

submarine cable ALMANAC

ISSUE 5

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FORUM

Submarine Cable Almanac

Issue 5

February 2013

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While all reasonable steps to verify information from the public domain have been taken, based on changing circumstances and dynamic factors, incomplete information subject to change may exist. Our goal is to periodically update and modify such information. If you have a correction, please let us know by completing our [Submarine Almanac Update Form](#), available by clicking [here](#), or by emailing almanac@subtelforum.com.

Introduction

Welcome to the fifth edition of the Submarine Cable Almanac, one of our most popular reference tools. In the months since Issue 4 was released, 20 Entries were updated with new information, 3 systems were added and 1 system is now defunct.

In the following pages you will find a detailed list of major international submarine cable systems--more than 250 systems in all. This document serves as complement to our annual Cable Map and Submarine Cable Industry Report.

We hope that you, our readers, will participate in this almanac as you've done with our previous products. There is always room for additional data, so let us know if there is something else we should include in future editions. Please let us know by completing our [Submarine Almanac Update Form, available by clicking here](#), or by emailing almanac@subtelforum.com.

Finally, I want to thank all of the sponsors, staff and dedicated readers that contributed to this Almanac. Your feedback has been invaluable.



Kevin G. Summers
February, 2013

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*Italicized** = updated system



Undersea. Overland. Networks Unite.



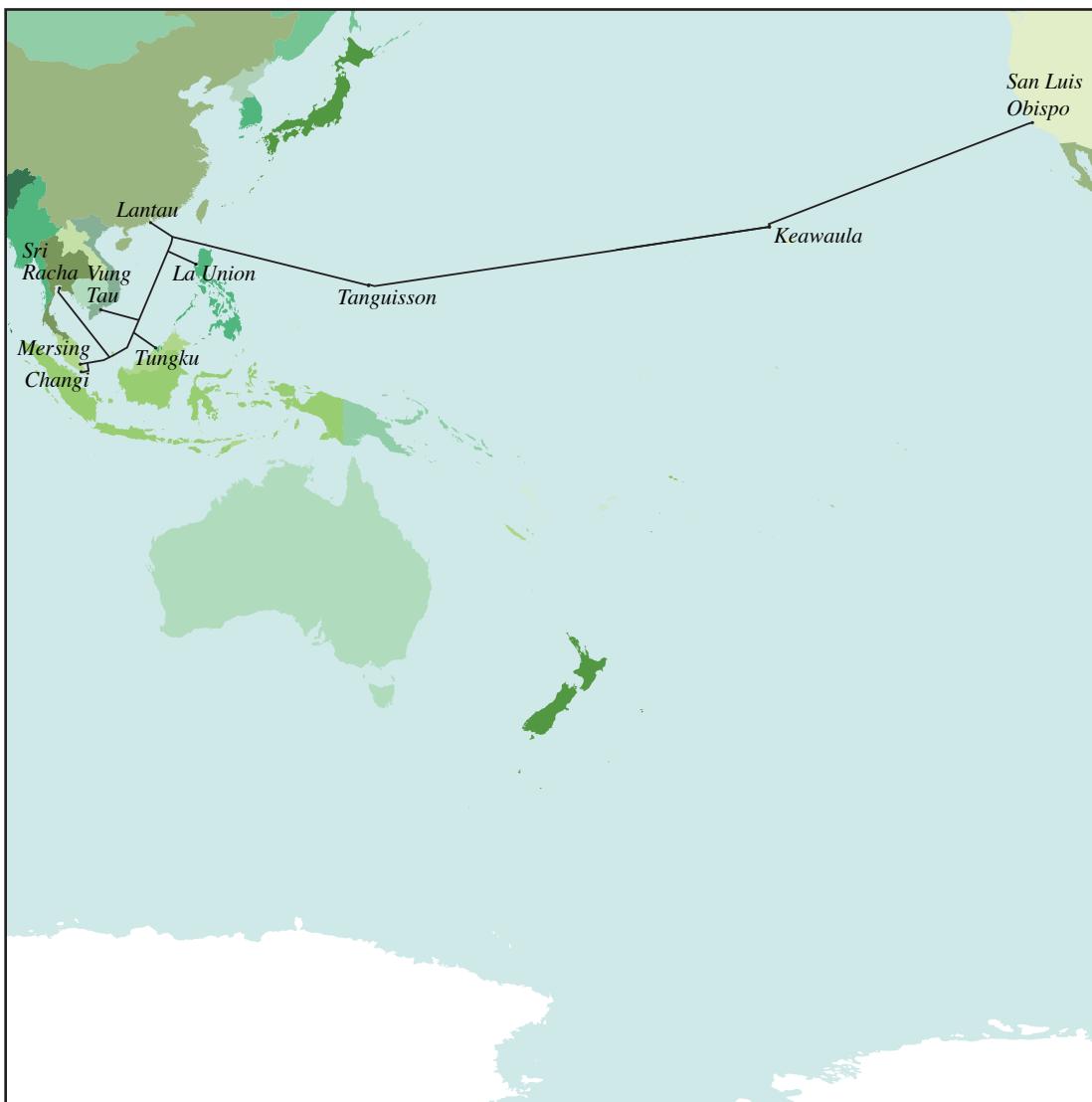
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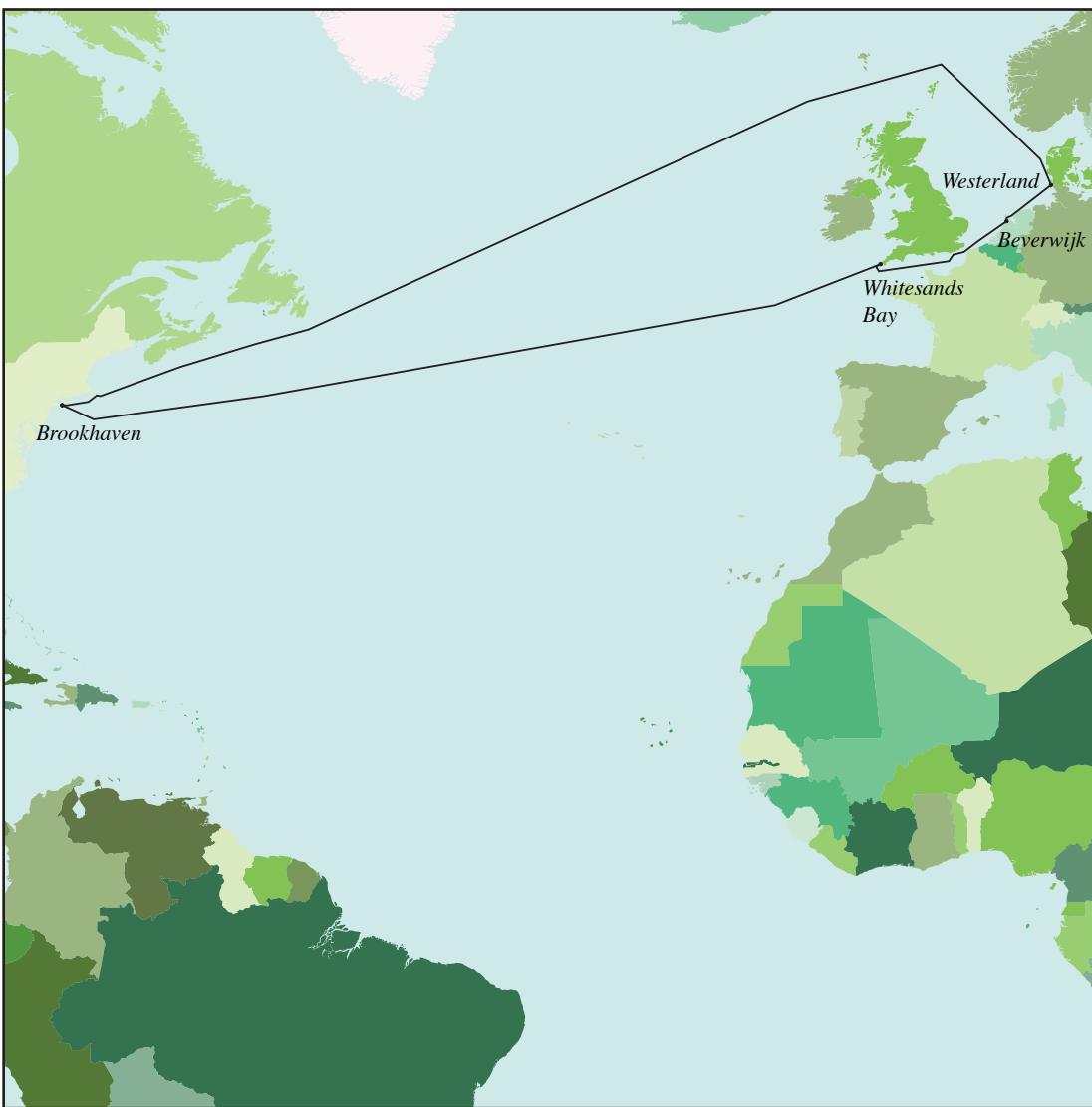
See how at

www.ciena.com/GeoMesh

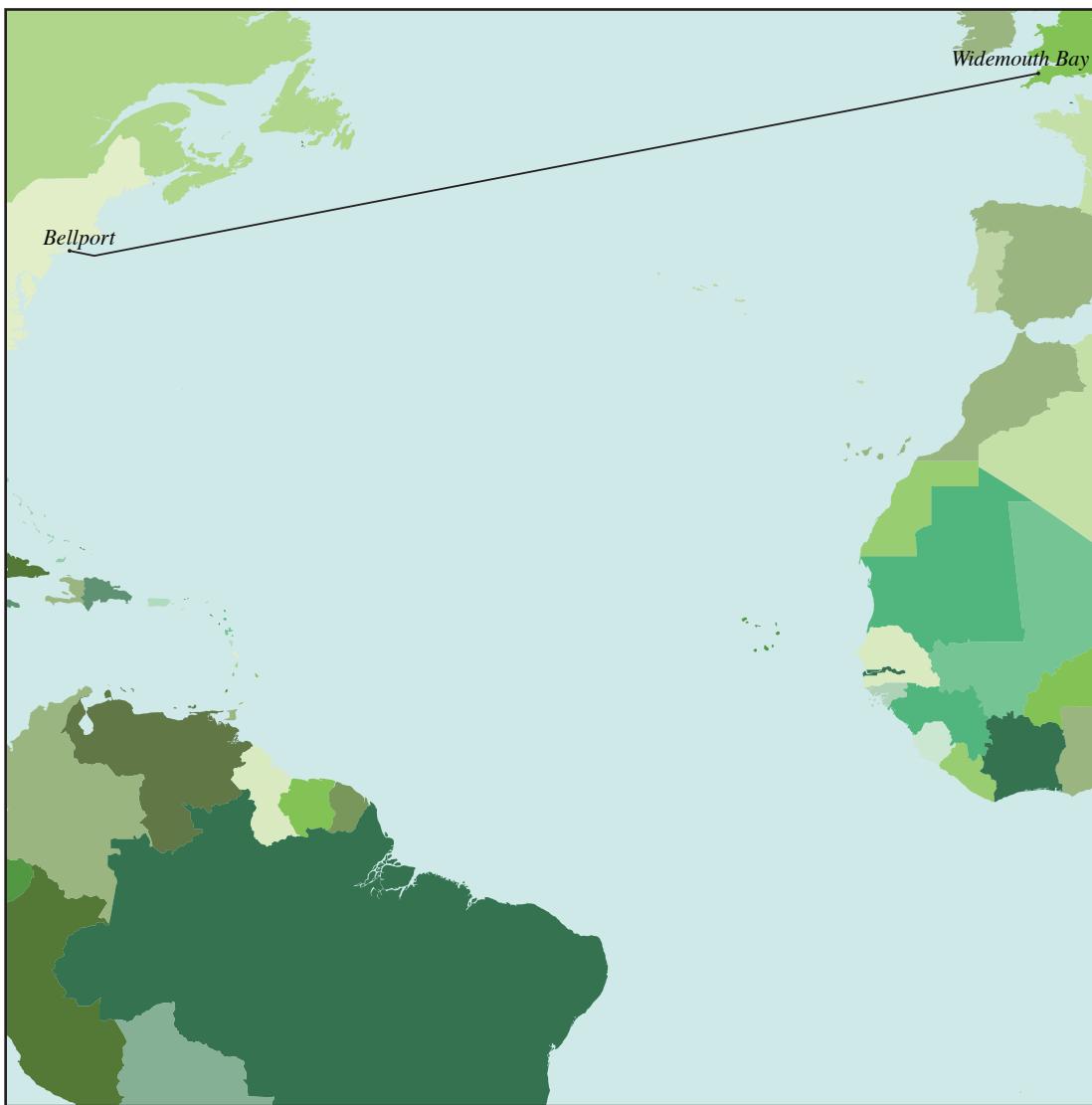




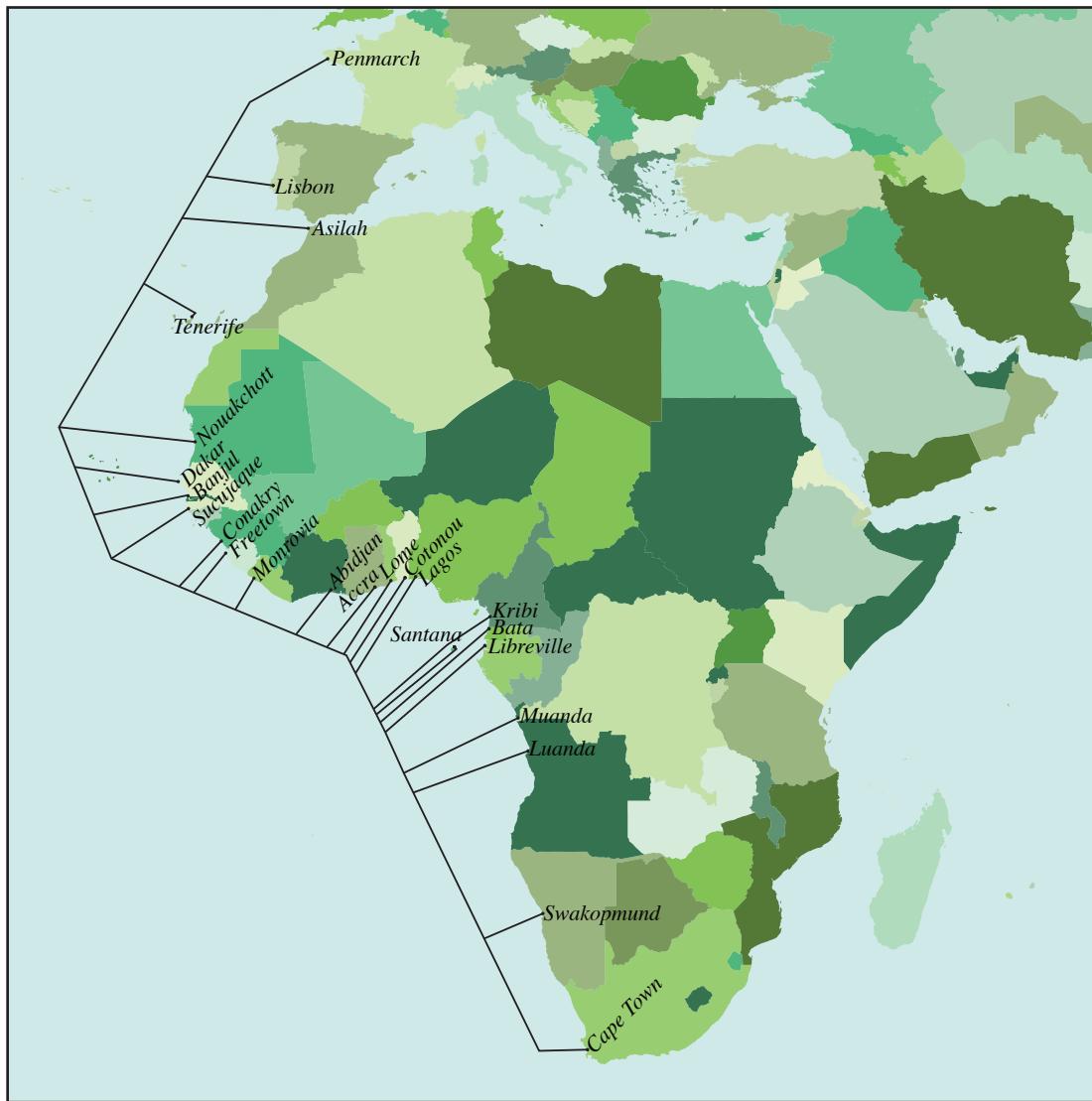
System Name:	AAG
Landing Points:	Changi (Singapore), Keawaula (Hawaii), Lantau (Hong Kong), La Union (Philippines), Mersing (Malaysia), San Luis Obispo (USA), Sri Racha (Thailand), Tanguisson (Guam), Tungku (Brunei), Vung Tau (Vietnam)
RFS Year:	2010
Est. End of Service Date:	2035
Est. System Cost (US\$):	500000000
Total Length (kms):	20000
Initial Capacity:	2.88 Tb/s
Fiber Information:	US Mainland-Hawaii 3 (including a pair to interconnect with Telstra Endeavour). Hawaii-Hong Kong 2. Hong Kong-South East Asia 3
Owners:	AT&T, BayanTel (Philippines), Bharti Airtel, British Telecom, CAT Telecom (Thailand), ETPI (Philippines), PLDT (Philippines)
System Supplier:	Alcatel Submarine Networks, NEC
System Installer:	Alcatel Submarine Networks
Cablesip:	Rene Descartes
Upgrader	Mitsubishi



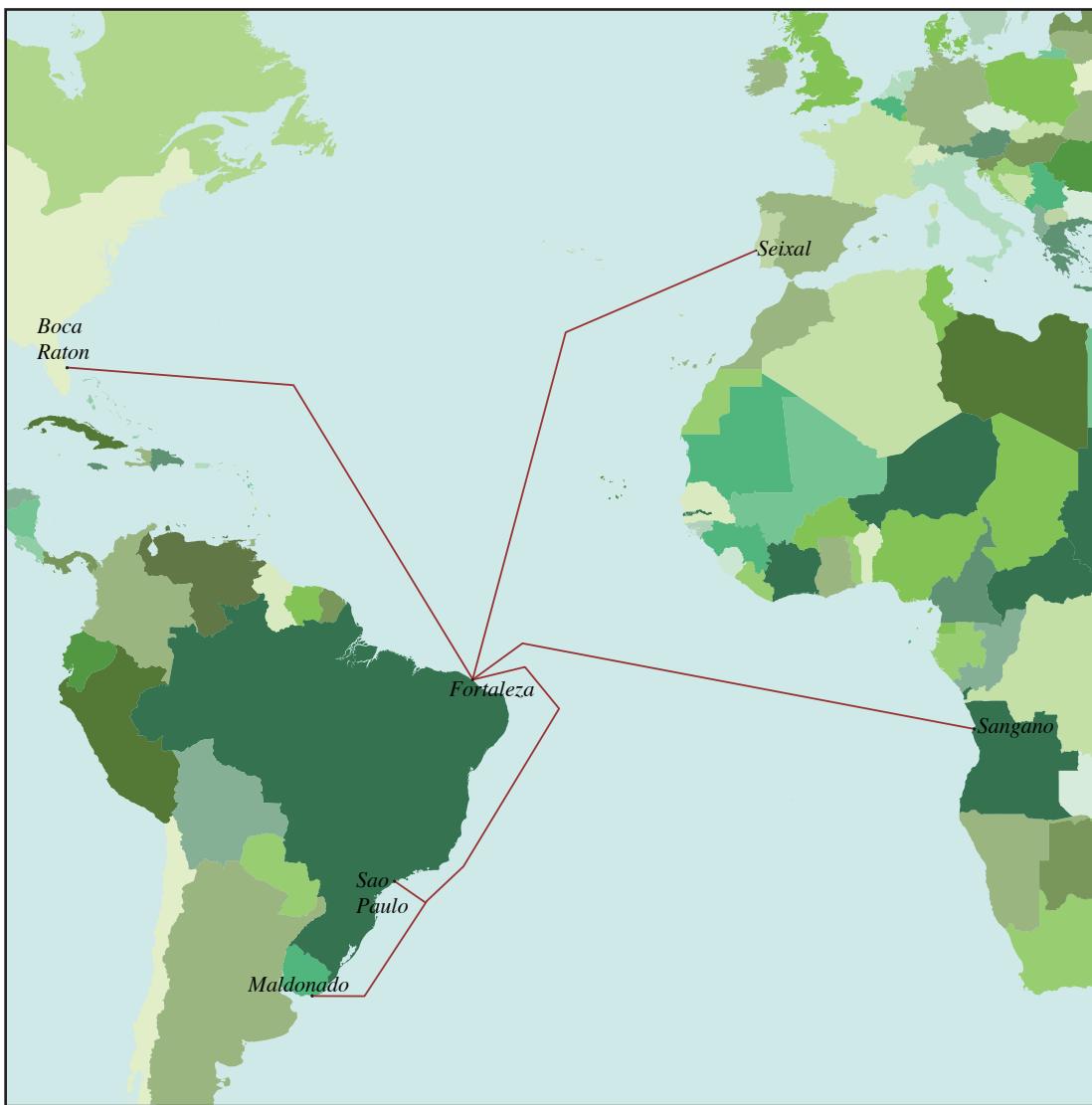
System Name:	AC-1
Landing Points:	Beverwijk (Netherlands), Brookhaven (USA), Westerland (Germany), Whitesands Bay (UK)
RFS Year:	1999
Est. End of Service Date:	2024
Est. System Cost (US\$):	875000000
Total Length (kms):	14000
Initial Capacity:	40 Gb/s
Design Capacity:	1 Tb/s
Fiber Information:	4 Fiber Pairs
Owners:	Level 3 Communications
System Supplier:	Tyco Telecommunications SSI
System Installer:	Tyco Telecommunications SSI
Upgrader	Xtera



System Name:	AC-2
Landing Points:	Bellport (USA), Widemouth (UK)
RFS Year:	2000
Est. End of Service Date:	2025
Est. System Cost (US\$):	700000000
Total Length (kms):	6400
Initial Capacity:	320 Gb/s
Design Capacity:	640 Gb/s
Owners:	Level 3 Communications
Upgrader	Infinera
Upgrade Year	2010
Upgraded Capacity	10 Gb/s

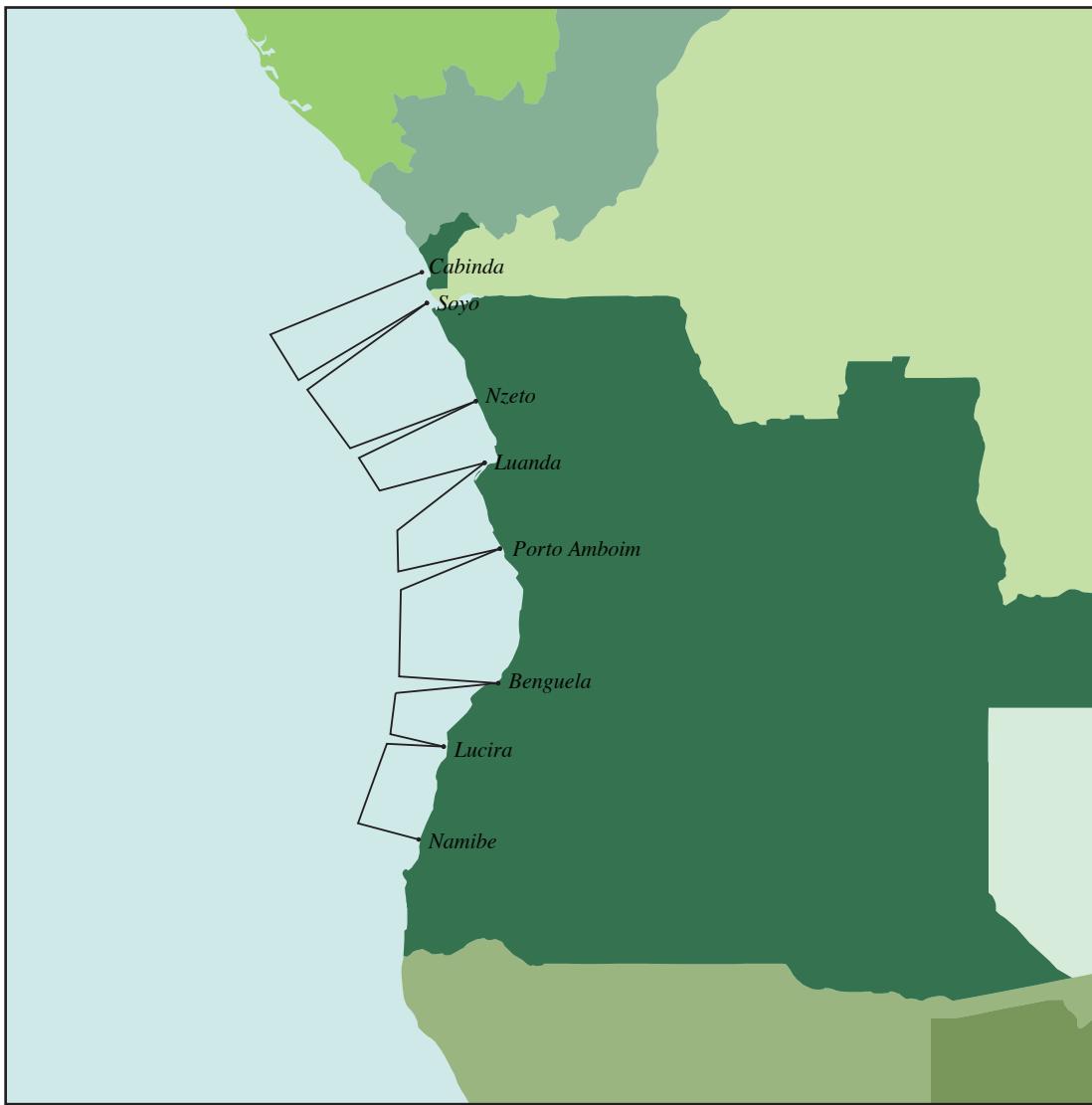


System Name:	ACE
Landing Points:	Abidjan (Ivory Coast), Accra (Ghana), Asilah (Morocco), Banjul (The Gambia), Bata (Equatorial Guinea), Cape Town (South Africa), Conakry (Guinea), Cotonou (Benin), Dakar (Senegal), Freetown (Sierra Leone), Kribi (Cameroon), Lagos (Nigeria), Libreville (Gabon), Lisbon (Portugal), Lome (Togo), Luanda (Angola), Monrovia (Liberia), Muanda (DRC), Nouakchott (Mauritania), Penmarch (France), Santana (São Tomé and Príncipe), Sucuque (Guinea-Bissau), Swakopmund (Namibia), Tenerife (Spain)
RFS Year:	2012
Est. End of Service Date:	2037
Est. System Cost (US\$):	700000000
Total Length (kms):	17000
Design Capacity:	5.12 Tb/s
Owners:	Baharicom, Benin Telecoms SA, Camtel, Companhia Santomense de Telecomunicacoes, Cote d'Ivoire Telecom, Etisalat (UAE) / Canartel Sudan Consortium, France Telecom, Gamtel, Getesa, Globalink, Maroc Telecom of Morocco, Mauritano-Tunisienne des Telecommunications, Mauritius Telecom, Office Congolais de Poste et Telecommunication, Orange Bissau, Orange Cameroun, Orange Guinee, Orange Mali, Orange Niger, Orange Spain, PT Comunicações, Sierratel, Sonatel, Togo Telecom
System Supplier:	Alcatel-Lucent Submarine Networks (Main contractors) TE Subcom (Sub contractors)
Marine Surveyor:	Fugro



System Name:	ACSea
Landing Points:	Boca Raton (United States), Seixal (Portugal), Sangano (Angola), Sao Paulo (Brazil), Maldonado (Uruguay), Fotaleza (Brazil)
RFS Year:	2014
Est. End of Service Date:	2039
Est. System Cost (US\$):	1200000000
Total Length (kms):	27000
Design Capacity:	400 Gb/s
Fiber Information:	4 Fiber Pairs
Owners:	Telebras, Odebrecht, Angola Cable

ADONES

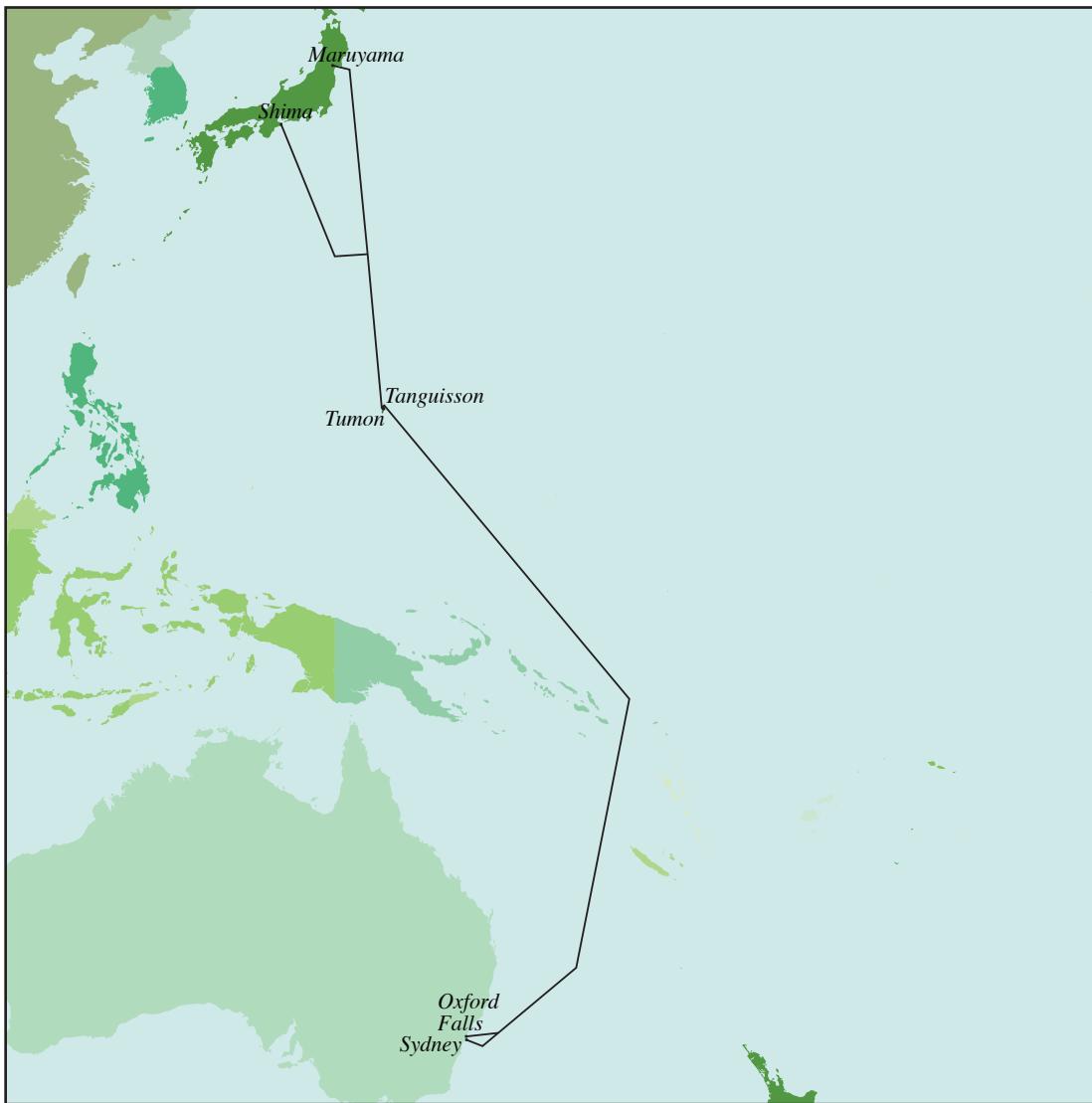


System Name:	Adones
Landing Points:	Benguela (Angola), Cabinda (Angola), Luanda (Angola), Lucira (Angola), Namibe (Angola), Nzeto (Angola), Porto Amboim (Angola), Soyo (Angola)
RFS Year:	2009
Est. End of Service Date:	2034
Est. System Cost (US\$):	35000000
Total Length (kms):	1800
Initial Capacity:	30 Gb/s
Design Capacity:	80 Gb/s
Owners:	Angola Telecom
System Supplier:	Ericsson
System Installer:	Elettra
Cablesip:	Teleri

ADRIA-1



System Name:	ADRIA-1
Landing Points:	Corfu (Greece), Dubrovnik (Croatia), Durres (Albania)
RFS Year:	2000
Est. End of Service Date:	2025
Est. System Cost (US\$):	13400000
Total Length (kms):	440
Initial Capacity:	622 Mb/s
Owners:	Deutsche Telekom AG, OTE
System Supplier:	Alcatel Submarine Networks
System Installer:	OTE



System Name:	AJC
Landing Points:	Maruyama (Japan), Oxford Falls (Australia), Shima (Japan), Sydney (Australia), Tanguisson (Guam), Tumon (Guam)
RFS Year:	2001
Est. End of Service Date:	2026
Est. System Cost (US\$):	520000000
Total Length (kms):	12224
Initial Capacity:	320 Gb/s
Design Capacity:	2.56 Tb/s
Fiber Information:	10Gb/s wavelengths with a design capacity of up to 64 waves per fiber pair
Owners:	Australia Japan Limited, Communications Global Network Services Limited, NTT Communications, SOFTBANK Telecom Corp, Telstra (Australia), Verizon
System Supplier:	Ocean Cable Company, Tyco Telecommunications
System Installer:	FCR, KDD
Cablesip:	Fresnel, Subaru
Upgrader	Ciena
Upgrade Year	2012
Upgraded Capacity	40 Gb/s



System Name:	Akorn
Landing Points:	Anchorage (USA), Florence (USA)
RFS Year:	2009
Est. End of Service Date:	2034
Est. System Cost (US\$):	100000000
Total Length (kms):	3087
Initial Capacity:	10 Gb/s
Fiber Information:	4 Fiber Pairs
Owners:	Alaska Communications
System Supplier:	Tyco Telecommunications

ALASIA



System Name:	Alasia
Landing Points:	Pentaskhinos (Cyprus), Tartus (Syria)
RFS Year:	2012
Est. End of Service Date:	2037
Est. System Cost (US\$):	15000000
Total Length (kms):	350
Design Capacity:	25.6 Tb/s
Fiber Information:	8 Fiber Pairs
Owners:	Cyprus Telecommunications Authority, Syrian Telecommunications Authority

ALASKA UNITED EAST



System Name:	Alaska United East
Landing Points:	Harbor Pointe (USA), Juneau (USA), Valdez (USA), Whittier (USA)
RFS Year:	1999
Est. End of Service Date:	2024
Total Length (kms):	3751
Initial Capacity:	10 Gb/s
Design Capacity:	110 Gb/s
Owners:	GCI
System Supplier:	NEC

ALASKA UNITED WEST



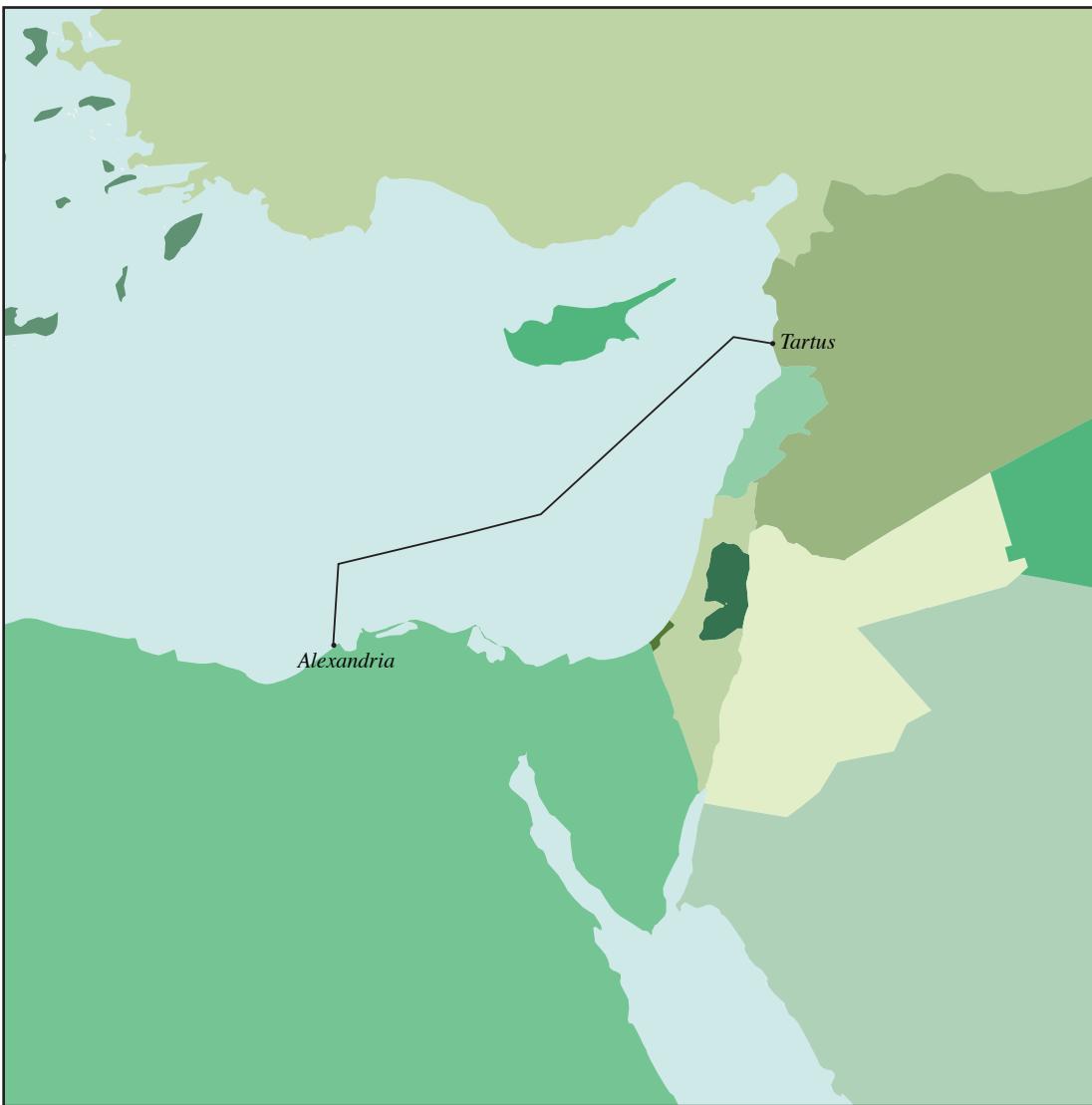
System Name:	Alaska United West
Landing Points:	Ketchikan (USA), Warrenton (USA), Whittier (USA)
RFS Year:	2004
Est. End of Service Date:	2029
Total Length (kms):	2483
Initial Capacity:	10 Gb/s
Design Capacity:	640 Gb/s
Owners:	GCI
System Supplier:	Tyco Telecommunications SSI
System Installer:	Tyco Telecommunications SSI
Cablesip:	Global Sentinel

ALBA-1



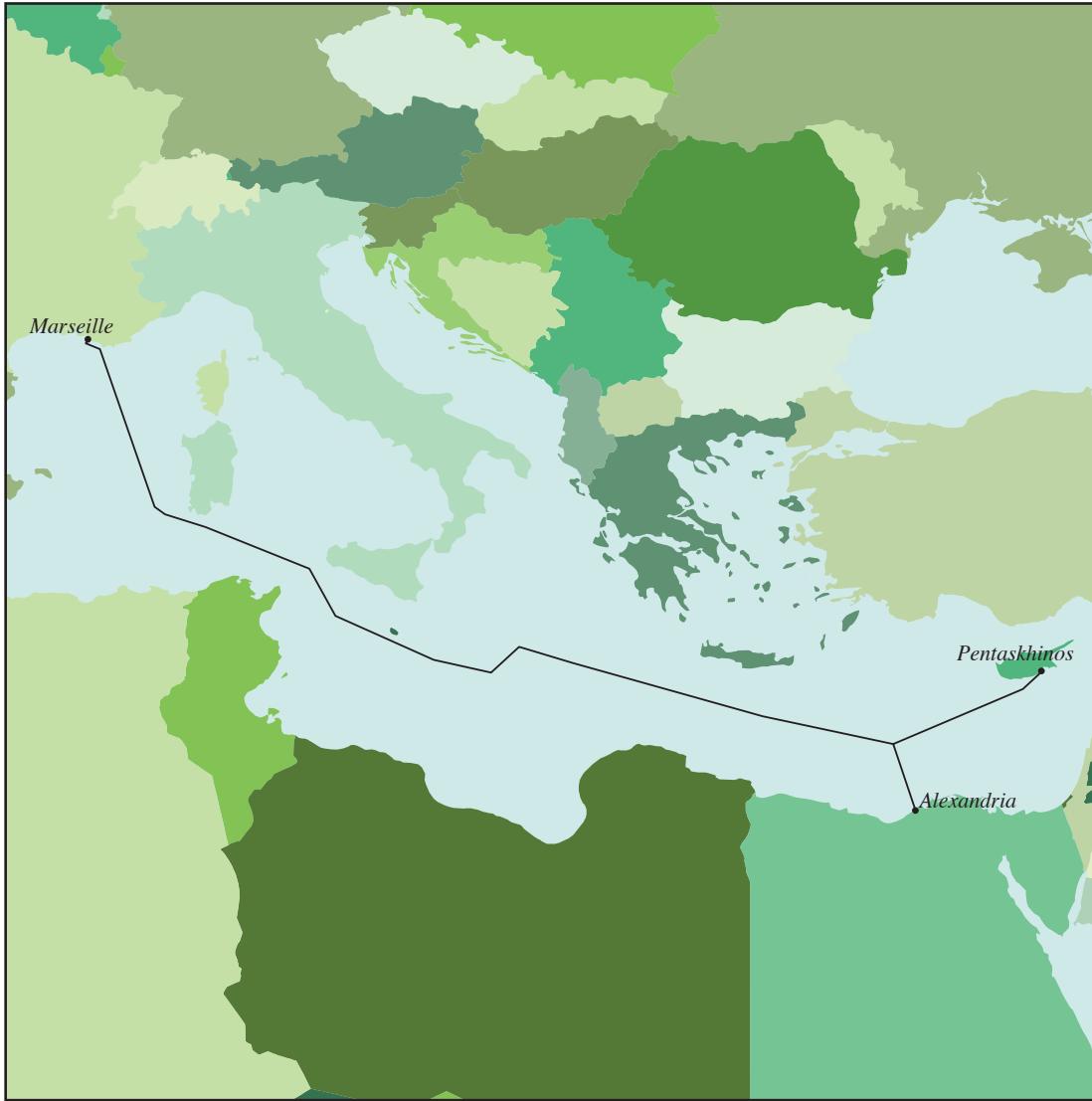
System Name:	ALBA-1
Landing Points:	Camuri (Venezuela), Havana (Cuba), Morant Point (Jamaica), Santiago De Cuba (Cuba)
RFS Year:	2011
Est. End of Service Date:	2036
Est. System Cost (US\$):	72000000
Total Length (kms):	1600
Initial Capacity:	640 Gb/s
Owners:	Telecom Venezuela, Transbit SA
System Supplier:	Alcatel-Lucent Submarine Networks
System Installer:	Alcatel-Lucent Submarine Networks
Marine Surveyor:	EGS
Survey Boat:	RV Ridley Thomas

