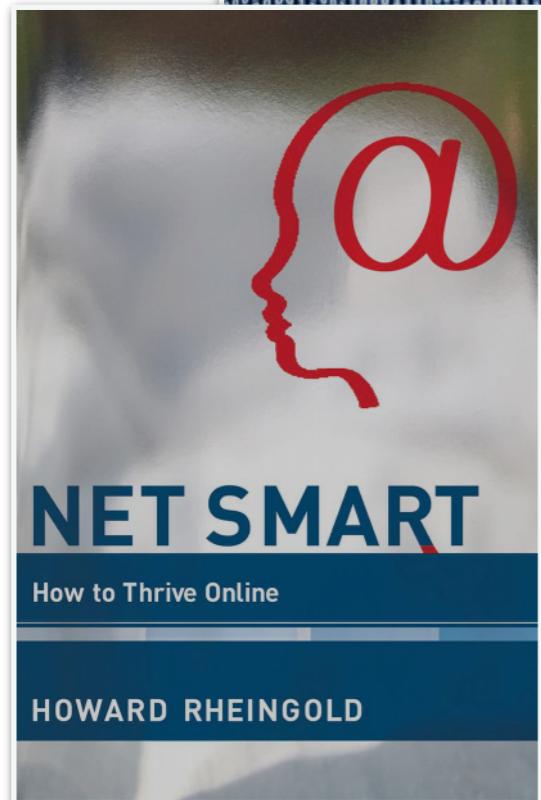
2. 控制與監理

道路交通控制和監視可包括監控交通流量和天氣狀況的系統，或其他符合智能交通系統條件的措施。

- 監控系統
- 交通流量維護
- 交通資訊評估
- 評估系統
- 可延展的解決方案
- 天氣因素控制
- 資訊處理
- 智慧交通系統
- 系統整合



柒. 北極星還是北斗七星



A photograph of a person swimming in the ocean. The swimmer is wearing a pink swim cap and a red and blue life vest. They are in the foreground, moving towards the left. In the background, a large cargo ship is visible on the horizon under a bright, slightly cloudy sky.

問題？

info@motomosa.com