

# **Back to basics in cross-sector infrastructure sharing**

**ESCAP Consultation**

**United Nations Conference Centre, Bangkok**

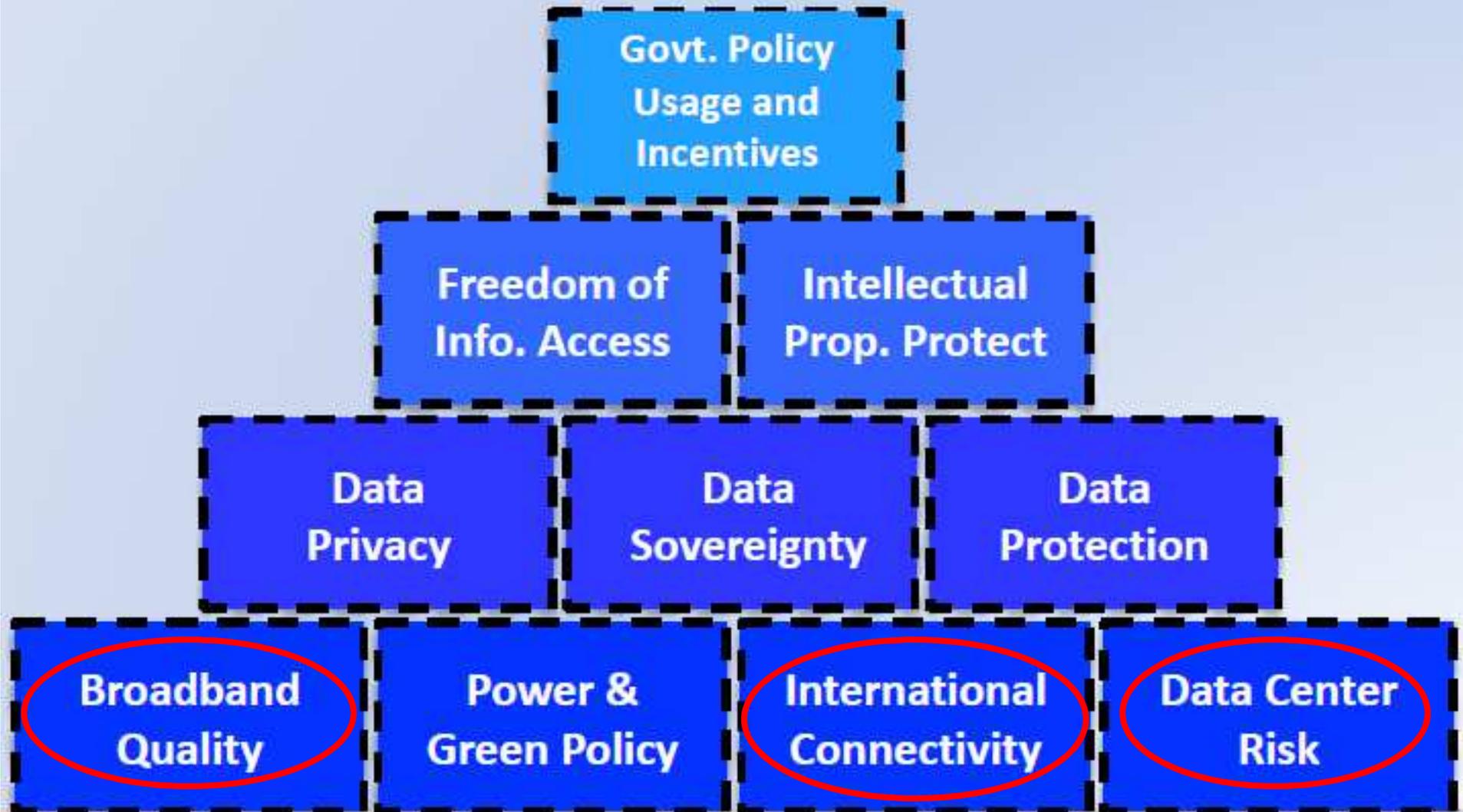
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# Ten Key Attributes for Cloud Readiness



Source: Bernie Trudel, Chairman, Asia Cloud Computing Association.