ALETAR



System Name:	Aletar
Landing Points:	Alexandria (Egypt), Tartus (Syria)
RFS Year:	1997
Est. End of Service Date:	2022
Est. System Cost (US\$):	23000000
Total Length (kms):	787
Initial Capacity:	5 Gb/s
Fiber Information:	1 fiber Pair, 8 optical amplifiers
Owners:	Lebanese Ministry of Telecom (6.25%), Syrian Telecom (46.875%), Telecom Egypt (46.875%)
System Supplier:	Alcatel Submarine Networks
System Installer:	FCR
Cablesip:	Vercors

ALEXANDROS



System Name:	Alexandros
Landing Points:	Alexandria (Egypt), Marseille (France), Pentaskhinos (Cyprus)
RFS Year:	2010
Est. End of Service Date:	2035
Design Capacity:	10 Tb/s
Owners:	Cyprus Telecommunications Authority, Telecom Egypt

ALONSO DE OJEDA



System Name:	Alonso De Ojeda
Landing Points:	Oranjestad (Aruba), Willemstad (Netherlands Antilles)
RFS Year:	1999
Est. End of Service Date:	2024
Est. System Cost (US\$):	8678000
Total Length (kms):	120
Initial Capacity:	15 Gb/s
Design Capacity:	100 Gb/s
Owners:	Antelecom NV
System Supplier:	Alcatel Submarine Networks



System Name:	Alpal-2
Landing Points:	El Djemila (Algeria), Ses Covetes (Majorca)
RFS Year:	2002
Est. End of Service Date:	2027
Est. System Cost (US\$):	17600000
Total Length (kms):	312
Initial Capacity:	10 Gb/s
Design Capacity:	80 Gb/s
Fiber Information:	4 Fiber Pairs
Owners:	APT, France Telecom, Telefonica
System Supplier:	Pirelli
System Installer:	Global Marine Systems Limited
Cablesip:	Maersk Responder

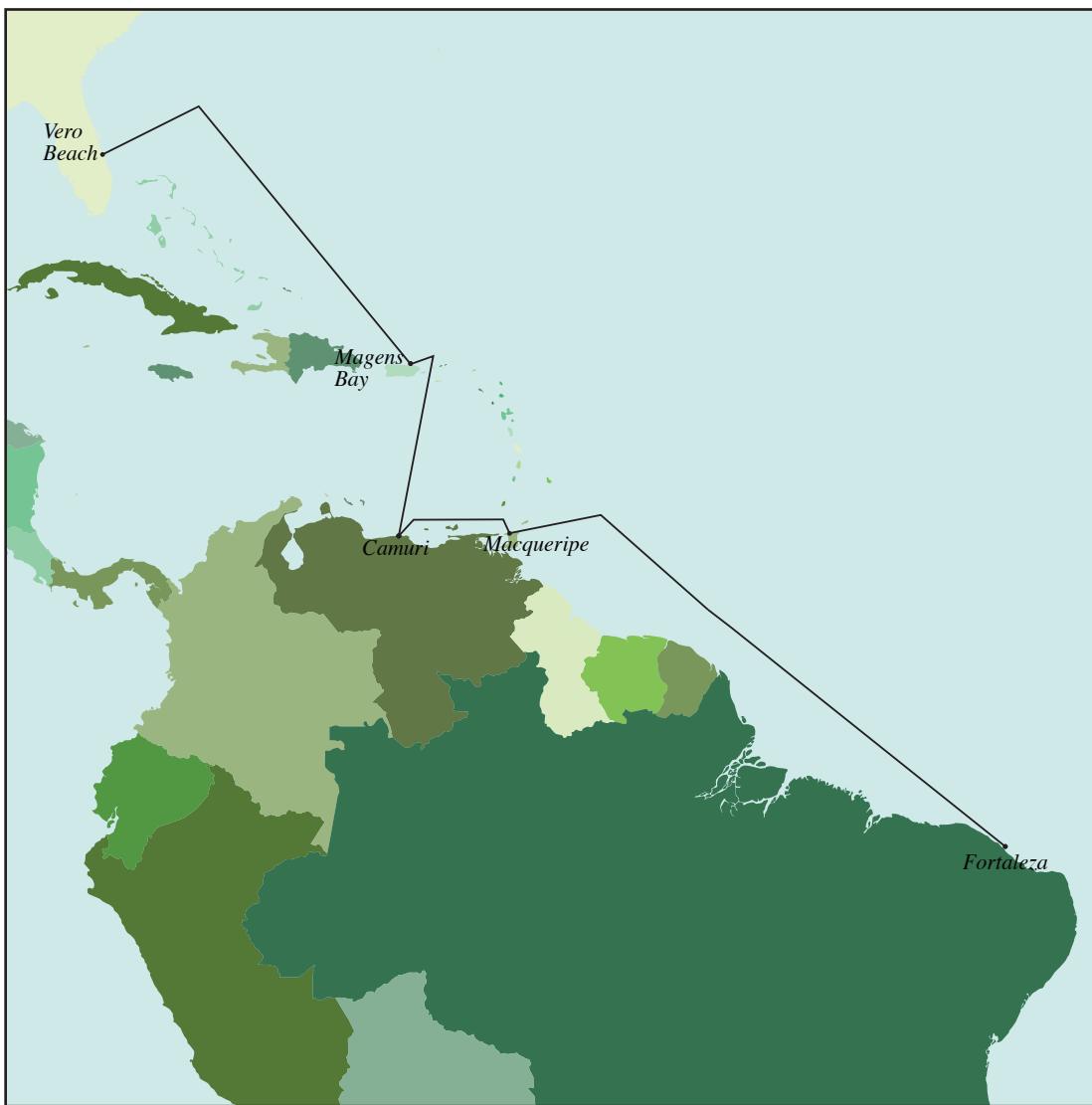


System Name:	America Movil-1
Landing Points:	Jacksonville (United States), Miami (United States), San Juan (Puerto Rico), Puerto Barrios (Guatemala), Barranquilla (Colombia), Cartagena (Colombia), Fortaleza (Brazil), Salvador de Bahia (Brazil), Rio de Janeiro (Brazil), Puerto Plata (Dominican Republic), Cancun (Mexico)
RFS Year:	2013
Est. End of Service Date:	2038
Est. System Cost (US\$):	700000000
Total Length (kms):	17500
Initial Capacity:	40 Gb/s
Design Capacity:	100 Gb/s
Owners:	America Movil
Supplier:	Alcatel-Lucent Submarine Networks
Surveyor:	Fugro, EGS



System Name:	American Samoa-Fiji
Landing Points:	American Samoa, Fiji
RFS Year:	2015
Est. End of Service Date:	2040
Est. System Cost (US\$):	28000000
Initial Capacity:	40 Gb/s
Owners:	American Samoa Hawaii Cable

AMERICAS I

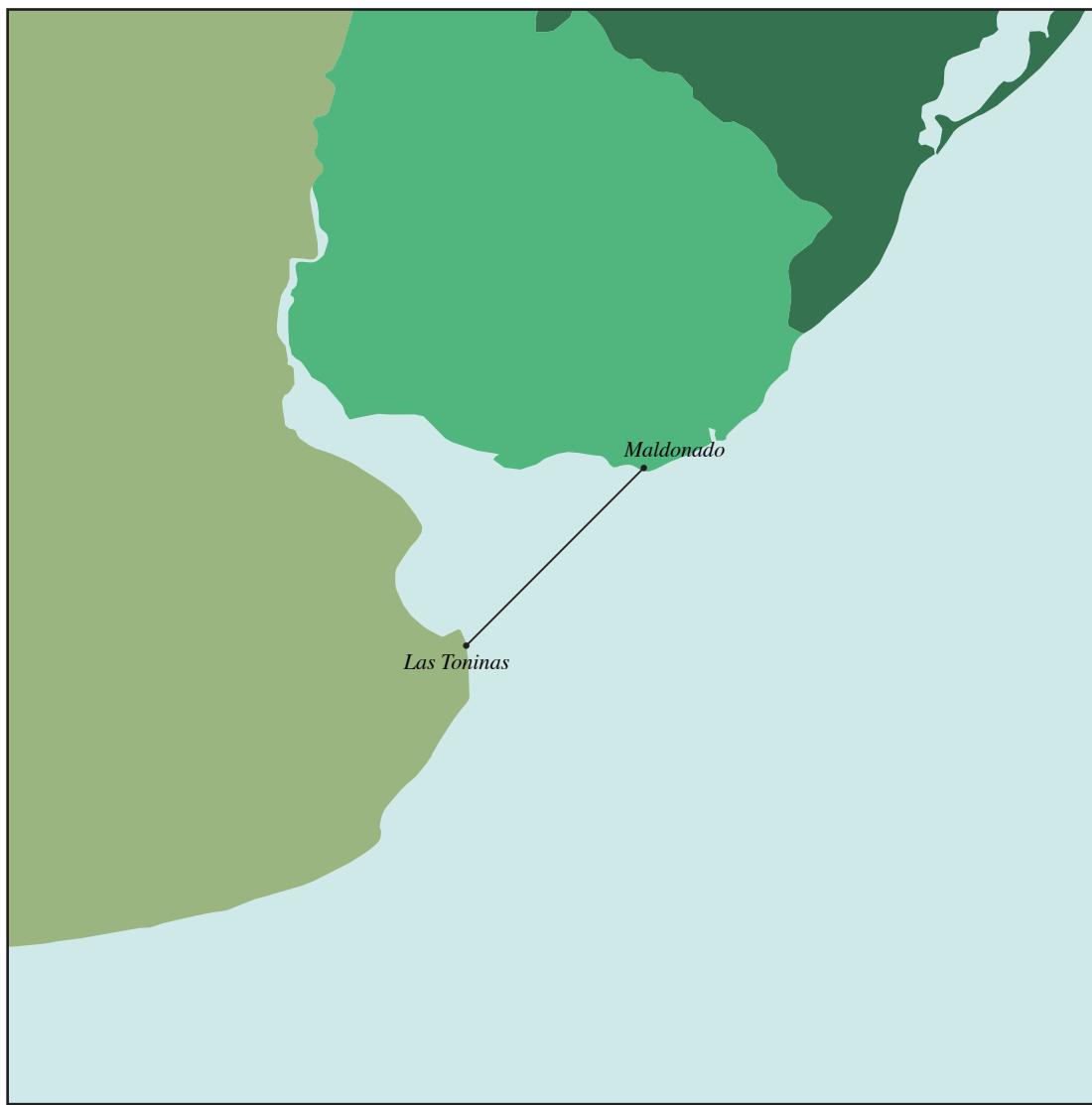


System Name:	Americas I
Landing Points:	Magens Bay (Virgin Islands), Vero Beach (USA)
RFS Year:	1994
Est. End of Service Date:	2019
Est. System Cost (US\$):	220000000
Total Length (kms):	2102
Initial Capacity:	120 Gb/s
Design Capacity:	320 Gb/s
Owners:	AT&T, CANTV (Venezuela), Embratel, TSTT
System Supplier:	Tyco Telecommunications SSI
System Installer:	Tyco Telecommunications SSI

AMERICAS II



System Name:	Americas II
Landing Points:	Camuri (Venezuela), Cayenne (French Guiana), Chaguaramas (Trinidad), Fortaleza (Brazil), Hollywood (USA), Lamentine (France), Miramar (Puerto Rico), St Croix (US Virgin Islands), Willemstad (Netherlands Antilles)
RFS Year:	2000
Est. End of Service Date:	2025
Est. System Cost (US\$):	350000000
Total Length (kms):	9000
Initial Capacity:	80 Gb/s
Design Capacity:	210 Gb/s
Owners:	Antelecom NV, AT&T, Brazil Telecom, CANTV (Venezuela), Embratel, France Telecom, GT&T, Sprint, Telecom Italia, Telefonica, Telesur, Telintar, Trescom Int., TSTT, Verizon
System Supplier:	ASN Australia 1519 km, Tyco Telecommunications
System Installer:	Tyco Telecommunications SSI
Cablesip:	Global Link

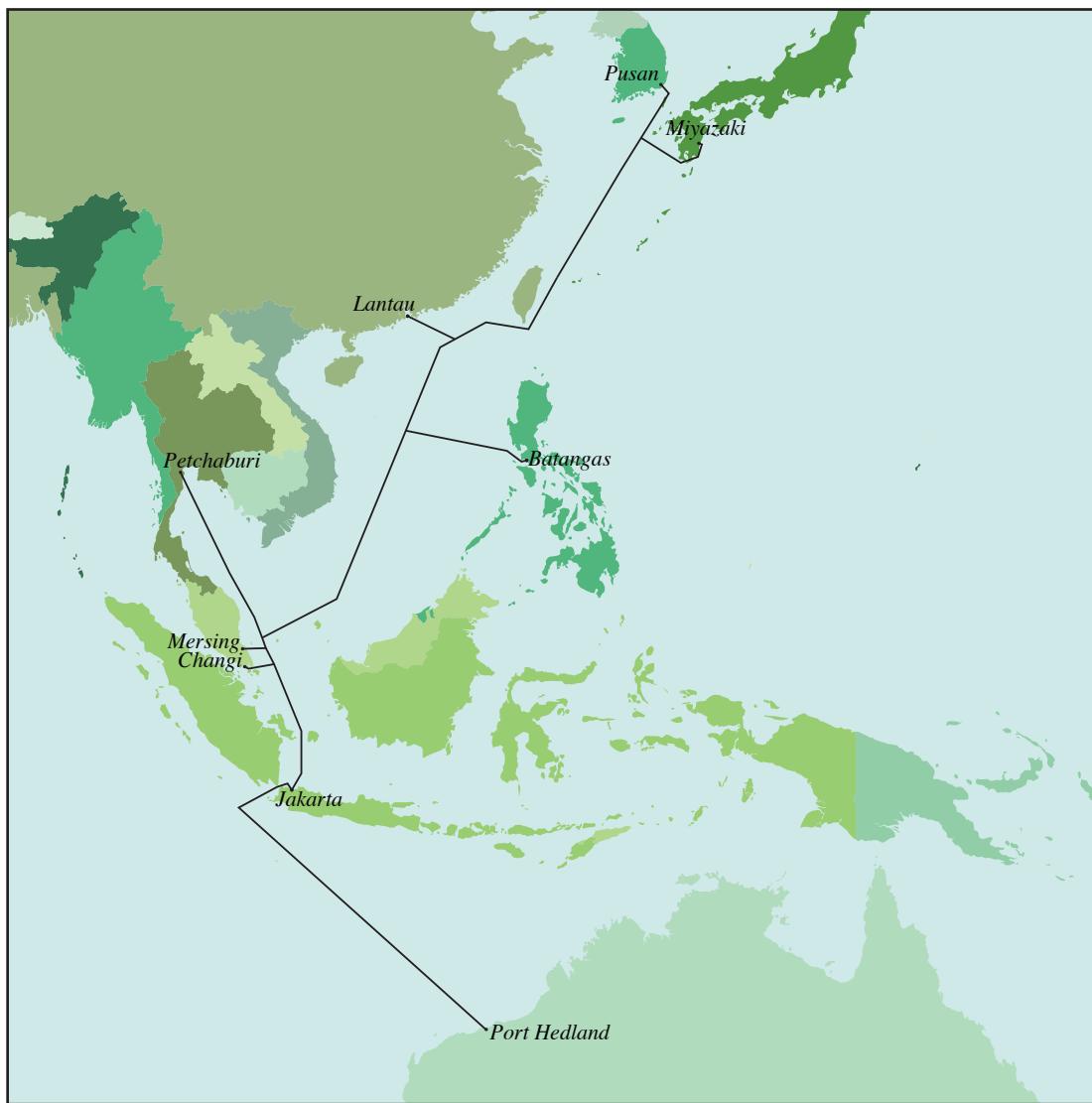


System Name:	Antel
Landing Points:	Las Toninas (Argentina), Maldonado (Uruguay)
RFS Year:	2010
Est. End of Service Date:	2035
Est. System Cost (US\$):	15000000
Total Length (kms):	250
Initial Capacity:	50 Gb/s
Design Capacity:	3.84 Tb/s
Owners:	Antel (Uruguay), Telecom Argentina
System Supplier:	Alcatel Submarine Networks

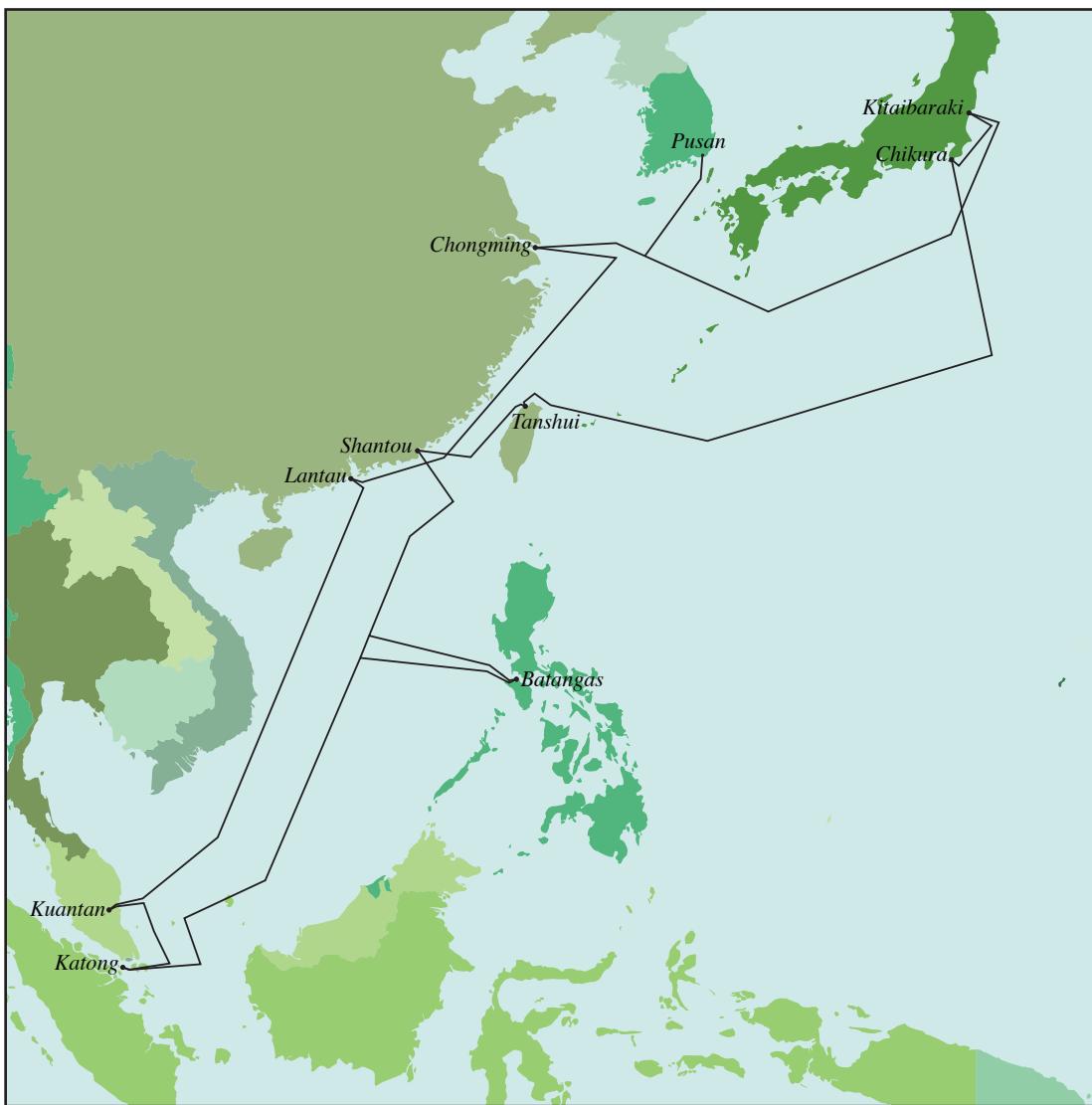
ANTILLES CROSSING



System Name:	Antilles Crossing
Landing Points:	Bridgetown (Barbados), Hams Bluff (Virgin Islands), Port Castries (St Lucia)
RFS Year:	2006
Est. End of Service Date:	2031
Total Length (kms):	972
Initial Capacity:	40 Gb/s
Design Capacity:	80 Gb/s
Owners:	Antilles Crossing, Barbados Light & Power, Leucadia, Telebarbados
System Supplier:	Tyco Telecommunications SSI
System Installer:	Tyco Telecommunications SSI



System Name:	APCN
Landing Points:	Batangas (Philippines), Changi (Singapore), Jakarta (Indonesia), Lantau (Hong Kong), Mersing (Malaysia), Miyazaki (Japan), Phetchaburi (Thailand), Port Hedland (Australia), Pusan (South Korea)
RFS Year:	1997
Est. End of Service Date:	2022
Est. System Cost (US\$):	640000000
Total Length (kms):	11813
Initial Capacity:	5 Gb/s
Design Capacity:	10 Gb/s
Owners:	CAT Telecom (Thailand), Chunghwa Telecom International, Indosat, KDDI, KT Corporation, PLDT (Philippines), Reach NHK, Singtel, TM
System Supplier:	Ocean Cable Company, Tyco Telecommunications
System Installer:	C&W (Marine)
Cablesip:	Cable Venture, Cable Innovator, Ocean Link

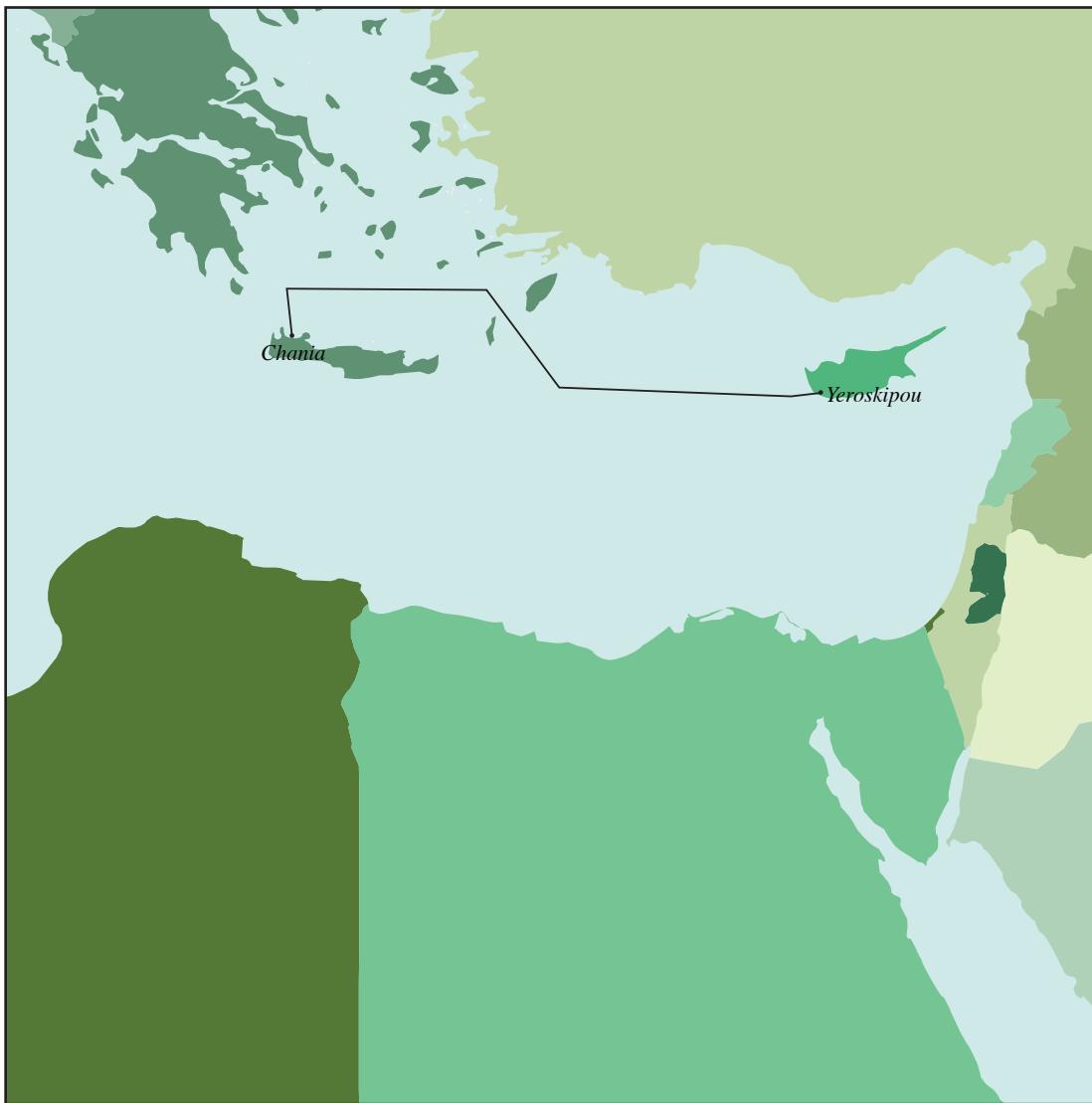


System Name:	APCN 2
Landing Points:	Batangas (Philippines), Chikura (Japan), Chongming (China), Katong (Singapore), Kitaibaraki (Japan), Kuantan New Port (Malaysia), Lantau (Hong Kong), Pusan (South Korea), Shantou (China), Tanshui (Taiwan)
RFS Year:	2002
Est. End of Service Date:	2027
Est. System Cost (US\$):	1100000000
Total Length (kms):	19000
Initial Capacity:	160 Gb/s
Design Capacity:	2.56 Tb/s
Owners:	China Telecom, Chunghwa Telecom International, CTM, France Telecom, KDDI, KT Corporation, NTT Communications, PLDT (Philippines), Reach NHK, Singtel, Telekom Malaysia
System Supplier:	Ocean Cable Company
System Installer:	Global Marine Systems Limited
Cablesip:	Cable Retriever, Bold Endurance, Fu Lai, Asean Restorer, Maersk Recorder, Maersk Repeater, Maersk Responder, Maersk Reliance, Subaru, Kuroshio Maru, Cable Installer, Barges, Networker, Elbe, Chin Ann 3
Marine Surveyor:	C&C Technologies



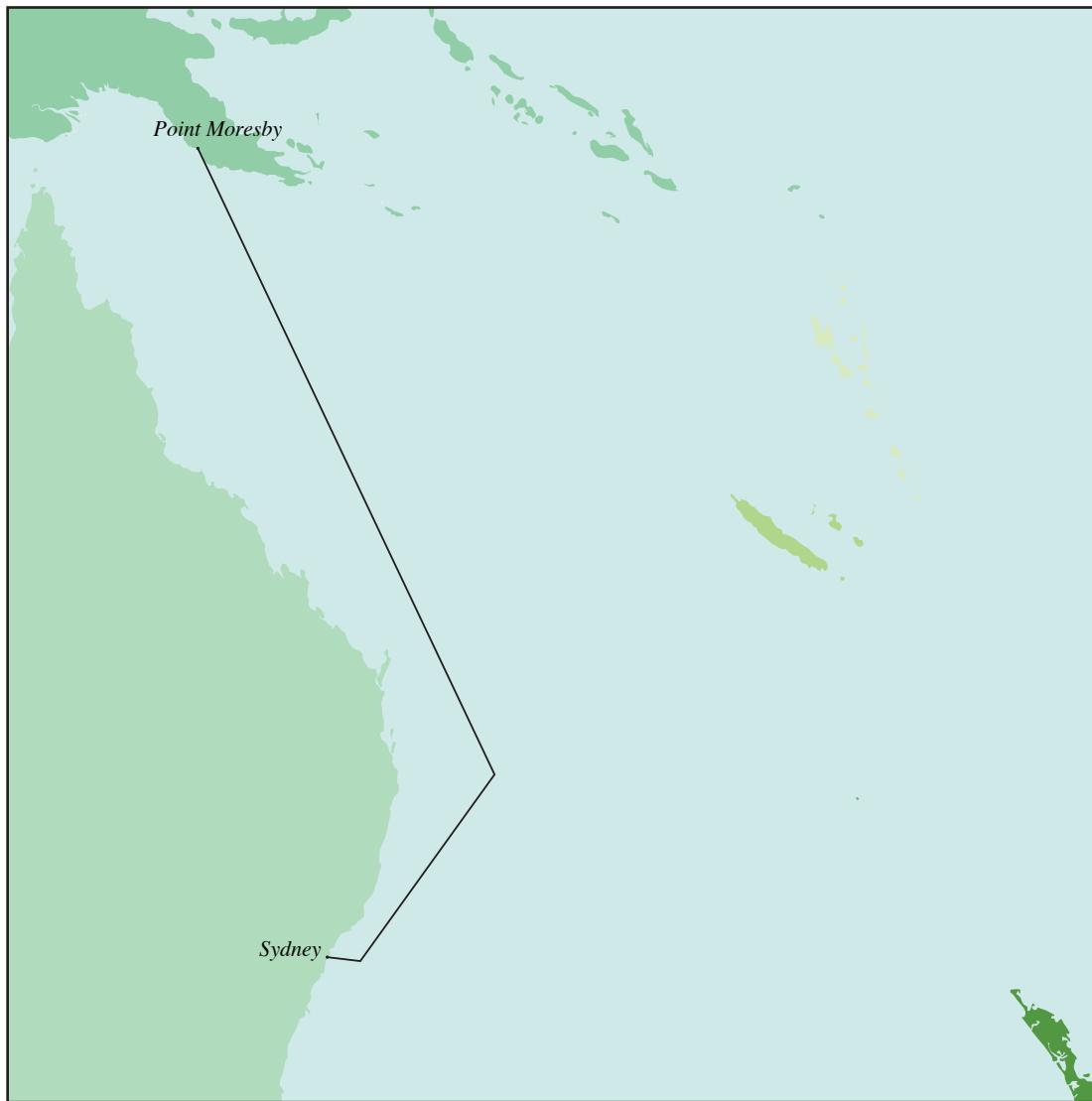
System Name:	APG
Landing Points:	Chongming (China), Da Nang (Vietnam), Kuantan New Port (Malaysia), Lantau (Hong Kong), Maruyama (Japan), Nanhui District (China), Pusan (South Korea), Shima (Japan), Songkhla (Thailand), Toucheng (Taiwan), Tuas (Singapore)
RFS Year:	2012
Est. End of Service Date:	2037
Est. System Cost (US\$):	313144000
Total Length (kms):	8000
Initial Capacity:	4 Tb/s
Owners:	China Telecom, China Unicom, Chunghwa Telecom International, KT Corporation, NTT Communications, PLDT (Philippines), StarHub (Singapore), Telekom Malaysia, VNPT

APHRODITE 2



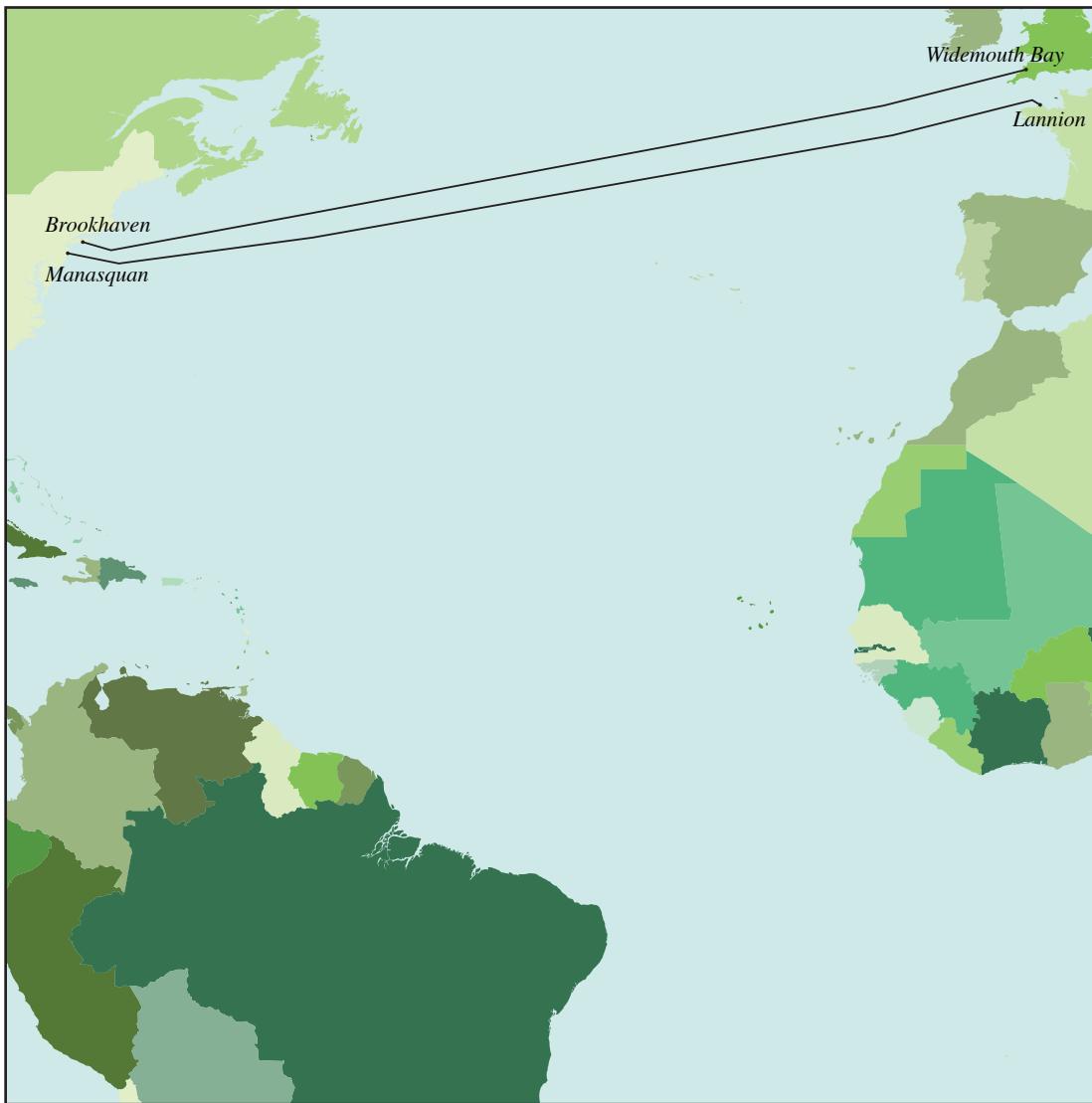
System Name:	Aphrodite 2
Landing Points:	Chania (Greece), Yeroskipos (Cyprus)
RFS Year:	1994
Est. End of Service Date:	2019
Est. System Cost (US\$):	30000000
Total Length (kms):	868
Initial Capacity:	1.12 Gb/s
Owners:	AT&T, Belgacom, British Telecom, Cyprus Telecommunications Authority (62%), France Telecom, OTE, Sprint, Verizon
System Supplier:	Alcatel Submarine Networks
Cablesip:	Skandi Hav

APNG-2



System Name:	APNG-2
Landing Points:	Port Moresby (Papua New Guinea), Sydney (Australia)
RFS Year:	2006
Est. End of Service Date:	2031
Est. System Cost (US\$):	11000000
Total Length (kms):	1800
Initial Capacity:	1.12 Gb/s
Owners:	Telikom PNG, Telstra (Australia)
System Supplier:	Alcatel Submarine Networks
System Installer:	Alcatel Submarine Networks
Cablesip:	Ile de Re

APOLLO

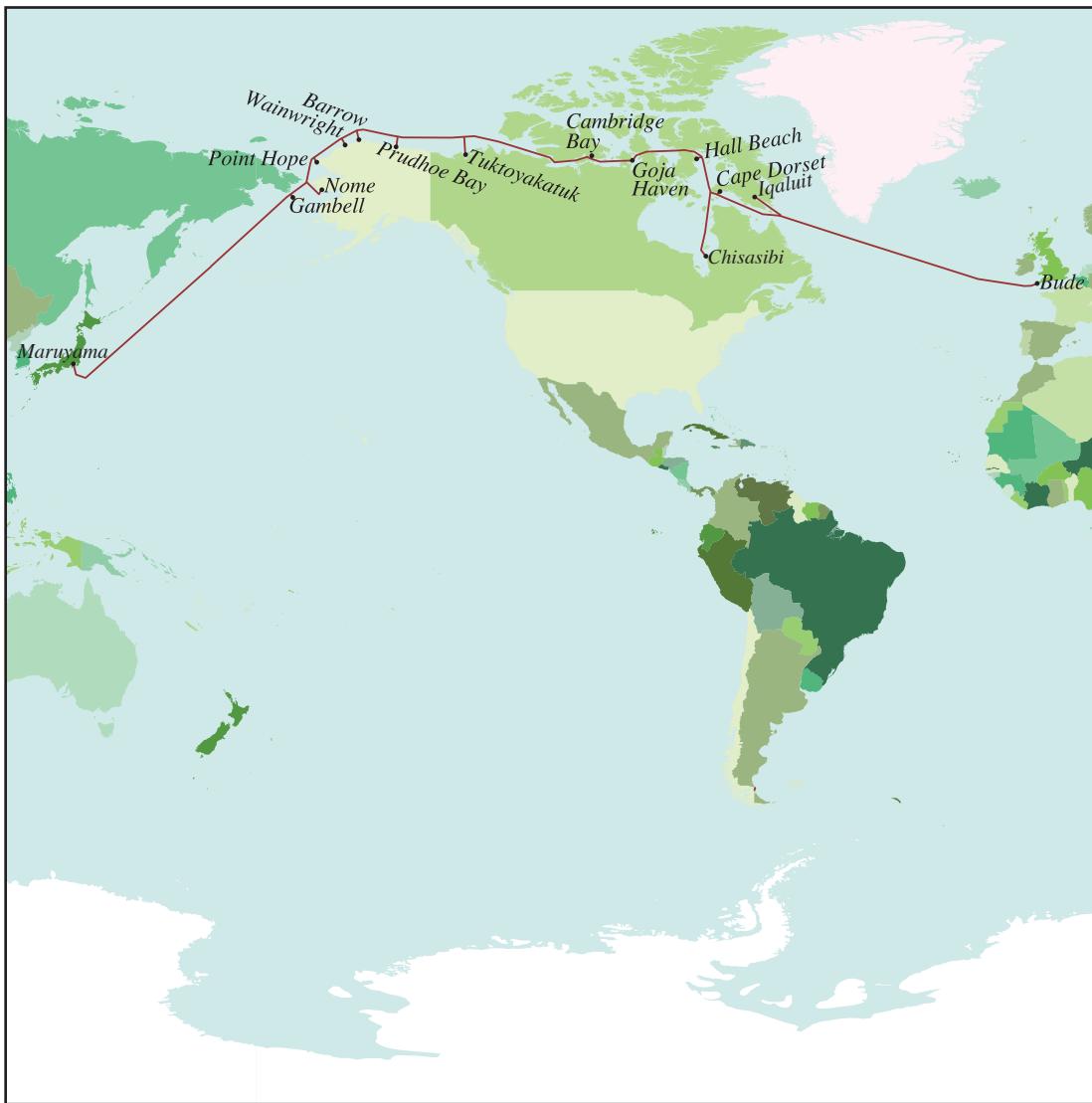


System Name:	Apollo
Landing Points:	Brookhaven (USA), Lannion (France), Manasquan (USA), Widemouth (UK)
RFS Year:	2003
Est. End of Service Date:	2028
Total Length (kms):	12700
Initial Capacity:	10 Gb/s
Design Capacity:	3.2 Tb/s
Fiber Information:	4 Fiber Pairs
Owners:	Alcatel, Apollo SCS Limited, C&W
System Supplier:	Alcatel Submarine Networks
System Installer:	Alcatel Submarine Networks
Cablesip:	Ile de Batz, Ile de Brehat, Ile de Sein, Skandi Neptune
Upgrader	Alcatel-Lucent Submarine Networks
Upgrade Year	2012
Upgraded Capacity	40 Gb/s

