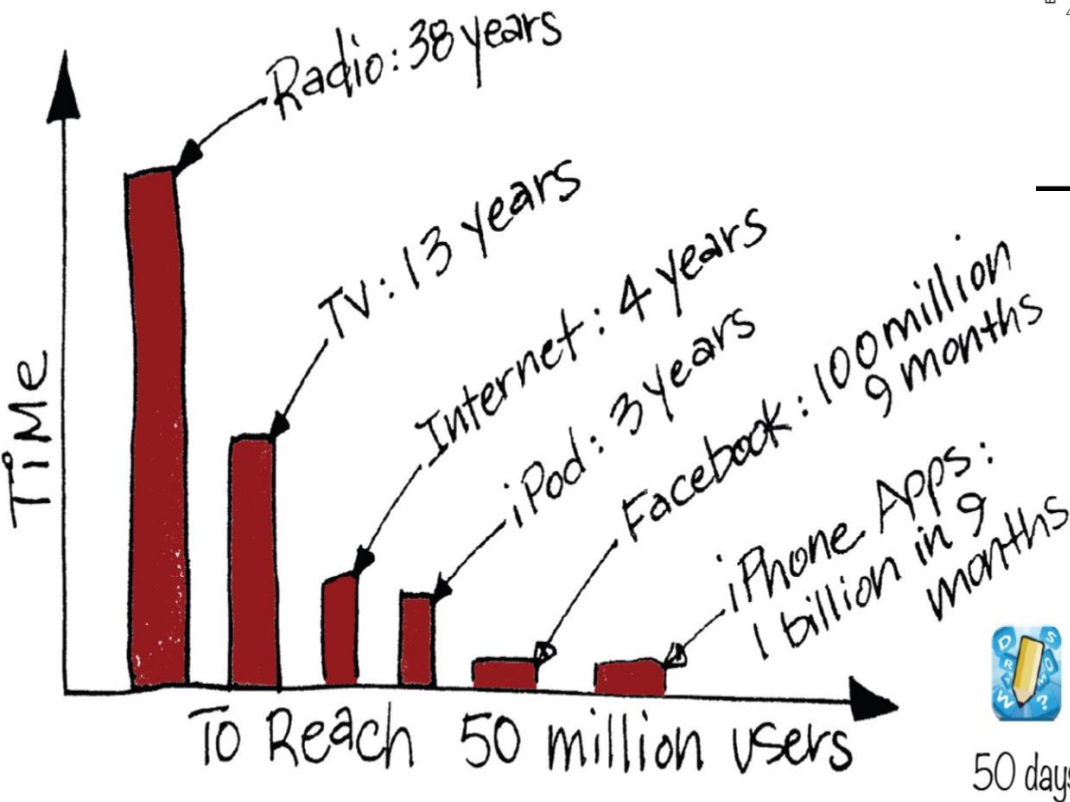
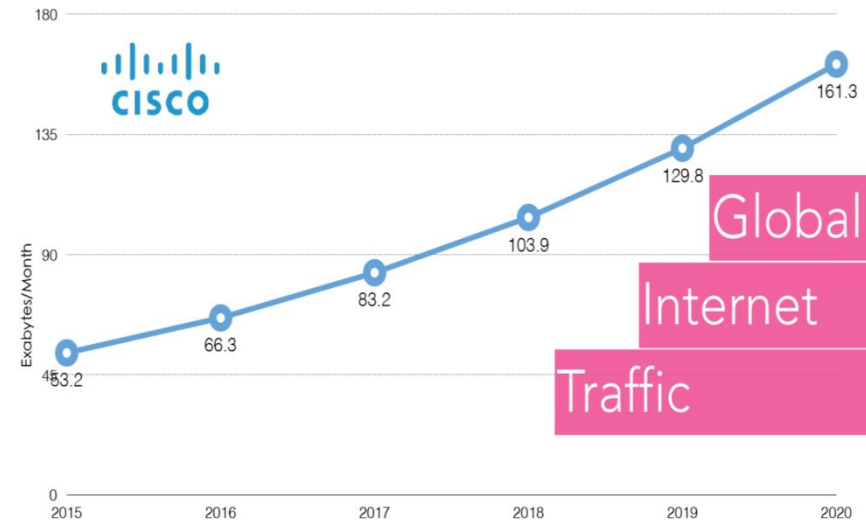
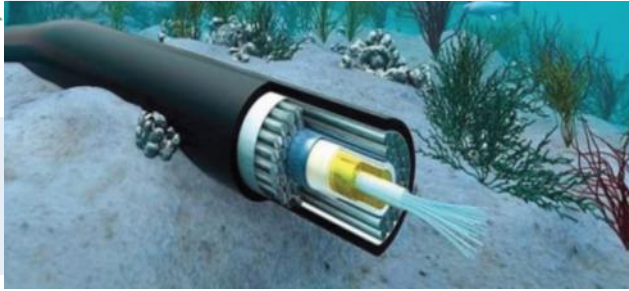