# Cloud Readiness Index 2014

Source: Asia Cloud Computing Association

Infrastructure 40%

Regulation 60%

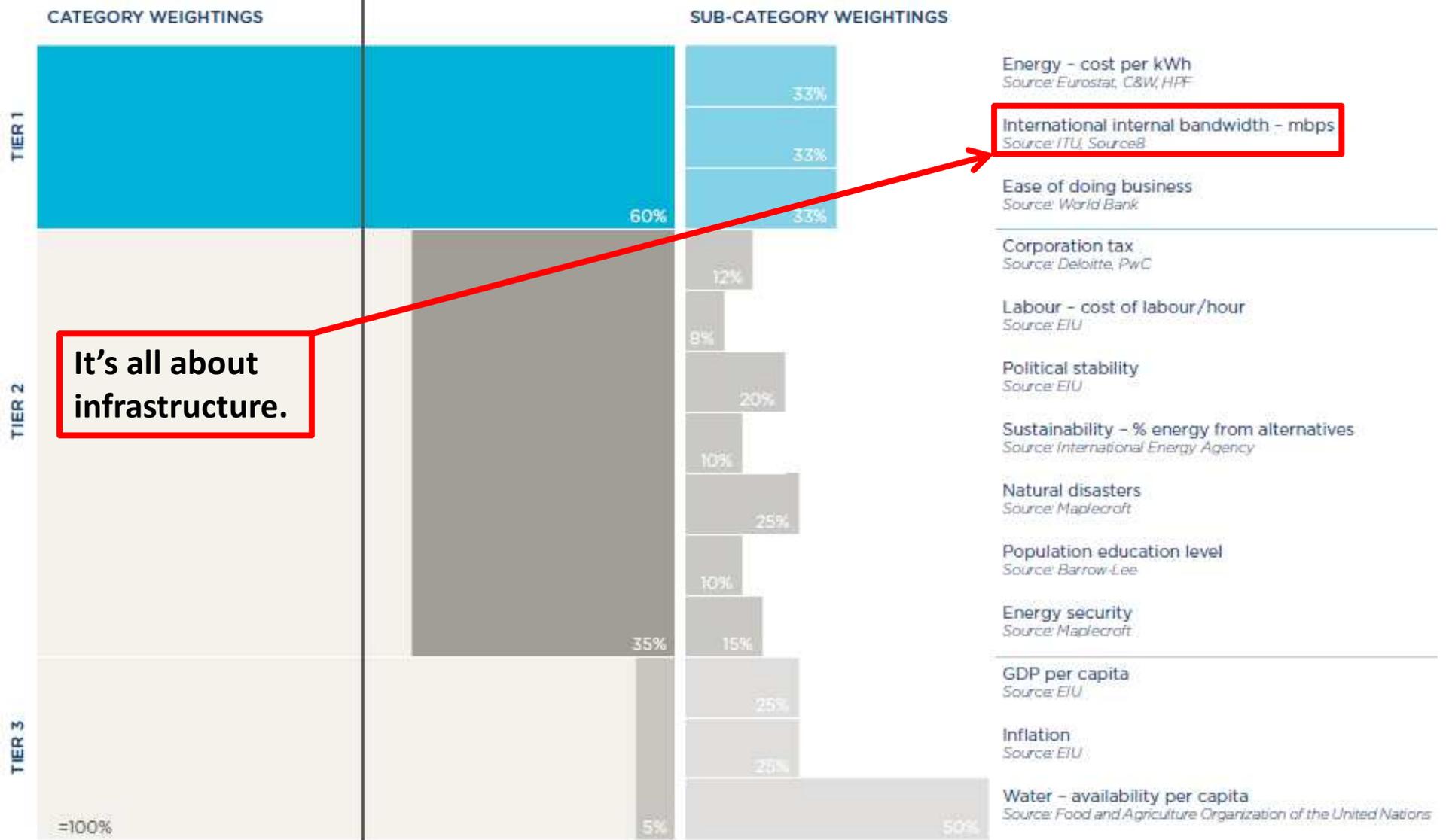
	1. Privacy	2. International Connectivity	3. Data Sovereignty	4. Broadband Quality	5. Government Regulatory Environment and Usage	6. Power Grid and Green Policy	7. Intellectual Property Protection	8. Business Sophistication	9. Data Centre Risk	10. Freedom of Information	CR12014 SCORE	RANK	CHANGE
JP Japan	9.5	5.5	8.0	9.1	5.0	7.1	8.1	8.2	6.6	9.7	76.8	1	-
NZ New Zealand	8.8	4.6	7.9	7.6	5.6	9.2	8.6	6.8	7.8	9.5	76.3	2	+4
AU Australia	8.8	4.4	7.6	8.0	5.3	7.8	7.6	6.7	9.4	9.6	75.1	3	+4