ARCOS-1

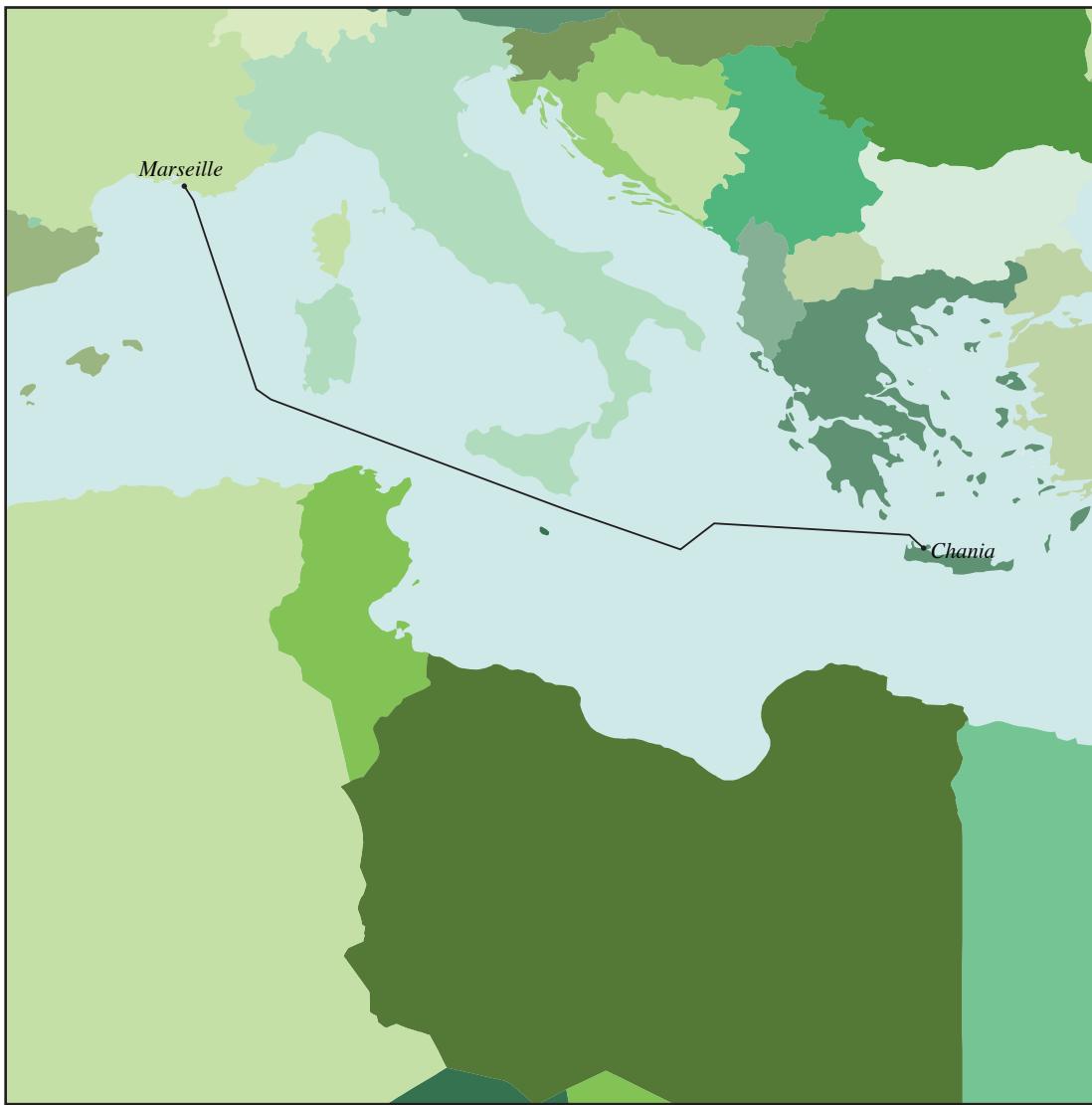


System Name:	Arcos-1
Landing Points:	Bluefields (Nicuragua), Cancun (Mexico), Cartagena (Columbia), Cat Island (Bahamas), Crooked Island (Bahamas), Hollywood (USA), Ladyville (Belize), Maria Chiquita (Panama), Nassau (The Bahamas), Providenciales (Turks and Caicos Islands), Puerto Barrios (Guatemala), Puerto Cabezas (Nicuragua), Puerto Cortes (Honduras), Puerto Lempira (Honduras), Puerto Limon (Costa Rica), Puerto Plata (Dominican Republic), Punta Cana (Dominican Republic), Punto Fijo (Venezuela), Riohacha (Columbia), San Juan (Puerto Rico), Trojillo (Honduras), Tulum (Mexico), Ustupo (Panama), Willemstad (Netherlands Antilles)
RFS Year:	2001 (Phase 1), 2002 (Phase 2)
Est. End of Service Date:	2026
Total Length (kms):	8201
Initial Capacity:	80 Gb/s
Design Capacity:	1 Tb/s
Owners:	Alestra (Mexico), AT&T, Axtel (Mexico), BTC (Bahamas), BTL (Belize), CANTV (Venezuela), Codetel (Dominican Republic), Columbus Networks, Enitel (Nicaragua), Hondutel (Honduras), ICE (Costa Rica), Impsat (USA), Internexa (Colombia), Orbinet SA (Colombia), Racsa (Costa Rica), Telecarrier (Panama), Tricom (Dominican Republic), Ultracom (Puerto Rico), UTS (Curacao), Verizon
System Supplier:	Norddeutsche Seekabelwerke (Tyco Telecommunications, Partial)
Marine Surveyor:	Fugro
Upgrader	Xtera

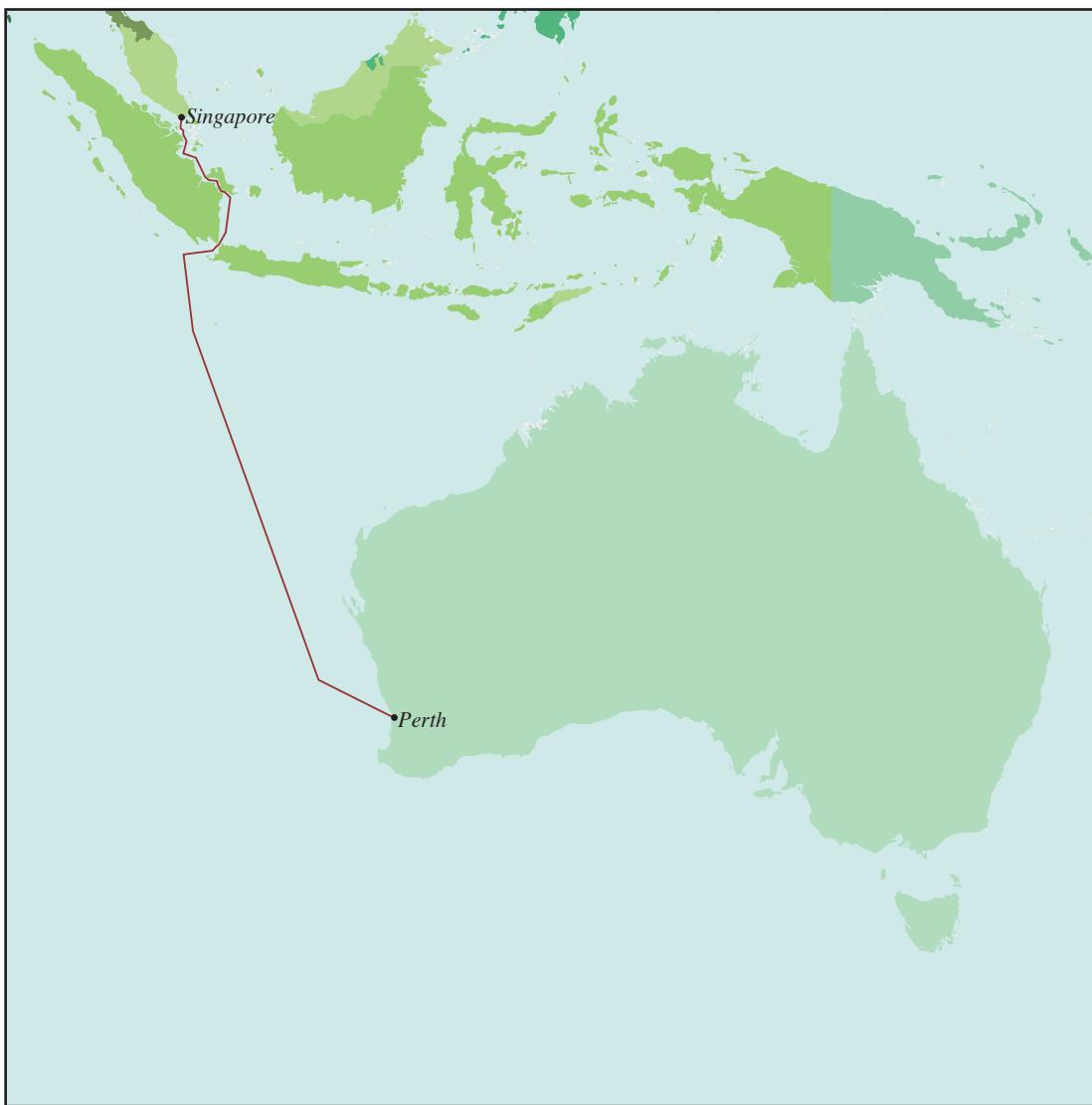


System Name:	Arctic Fibre
Landing Points:	Maruyama (Japan), Gambell (United States), Nome (United States), Point Hope (United States), Wainwright (United States), Barrow (United States), Prudhoe Bay (United States), Tuktoyakatuk (Canada), Cambridge Bay (Canada), Goja Haven (Canada), Hall Beach (Canada), Cape Dorset (Canada), Iqaluit (Canada), Chisasibi (Canada), Bude (United Kingdom)
RFS Year:	2014
Est. End of Service Date:	2039
Est. System Cost (US\$):	900000000
Total Length (kms):	18000
Initial Capacity:	100 Gb/s
Owners:	Arctic Fibre Inc.

ARIANE 2

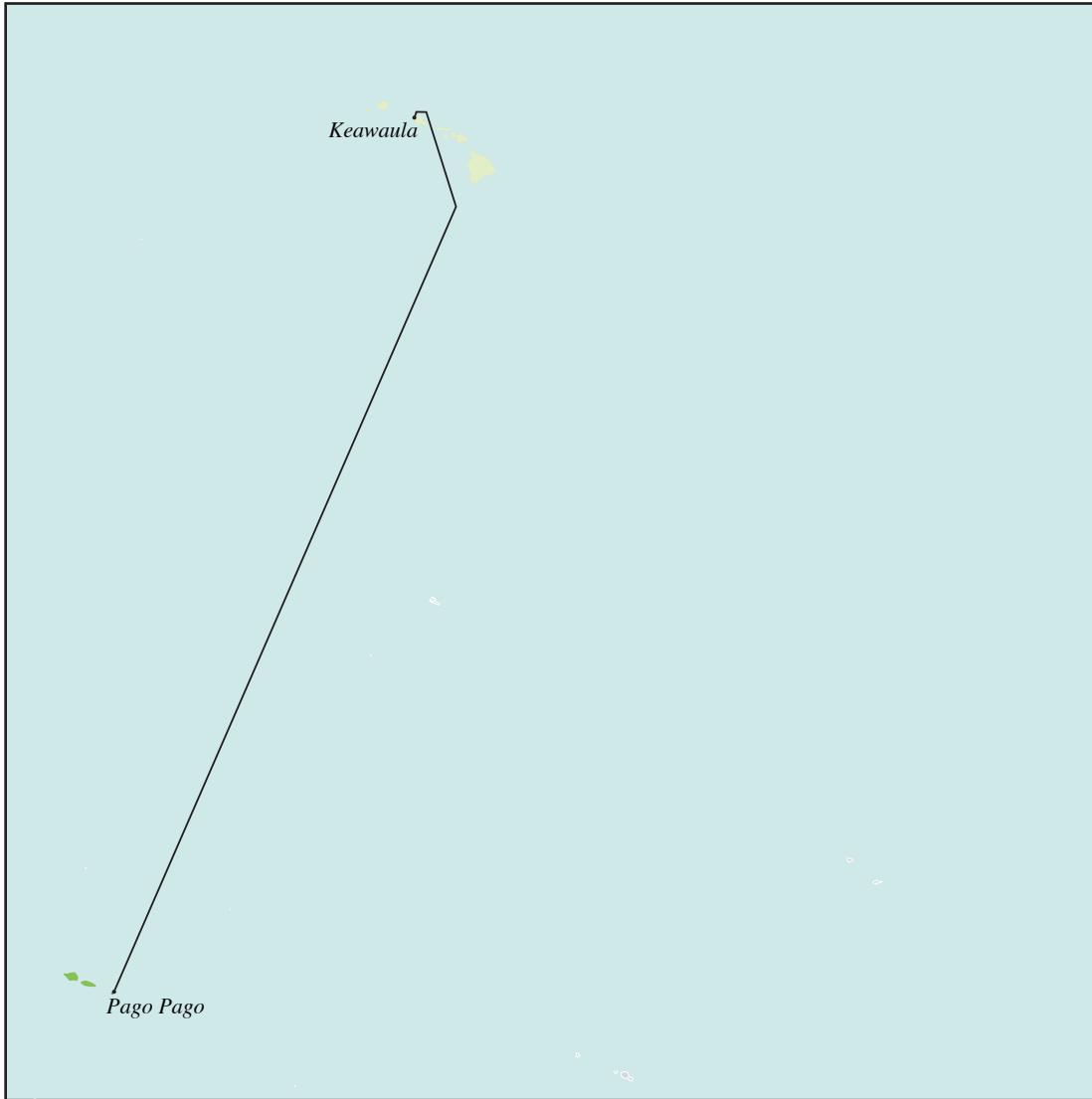


System Name:	Ariane 2
Landing Points:	Chania (Greece), Marseille (France)
RFS Year:	1995
Est. End of Service Date:	2020
Est. System Cost (US\$):	70000000
Total Length (kms):	2370
Initial Capacity:	1.12 Gb/s
Owners:	AT&T, Belgacom, Cypress Telecommunications Authority, France Telecom, OTE, Verizon
System Supplier:	Alcatel Submarine Networks
System Installer:	FCR
Cablesip:	Vercors



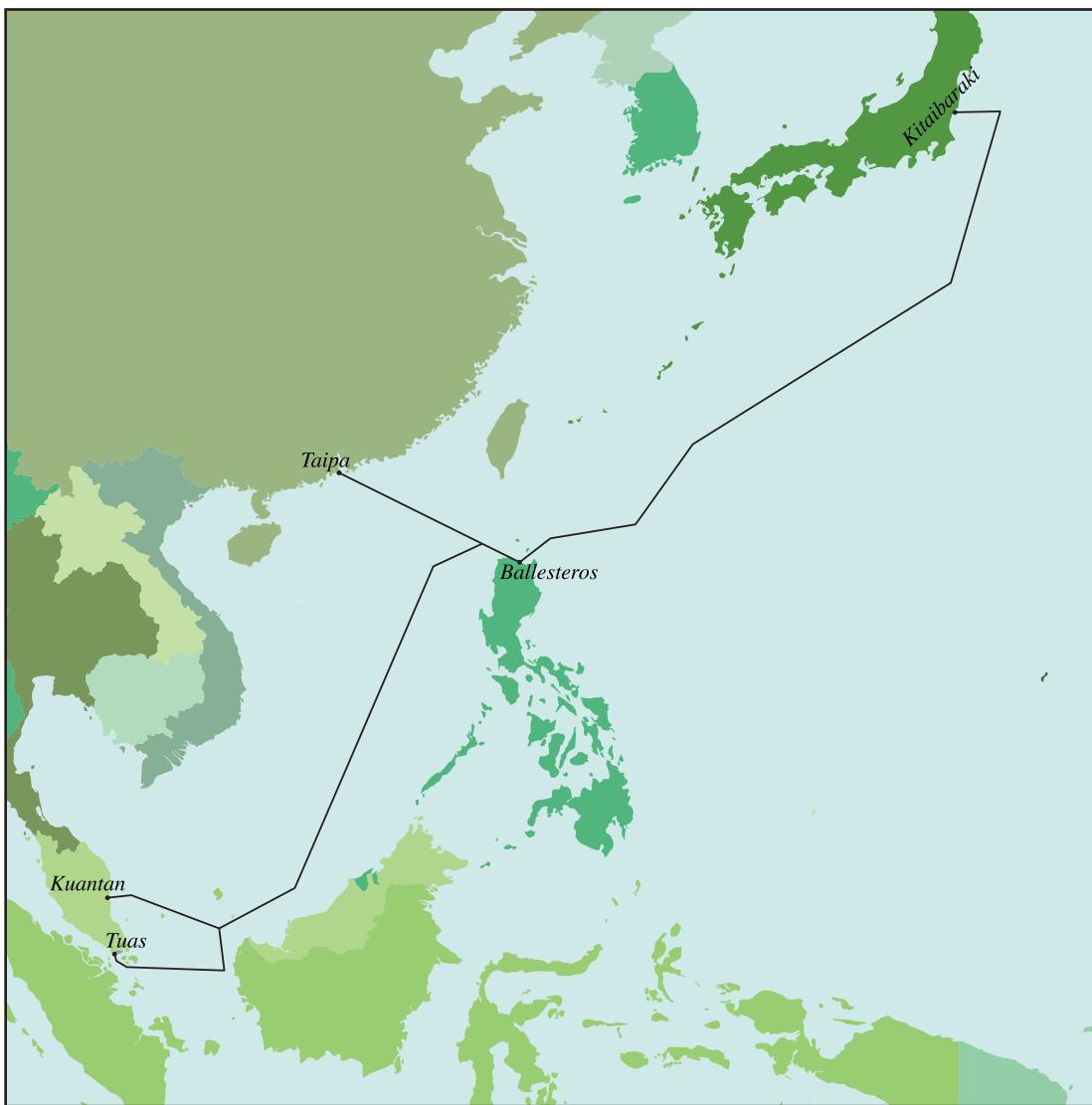
System Name:	ASC
Landing Points:	Perth (Australia), Singapore (Singapore)
RFS Year:	2014
Est. End of Service Date:	2039
Total Length (kms):	4800
Initial Capacity:	100 Gb/s
Owners:	Australia-Singapore Cable International Limited
System Supplier:	Alcatel-Lucent Submarine Networks

ASH



System Name:	ASH
Landing Points:	Keawaula (Hawaii), Pago Pago (American Samoa)
RFS Year:	2009
Est. End of Service Date:	2034
Total Length (kms):	4680
Initial Capacity:	1.2 Gb/s
Fiber Information:	2 Fiber Pairs
Owners:	ASH Cable Company

ASIA SUBMARINE-CABLE EXPRESS



System Name:	Asia Submarine-cable Express
Landing Points:	Kitaibaraki (Japan), Ballesteros (Phillipines), Taipai (China), Kuantan (Malaysia), Tuas (Singapore)
RFS Year:	2012
Est. End of Service Date:	2037
Est. System Cost (US\$):	412000000
Total Length (kms):	7200
Design Capacity:	15 Tb/s
Fiber Information:	6 Fiber Pairs
Owners:	NTT Communications, PLDT (Philippines), StarHub (Singapore), Telekom Malaysia



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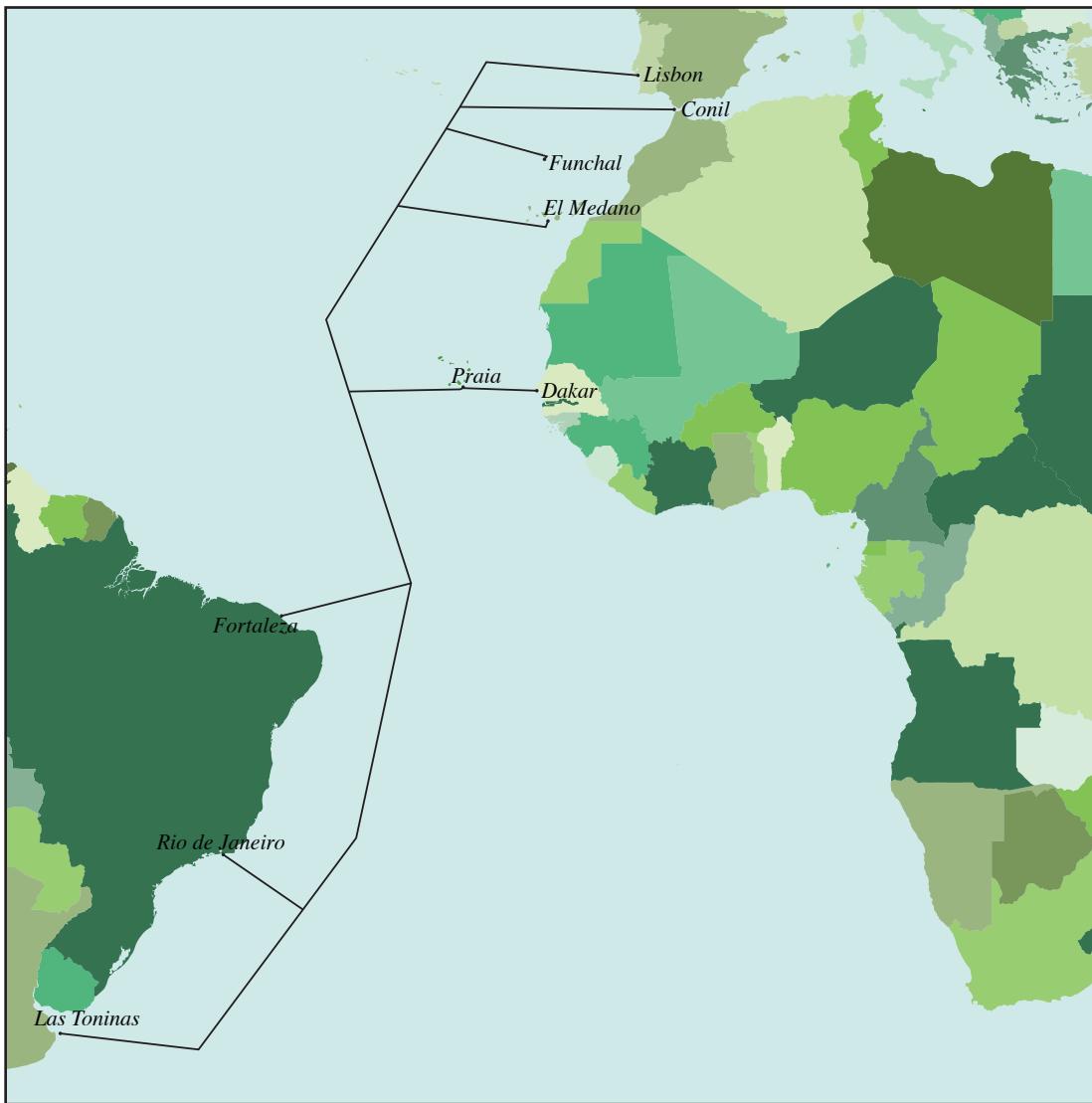
or call +1 617 444 8605

ATHENA



System Name:	Athena
Landing Points:	Koropi (Greece), Pentaskhinos (Cyprus)
RFS Year:	2011
Est. End of Service Date:	2036
Total Length (kms):	600
Owners:	Cypress Telecommunications Authority, Telecom Italia Sparkle

ATLANTIS-2



System Name:	Atlantis-2
Landing Points:	Conil (Spain), Dakar (Senegal), El Medano (Spain), Fortaleza (Brazil), Funchal (Portugal), Las Toninas (Argentina), Lisbon (Portugal), Praia (Cape Verde), Rio de Janeiro (Brazil)
RFS Year:	2000
Est. End of Service Date:	2025
Est. System Cost (US\$):	249000000
Total Length (kms):	13000
Initial Capacity:	40 Gb/s
Fiber Information:	Initial: 2 wavelengths, 2 Fiber Pairs, Design: 8 wavelengths, 2 Fiber Pairs
Owners:	Cabo Verde Telecom, Deutsche Telekom AG, Embratel, France Telecom, Marconi, Sonatel, Telecom Argentina, Telecom Italia, Telefonica, Telefonica de Argentina, Telintar, Verizon
System Supplier:	Alcatel Submarine Networks, Pirelli, Fujitsu
System Installer:	FCR
Cablesip:	Raymond Croze, Fresnel, Vercors, Teneo, Teliri, Maersk Defender

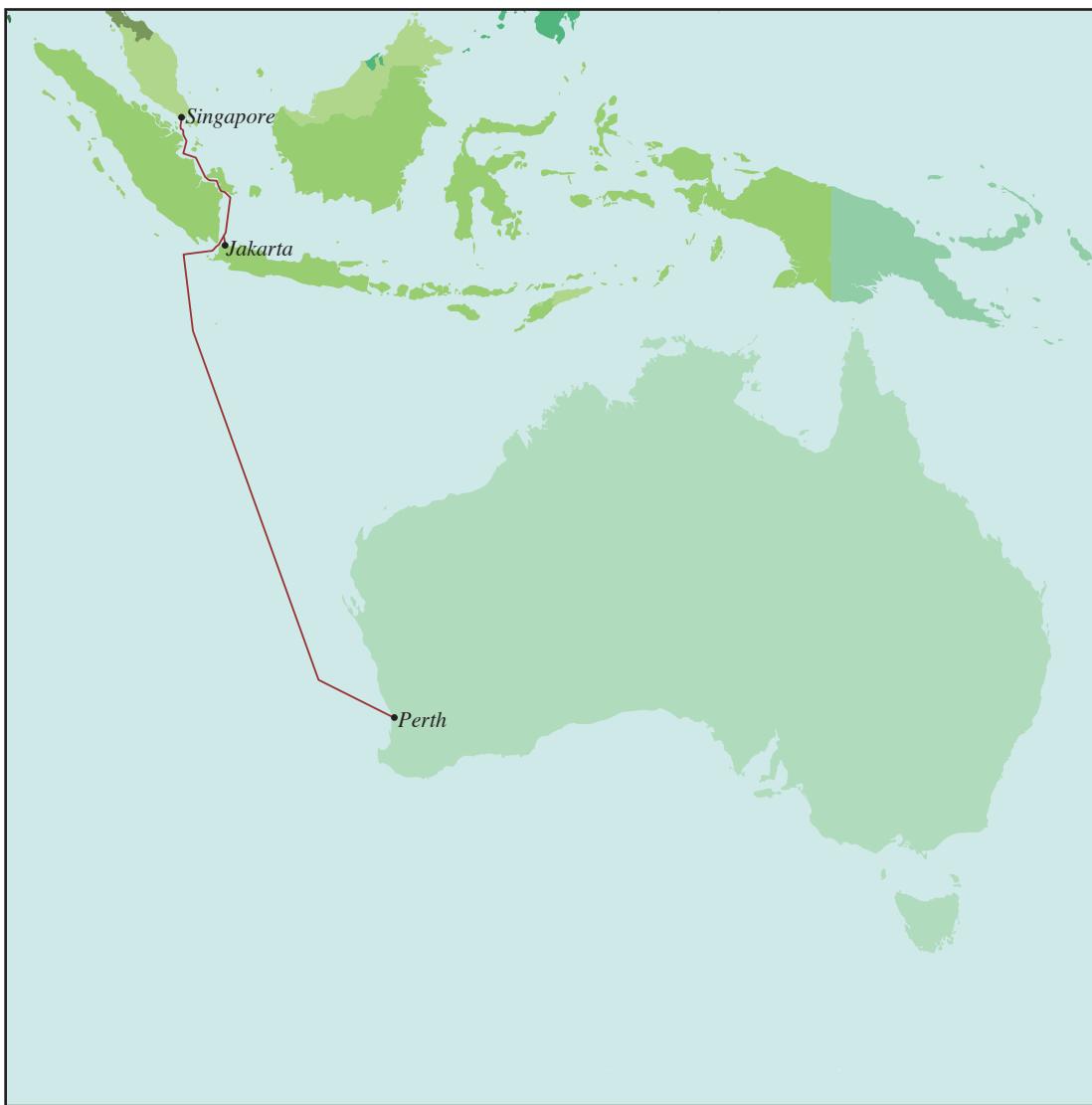
ATLAS OFFSHORE



System Name:	Atlas Offshore
Landing Points:	Asilah (Morocco), Marseille (France)
RFS Year:	2007
Est. End of Service Date:	2032
Total Length (kms):	1634
Initial Capacity:	40 Gb/s
Design Capacity:	320 Gb/s
Owners:	Maroc Telecom of Morocco
System Supplier:	Alcatel-Lucent Submarine Networks

AUSTRALIA-SINGAPORE SUBMARINE CABLE

planned



System Name:	Australia-Singapore Submarine Cable
Landing Points:	Singapore (Singapore), Jakarta (Indonesia), Perth (Australia)
RFS Year:	2015
Est. End of Service Date:	2040
Owners:	JPC International

BAHAMAS-2

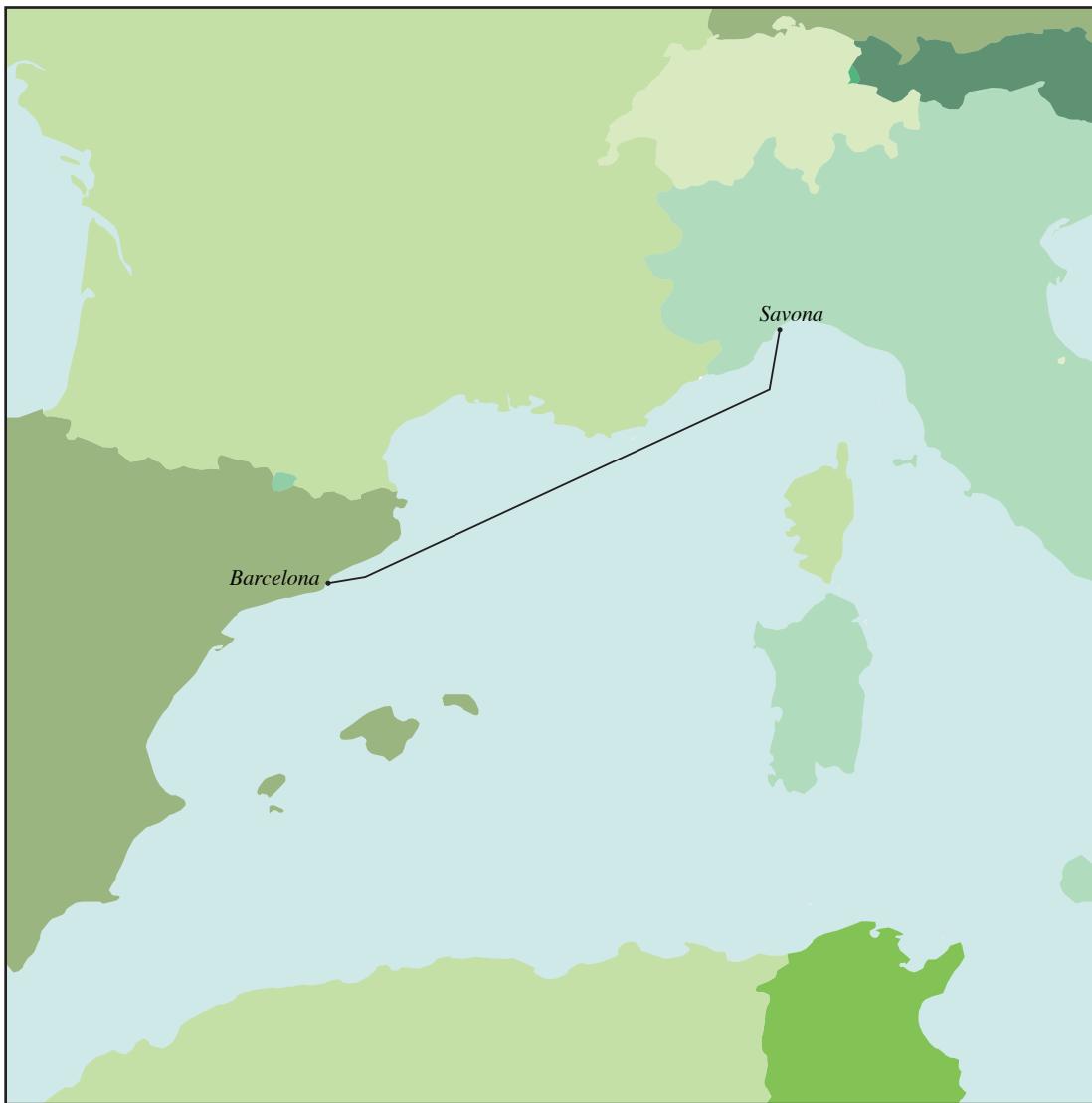


System Name:	Bahamas-2
Landing Points:	Eight Mile Rock (Bahamas), Nassau (The Bahamas), Vero Beach (USA)
RFS Year:	1997
Est. End of Service Date:	2022
Total Length (kms):	473
Initial Capacity:	2.5 Gb/s
Owners:	AT&T, Baltaco, Verizon
System Supplier:	Tyco Telecommunications SSI
System Installer:	Tyco Telecommunications SSI
Marine Surveyor:	C&C Technologies

BALTICA



System Name:	Baltica
Landing Points:	Dueodde (Bornholm), Gedser (Denmark), Kolobrzeg (Poland), Ystad (Sweden)
RFS Year:	1997
Est. End of Service Date:	2022
Est. System Cost (US\$):	16000000
Total Length (kms):	430
Initial Capacity:	5 Gb/s
Fiber Information:	6 Fiber Pairs
Owners:	Polish Telecom, TDC, Telecom Finland, Telenor, TeliaSonera



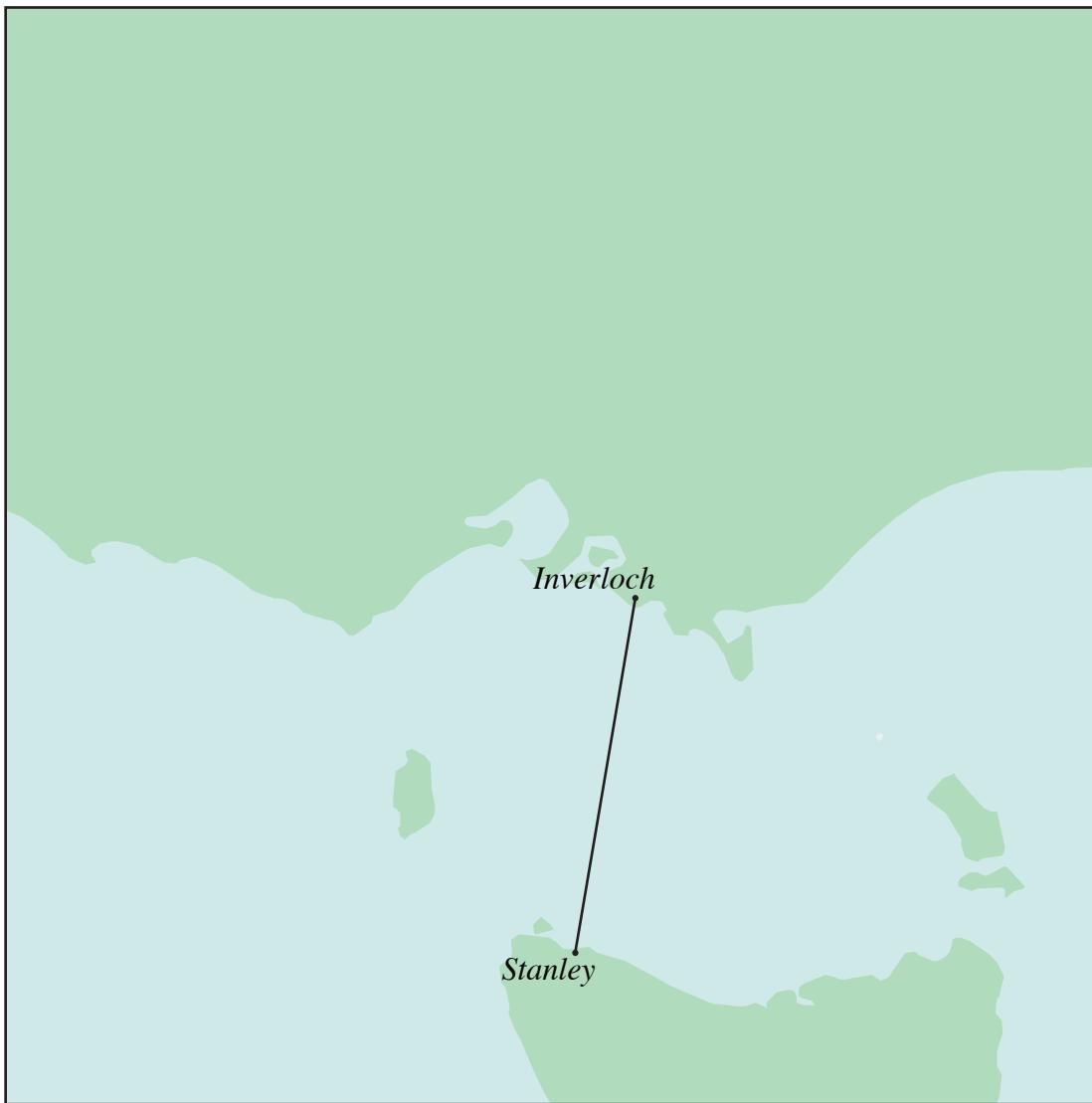
System Name:	Barsav
Landing Points:	Barcelona (Spain), Savona (Italy)
RFS Year:	1996
Est. End of Service Date:	2021
Est. System Cost (US\$):	39000000
Total Length (kms):	760
Initial Capacity:	5 Gb/s
Owners:	Telecom Italia, Telefonica
System Supplier:	Alcatel Submarine Networks

BASS STRAIT 1



System Name:	Bass Strait 1
Landing Points:	Boat Harbour (Tasmania), Sandy Point (Australia)
RFS Year:	1995
Est. End of Service Date:	2020
Est. System Cost (US\$):	22500000
Total Length (kms):	241
Initial Capacity:	622 Mb/s
Design Capacity:	2.5 Gb/s
Owners:	Telstra (Australia)
System Supplier:	Alcatel Submarine Networks

BASS STRAIT 2



System Name:	Bass Strait 2
Landing Points:	Inverloch (Australia), Stanley (Tasmania, Australia)
RFS Year:	2003
Est. End of Service Date:	2028
Est. System Cost (US\$):	17000000
Total Length (kms):	240
Initial Capacity:	10 Gb/s
Owners:	Telstra (Australia)
System Supplier:	Alcatel Submarine Networks
System Installer:	Alcatel Submarine Networks
Cablesip:	Ile de Batz

BCS EAST



System Name:	BCS East
Landing Points:	Liepaja (Latvia), Sventoji (Lithuania)
RFS Year:	1997
Est. End of Service Date:	2022
Total Length (kms):	98
Initial Capacity:	2.5 Gb/s
Owners:	TeliaSonera

BCS EAST-WEST INTERLINK



System Name:	BCS East-West Interlink
Landing Points:	Sandviken (Sweden), Sventoji (Lithuania)
RFS Year:	1997
Est. End of Service Date:	2022
Total Length (kms):	218
Initial Capacity:	2.5 Gb/s
Owners:	TeliaSonera
System Supplier:	Ericsson
System Installer:	AKN
Cablesip:	Pleijel

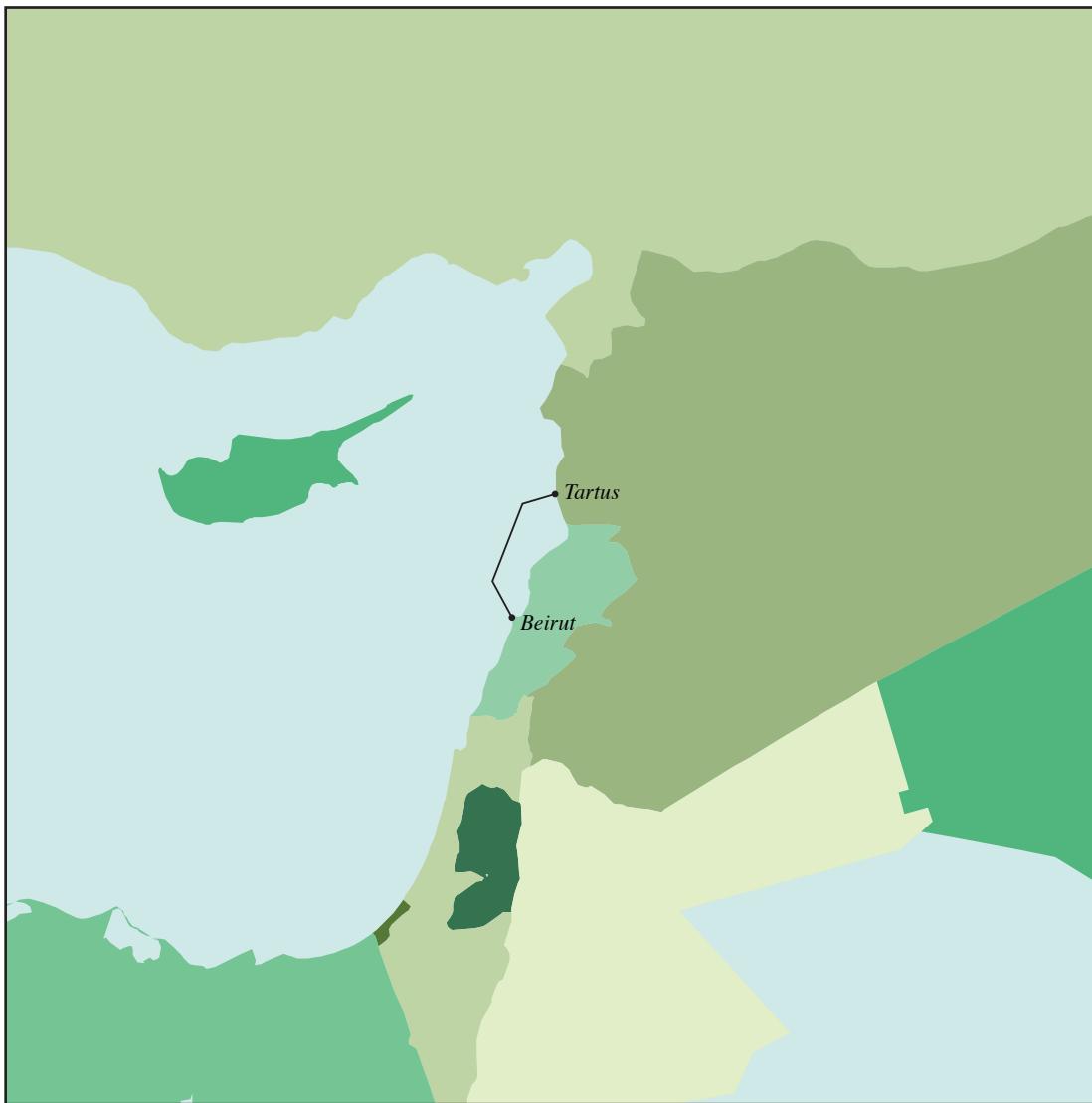
BCS NORTH



System Name:	BCS North
Landing Points:	Hango (Finland), Haraldsholm (Finland), Helsingfors (Finland), Kotka (Finland), Mariehamn (Finland), Stavsnäs (Sweden)
RFS Year:	1998, 2003
Est. End of Service Date:	2023
Total Length (kms):	793
Initial Capacity:	10 Gb/s
Owners:	Rostelecom, TeliaSonera
System Supplier:	Ericsson
System Installer:	AKN
Cablesip:	Pleijel