Subsea cables in the Pacific



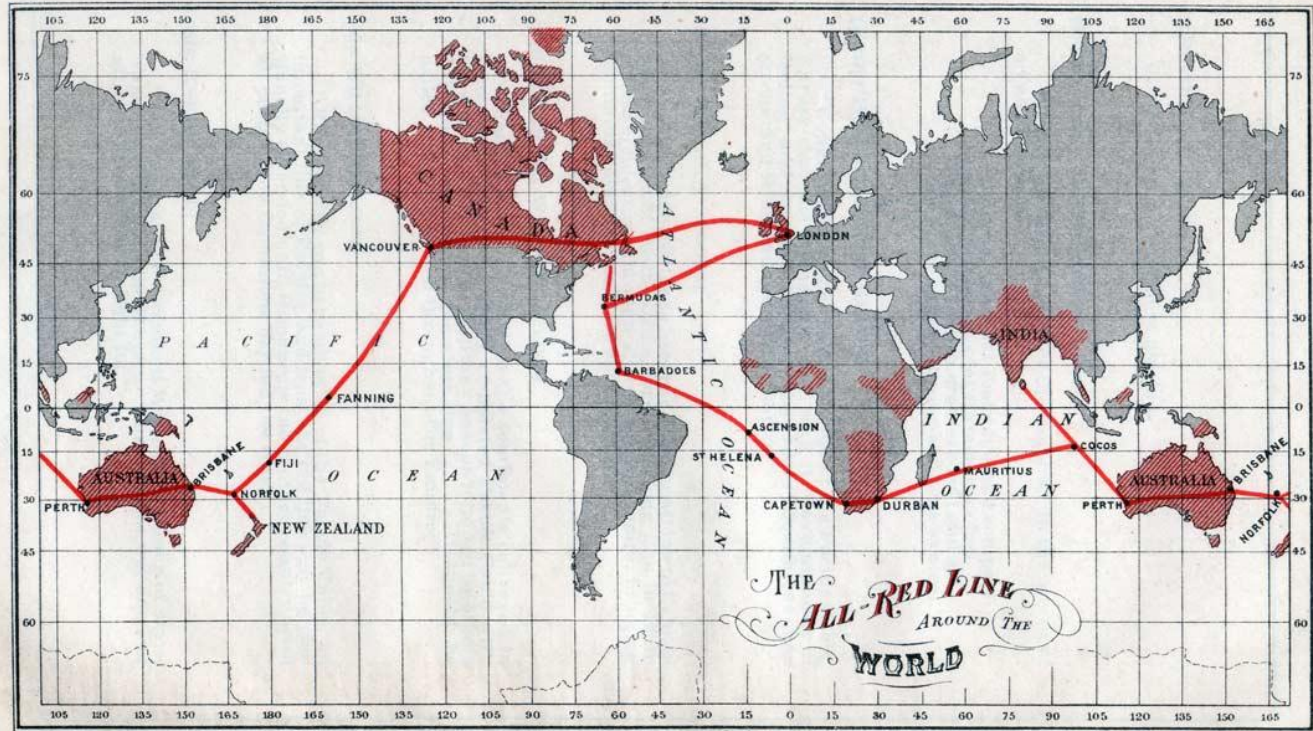
50 days



35 days



TELEGRAPH, ANALOGUE SUBSEA CABLES – PACIFIC – 1900s



1. DEMAND FOR BANDWIDTH
2. OLDER CABLES
3. RESILIENCE/REDUNDANCY
4. DOMESTIC – INTER ISLAND
5. GLOBAL INTERNET CAPACITY

Bandwidth – is key





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PACIFIC SUB-SEA CABLE SYSTEMS: 2000 -2021



CABLES ARE CRITICAL INFRASTRUCTURE

90% COMMS ARE CARRIED ON SUBMARINE CABLES

	TO INCREASE CONNECTIVITY for users' access to content
	TO MEET GROWING TRAFFIC DEMANDS Internet Annual Growth >60% 2010-2016 (*)
	TO INCREASE CABLE ROUTE DIVERSITY to ensure always-on connectivity
	TO BUILD "OWN" INFRASTRUCTURE to be independent from service providers