SG Singapore	6.0	8.2	7.8	8.8	6.1	5.9	8.7	7.3	7.4	8.6	74.8	4	-
HK Hong Kong	6.8	7.7	7.6	9.3	5.1	5.6	8.1	7.5	7.4	9.6	74.7	5	-2
KR South Korea	9.7	5.5	7.2	9.4	5.1	6.6	5.7	6.9	8.6	8.6	73.3	6	-4
TW Taiwan	4.6	6.3	6.8	8.5	5.0	6.7	7.4	7.4	6.9	8.6	68.2	7	-2
MY Malaysia	5.8	5.8	6.7	7.1	5.2	4.9	6.9	7.2	8.5	8.2	66.2	8	-
TH Thailand	4.0	5.0	6.2	8.0	3.7	6.3	4.4	6.3	7.6	7.8	59.3	9	+4
PH Philippines	5.8	5.4	5.9	4.1	3.7	5.5	5.1	6.1	5.5	9.0	56.1	10	+2
CN China	5.9	3.0	4.8	5.9	4.3	4.3	5.6	6.2	6.5	7.0	53.3	11	-1
ID Indonesia	4.4	2.9	6.2	3.1	3.9	5.7	5.6	6.3	6.4	7.9	52.4	12	-1
IN India	4.6	2.3	6.5	3.6	4.1	5.0	5.3	6.3	3.4	7.8	48.8	13	-4
VN Vietnam	3.6	3.2	5.6	4.2	3.8	4.7	4.1	5.3	6.4	7.0	47.8	14	-1