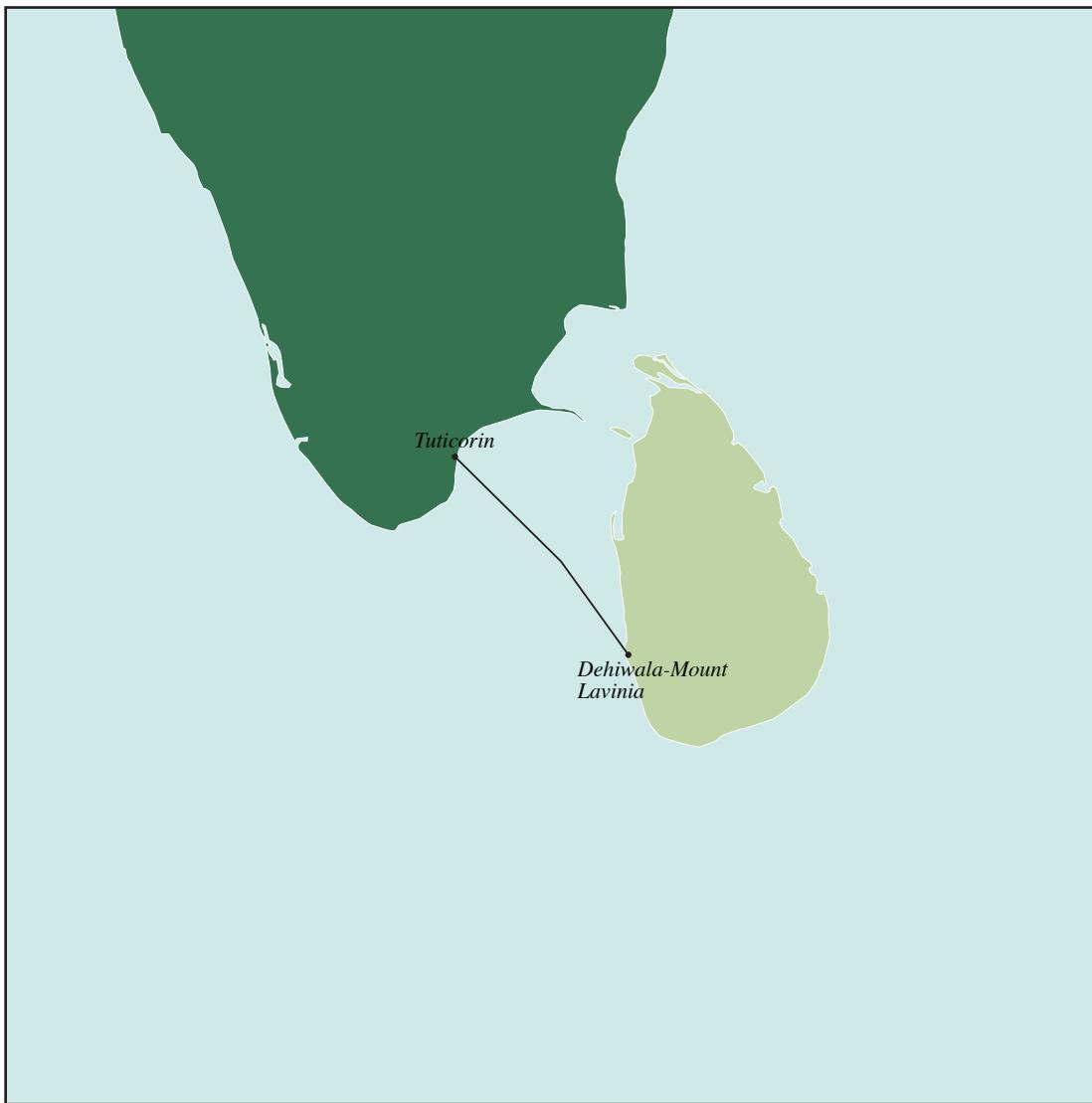


System Name:	BDM
Landing Points:	Batam (Indonesia), Dumai (Indonesia), Melaka (Malaysia)
RFS Year:	2011
Est. End of Service Date:	2036
Est. System Cost (US\$):	76000000
Total Length (kms):	400
Design Capacity:	1.28 Tb/s
Fiber Information:	2 Fiber Pairs
Owners:	PT Mora Telematika, PT XL Axiata, Telekom Malaysia



System Name:	Berytar
Landing Points:	Beirut (Lebanon), Tartus (Syria)
RFS Year:	1997
Est. End of Service Date:	2022
Est. System Cost (US\$):	10000000
Total Length (kms):	134
Initial Capacity:	5Gb/s
Owners:	Telecom Egypt (6.25%), Lebanese Ministry of Telecom (46.875%), Syrian Telecom (46.875%)
System Supplier:	Alcatel Submarine Networks
System Installer:	FCR
Cablesip:	Vercors

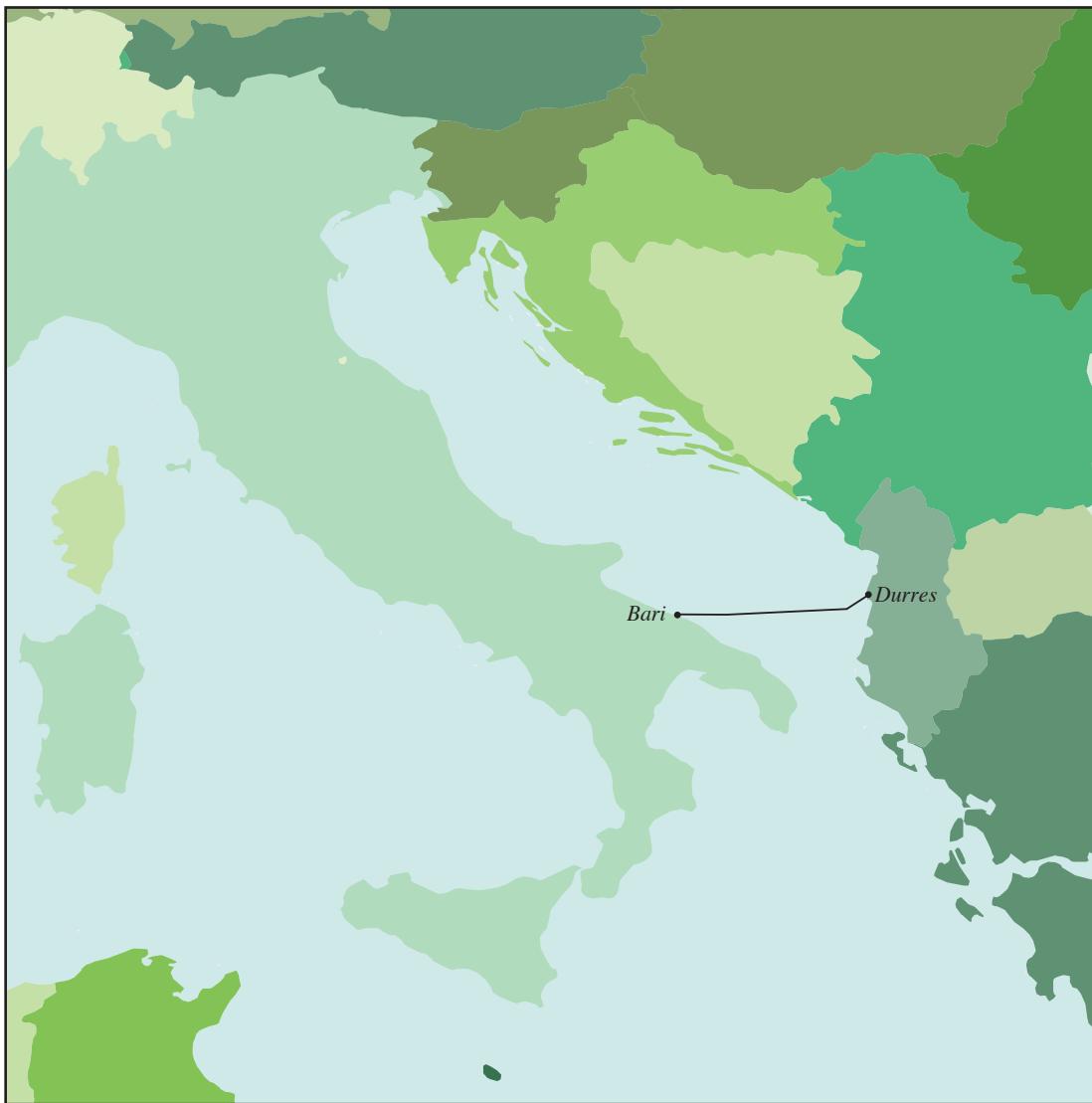
BHARAT-LANKA



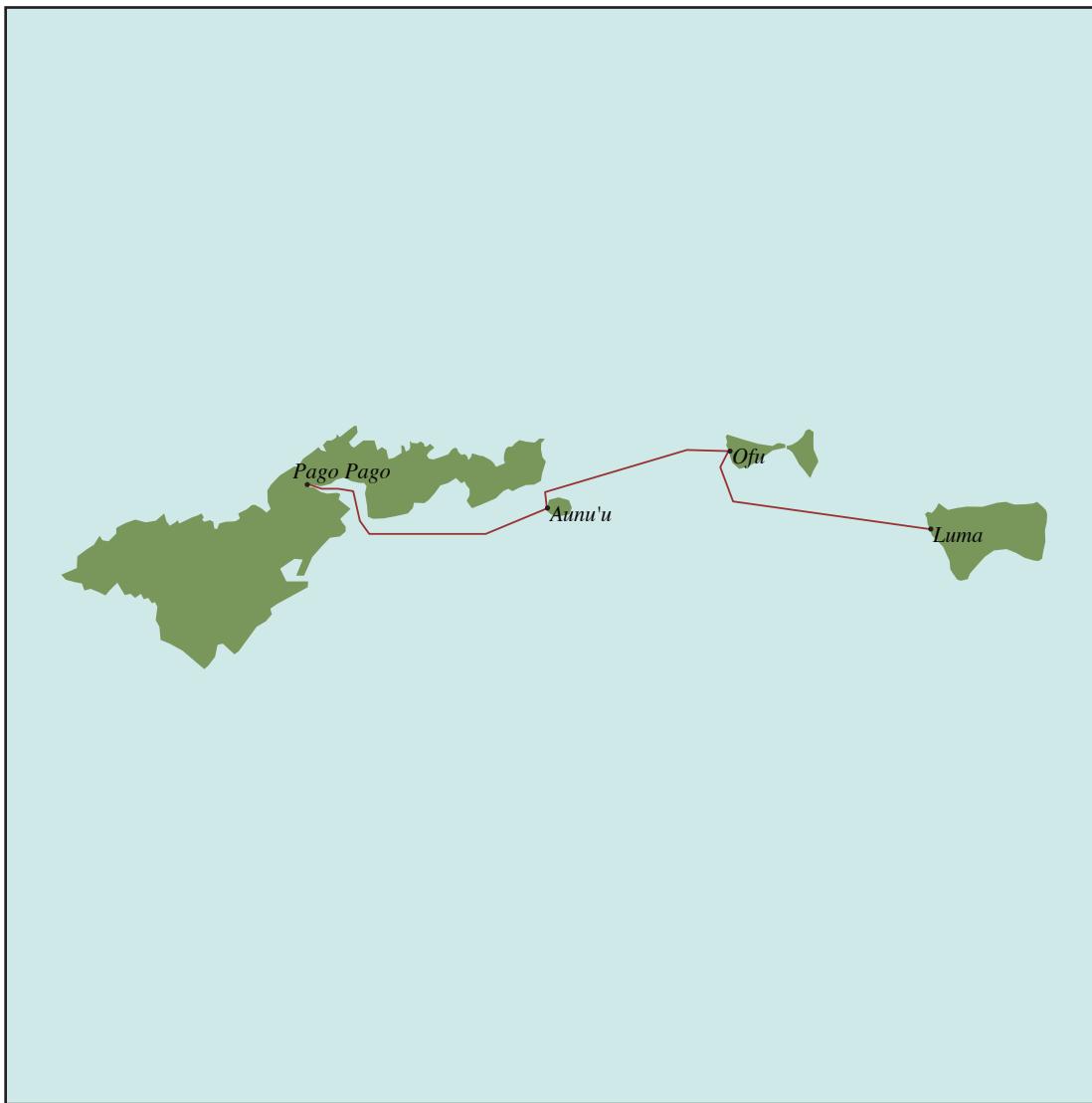
System Name:	Bharat-Lanka
Landing Points:	Dehiwala-Mount Lavinia (Sri Lanka), Tuticorin (India)
RFS Year:	2007
Est. End of Service Date:	2032
Est. System Cost (US\$):	20000000
Total Length (kms):	338
Initial Capacity:	10 Gb/s
Owners:	BSNL, Sri Lanka Telecom Limited (SLT), Sri Lanka



System Name:	BICS
Landing Points:	Boca Raton (USA), Crown Haven (Bahamas), Freeport (Bahamas), Marsh Harbour (Bahamas), Nassau (The Bahamas), Riding Point (Bahamas), Rock Sound (Bahamas), Sandy Point (Bahamas), Upper Bogue (Bahamas)
RFS Year:	2001
Est. End of Service Date:	2026
Est. System Cost (US\$):	31000000
Total Length (kms):	1000
Initial Capacity:	10 Gb/s
Design Capacity:	12 Tb/s
Owners:	Caribbean Crossings



System Name:	BIN
Landing Points:	Bari (Italy), Durres (Albania)
RFS Year:	2011
Est. End of Service Date:	2036
Est. System Cost (US\$):	21636744
Total Length (kms):	276
Initial Capacity:	40 Gb/s
Owners:	Unifi

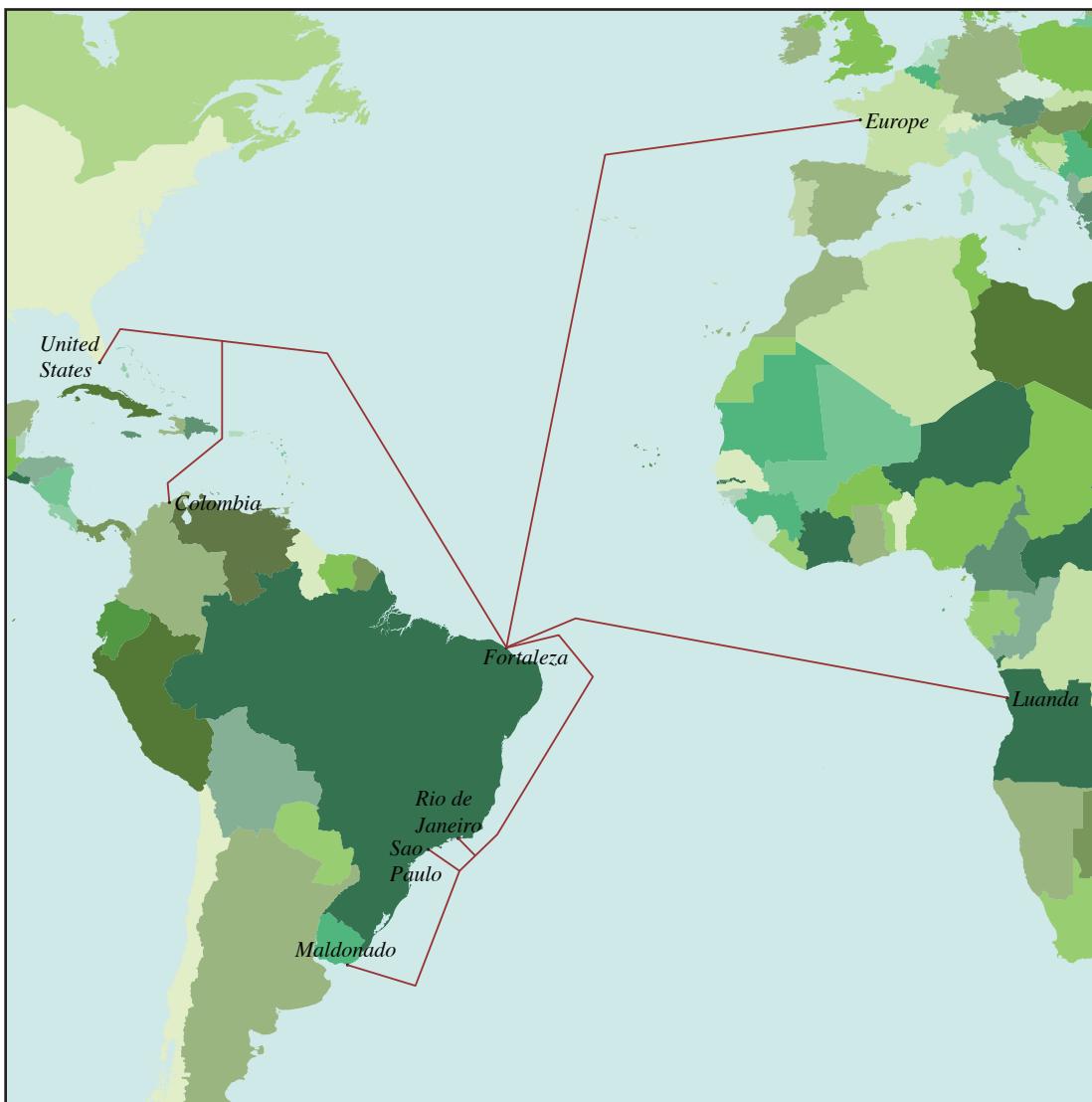


System Name:	BLAST (Broadband Linking the American Samoa Territory)
Landing Points:	Fogagogo, Tu'tuila (American Samoa), Ofu Harbor, Ofu (American Samoa), Luma, Ta'u (American Samoa), Aunu'u Warf, Aunu'u (American Samoa)
RFS Year:	2015
Est. End of Service Date:	2040
Est. System Cost (US\$):	10000000
Total Length (kms):	250
Owners:	ASTCA (American Samoa)

BOTNIA



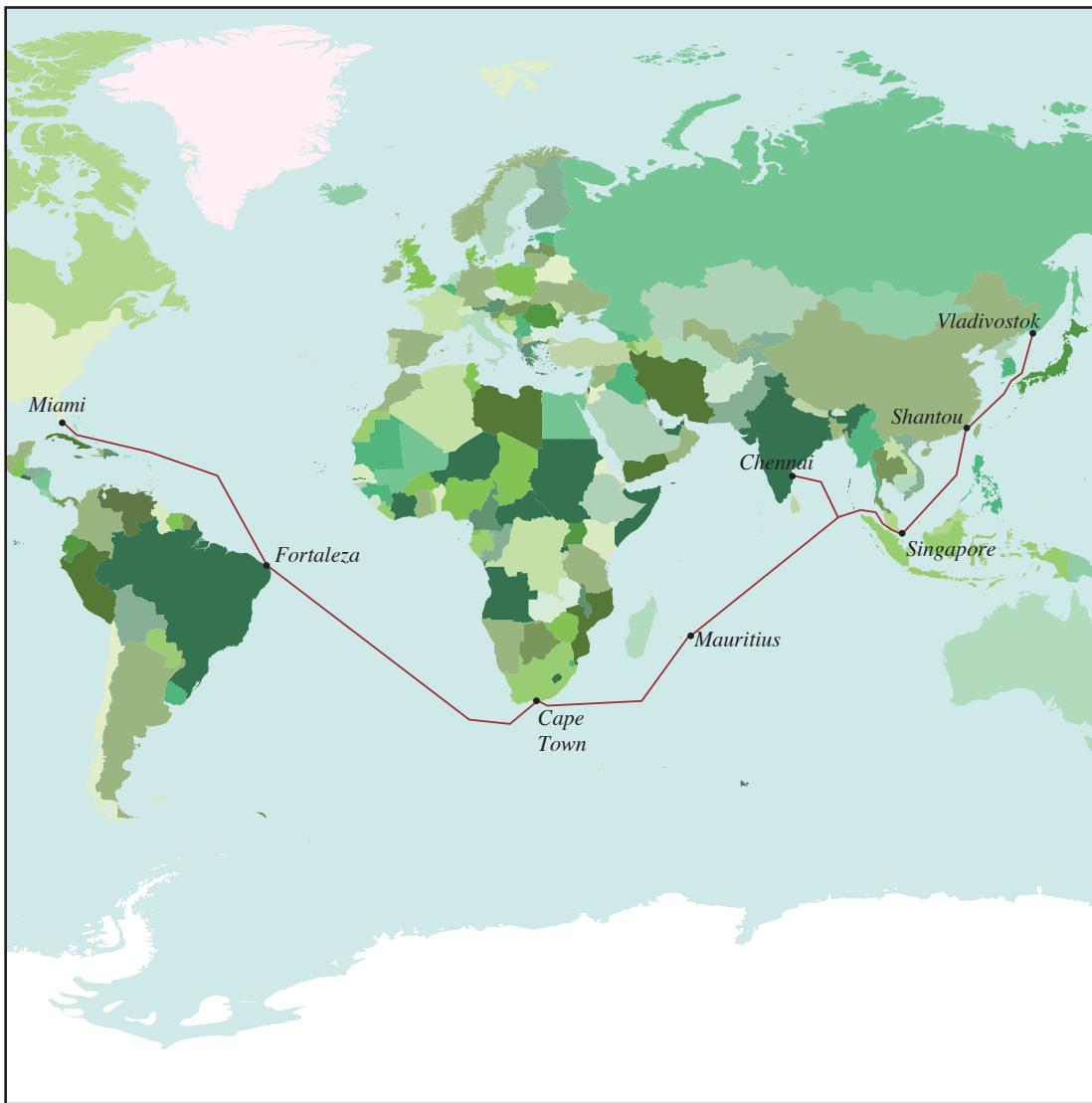
System Name:	Botnia
Landing Points:	Umeå (Sweden), Vaasa (Finland)
RFS Year:	1994
Est. End of Service Date:	2019
Est. System Cost (US\$):	8500000
Total Length (kms):	93
Initial Capacity:	1.2 Gb/s
Fiber Information:	6 Fiber Pairs
Owners:	Teliasonera
System Supplier:	NKT
System Installer:	AKN
Cablesip:	Pleijel



System Name:	Brazil-US
Landing Points:	Fortaleza (Brazil) with a spur to Colombia; a second section will connect Fortaleza and Europe; a third cable will originate in Fortaleza and connect to Africa via the Angolan capital Luanda, with a leg connecting the Brazilian archipelago of Fernando de Noronha as well. A fourth section will run from Fortaleza to Santos, in Sao Paulo state, with a spur to Rio de Janeiro, and the final section will join Santos with the Uruguayan city of Maldonado
RFS Year:	2014
Est. End of Service Date:	2039
Est. System Cost (US\$):	1130000000
Total Length (kms):	24000
Owners:	Telebras



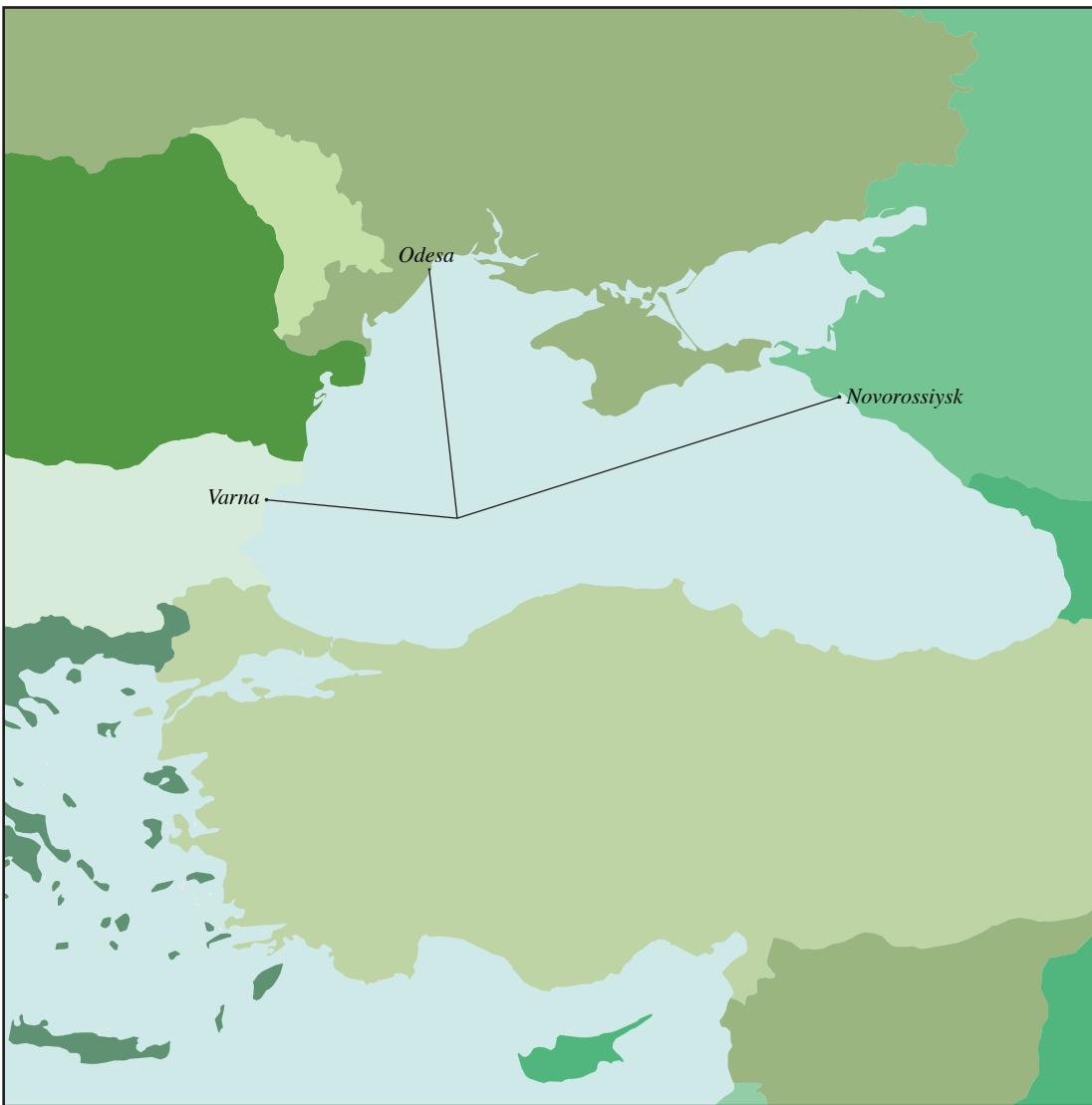
System Name:	BRCS
Landing Points:	Batam (Indonesia), Sungai Rengit (Malaysia)
RFS Year:	2007
Est. End of Service Date:	2032
Est. System Cost (US\$):	10000000
Total Length (kms):	63
Initial Capacity:	10 Gb/s
Owners:	Excelcom



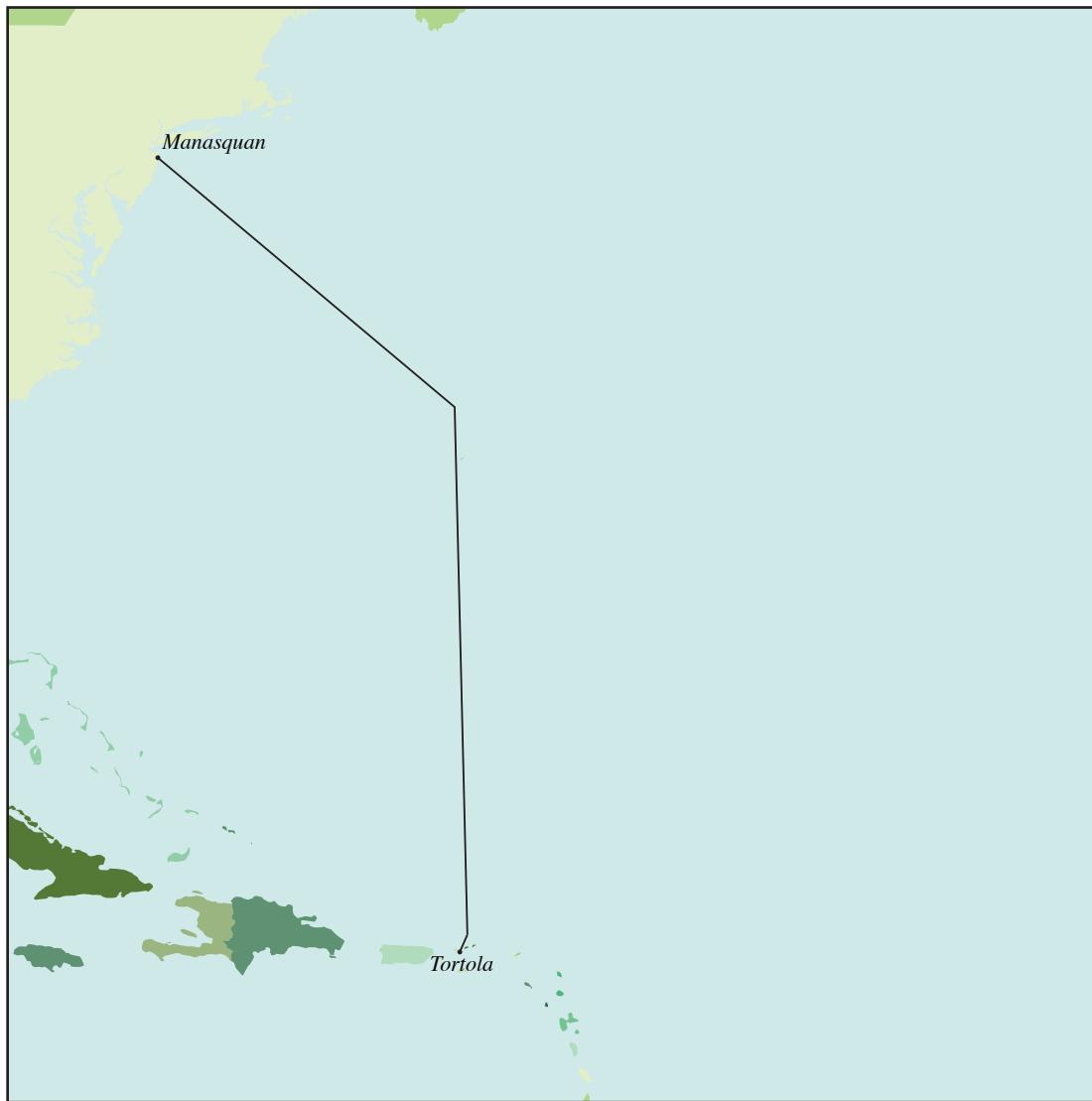
System Name:	BRICS Cable
Landing Points:	Miami (US), Fortaleza (Brazil), Cape Town (South Africa), Mauritius (Mauritius), Chennai (India), Singapore (Singapore), Shantou (China), Vladivostok (Russia)
RFS Year:	2014
Est. End of Service Date:	2039
Est. System Cost (US\$):	1330862000
Total Length (kms):	34000
Design Capacity:	12.8 Tb/s
Fiber Information:	2 Fiber Pairs
Owners:	Imphandze Subtel Services



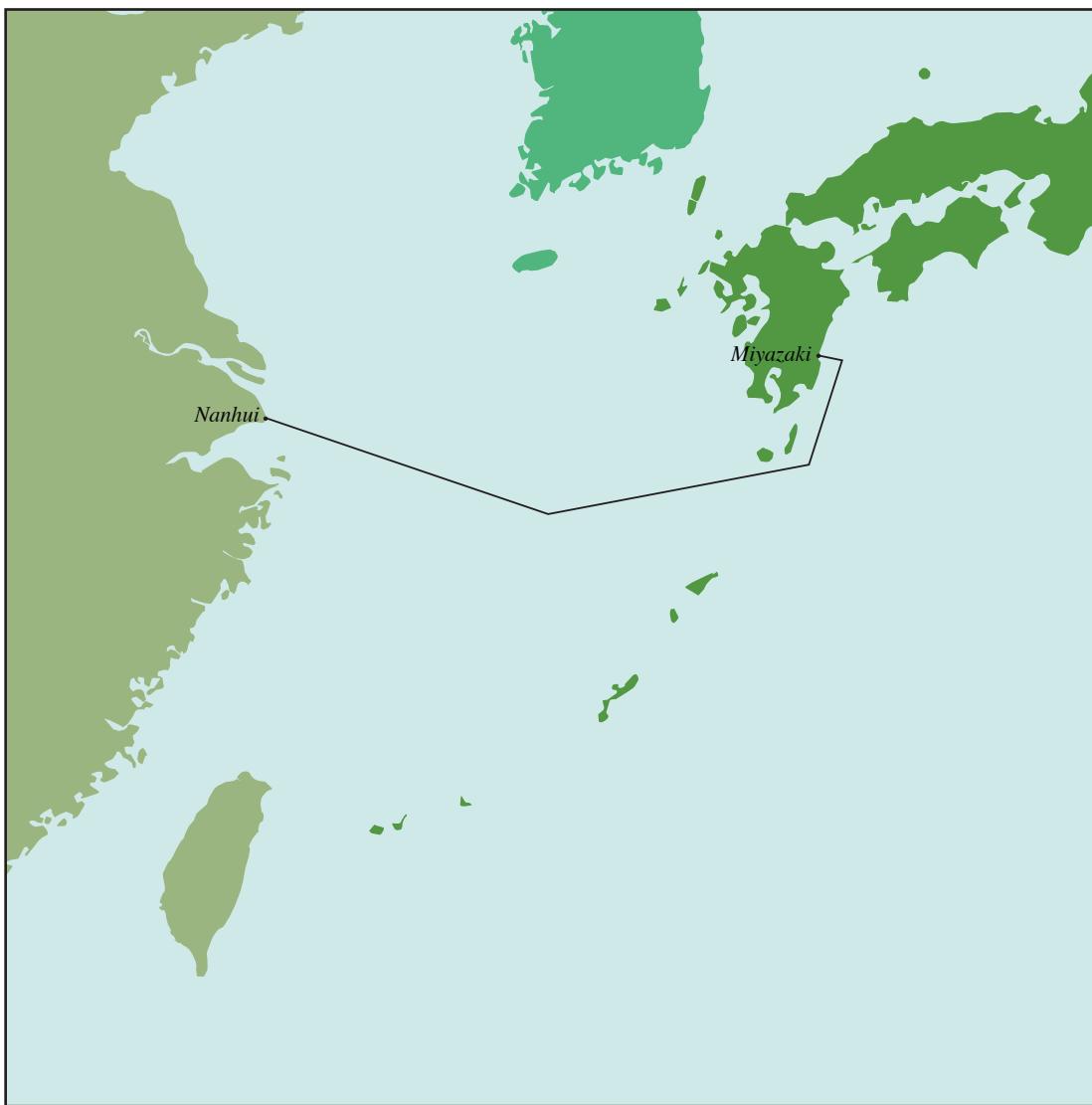
System Name:	BSCS
Landing Points:	Batam (Indonesia), Changi (Singapore)
RFS Year:	2009
Est. End of Service Date:	2034
Est. System Cost (US\$):	13100000
Total Length (kms):	73
Initial Capacity:	80 Gb/s
Fiber Information:	3 Fiber Pairs
Owners:	Telekom Indonesia
System Supplier:	Ocean Cable Company
System Installer:	Stena Offshore
Cablesip:	Northern Installer



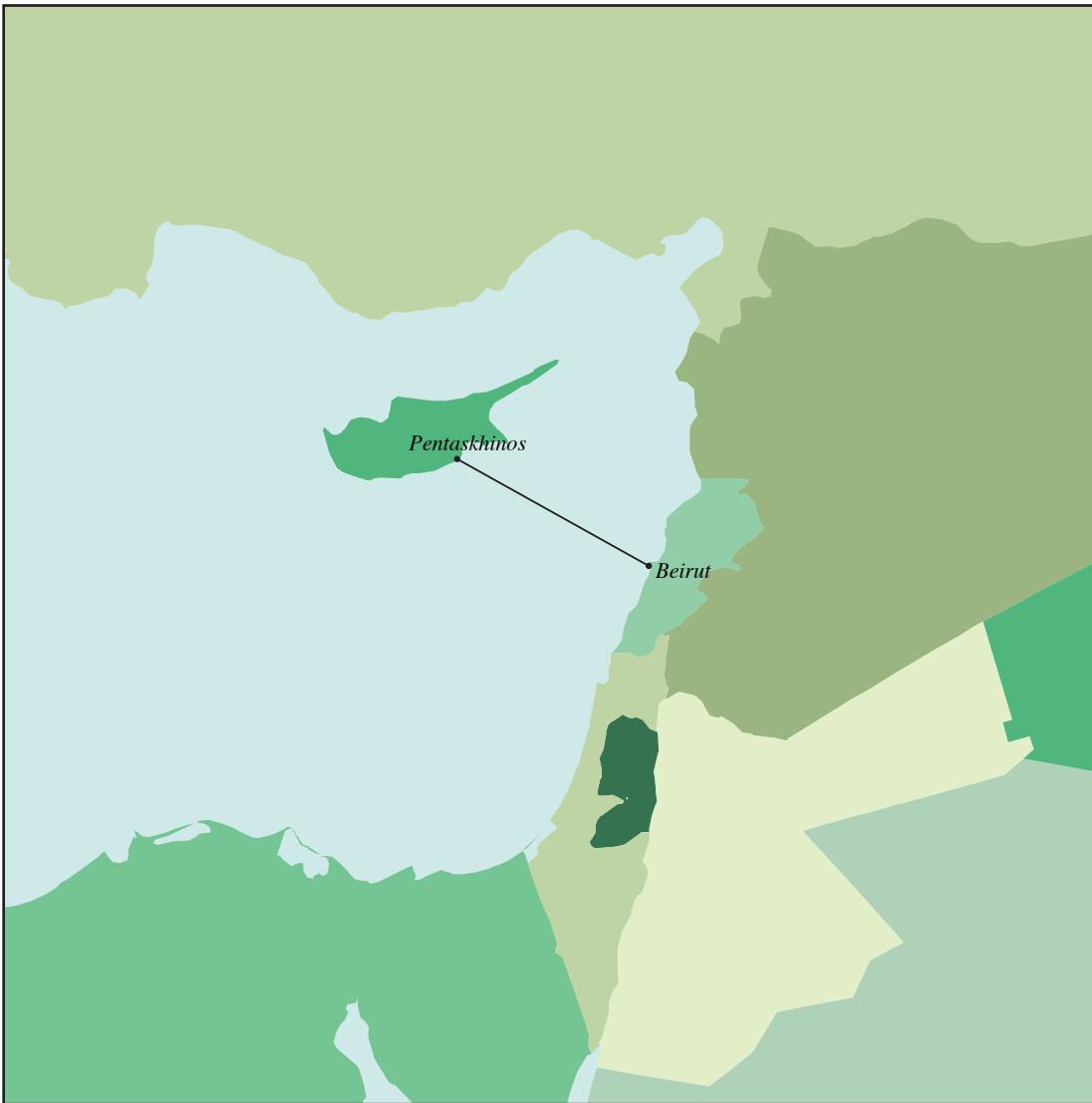
System Name:	BSFOCS
Landing Points:	Novorossiysk (Russia), Odesa (Ukraine), Varna (Bulgaria)
RFS Year:	2001
Est. End of Service Date:	2026
Est. System Cost (US\$):	51000000
Total Length (kms):	1300
Initial Capacity:	2.5 Gb/s
Fiber Information:	2 Fiber Pairs
Owners:	Armentel, AT&T, BTC, Cypress Telecommunications Authority, DTAG, HT, KDDI, OTE, Rostelecom, Telecom Slovenia, Ukrtelecom
System Supplier:	Alcatel Submarine Networks, Tyco Telecommunications SSI
System Installer:	Global Marine Systems Limited
Cablesip:	Maersk Fighter