*Source: TeleGeography



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WorldRiskIndex 2018 Overview

Classification	WorldRiskIndex	Exposure	Vulnerability	Susceptibility	Lack of coping capacities	Lack of adaptive capacities
very low	0.36 – 3.15	1.02 – 9.53	20.97 – 32.01	8.26 – 17.05	35.16 – 53.90	13.33 – 23.60
low	3.16 – 5.45	9.54 – 11.70	32.02 – 40.77	17.06 – 20.81	53.91 – 67.73	23.61 – 33.84
medium	5.46 – 7.13	11.71 – 14.50	40.78 – 48.60	20.82 – 28.80	67.74 – 76.73	33.85 – 41.82
high	7.14 – 10.43	14.51 – 17.73	48.61 – 63.00	28.81 – 46.48	76.74 – 84.10	41.83 – 54.77
very high	10.44 – 50.28	17.74 – 86.46	63.01 – 76.47	46.49 – 70.00	84.10 – 92.28	54.78 – 72.52

Max. = 100 % Classification according to the quantile method.

Rank	Country	WorldRiskIndex	Exposure	Vulnerability	Susceptibility	Lack of coping capacities	Lack of adaptive capacities
1.	Vanuatu	50.28	86.46	58.15	36.07	86.37	52.00
2.	Tonga	29.42	55.92	52.61	28.93	80.06	48.82
3.	Philippines	25.14	49.94	50.33	29.58	81.57	39.83
4.	Solomon Islands	23.29	37.81	61.59	47.28	82.30	55.19
5.	Guyana	23.23	45.56	50.98	27.33	77.36	48.25
6.	Papua New Guinea	20.88	31.05	67.24	55.58	83.80	62.35
7.	Guatemala	20.60	38.50	53.50	32.98	81.35	46.17
8.	Brunei Darussalam	18.82	52.71	35.71	14.80	61.50	30.83
9.	Bangladesh	17.38	29.95	58.03	33.72	84.96	55.42
10.	Fiji	16.58	35.51	46.68	22.33	75.48	42.24
11.	Costa Rica	16.56	44.27	37.41	20.42	62.19	29.61
12.	Cambodia	16.07	27.13	59.22	40.97	86.03	50.67
13.	Timor-Leste	16.05	26.96	59.56	45.22	78.69	54.76
14.	El Salvador	15.95	33.46	47.65	25.63	75.86	41.46
15.	Kiribati	15.42	26.37	58.47	41.64	82.61	51.15
16.	Mauritius	14.27	37.22	38.35	17.69	59.26	38.09
17.	Nicaragua	13.99	26.27	53.25	31.45	80.21	48.11
18.	Djibouti	13.90	21.87	63.54	40.03	83.52	67.05
19.	Guinea-Bissau	13.40	18.70	71.67	59.88	89.59	65.53
20.	Chad	11.88	15.90	74.70	63.09	91.51	69.49
21.	Haiti	11.86	17.20	68.99	51.38	90.35	65.24
22.	Cameroon	11.81	18.76	62.96	46.79	85.60	56.49
23.	Cape Verde	11.52	23.33	49.38	32.44	68.74	46.98
24.	Sierra Leone	11.49	16.23	70.80	58.67	85.70	68.02
25.	Viet Nam	11.35	24.17	46.98	25.54	75.22	40.17
26.	Niger	11.34	15.48	73.23	60.69	86.50	72.52
27.	Jamaica	11.22	24.83	45.19	25.23	70.21	40.13
28.	Chile	11.15	31.84	35.02	18.70	59.01	27.37
29.	Japan	11.08	46.55	23.81	17.60	38.39	15.43
30.	Benin	11.04	16.65	66.28	55.66	80.76	62.43
31.	Gambia	10.92	17.15	63.65	44.23	84.35	62.37
32.	Madagascar	10.89	15.63	69.68	66.53	84.72	57.80
33.	Dominican Republic	10.77	23.44	45.94	25.77	73.79	38.26
34.	Senegal	10.51	17.25	60.92	46.48	79.31	56.96
35.	Afghanistan	10.45	15.48	67.53	49.23	91.64	61.71
36.	Indonesia	10.36	20.57	50.38	27.20	78.42	45.51
37.	Angola	10.31	15.71	65.63	51.61	86.27	59.02