# Data Center Risk Index 2013: Cushman & Wakefield, HurleyPalmerFlatt and Source8

1	100.00	US	11	77.11	SWITZERLAND	21	65.15	SPAIN
2	89.53	UK	12	76.26	NETHERLANDS	22	64.14	CZECH REP.
3	82.29	SWEDEN	13	74.59	KOREA, REP.	23	62.70	AUSTRALIA
4	81.29	GERMANY	14	73.98	FRANCE	24	61.56	RUSSIA
5	81.16	CANADA	15	72.49	SINGAPORE	25	58.91	CHINA
6	79.63	HONG KONG	16	68.96	MALAYSIA	26	55.12	JAPAN
7	79.47	ICELAND	17	67.43	POLAND	27	52.01	MEXICO
8	79.45	NORWAY	18	67.09	IRELAND	28	46.37	INDONESIA
9	78.74	FINLAND	19	66.73	THAILAND	29	40.85	INDIA
10	78.37	QATAR	20	65.55	SOUTH AFRICA	30	35.15	BRAZIL

- lowest risk
- medium risk
- high risk

# Composition of DCR Index



It's all about infrastructure.

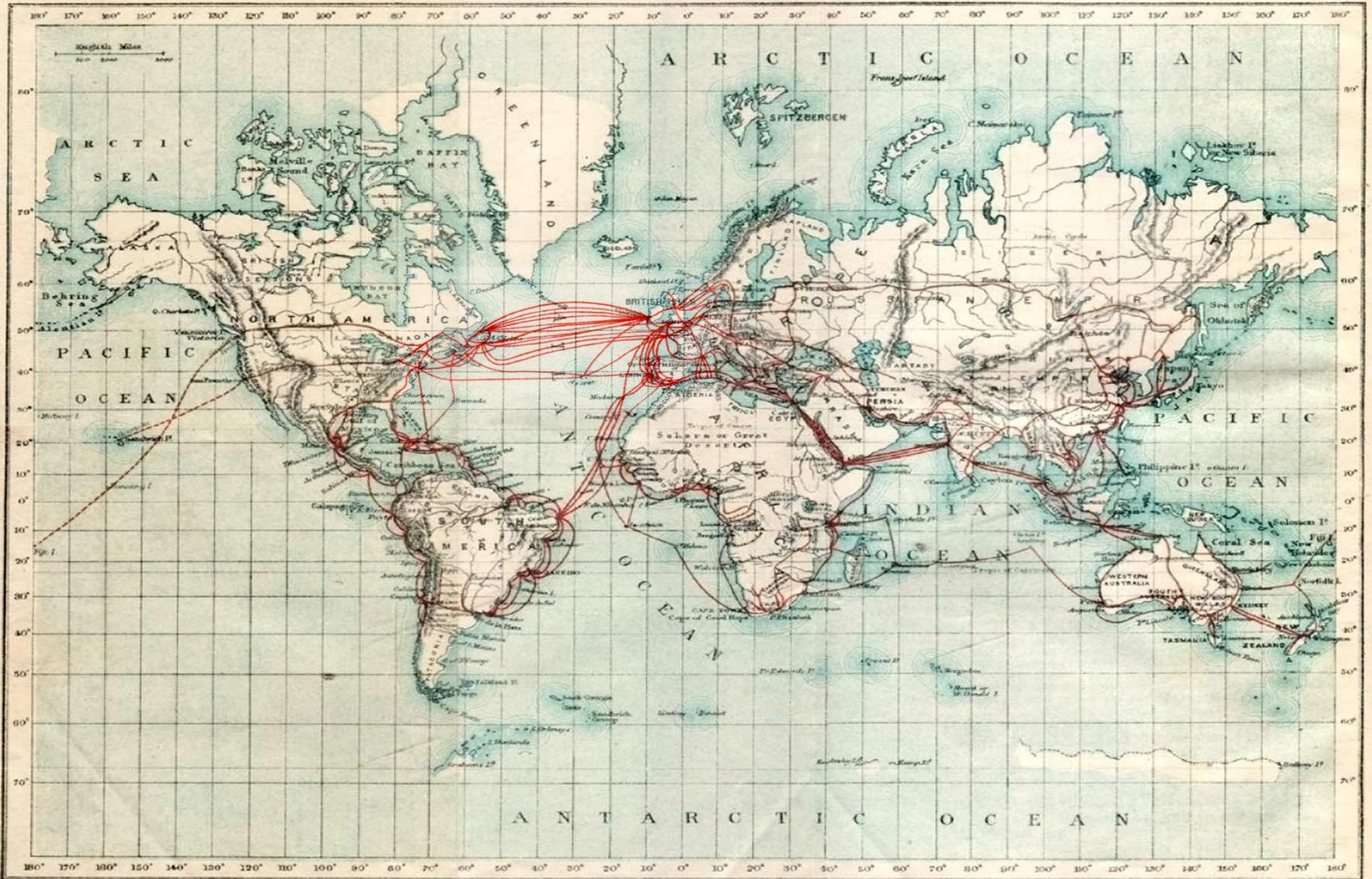
International internal bandwidth - mbps  
Source: ITU, SourceB