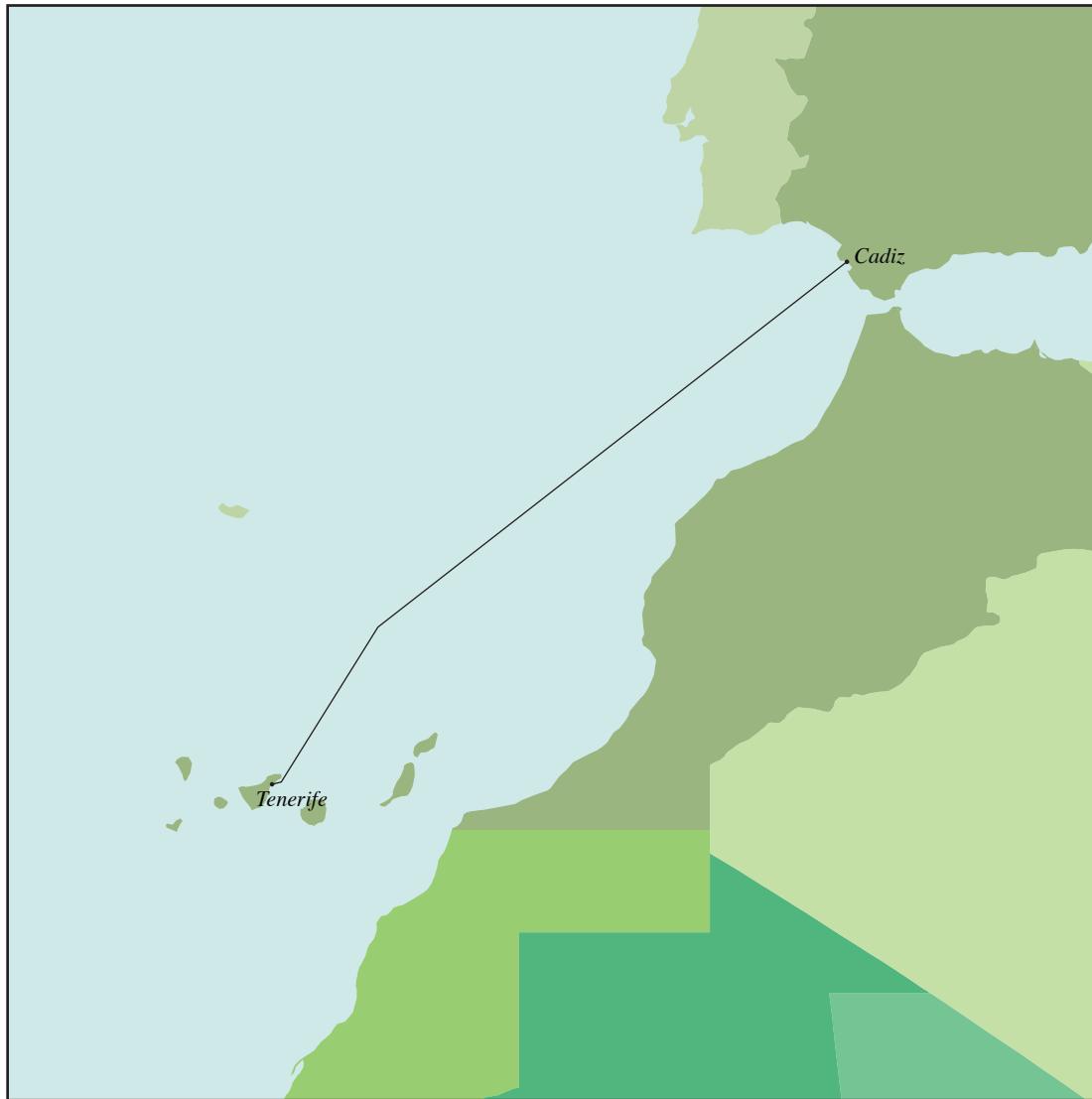
System Name:	C-BUS
Landing Points:	Manasquan (USA), Tortola (British Virgin Islands)
RFS Year:	2009
Est. End of Service Date:	2034
Est. System Cost (US\$):	10000000
Total Length (kms):	1609
Owners:	LIME
System Supplier:	Tyco Telecommunications SSI
System Installer:	Tyco Telecommunications SSI
Upgrader	Xtera



System Name:	C-J FOSC
Landing Points:	Miyazaki (Japan), Nanhui District (China)
RFS Year:	1993
Est. End of Service Date:	2018
Est. System Cost (US\$):	70300000
Total Length (kms):	1252
Initial Capacity:	560 Mb/s
Owners:	China Telecom, KDDI



System Name:	Cadmos
Landing Points:	Beirut (Lebanon), Pentaskhinos (Cyprus)
RFS Year:	1995
Est. End of Service Date:	2020
Est. System Cost (US\$):	8000000
Total Length (kms):	260
Initial Capacity:	622 Mb/s
Fiber Information:	2 Fiber Pairs
Owners:	Cyprus Telecommunications Authority (62%), Lebanese Ministry of Telecommunications (38%)
System Supplier:	Tyco Telecommunications



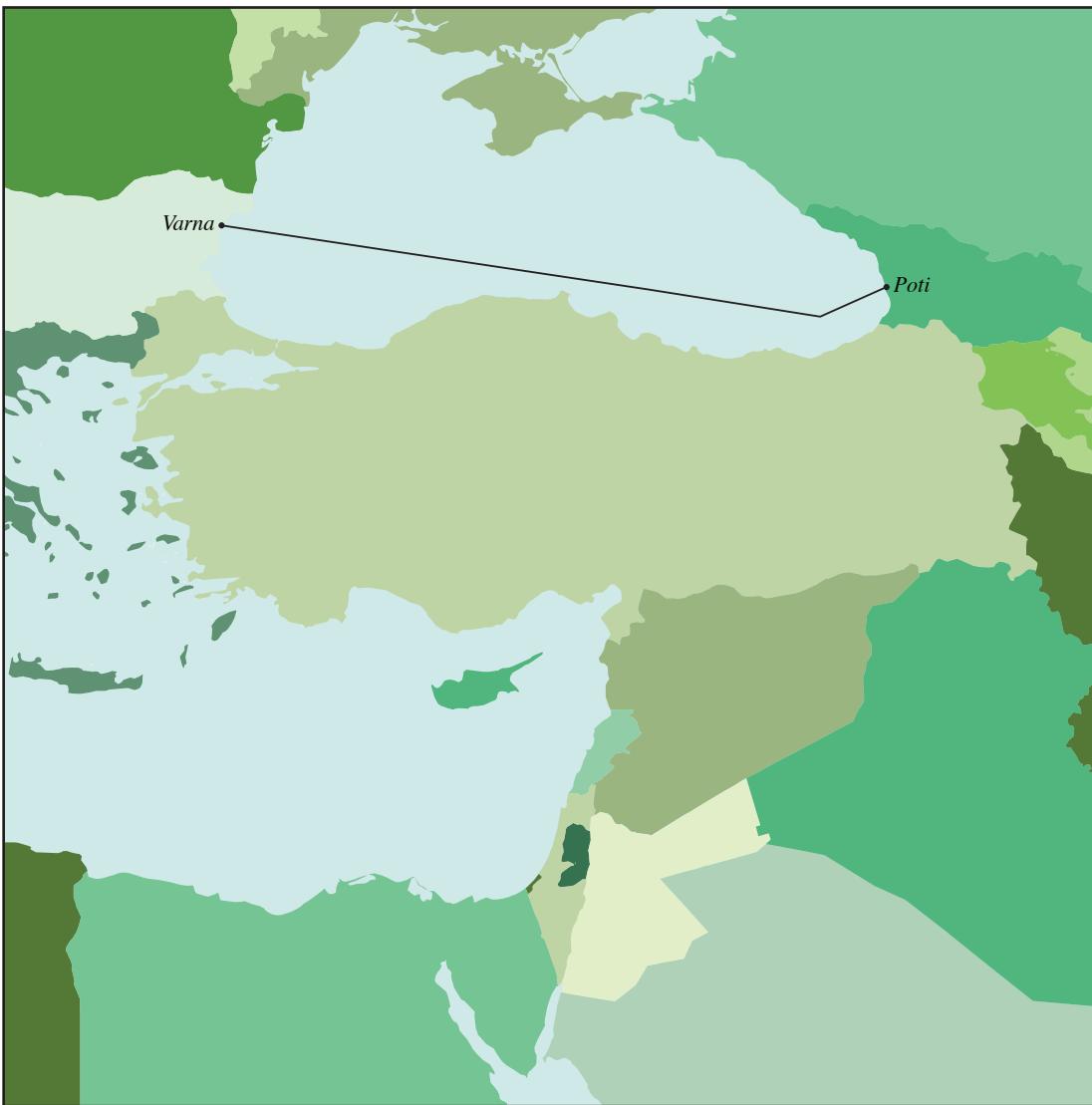
System Name:	Canalink
Landing Points:	Cadiz (Spain), Tenerife (Spain)
RFS Year:	2011
Est. End of Service Date:	2036
Est. System Cost (US\$):	156788000
Total Length (kms):	2000
Initial Capacity:	5.12 Tb/s
Fiber Information:	2 Fiber Pairs, 128 wavelengths, 10 Gb/s per wavelength
Owners:	Isalink, IT3
System Supplier:	Alcatel-Lucent
Marine Surveyor:	Fugro

CANUS-1



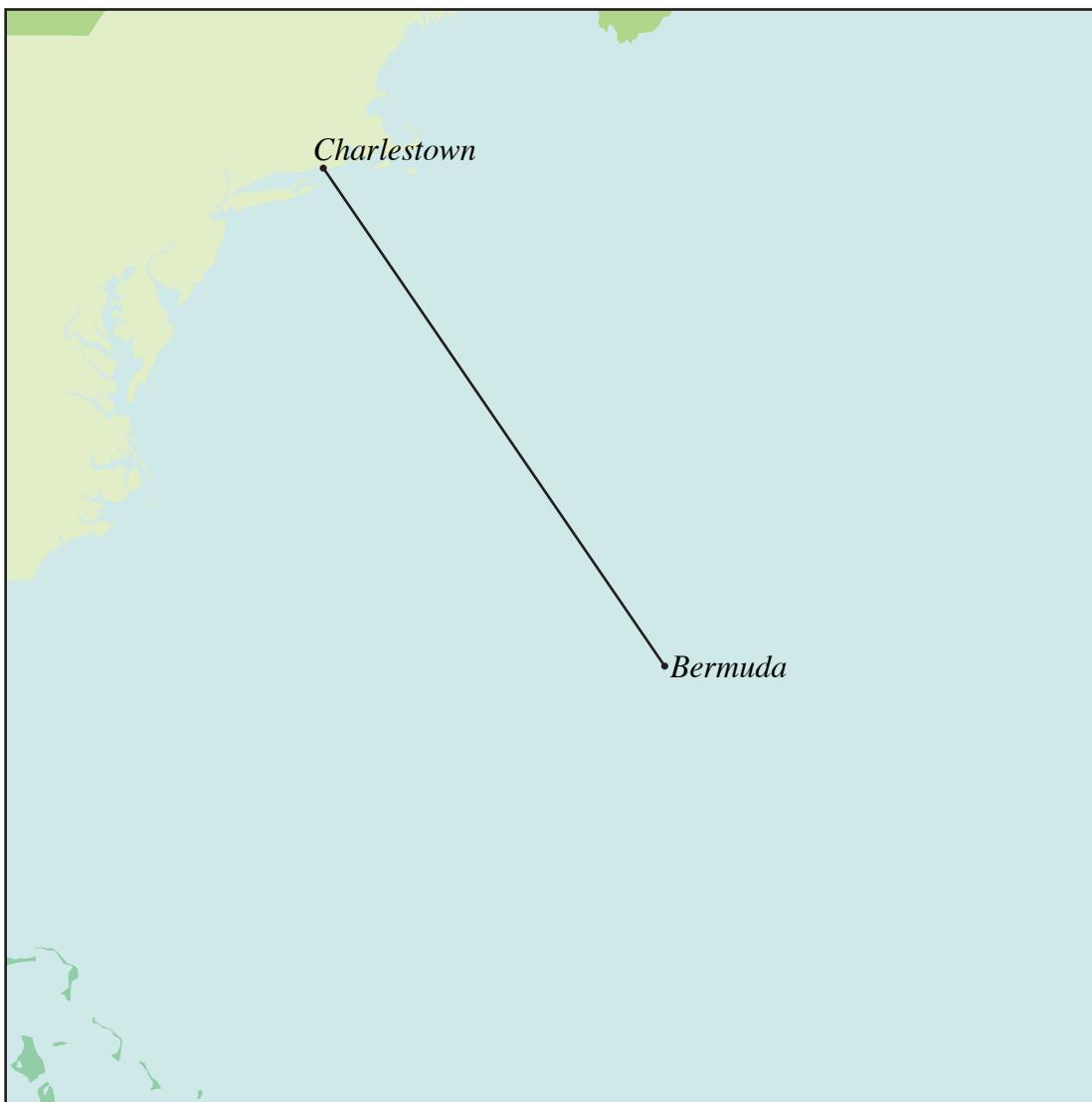
System Name:	CANUS-1
Landing Points:	Manasquan (USA), Pennant Point (Canada)
RFS Year:	1995
Est. End of Service Date:	2020
Est. System Cost (US\$):	400000000
Total Length (kms):	1360
Initial Capacity:	2.5 Gb/s
Owners:	Optel, Tata Communications
System Supplier:	Tyco Telecommunications
System Installer:	Teleglobe

CAUCASUS CABLE SYSTEM



System Name:	Caucasus Cable System
Landing Points:	Poti (Georgia), Varna (Bulgaria)
RFS Year:	2008
Est. End of Service Date:	2033
Est. System Cost (US\$):	76000000
Total Length (kms):	1187
Initial Capacity:	1.3 Tb/s
Fiber Information:	2 Fiber Pairs
Owners:	Caucasus Online
System Supplier:	Tyco Telecommunications

CB-1



System Name:	CB-1
Landing Points:	Bermuda (Bermuda), Charleston, RI (USA)
RFS Year:	2009
Est. End of Service Date:	2034
Total Length (kms):	1454
Initial Capacity:	20 Gb/s
Design Capacity:	320 Gb/s
Owners:	Cable Company Ltd, Verizon
System Supplier:	Alcatel-Lucent Submarine Networks

CELTIX CONNECT



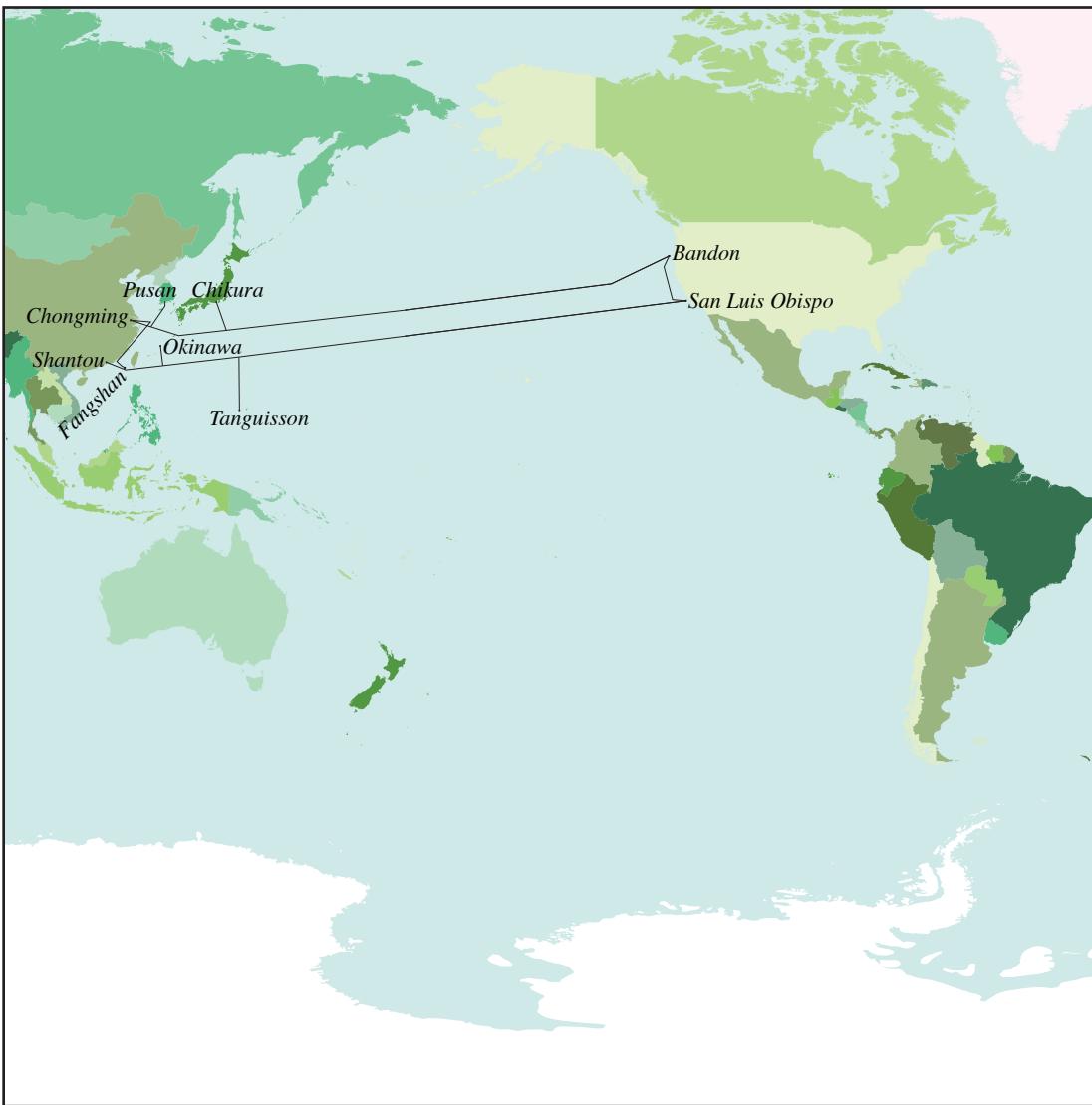
System Name:	Celtix Connect
Landing Points:	Dublin (Ireland), Holyhead (UK)
RFS Year:	2011
Est. End of Service Date:	2035
Est. System Cost (US\$):	21900000
Total Length (kms):	131
Initial Capacity:	960 Gb/s
Owners:	Sea Fibre Networks
System Supplier:	Alcatel Submarine Networks
System Installer:	Global Marine Systems Limited

CFX-1



System Name:	CFX-1
Landing Points:	Boca Raton (USA), Cartagena (Columbia), Morant Point (Jamaica)
RFS Year:	2008
Est. End of Service Date:	2033
Total Length (kms):	2423
Initial Capacity:	110 Gb/s
Design Capacity:	2 Tb/s
Owners:	Colombus Networks
System Supplier:	Tyco Telecommunications Telecommunications

CHINA-US



System Name:	China-US
Landing Points:	Bandon (USA), Chikura (Japan), Chongming (China), Fangshan (Taiwan), Okinawa Prefecture (Japan), Pusan (South Korea), San Luis Obispo (USA), Shantou (China), Tanguisson (Guam)
RFS Year:	2001
Est. End of Service Date:	2026
Est. System Cost (US\$):	1100000000
Total Length (kms):	30241
Owners:	China-US Consortium
System Supplier:	Alcatel Submarine Networks, Ocean Cable Co, Tyco Telecommunications
Cablesip:	Flexservice III, Kuroshio Maru, Cable Innovator
Marine Surveyor:	C&C Technologies



Maximizing Network Capacity, Reach & Value

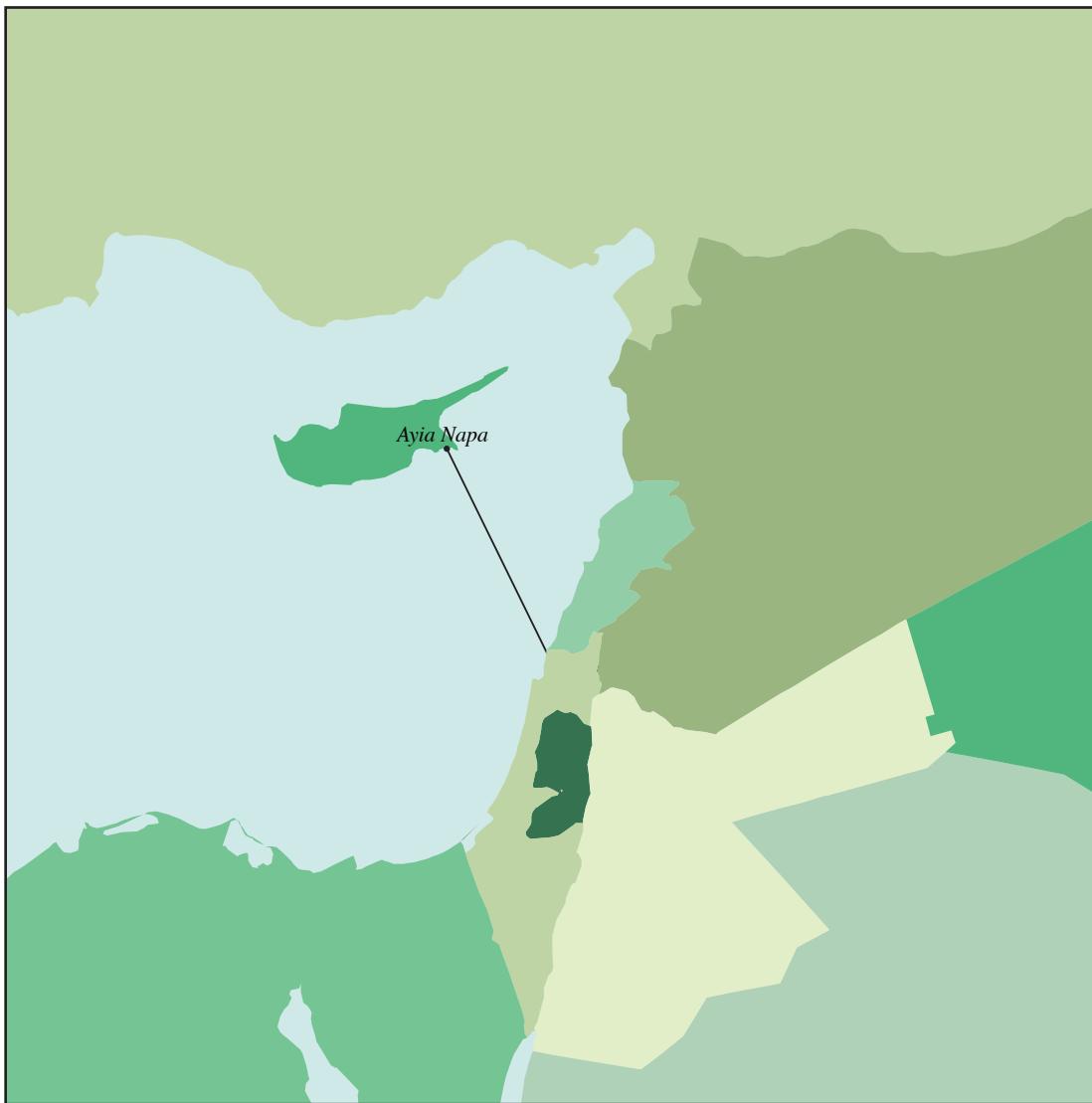
Over land, under sea, worldwide

Global Supplier for Subsea Cable Systems

A pioneer in the upgrade of existing submarine cable systems, Xtera offers today an extensive portfolio of high-capacity solutions for submarine networks, repeatered or unrepeatered, starting from the supply of high-performance and reliable Submarine Line Terminal Equipment (SLTE) to the implementation of global systems.

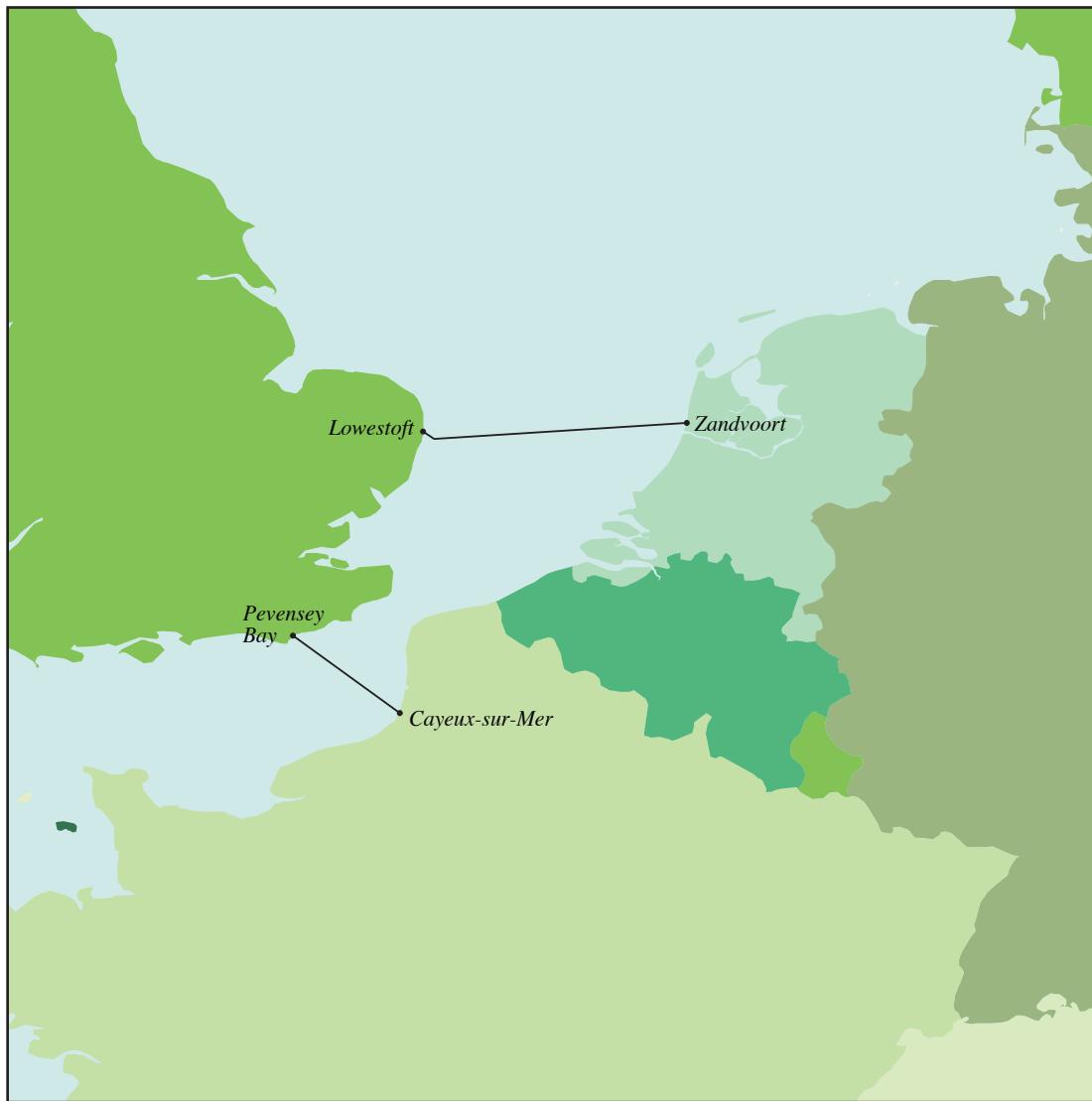
Xtera is now launching 100G on its NXT SLTE for long-haul cable systems (100G rate is in commercial service since the beginning of 2012 on our regional SLTE platform) and turnkey solutions .

Contact Xtera to discuss how our scalable solutions help our customers minimize cost and maximize revenue, for both new and existing cable infrastructures.



System Name:	CIOS
Landing Points:	Ayia Napa (Cyprus), Nahariya (Israel)
RFS Year:	1994
Est. End of Service Date:	2018
Est. System Cost (US\$):	16000000
Total Length (kms):	250
Initial Capacity:	2.5 Gb/s
Owners:	Bezeq, Cypress Telecommunications Authority

CIRCE NORTH



System Name:	Circe North
Landing Points:	Lowestoft (United Kingdom), Zandvoort (Netherlands)
RFS Year:	1999
Est. End of Service Date:	2024
Est. System Cost (US\$):	24000000
Total Length (kms):	203
Initial Capacity:	10 Gb/s
Fiber Information:	48 Fiber Pairs
Owners:	Viatel
System Supplier:	Alcatel Submarine Networks

CIRCE SOUTH

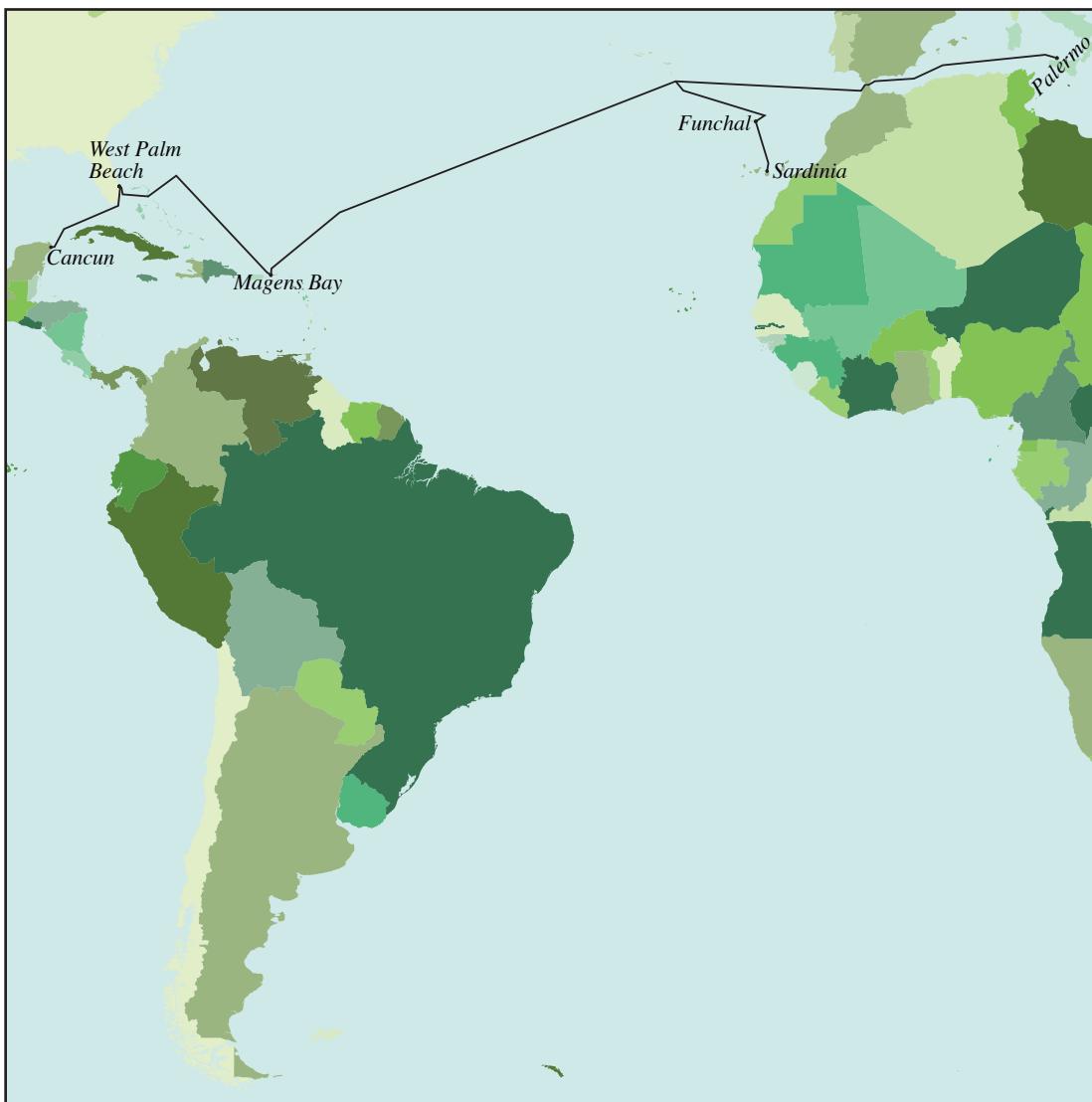


System Name:	Circe South
Landing Points:	Cayeux-sur-Mer (France), Pevensey Bay (UK)
RFS Year:	1999
Est. End of Service Date:	2024
Est. System Cost (US\$):	24000000
Total Length (kms):	115
Initial Capacity:	10 Gb/s
Fiber Information:	48 Fiber Pairs
Owners:	Viatel
System Supplier:	Alcatel Submarine Networks



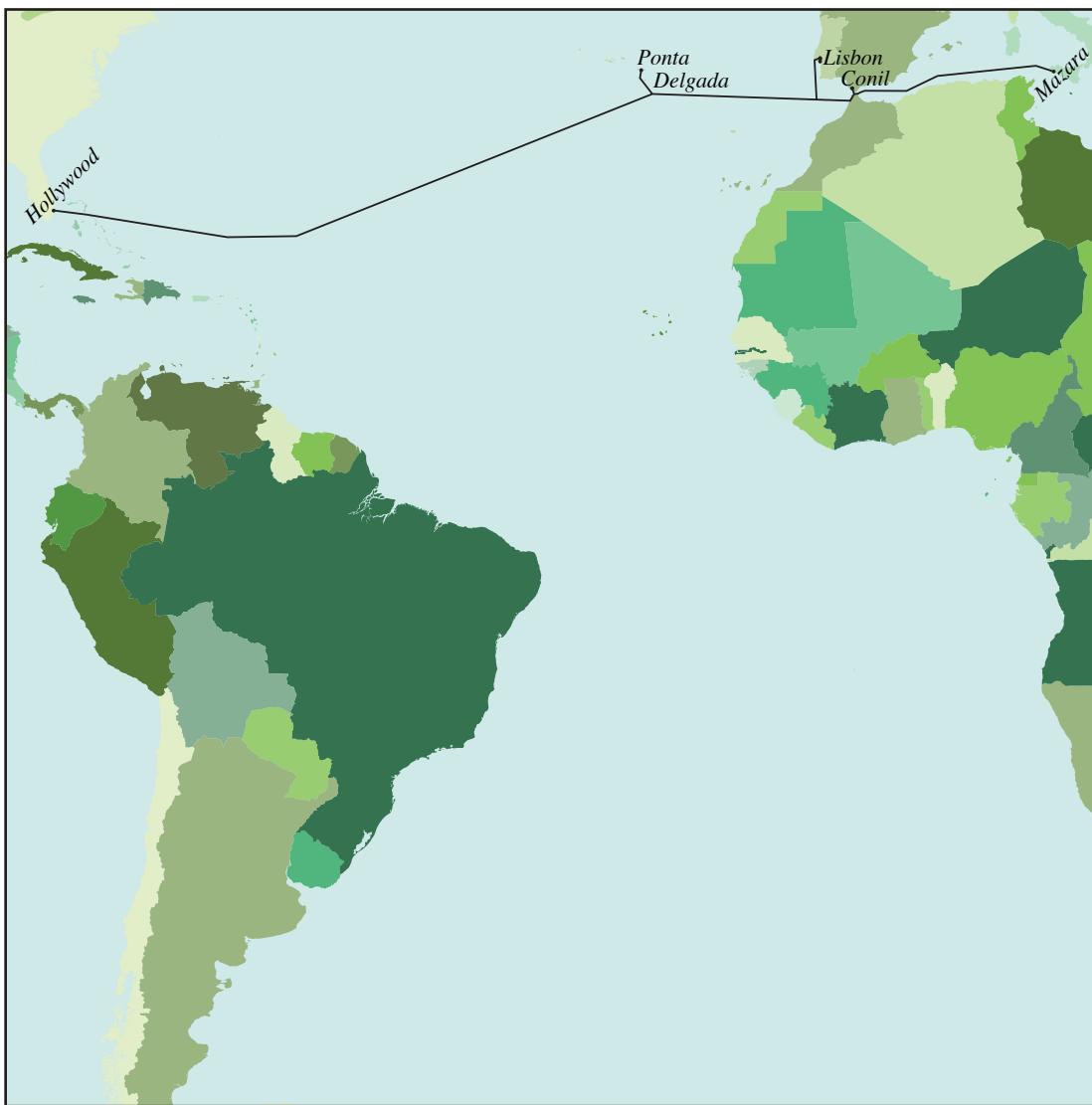
System Name:	CJFS
Landing Points:	Half-Moon Bay (Cayman Islands), Montego Bay (Jamaica)
RFS Year:	1997
Est. End of Service Date:	2022
Est. System Cost (US\$):	6500000
Total Length (kms):	870
Initial Capacity:	2.5 Gb/s
Owners:	LIME

COLUMBUS II



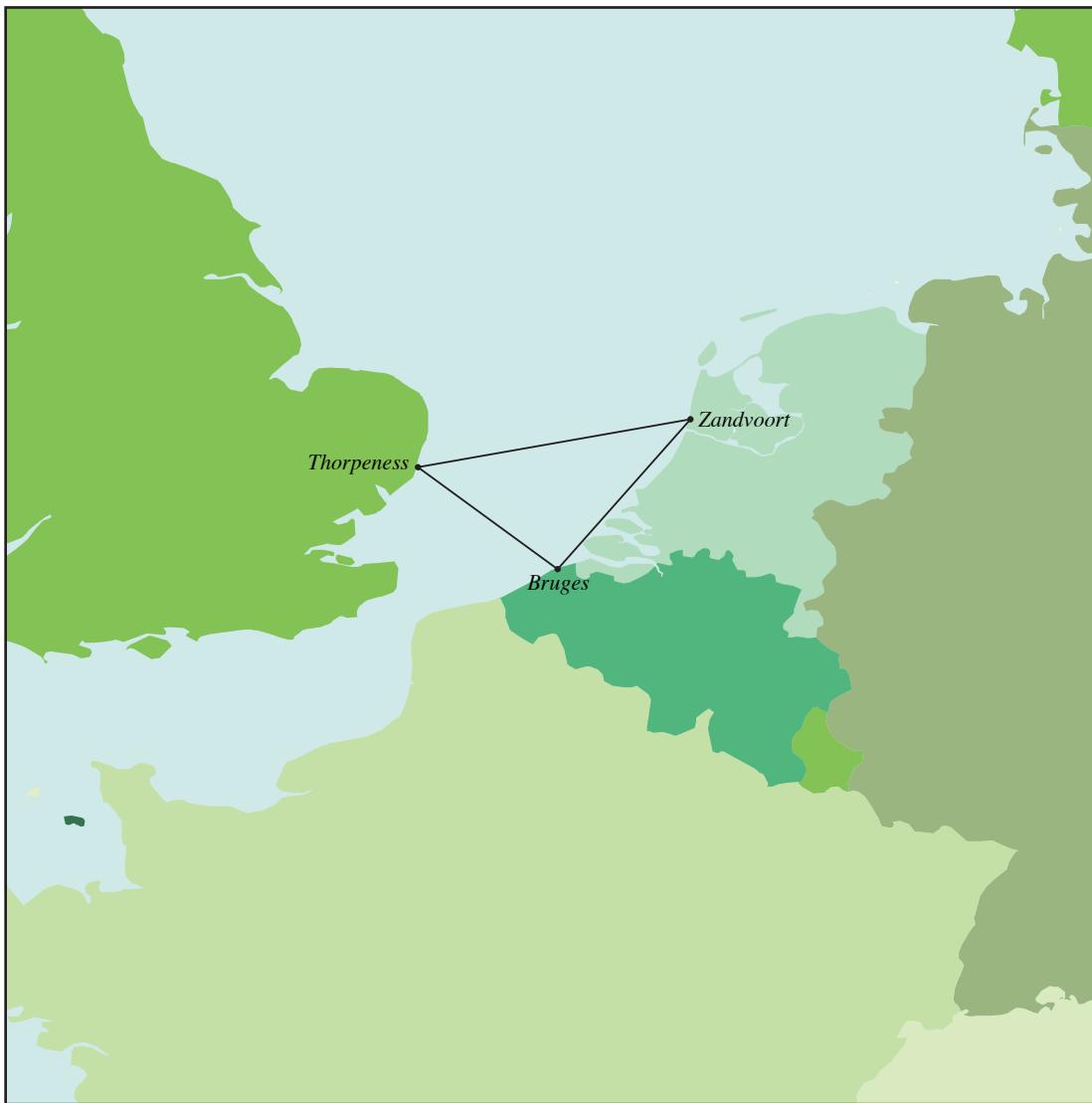
System Name:	Columbus II
Landing Points:	Cancun (Mexico), Funchal (Portugal), Magens Bay (Virgin Islands), Palermo (Italy), Sardinia (Gran Canaria), West Palm Beach (USA)
RFS Year:	1994
Est. End of Service Date:	2019
Est. System Cost (US\$):	600000000
Total Length (kms):	12165
Initial Capacity:	560 Mb/s
Design Capacity:	2.5 Gb/s
Owners:	Columbus II Consortium
System Supplier:	Alcatel Submarine Networks, Tyco Telecommunications SSI, Pirelli
Upgrader	Xtera
Upgrade Year	2012
Upgraded Capacity	100 Gb/s

COLUMBUS III



System Name:	Columbus III
Landing Points:	Conil (Spain), Hollywood (USA), Lisbon (Portugal), Mazara (Italy), Ponta Delgada (Portugal)
RFS Year:	1999
Est. End of Service Date:	2024
Est. System Cost (US\$):	236000000
Total Length (kms):	11000
Initial Capacity:	40 Gb/s
Design Capacity:	160 Gb/s
Fiber Information:	2 Fiber Pairs
Owners:	Columbus III Consortium
System Supplier:	Alcatel Submarine Networks, Pirelli, Tyco Telecommunications
Cablesip:	Vercors, Skandi Hav
Upgrader	Xtera
Upgrade Year	2012
Upgraded Capacity	100 Gb/s

CONCERTO-1



System Name:	Concerto-1
Landing Points:	Bruges (Belgium), Thorpeness (United Kingdom), Zandvoort (Netherlands)
RFS Year:	1999
Est. End of Service Date:	2024
Total Length (kms):	550
Initial Capacity:	2.5 Gb/s
Fiber Information:	96 Fiber Pairs
Owners:	Flute

CORFU-BAR



System Name:	Corfu-Bar
Landing Points:	Bar (Montenegro), Corfu (Greece)
RFS Year:	1998
Est. End of Service Date:	2023
Est. System Cost (US\$):	19000000
Total Length (kms):	320
Initial Capacity:	622 Mb/s
Fiber Information:	3 Fiber Pairs
Owners:	Crngorski Telecom, OTE

CORSAR



System Name:	Corsar
Landing Points:	Aranci (Italy), Ajaccio (France)
RFS Year:	1992
Est. End of Service Date:	2017
Est. System Cost (US\$):	11000000
Total Length (kms):	168
Initial Capacity:	3 Gb/s
Owners:	France Telecom, Telecom Italia
System Supplier:	Alcatel Submarine Networks

DANICA NORTH



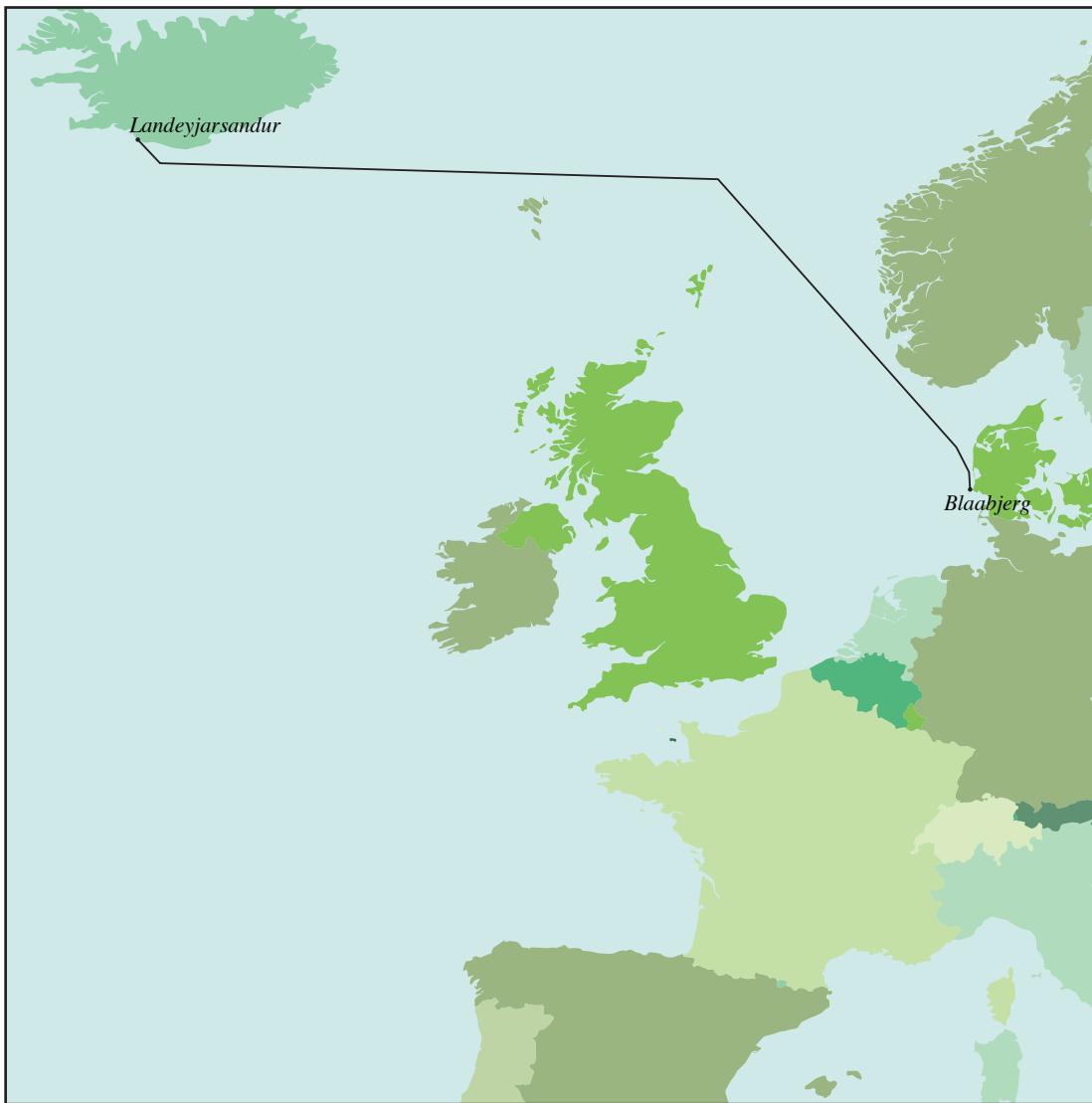
System Name:	Danica North
Landing Points:	Barseback (Sweden), Tuborg (Denmark)
RFS Year:	1998
Est. End of Service Date:	2023
Total Length (kms):	25
Initial Capacity:	10 Gb/s
Fiber Information:	96 Fiber Pairs
Owners:	Teliasonera
System Supplier:	Ericsson
System Installer:	AKN
Cablesip:	Pleijel
Upgrader	Ciena
Upgrade Year	2013
Upgraded Capacity	40 Gb/s

DANICA SOUTH



System Name:	Danica South
Landing Points:	Bjarred (Sweden), Copenhagen (Denmark)
RFS Year:	1998
Est. End of Service Date:	2023
Total Length (kms):	20
Initial Capacity:	10 Gb/s
Fiber Information:	24 Fiber Pairs
Owners:	Teliasonera
System Supplier:	Ericsson
System Installer:	AKN
Cablesip:	Pleijel
Upgrader	Ciena
Upgrade Year	2013
Upgraded Capacity	40 Gb/s

DANICE



System Name:	Danice
Landing Points:	Blaabjerg (Denmark), Landeyjarsandur (Iceland)
RFS Year:	2008
Est. End of Service Date:	2033
Est. System Cost (US\$):	76440000
Total Length (kms):	2250
Initial Capacity:	1000 Gb/s
Design Capacity:	5.1 Tb/s
Fiber Information:	4 Fiber Pairs
Owners:	Farice Ltd.
System Supplier:	Tyco Telecommunications

DENMARK-GERMANY 2



System Name:	Denmark-Germany 2
Landing Points:	Gedser (Denmark), Ribnitz-Damgarten (Germany)
RFS Year:	1993
Est. End of Service Date:	2016
Est. System Cost (US\$):	7600000
Total Length (kms):	45
Initial Capacity:	2.5 Gb/s
Fiber Information:	8 Fiber Pairs
Owners:	Deutsche Telekom AG, TDC
System Installer:	Tele Danmark

DENMARK-NORWAY 5



System Name:	Denmark-Norway 5
Landing Points:	Ardendal (Norway), Hjorring (Denmark)
RFS Year:	1992
Est. End of Service Date:	2017
Est. System Cost (US\$):	9560000
Total Length (kms):	130
Initial Capacity:	2 Gb/s
Owners:	Norway PTT, TDC

DENMARK-NORWAY 6



System Name:	Denmark-Norway 6
Landing Points:	Kristiansand (Norway), Thisted (Denmark)
RFS Year:	1992
Est. End of Service Date:	2017
Est. System Cost (US\$):	8950000
Total Length (kms):	120
Initial Capacity:	1.5 Gb/s
Owners:	Norway PTT, TDC

DENMARK-POLAND 2



System Name:	Denmark-Poland 2
Landing Points:	Gedebak Odde (Denmark), Mielno (Poland)
RFS Year:	1991
Est. End of Service Date:	2016
Est. System Cost (US\$):	4500000
Total Length (kms):	110
Initial Capacity:	2.5 Gb/s
Owners:	Polish Telecom, TDC

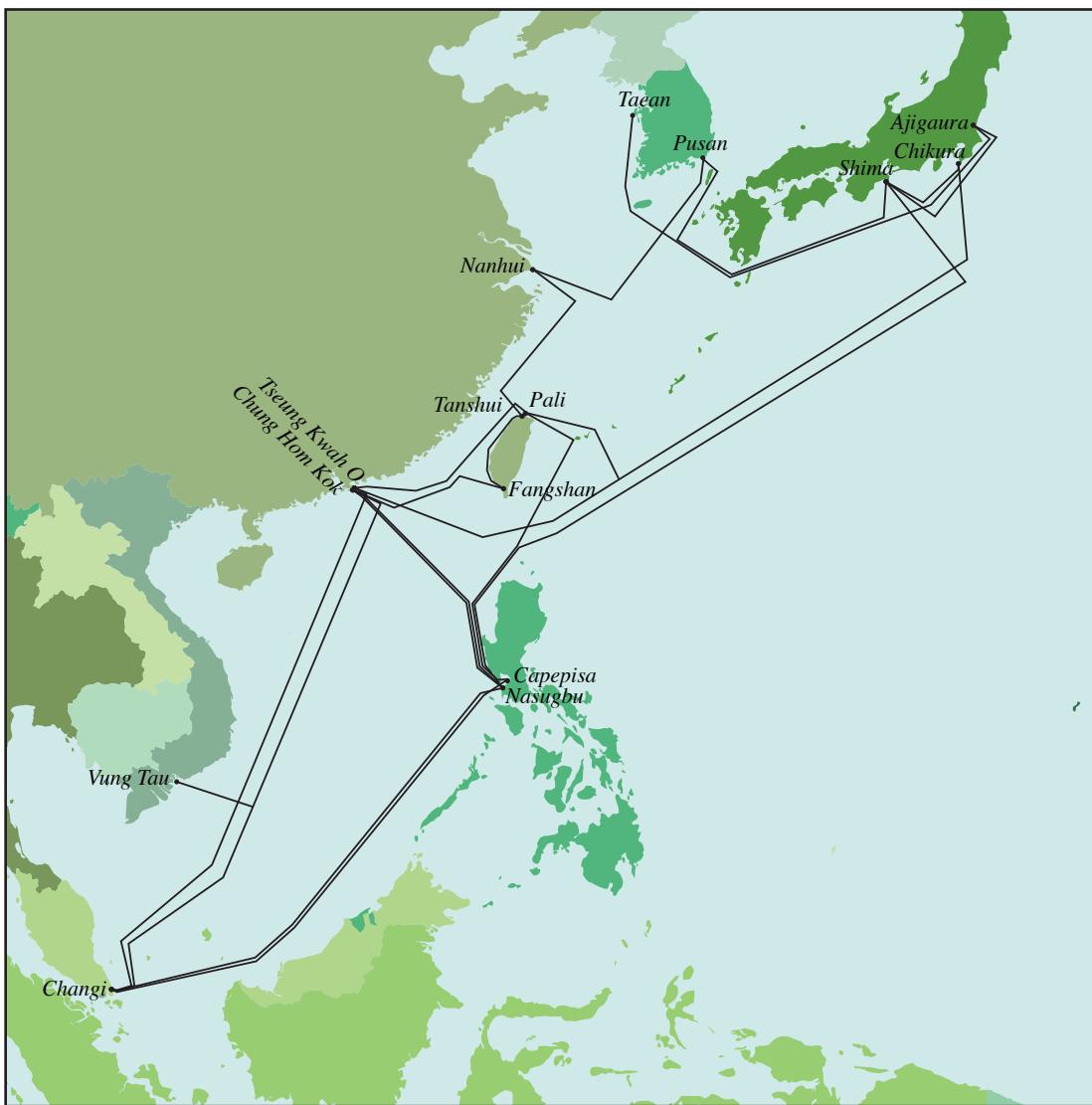
DENMARK-RUSSIA



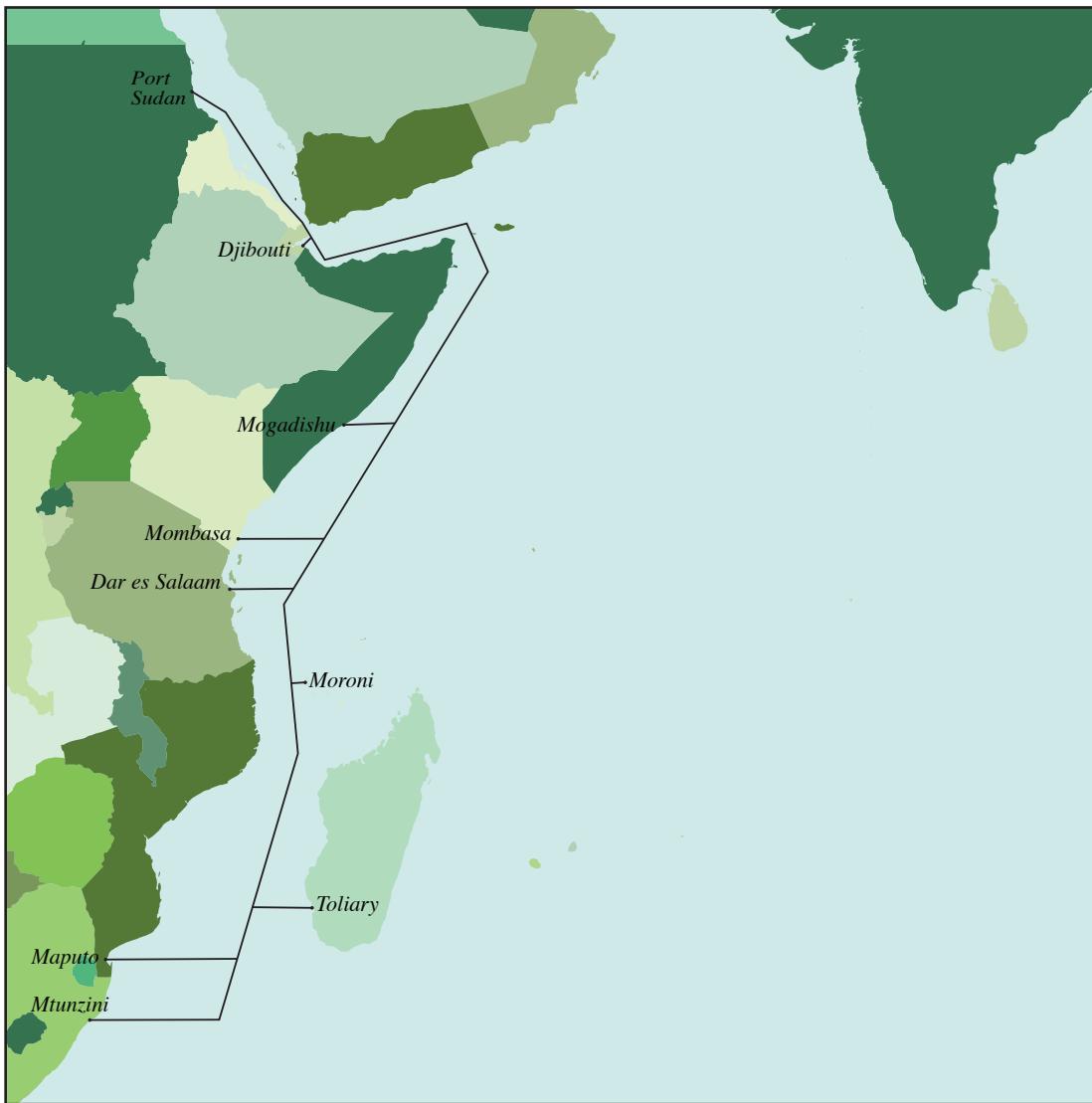
System Name:	Denmark-Russia
Landing Points:	Copenhagen (Denmark), Kingisepp (Russia)
RFS Year:	1993
Est. End of Service Date:	2018
Est. System Cost (US\$):	88000000
Total Length (kms):	1250
Initial Capacity:	280 Mb/s
Owners:	TDC



System Name:	DMCS
Landing Points:	Dumai (Indonesia), Melaka (Malaysia)
RFS Year:	2005
Est. End of Service Date:	2030
Total Length (kms):	160
Initial Capacity:	20 Gb/s
Design Capacity:	320 Gb/s
Owners:	PT Telekom, Telekom Malaysia



System Name:	EAC-C2C
Landing Points:	Capepisa (Philippines), Changi (Singapore), Chikura (Japan), Chung Hom Kok (Hong Kong), Fangshan (Taiwan), Nanhui District (China), Nasugbu (Philippines), Pali (Taiwan), Pusan (South Korea), Shima (Japan), Singapore (Singapore), Taean (South Korea), Tanshui (Taiwan), Tseung Kwan O (Hong Kong), Vung Tau (Vietnam)
RFS Year:	2009
Est. End of Service Date:	2034
Total Length (kms):	36800
Design Capacity:	30 Tb/s
Owners:	PACNET
System Supplier:	NEC
Marine Surveyor:	C&C Technologies
Upgrader	Infinera
Upgrade Year	2013
Upgraded Capacity	100 Gb/s

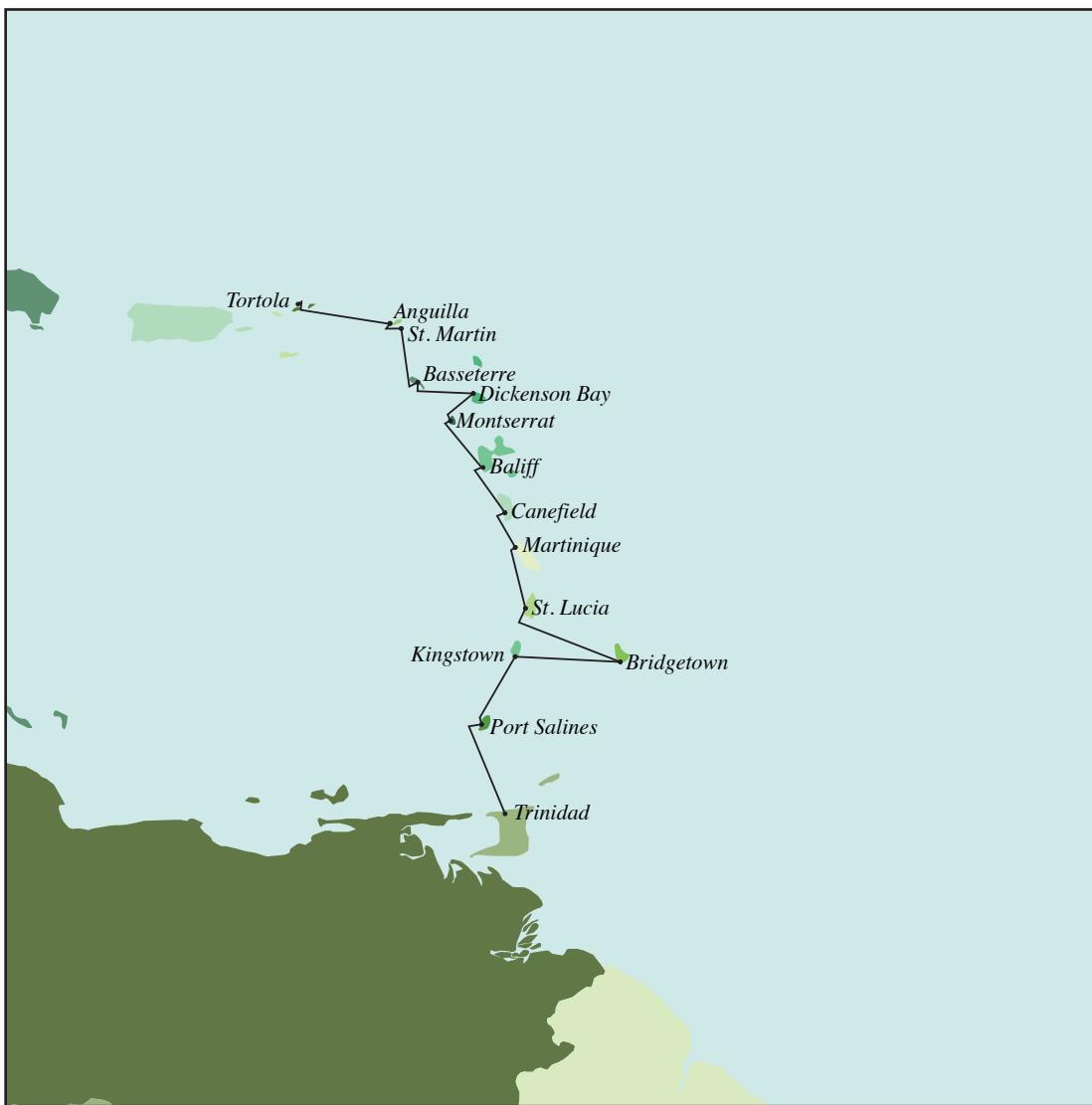


System Name:	EaSSy
Landing Points:	Dar es Salaam (Tanzania), Djibouti (Republic of Djibouti), Maputo (Mozambique), Mogadishu (Somalia), Mombasa (Kenya), Moroni (Comoros), Mtunzini (South Africa), Port Sudan (Sudan), Toliary (Madagascar)
RFS Year:	2010
Est. End of Service Date:	2035
Est. System Cost (US\$):	263000000
Total Length (kms):	10000
Initial Capacity:	30 Gb/s
Design Capacity:	4.72 Tb/s
Fiber Information:	2 Fiber Pairs
Owners:	Bharti Airtel, Botswana Telecommunications Corporation, British Telecom, Comores Telecom, Etisalat, France Telecom, Mauritius Telecom, MTN Group, Neotel, Saudi Telecom Company (STC), Saudi Arabia, SPV2, Sudan Telecom Limited, Sudatel, Tanzania Telecommunications Company Limited, WIOCC
System Supplier:	Alcatel-Lucent Submarine Networks

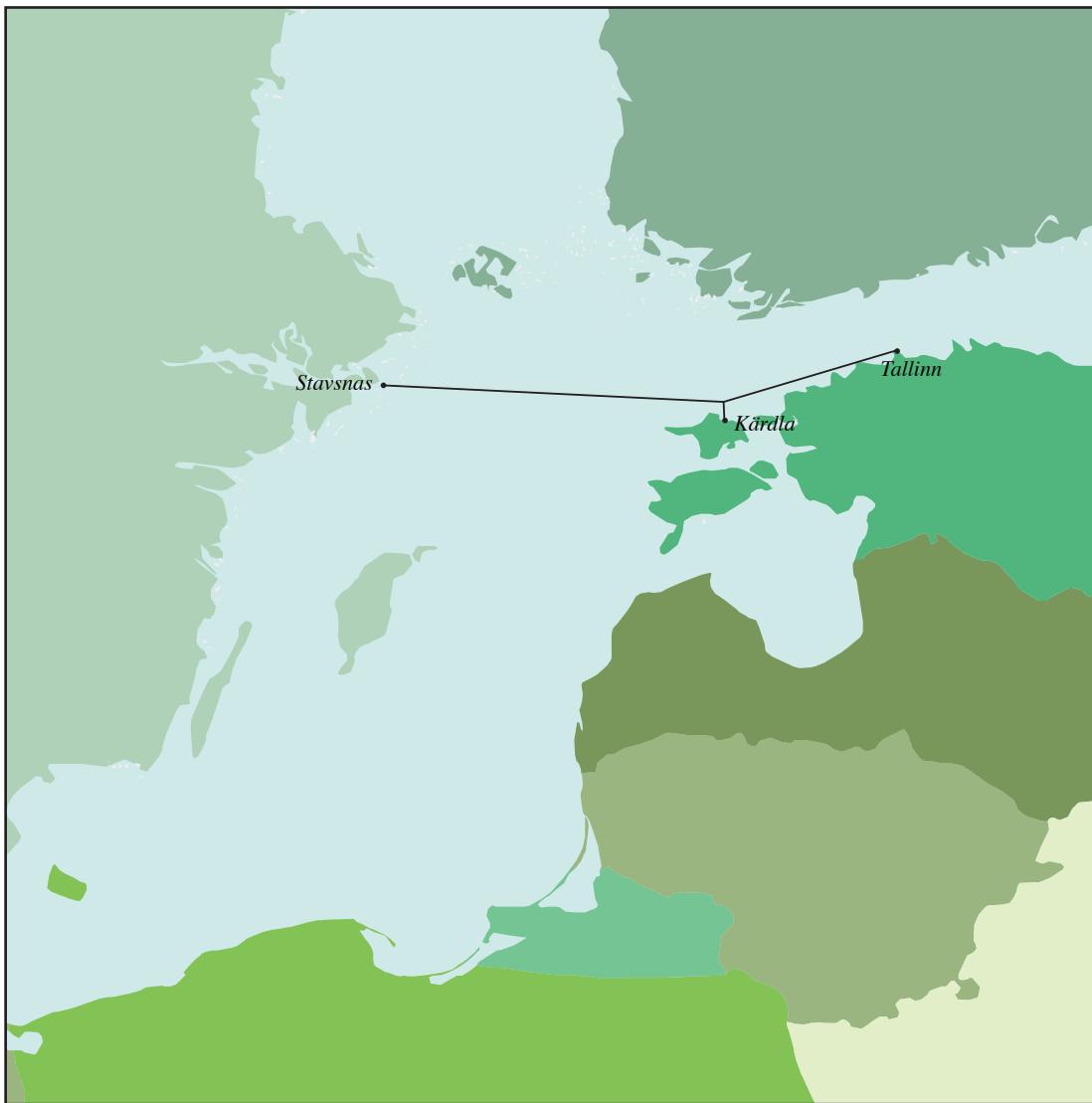
EAST-WEST



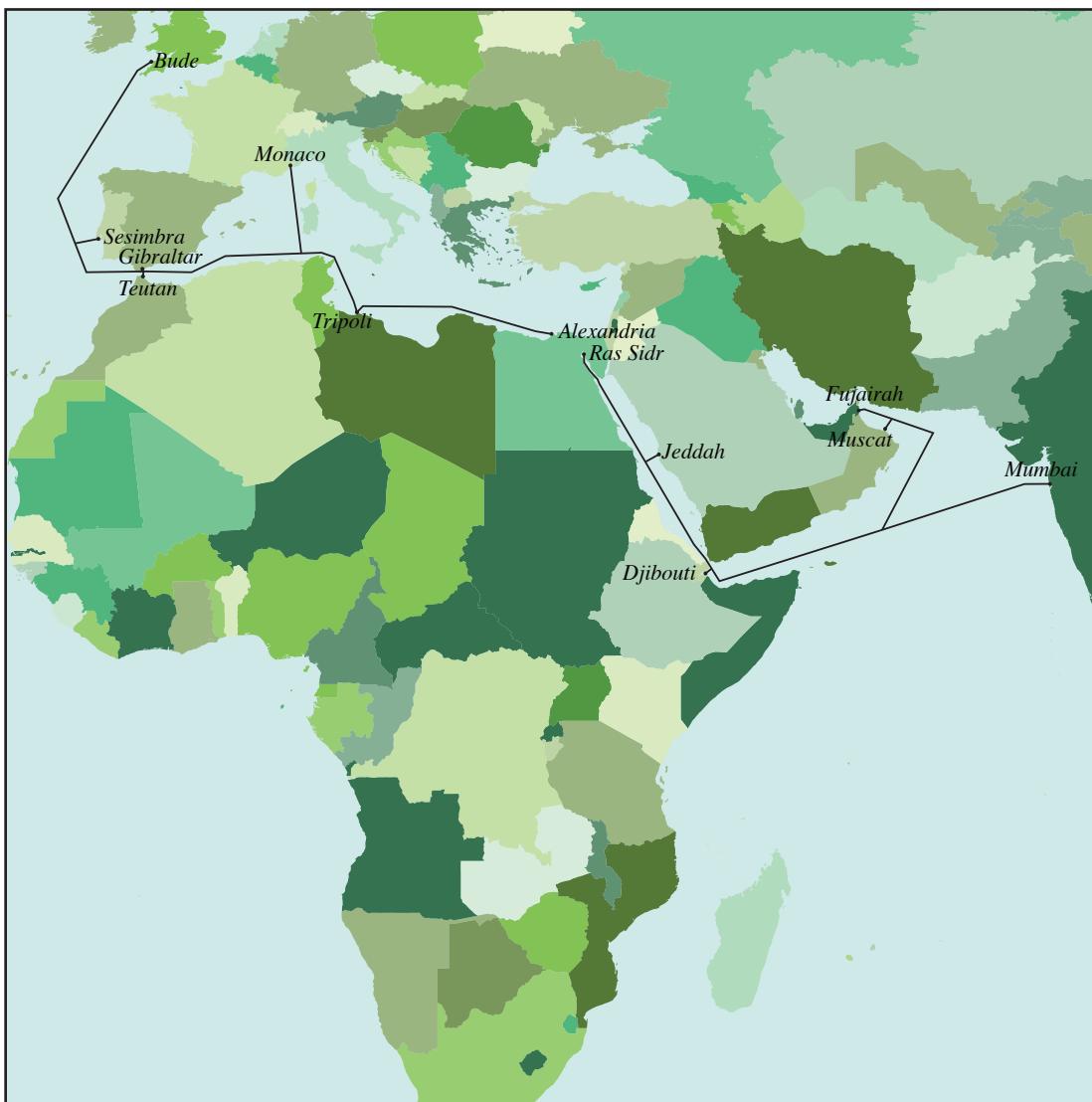
System Name:	East-West
Landing Points:	Morant Point (Jamaica), Santo Domingo (Dominican Republic), Tortola (British Virgin Islands)
RFS Year:	2011
Est. End of Service Date:	2036
Est. System Cost (US\$):	35000000
Total Length (kms):	1700
Initial Capacity:	120 Gb/s
Design Capacity:	720 Gb/s
Upgrader	Xtera



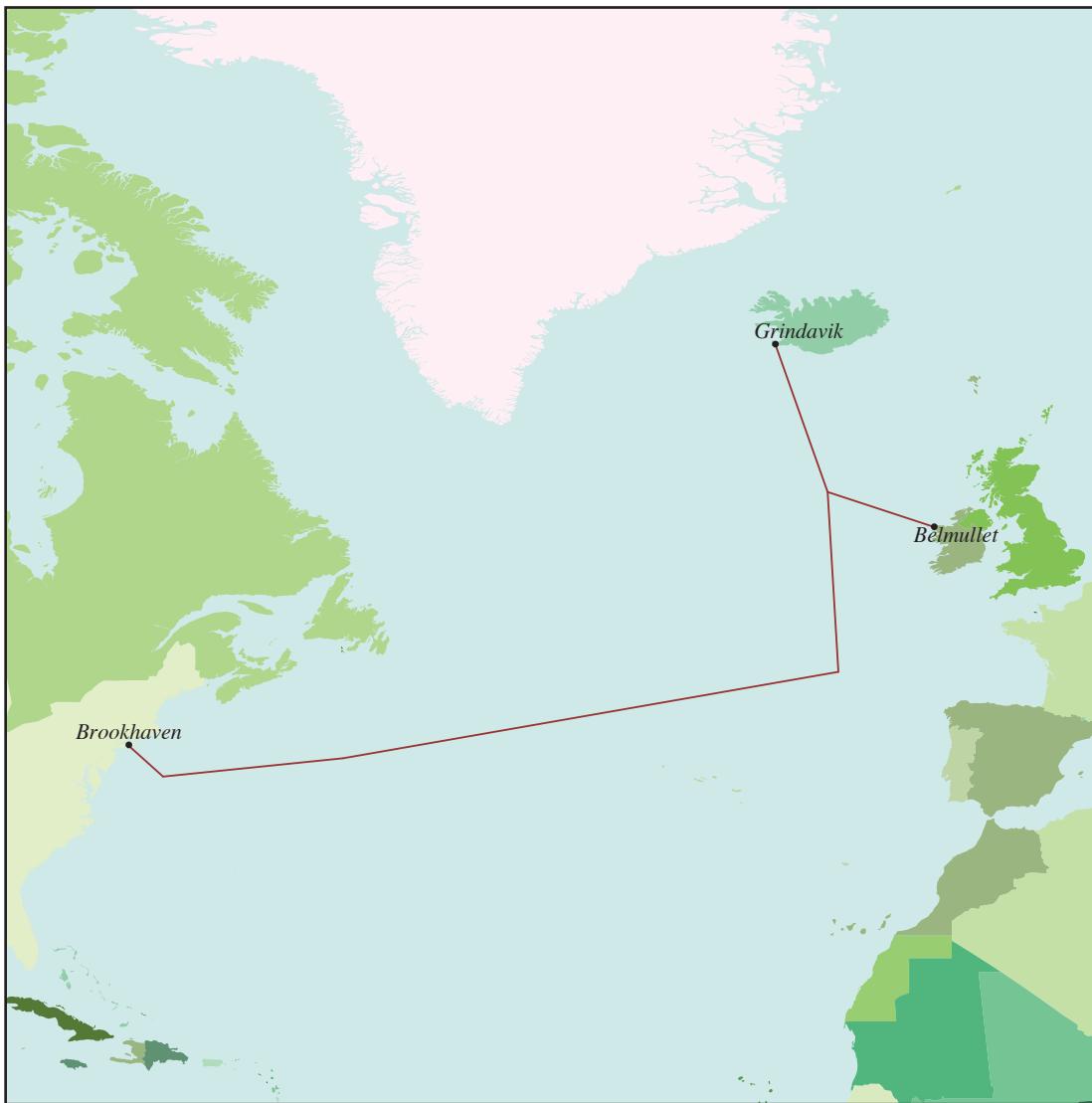
System Name:	ECFS
Landing Points:	Anguilla (Anguilla), Baliff (Guadeloupe), Basseterre (St. Kitts & Nevis), Bridgetown (Barbados), Canefield (Dominica), Dickenson Bay (Antigua), Kingstown (St. Vincent), Martinique (Martinique), Montserrat (Montserrat), Port Salines (Grenada), St. Lucia (St. Lucia), St Martin (Netherlands Antilles), Tortola (British Virgin Islands), Trinidad (Trinidad)
RFS Year:	1995
Est. End of Service Date:	2020
Est. System Cost (US\$):	56000000
Total Length (kms):	1729
Initial Capacity:	2.5 Gb/s
Owners:	AT&T, BET (Barbados), C&W, France Telecom, TSTT
System Supplier:	Alcatel Submarine Networks
System Installer:	C&W (Marine)
Cablesip:	Mercury



System Name:	EE-S1
Landing Points:	Kärdla (Estonia), Stavsnas (Sweden), Tallinn (Estonia)
RFS Year:	1995
Est. End of Service Date:	2020
Total Length (kms):	228
Initial Capacity:	5 Gb/s
Fiber Information:	6 Fiber Pairs
Owners:	Teliasonera

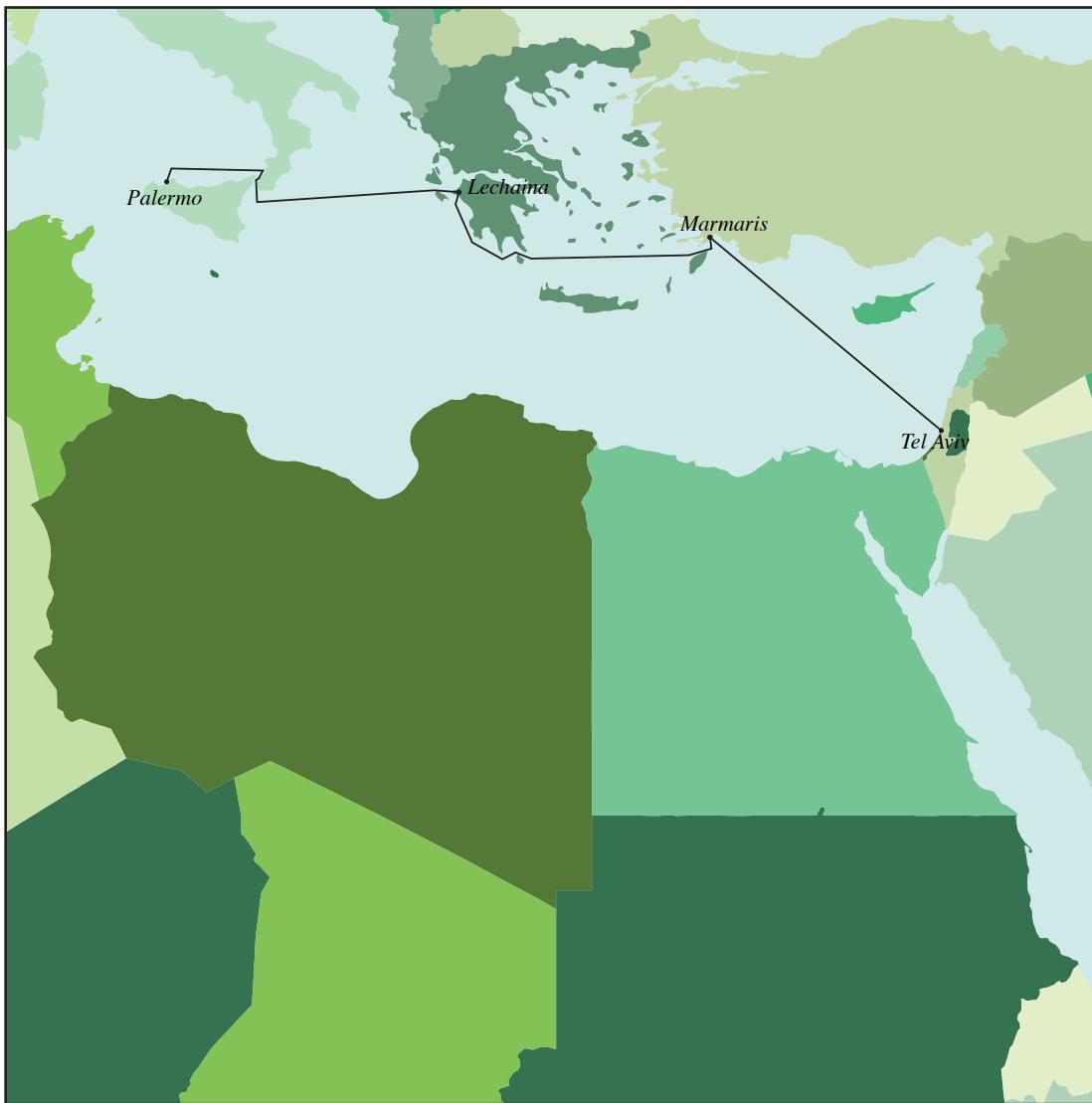


System Name:	EIG
Landing Points:	Abu Talat (Egypt), Bude (United Kingdom), Djibouti (Republic of Djibouti), Fujairah (United Arab Emirates), Gibraltar (Gibraltar), Jeddah (Saudi Arabia), Monaco (Monaco), Mumbai (India), Muscat (Oman), Zafarana (Egypt), Sesimbra (Portugal), Tripoli (Libya)
RFS Year:	2011
Est. End of Service Date:	2036
Est. System Cost (US\$):	700000000
Total Length (kms):	15000
Initial Capacity:	3.84 Tb/s
Owners:	AT&T, Bharti Airtel, British Telecom, BSNL, C&W, Djibouti Telecom, Du, Gibtelecom, Libyan Post, Telecom, and Information Technology Company, MTN Group, Omantel, PT Comunicações, Saudi Telecom Company (STC), Telekom SA, Verizon
System Supplier:	Alcatel-Lucent, Tyco Telecommunications
Marine Surveyor:	Fugro, UTEC and GEMS



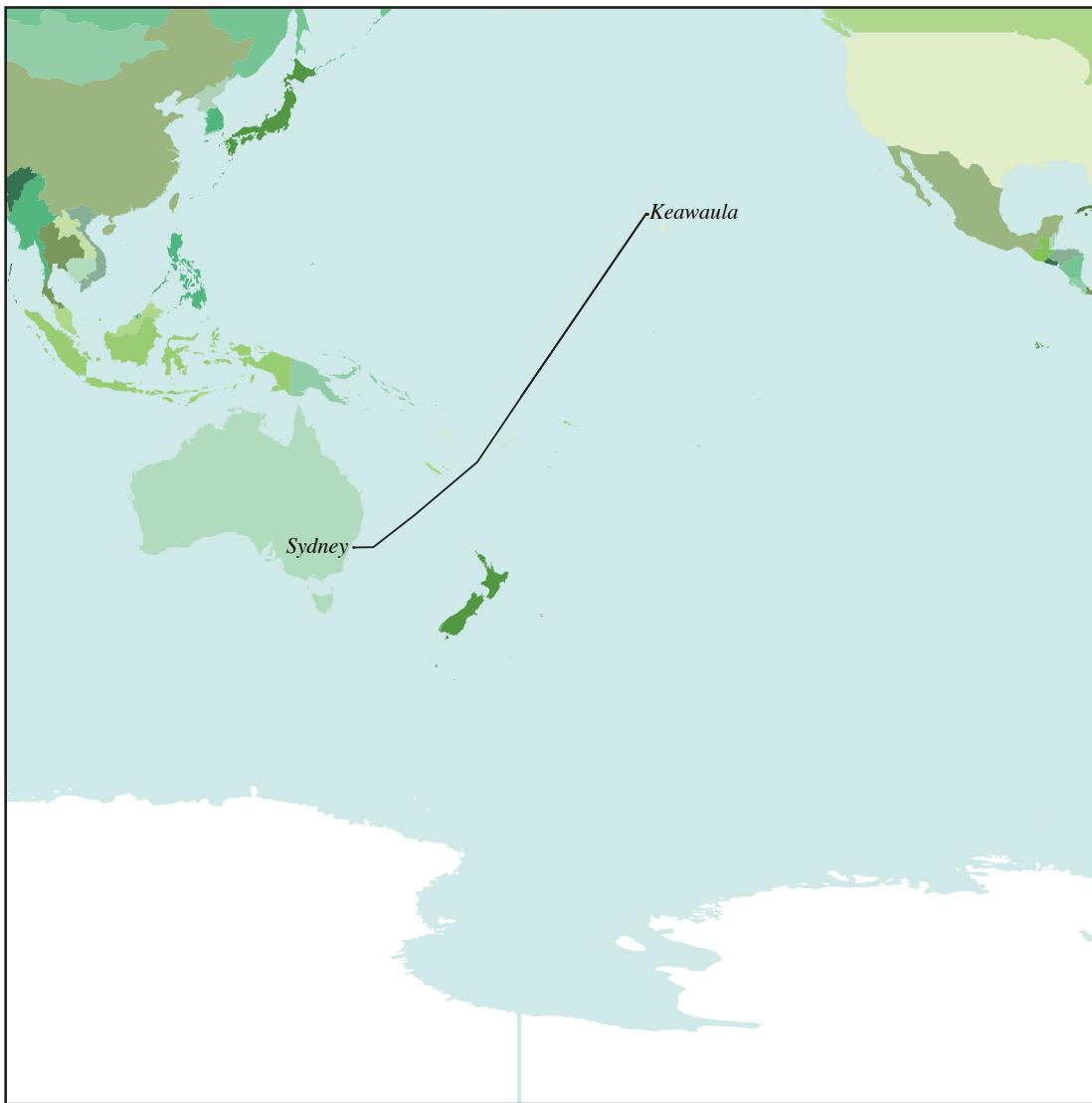
System Name:	Emerald Express
Landing Points:	Belmullet (Ireland), Brookhaven (USA), Grindavik (Iceland)
RFS Year:	2014
Est. End of Service Date:	2039
Est. System Cost (US\$):	215000000
Total Length (kms):	5200
Design Capacity:	60 Tb/s
Fiber Information:	6 Fiber Pairs, 100 wavelengths, 100 Gb/s per wavelength
Owners:	Emerald Networks
System Supplier:	TE SubCom