# Infrastructure is all about right-of-way

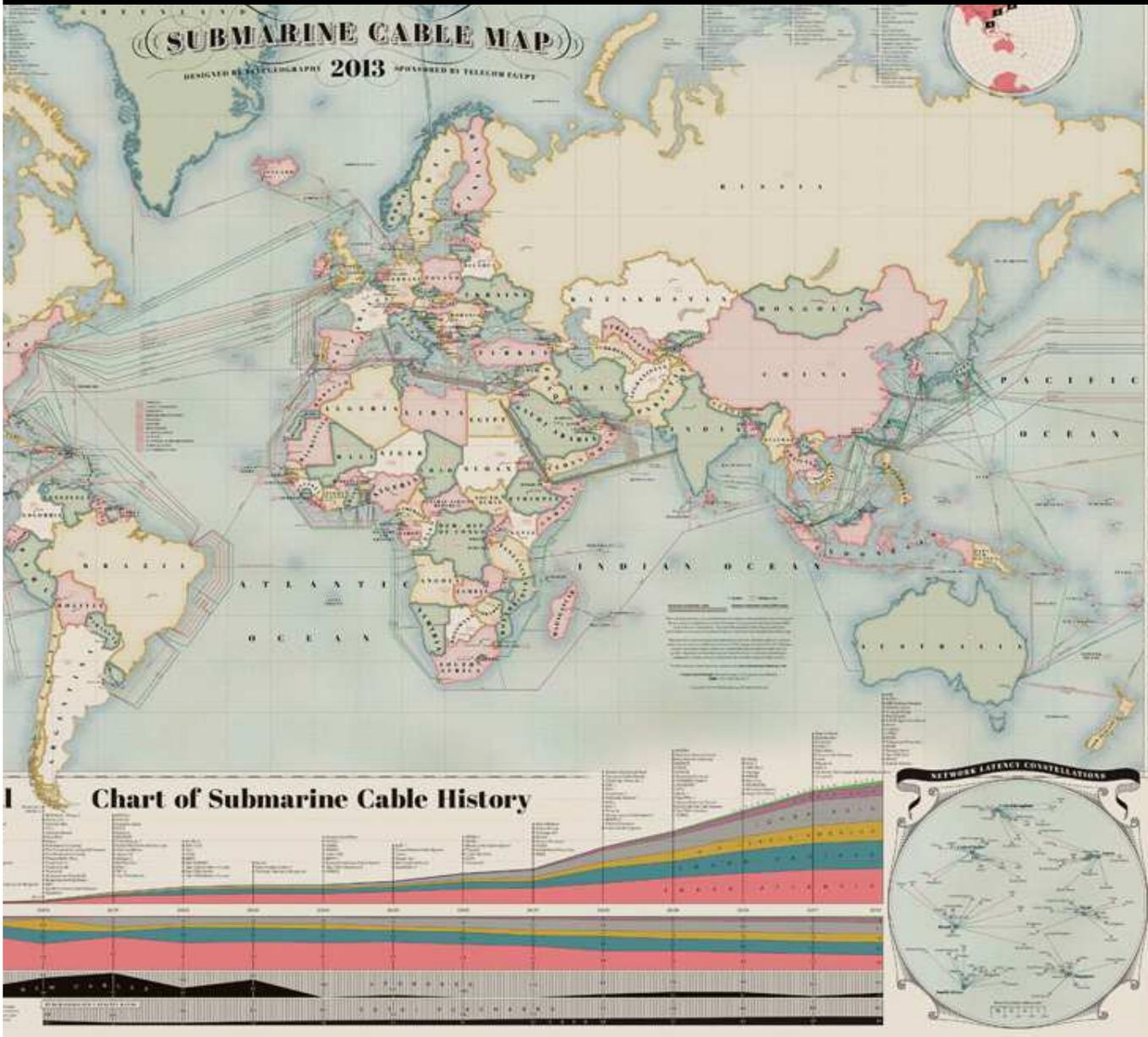
- Yesterday:
  - Telegraph lines aerially passed along the train tracks and highways
  - High Frequency radio links required no seamless ROW
- Today:
  - Securing orbital slots remains critical for satellites
  - Spectrum is the ROW for microwave transmission
  - Highways are favorite ROW for optical fiber transmission
- Optical fiber has democratized infrastructure
  - Undersea transmission, railway signaling and SCADA.
    - Submarine cables always need permission to enter national maritime boundary.

# Infrastructure was unified in 1901

EASTERN TELEGRAPH CO'S SYSTEM AND ITS GENERAL CONNECTIONS.



# Picture is segregated today



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