EMOS-1



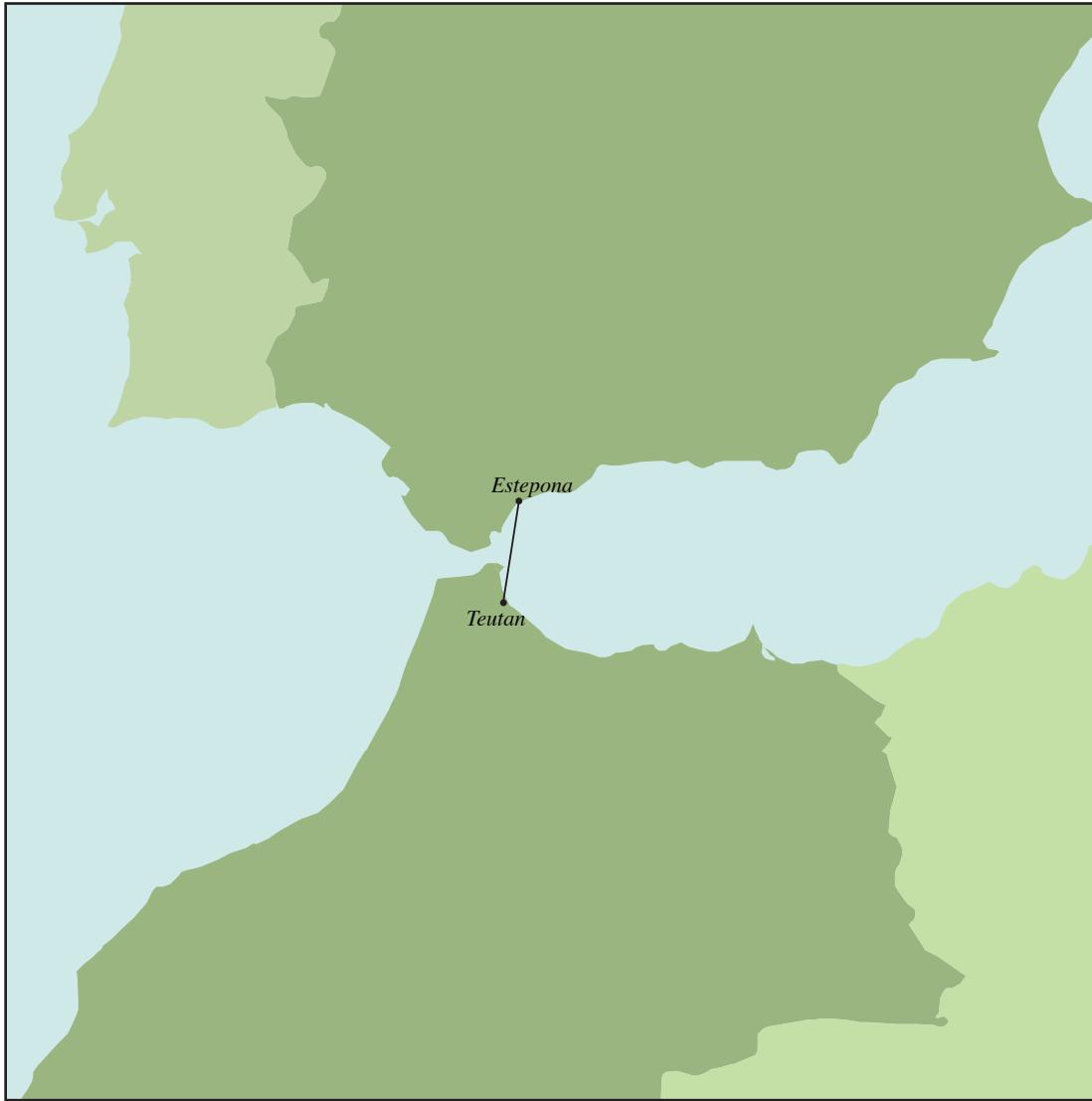
System Name:	EMOS-1
Landing Points:	Lechaina (Greece), Marmaris (Turkey), Palermo (Italy), Tel Aviv (Israel)
RFS Year:	1990
Est. End of Service Date:	2015
Est. System Cost (US\$):	101000000
Total Length (kms):	2880
Initial Capacity:	280 Mb/s
Owners:	Telecom Italia
System Supplier:	Alcatel Submarine Networks
System Installer:	FCR
Cablesip:	Vercors

ENDEAVOUR



System Name:	Endeavour
Landing Points:	Keawaula (Hawaii), Sydney (Australia)
RFS Year:	2008
Est. End of Service Date:	2033
Total Length (kms):	9120
Initial Capacity:	80 Gb/s
Fiber Information:	2 Fiber Pairs
Owners:	Telstra (Australia)

ESTEPONA-TETOUAN

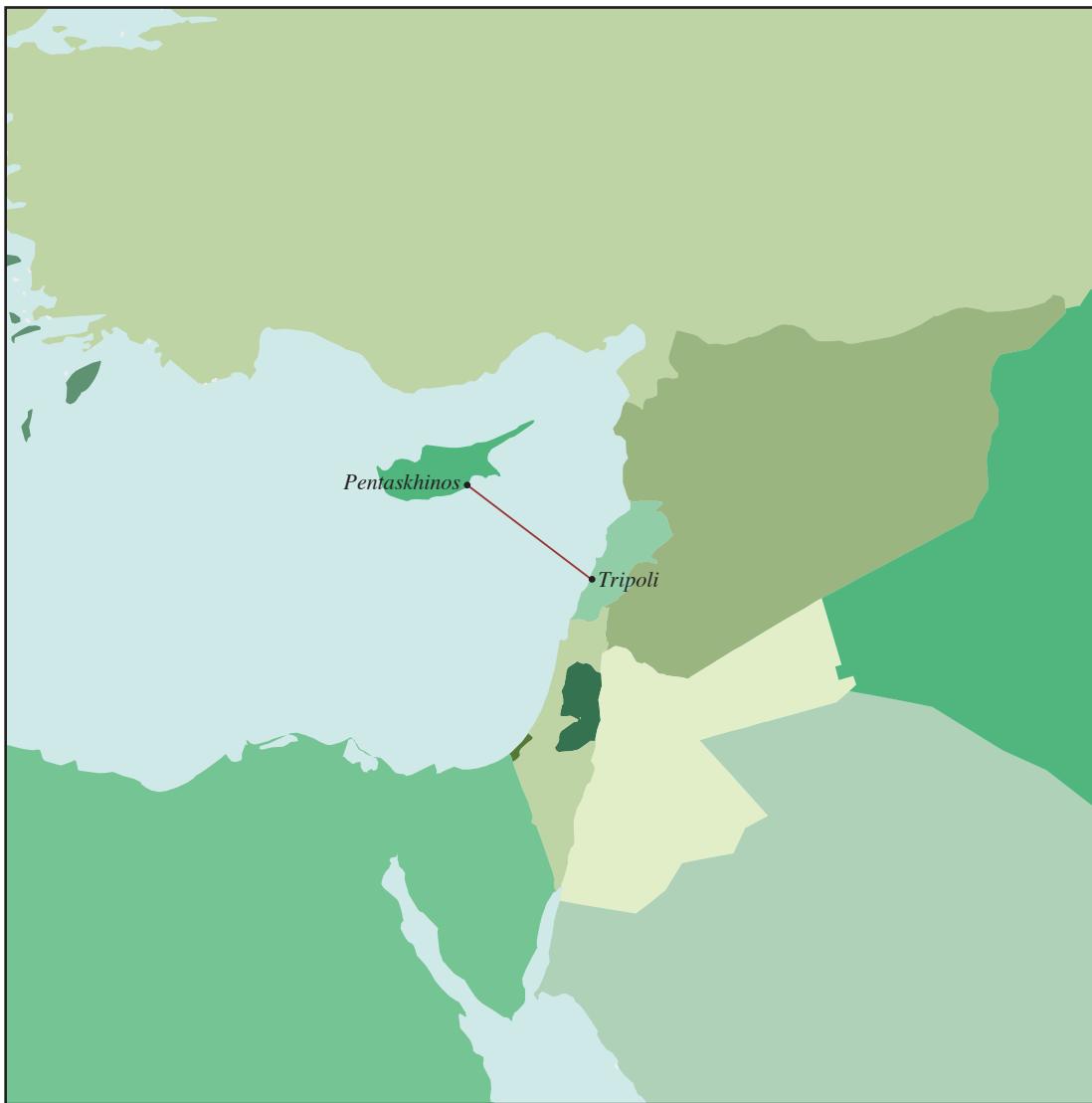


System Name:	Estepona-Tetouan
Landing Points:	Estepona (Spain), Tetouan (Morocco)
RFS Year:	1994
Est. End of Service Date:	2019
Total Length (kms):	113
Initial Capacity:	3.7 Gb/s
Owners:	Telefonica
System Supplier:	STC Submarine Systems
System Installer:	FCR
Cablesip:	Vercors

EURAFRICA

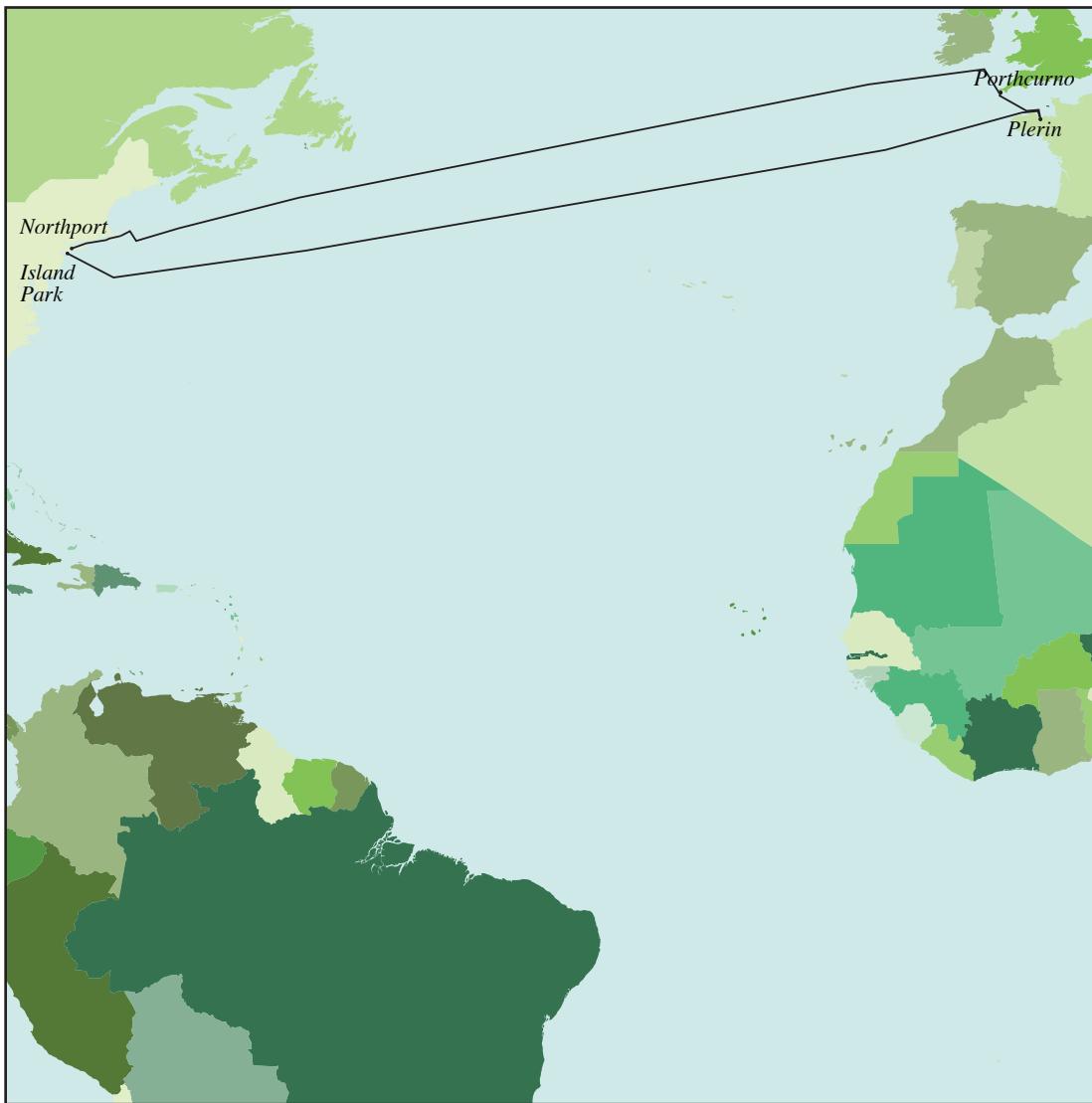


System Name:	EurAfrica
Landing Points:	Casablanca (Morocco), Funchal (Portugal), Sesimbra (Portugal), St. Hilaire (France)
RFS Year:	1992
Est. End of Service Date:	2017
Est. System Cost (US\$):	150000000
Total Length (kms):	3100
Initial Capacity:	1 Gb/s
Owners:	France Telecom, ONPT Morocco, PT Comunicações
System Supplier:	Alcatel Submarine Networks
System Installer:	FCR
Cablesip:	Vercors 1584 km., Northern Installer 1501 km.



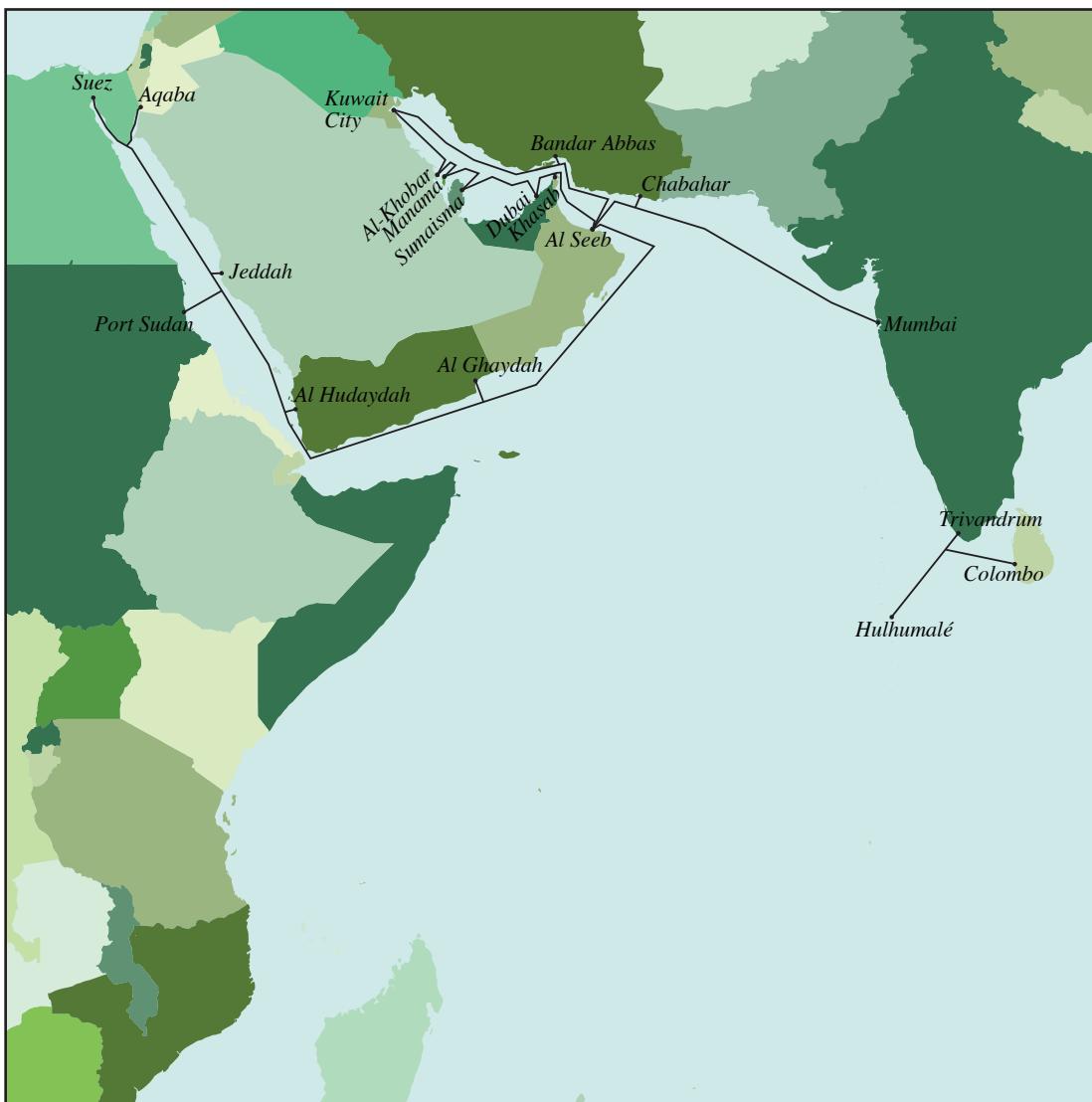
System Name:	Europa
Landing Points:	Pentaskhinos (Cyprus), Tripoli (Lebanon)
RFS Year:	2013
Est. End of Service Date:	2038
Fiber Information:	8 Fiber Pairs
Owners:	CYTA, Lebanese ministry of Telecommunications

FA-1 NORTH/SOUTH



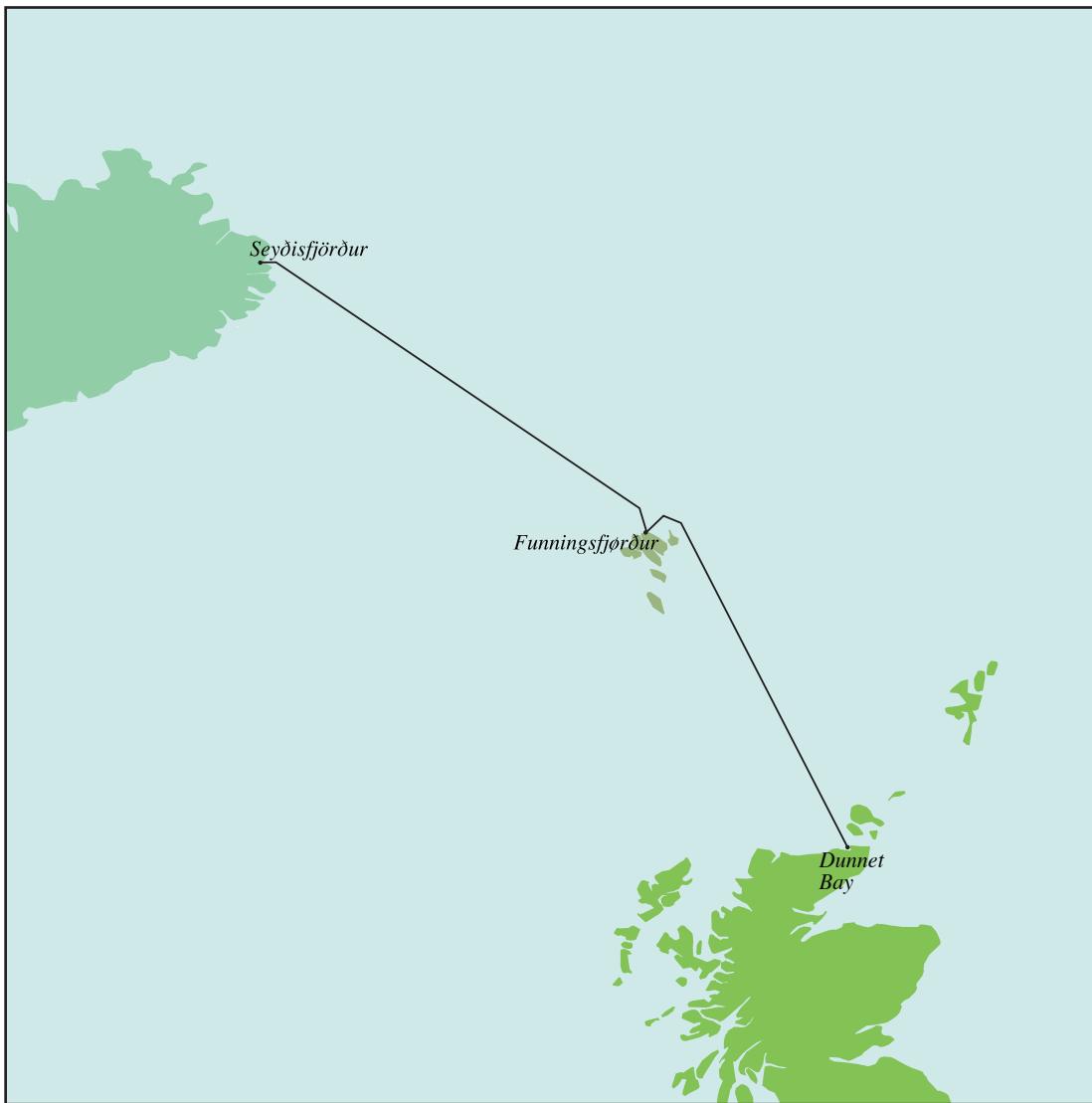
System Name:	FA-1 North/South
Landing Points:	Island Park (USA), Northport (USA), Plerin (France), Porthcurno (United Kingdom)
RFS Year:	2001
Est. End of Service Date:	2026
Est. System Cost (US\$):	900000000
Total Length (kms):	12820
Initial Capacity:	4.6875 Tb/s
Fiber Information:	6 Fiber Pairs
Owners:	Reliance Globalcom
System Supplier:	Alcatel Submarine Networks
System Installer:	Alcatel Submarine Networks
Marine Surveyor:	Svitzer, SAIC
Survey Boat:	Vessel of Opportunity
Upgrader	Infinera
Upgrade Year	2010, 2011
Upgraded Capacity	10 Gb/s

FALCON



System Name:	Falcon
Landing Points:	Al Ghaydah (Yemen), Al Hudaydah (Yemen), Al-Khobar (Saudi Arabia), Al Seeb (Oman), Aqaba (Jordan), Bandar-E Abbas (Iran), Chabahar (Iran), Colombo (Sri Lanka), Dubai (UAE), Hulhumalé (India), Jeddah (Saudi Arabia), Kuwait City (Kuwait), Manama (Bahrain), Mumbai (India), Port Sudan (Sudan), Suez (Egypt), Sumaisma (Qatar), Trivandrum (India)
RFS Year:	2006
Est. End of Service Date:	2031
Est. System Cost (US\$):	900000000
Total Length (kms):	11898
Initial Capacity:	90 Gb/s
Design Capacity:	2.56 Tb/s
Fiber Information:	6 Fiber Pairs
Owners:	Reliance Globalcom
System Supplier:	Alcatel Submarine Networks
System Installer:	Alcatel Submarine Networks

FARICE-1



System Name:	Farice-1
Landing Points:	Dunnet Bay (Scotland), Funningsfjörður (Faroe Islands), Seyðisfjörður (Iceland)
RFS Year:	2004
Est. End of Service Date:	2029
Total Length (kms):	1407
Initial Capacity:	20 Gb/s
Owners:	Farice Ltd., Iceland Telecom Ltd.
System Supplier:	Pirelli
Cablesip:	Pertinacia
Marine Surveyor:	Fugro

FARLAND



System Name:	Farland
Landing Points:	Aldeburgh (United Kingdom), Domburg (Netherlands)
RFS Year:	1994
Est. End of Service Date:	2019
Total Length (kms):	104
Initial Capacity:	18 Gb/s
Owners:	British Telecom
System Supplier:	Tyco Telecommunications



System Name:	FastnetConnect
Landing Points:	Cork (Ireland), Lannion (France)
RFS Year:	2014
Est. End of Service Date:	2029
Owners:	Sea Fibre Networks

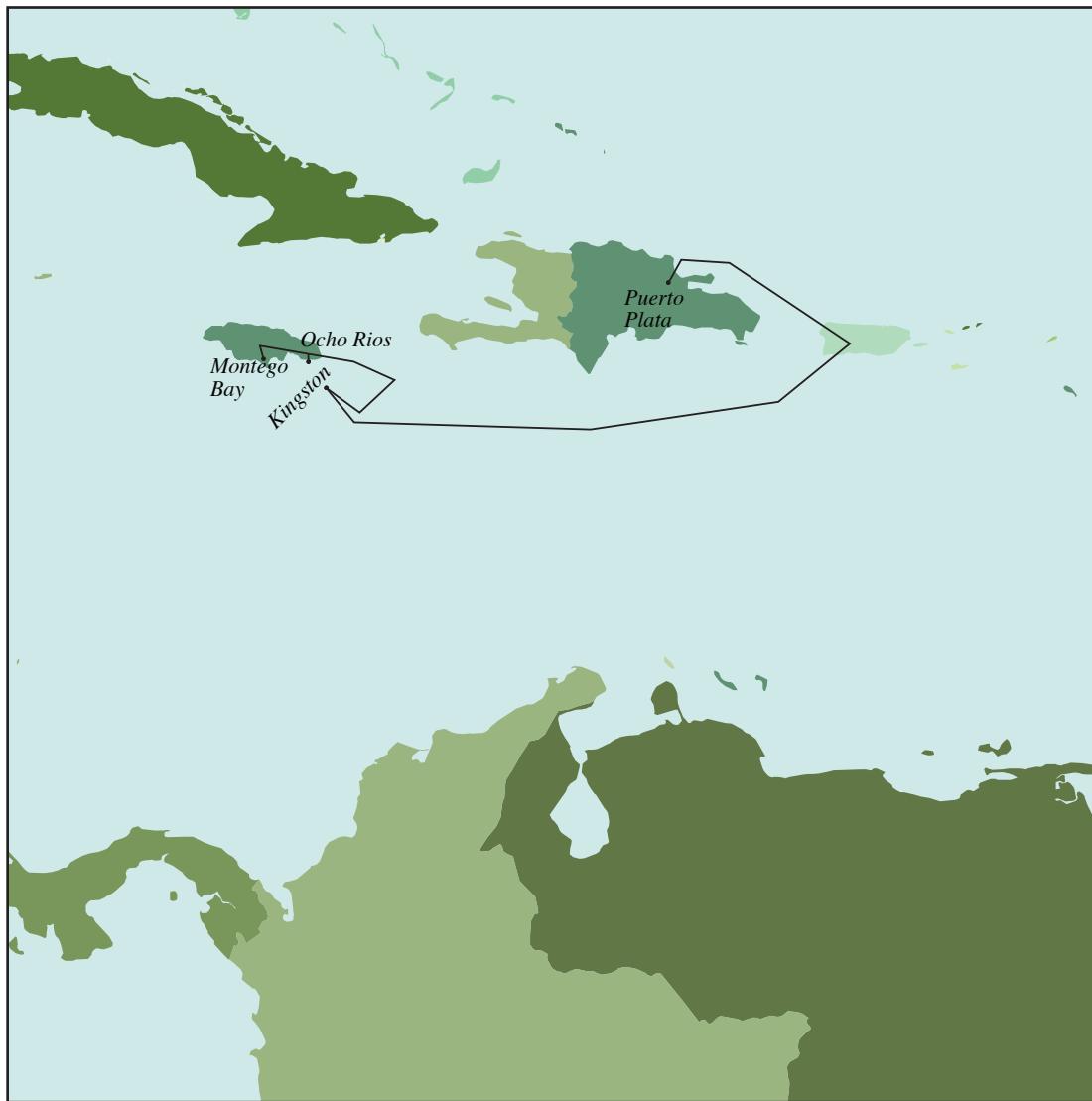
FEHMARN BALT



System Name:	Fehmarn Balt
Landing Points:	Puttgarden (Germany), Rödbyhavn (Denmark)
RFS Year:	2000
Est. End of Service Date:	2025
Total Length (kms):	20
Initial Capacity:	2.5 Gb/s
Owners:	Teliasonera
System Supplier:	Ericsson
System Installer:	Nexans
Cablesip:	Pleijel

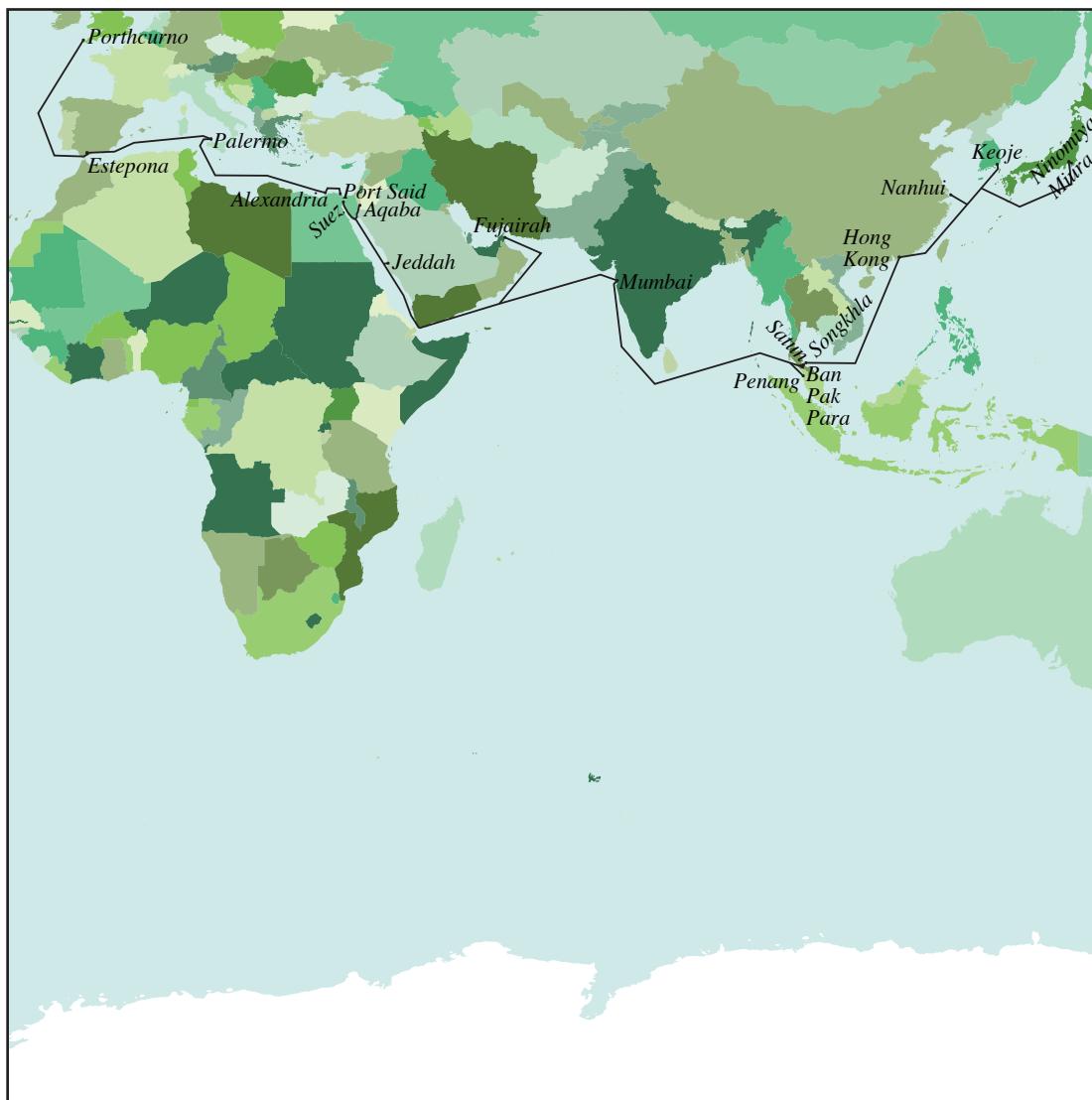


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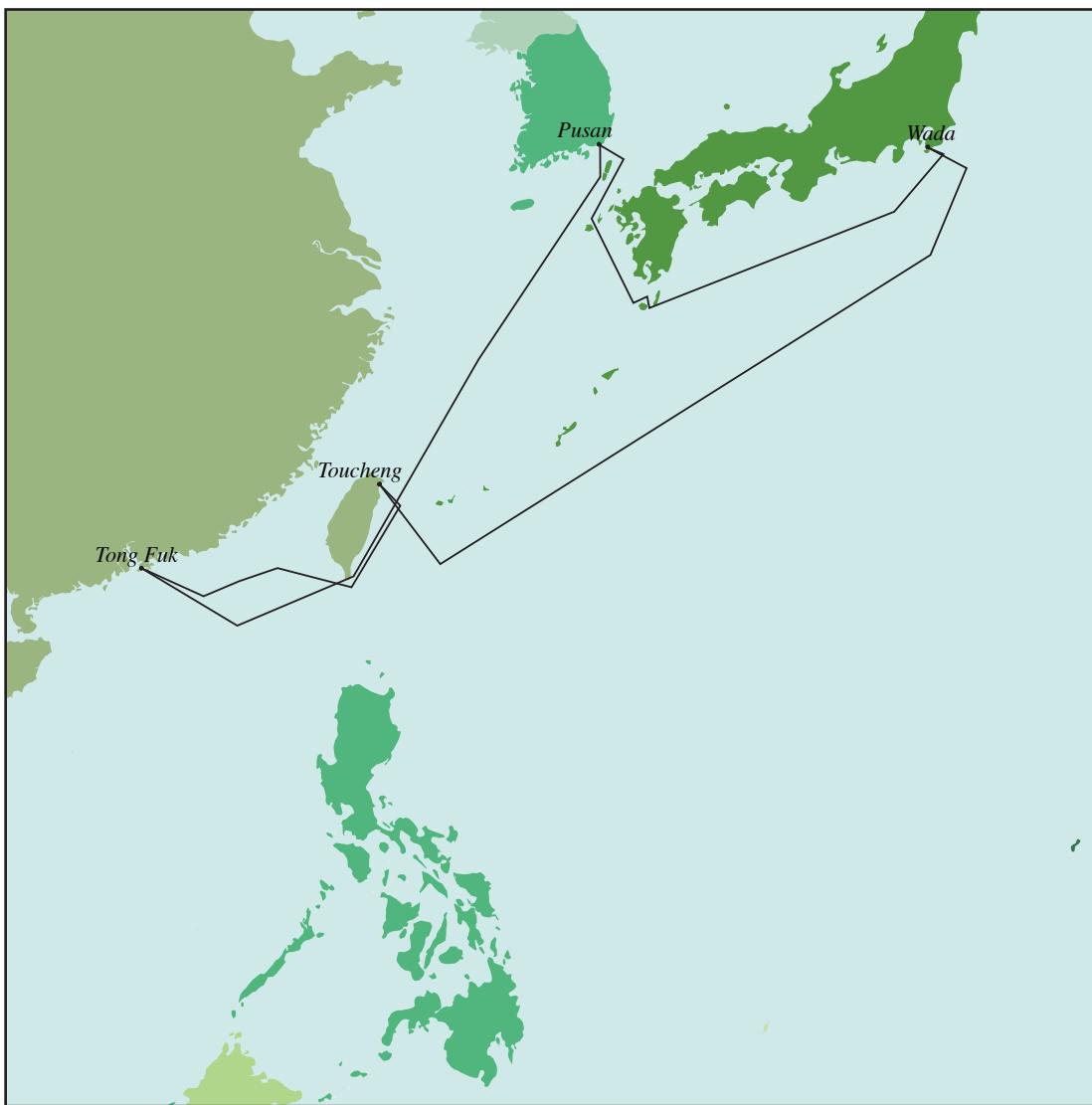
System Name:	FibraLink
Landing Points:	Kingstown (St. Vincent), Montego Bay (Jamaica), Ocho Rios (Jamaica), Puerto Plata (Dominican Republic)
RFS Year:	2006
Est. End of Service Date:	2031
Total Length (kms):	2438
Initial Capacity:	320 Gb/s
Fiber Information:	2 Fiber Pairs
Owners:	Colombus Networks
System Installer:	International Telecom
Cablesip:	IT Intrepid

FLAG EUROPE-ASIA



System Name:	FLAG Europe-Asia
Landing Points:	Alexandria (Egypt), Aqaba (Jordan), Ben Pak Para (Thailand), Estepona (Spain), Fujairah (United Arab Emirates), Hong Kong (China), Jeddah (Saudi Arabia), Keoje (South Korea), Miura (Japan), Mumbai (India), Nanhui District (China), Ninomiya (Japan), Palermo (Italy), Penang (Malaysia), Porthcurno (United Kingdom), Satun (Thailand), Songkhla (Thailand), Suez (Egypt)
RFS Year:	1997
Est. End of Service Date:	2022
Total Length (kms):	27467
Initial Capacity:	20 Gb/s
Design Capacity:	80 Gb/s
Owners:	Reliance Globalcom
Upgrader	Ciena
Upgrade Year	2012
Upgraded Capacity	100 Gb/s

FLAG/REACH NORTH ASIA LOOP



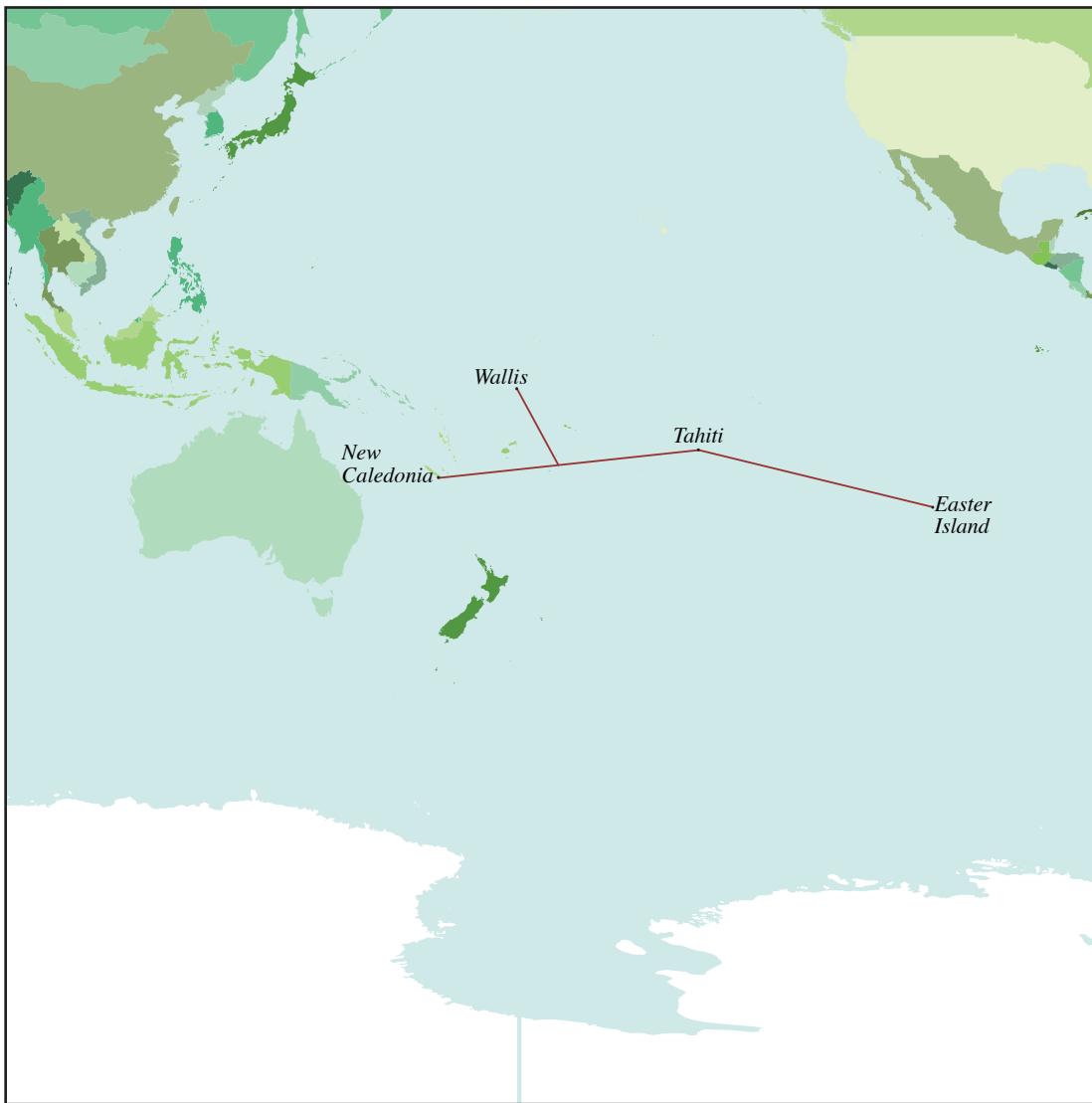
System Name:	Flag/Reach North Asia Loop
Landing Points:	Pusan (South Korea), Tong Fuk (Hong Kong), Toucheng (Taiwan), Wada (Japan)
RFS Year:	2001
Est. End of Service Date:	2026
Est. System Cost (US\$):	900000000
Total Length (kms):	9795
Initial Capacity:	80 Gb/s
Fiber Information:	6 Fiber pairs
Owners:	FLAG Telecom, Level 3 Communications
Upgrader	Ciena
Upgrade Year	2011
Upgraded Capacity	40 Gb/s



System Name:	FOG
Landing Points:	Doha (Qatar), Dubai (UAE), Kuwait City (Kuwait), Manama (Bahrain)
RFS Year:	1998
Est. End of Service Date:	2023
Est. System Cost (US\$):	80000000
Total Length (kms):	1300
Initial Capacity:	5 Gb/s
Owners:	Bahrain Telephone Co., Kuwait Ministry of Communications, Qatar Telecommunication Company, UAE Telecommunications Company

FRENCH POLYNESIA CABLE SYSTEM

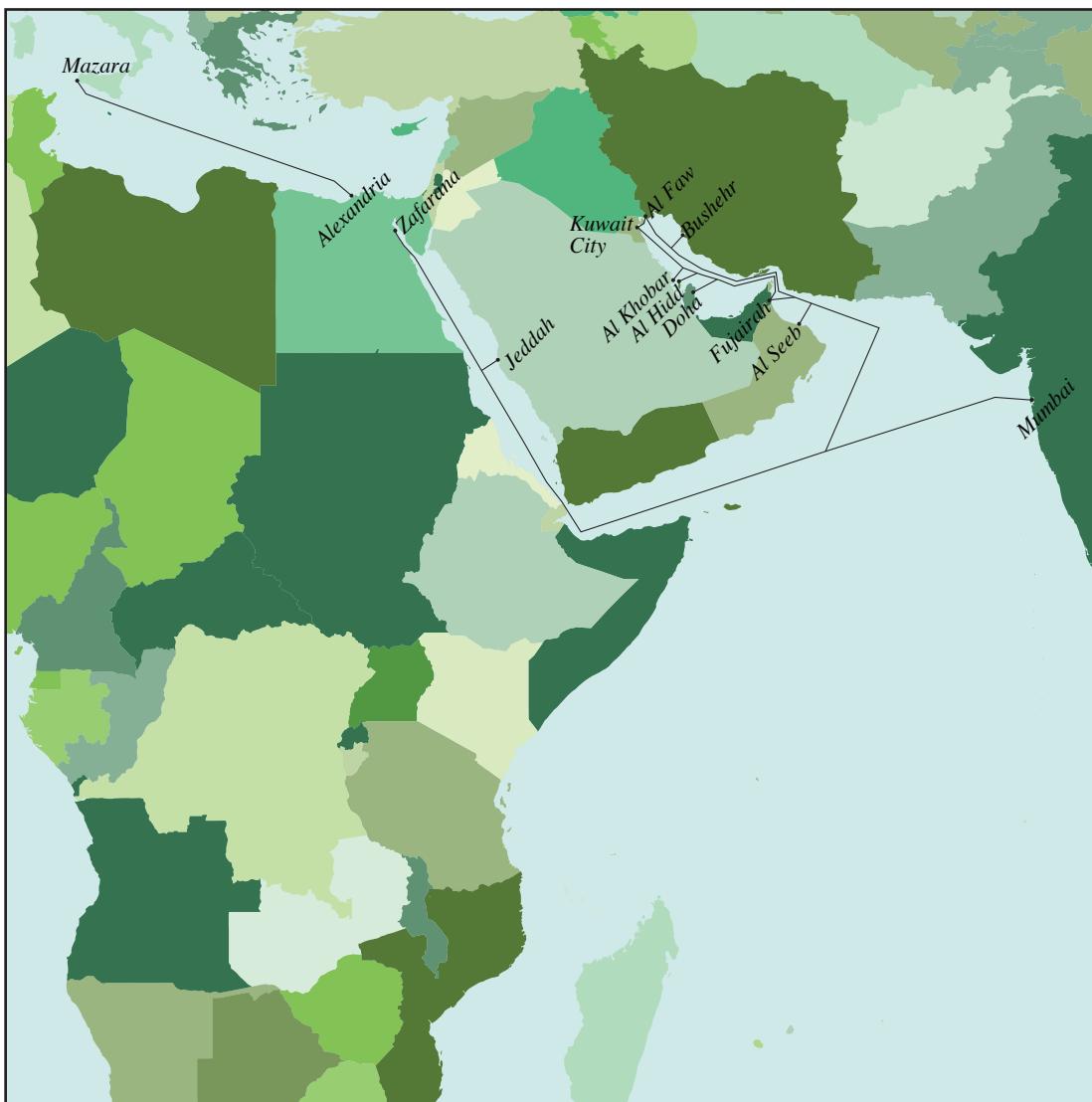
planned



System Name:	French Polynesia Cable System
Landing Points:	Tahiti, New Caledonia, Wallis, Futuna, and an option to link Tahiti, Easter Island (Chile)
RFS Year:	2014
Est. End of Service Date:	2039
Initial Capacity:	640 Gb/s
Fiber Information:	4 Fiber Pairs
Owners:	OPT French Polynesia



System Name:	G-P
Landing Points:	Batangas (Philippines), Tanguisson (Guam)
RFS Year:	1999
Est. End of Service Date:	2024
Total Length (kms):	3600
Initial Capacity:	52.5 Gb/s
Fiber Information:	1 Fiber Pair
Owners:	AT&T
System Supplier:	Tyco Telecommunications



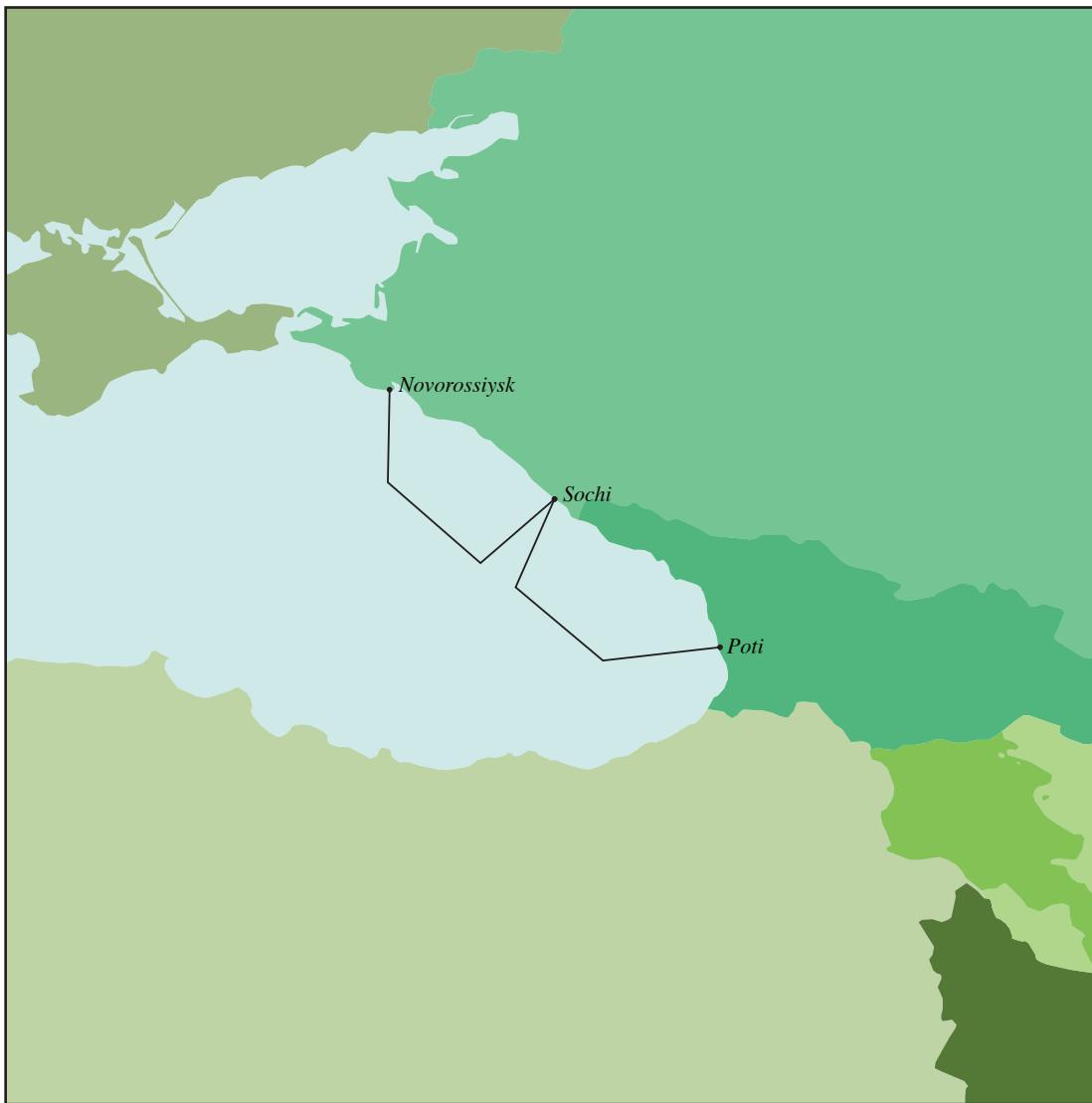
System Name:	GBI
Landing Points:	Alexandria (Egypt), Al Hidd (Bahrain), Al-Khobar (Saudi Arabia), Al Seeb (Oman), Bushehr (Iran), Doha (Qatar), Fujairah (United Arab Emirates), Jeddah (Saudi Arabia), Kuwait City (Kuwait), Mazara (Italy), Mumbai (India), Zafarana (Egypt)
RFS Year:	2011
Est. End of Service Date:	2036
Est. System Cost (US\$):	445000000
Total Length (kms):	4750
Design Capacity:	2.5 Tb/s
Fiber Information:	4 Fiber Pairs express route, 2 Fiber Pairs other landings, 128 x 10 Gb/s wavelengths per fiber pair
Owners:	Gulf Bridge International
System Supplier:	TE Subcom
Upgrader	Xtera
Upgrade Year	2012
Upgraded Capacity	100 Gb/s

GCN (GLOBAL CARIBBEAN NETWORK)

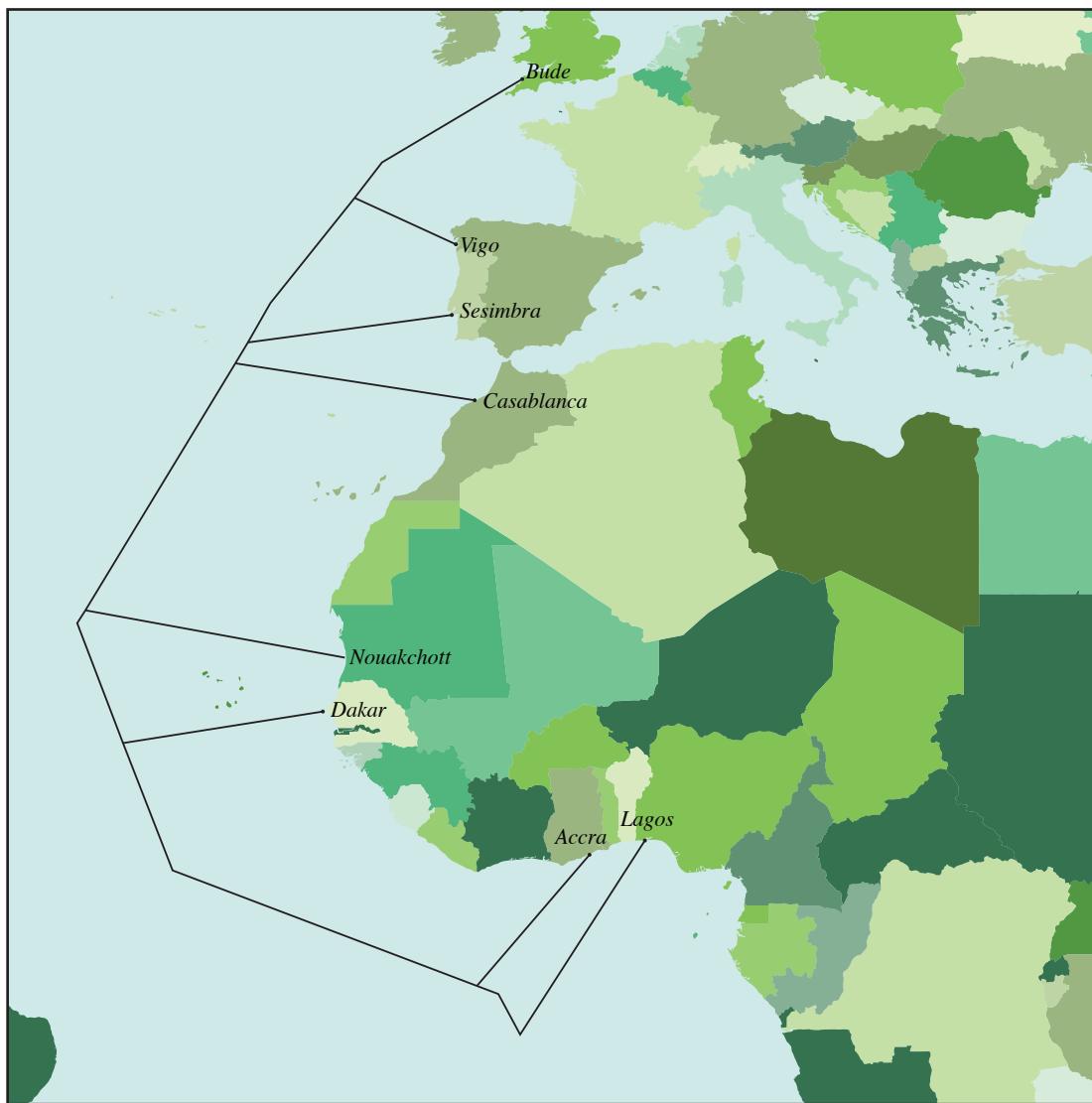


System Name:	GCN (Global Caribbean Network)
Landing Points:	Baie-Mahault (Guadeloupe), Baliff (Guadeloupe), Basseterre (St. Kitts & Nevis), Bridgetown (Barbados), Canefield (Dominica), Dickenson Bay (Antigua), Galisbay (St Martin), Hams Bluff (Virgin Islands), Kingstown (St. Vincent), Le Lamentin (Martinique), Macqueripe (Trinidad), Port Castries (St Lucia), Port Salines (Grenada)
RFS Year:	2006
Est. End of Service Date:	2031
Est. System Cost (US\$):	17520000
Total Length (kms):	2100
Initial Capacity:	1.2 Tb/s
Owners:	Global Caribbean Network

GEORGIA-RUSSIA



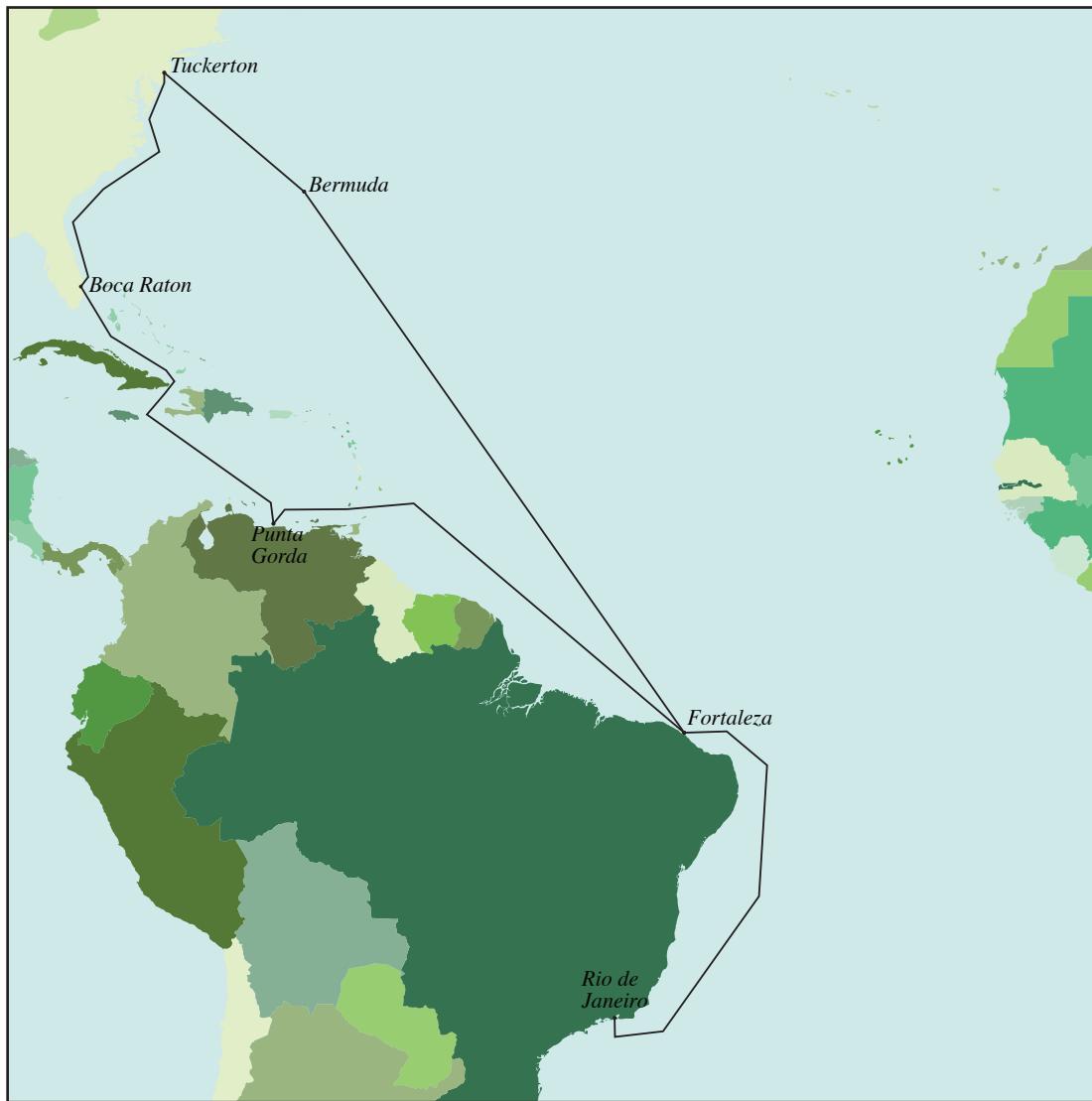
System Name:	Georgia-Russia
Landing Points:	Novorossiysk (Russia), Poti (Georgia), Sochi (Russia)
RFS Year:	2000
Est. End of Service Date:	2025
Total Length (kms):	488
Initial Capacity:	2.5 Gb/s
Fiber Information:	4 Fiber Pairs
Owners:	DanTelco, FOPTNET, Rostelecom



System Name:	GLO-1
Landing Points:	Accra (Ghana), Bude (United Kingdom), Casablanca (Morocco), Dakar (Senegal), Lagos (Nigeria), Nouakchott (Mauritania), Sesimbra (Portugal), Vigo (Spain)
RFS Year:	2010
Est. End of Service Date:	2034
Est. System Cost (US\$):	800000000
Total Length (kms):	9800
Initial Capacity:	640 Gb/s
Design Capacity:	2.5 Tb/s
Fiber Information:	2 Fiber Pairs
Owners:	Globacom Ltd.
System Supplier:	Alcatel Submarine Networks
System Installer:	Alcatel Submarine Networks
Cablesip:	Ile de Batz, IT Intrepid
Marine Surveyor:	Alcatel Submarine Networks

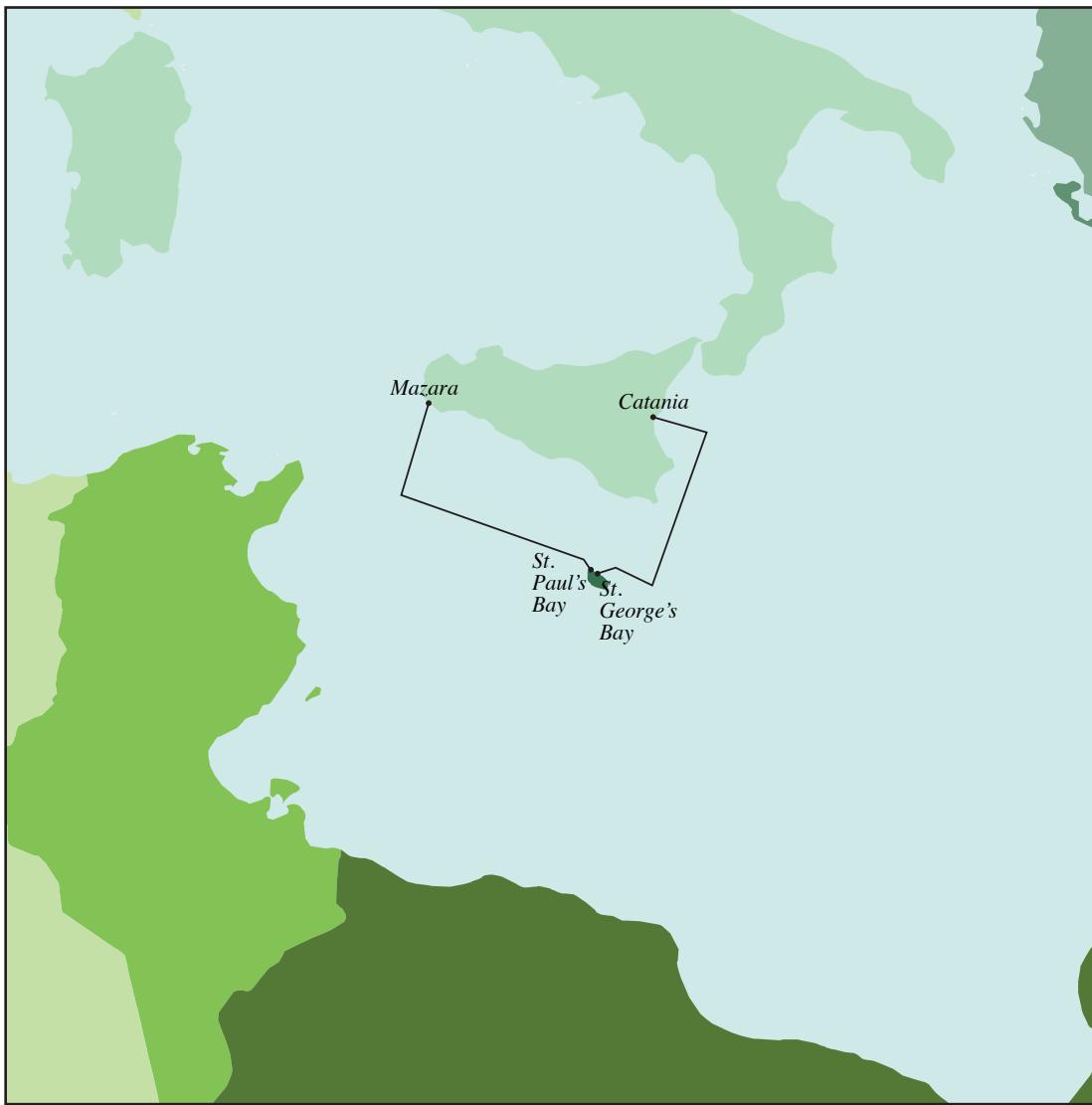


System Name:	Global Nexus
Landing Points:	Freeport (Bahamas), Halifax (Canada)
RFS Year:	2013
Est. End of Service Date:	2038
Est. System Cost (US\$):	115000000
Total Length (kms):	2500
Initial Capacity:	40 Gb/s
Design Capacity:	100 Gb/s
Owners:	Global Nexus Telecommunications Ltd
System Supplier:	TE SubCom

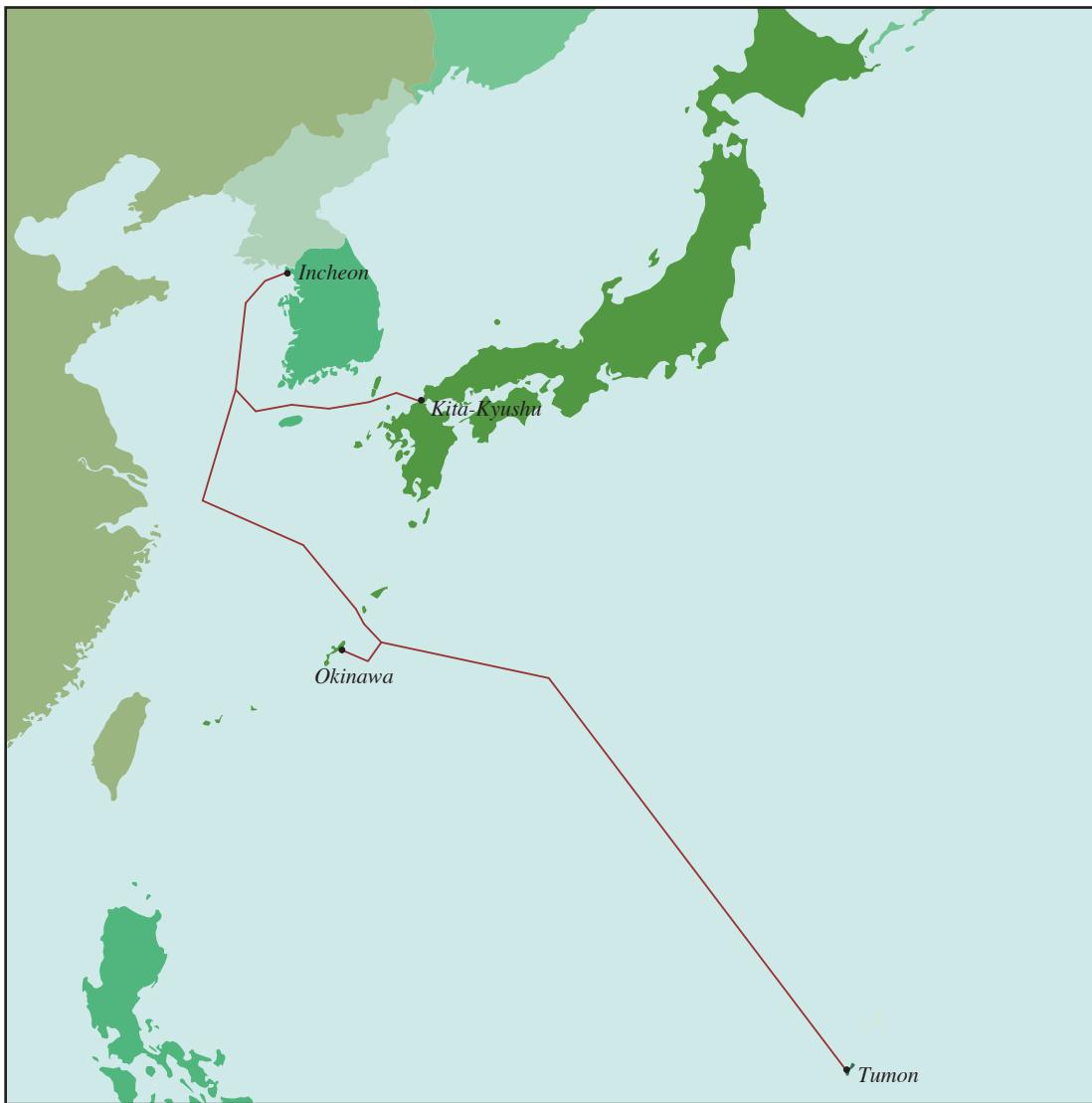


System Name:	Globenet
Landing Points:	Bermuda (Bermuda), Boca Raton (USA), Fortaleza (Brazil), Maiquetia (Venezuela), Rio de Janeiro (Brazil), Tuckerton (USA)
RFS Year:	2001
Est. End of Service Date:	2026
Est. System Cost (US\$):	970000000
Total Length (kms):	22500
Initial Capacity:	40 Gb/s
Design Capacity:	1.28 Tb/s
Owners:	Globenet
Upgrader	Xtera
Upgrade Year	2010
Upgraded Capacity	100 Gb/s

GO-1

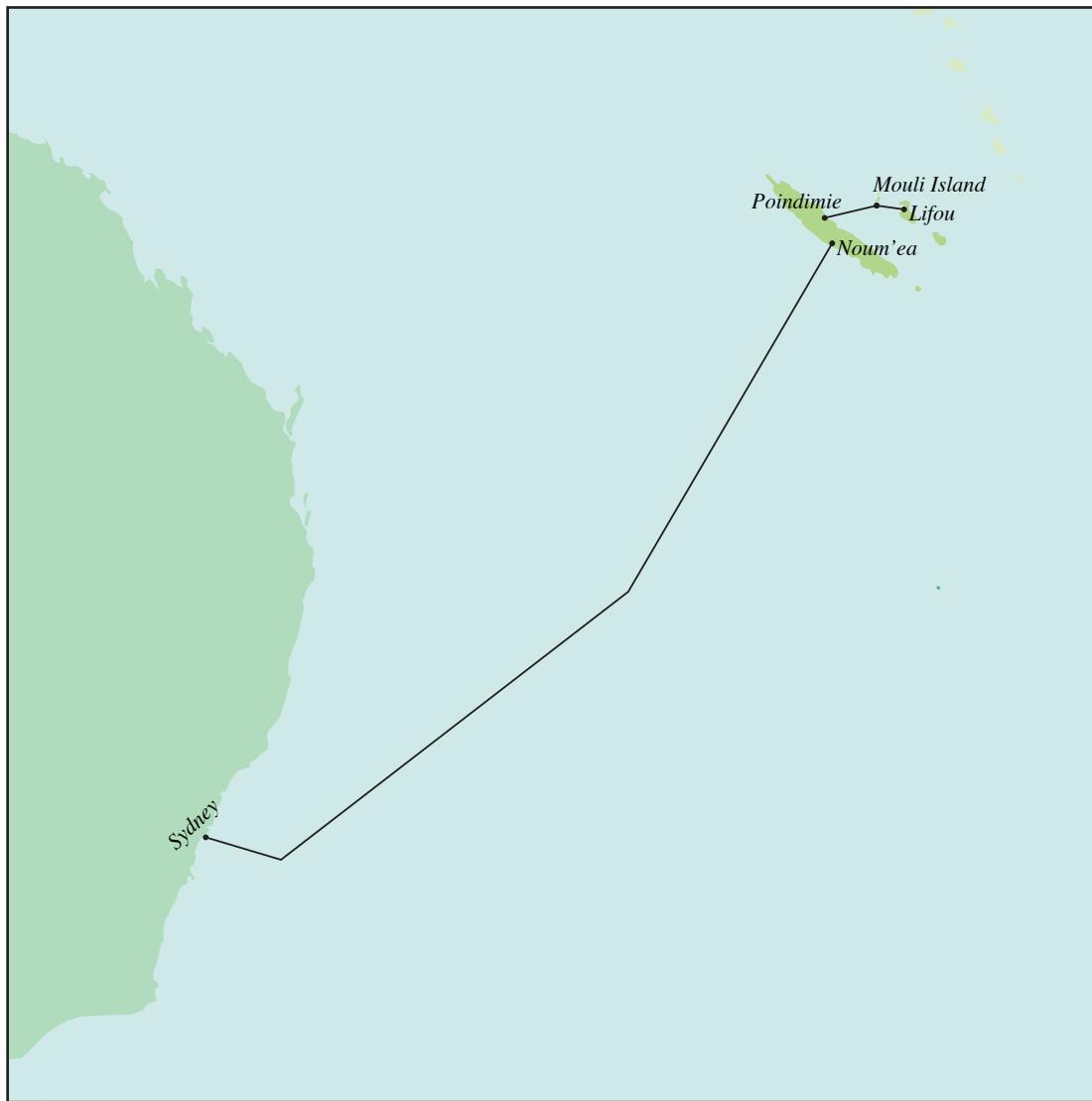


System Name:	GO-1
Landing Points:	Cantina (Sicily), Mazara (Italy), St George's Bay (Malta), St Paul's Bay (Malta)
RFS Year:	1995
Est. End of Service Date:	2020
Total Length (kms):	290
Initial Capacity:	20 Gb/s
Owners:	GO
System Supplier:	Alcatel-Lucent Submarine Networks
System Installer:	Elettra
Cablesip:	Telirì



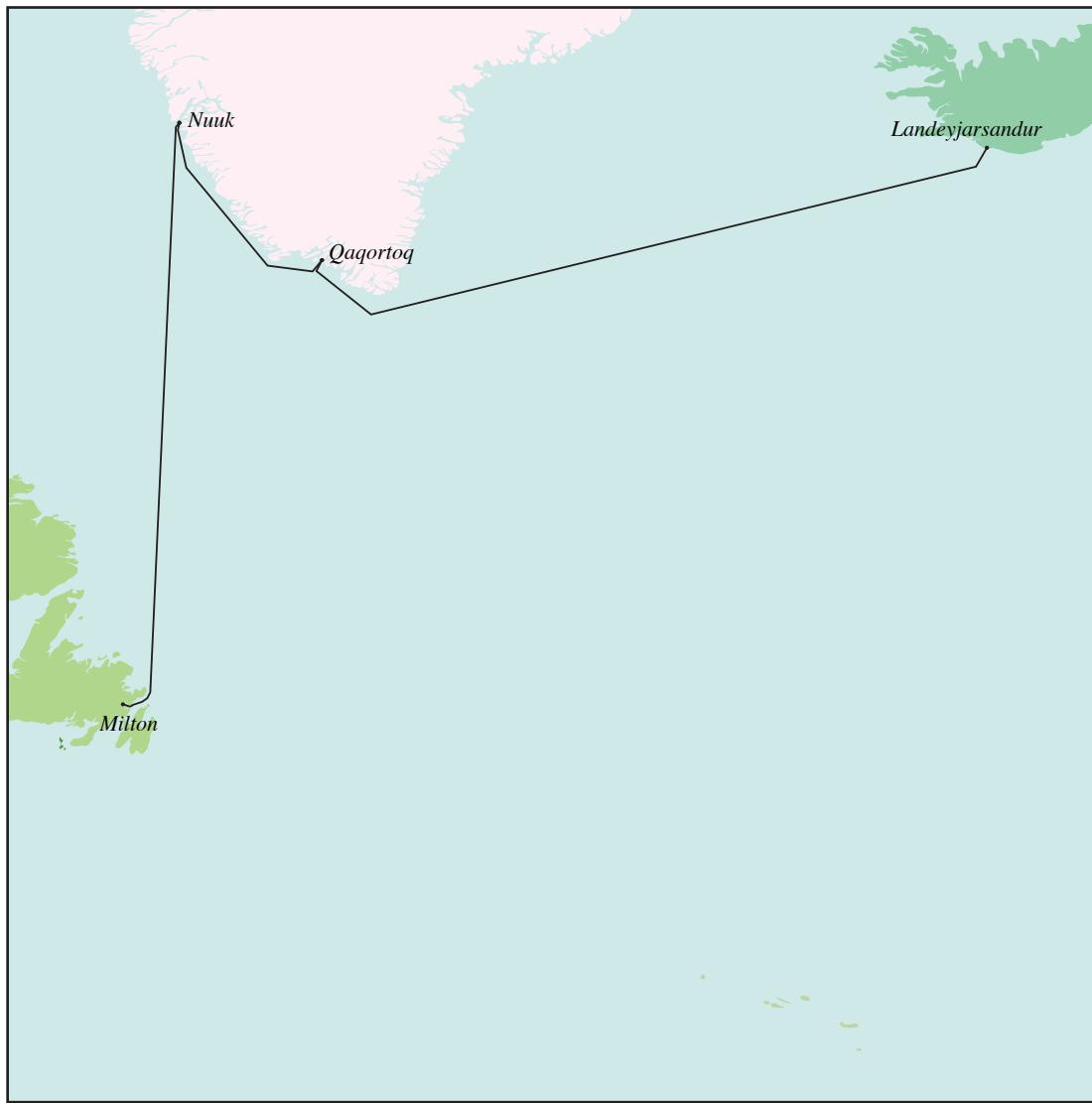
System Name:	GOKI
Landing Points:	Incheon (Korea), Kita-Kyushu (Japan), Okinawa Prefecture (Japan), Tumon (Guam)
Total Length (kms):	4200
Design Capacity:	80 Gb/s
Owners:	AT&T
Upgrader	Xtera

GONDWANA-1

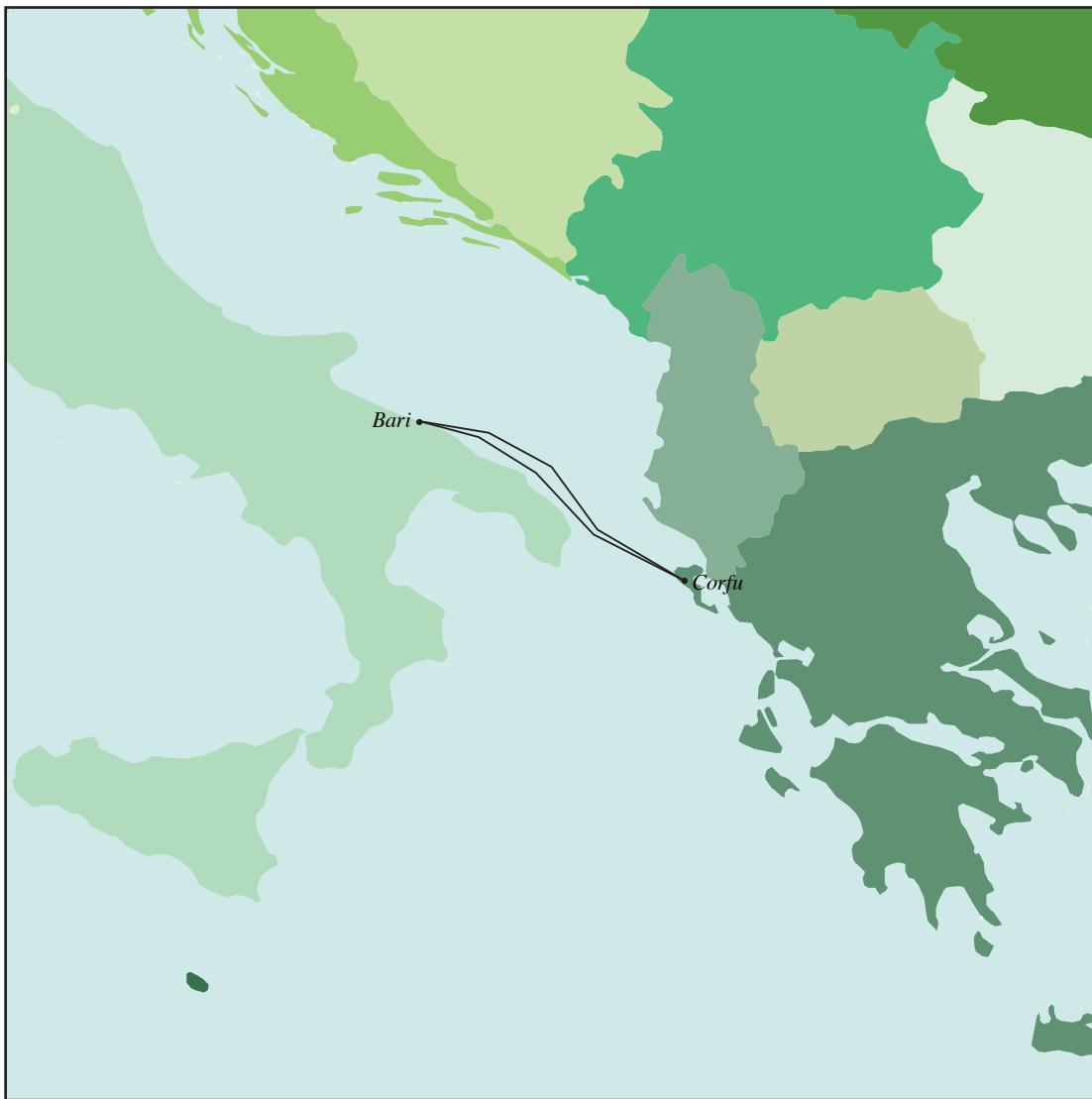


System Name:	Gondwana-1
Landing Points:	Lifou (New Caledonia), Mouli Island (New Caledonia), Nouméa (New Caledonia), Poindimie (New Caledonia), Sydney (Australia)
RFS Year:	2008
Est. End of Service Date:	2033
Est. System Cost (US\$):	57500000
Total Length (kms):	2150
Initial Capacity:	640 Gb/s
Owners:	Post and Telecommunications Office of New Caledonia
System Supplier:	Alcatel Submarine Networks
System Installer:	Alcatel Submarine Networks
Cablesip:	Ile de Re

GREENLAND CONNECT

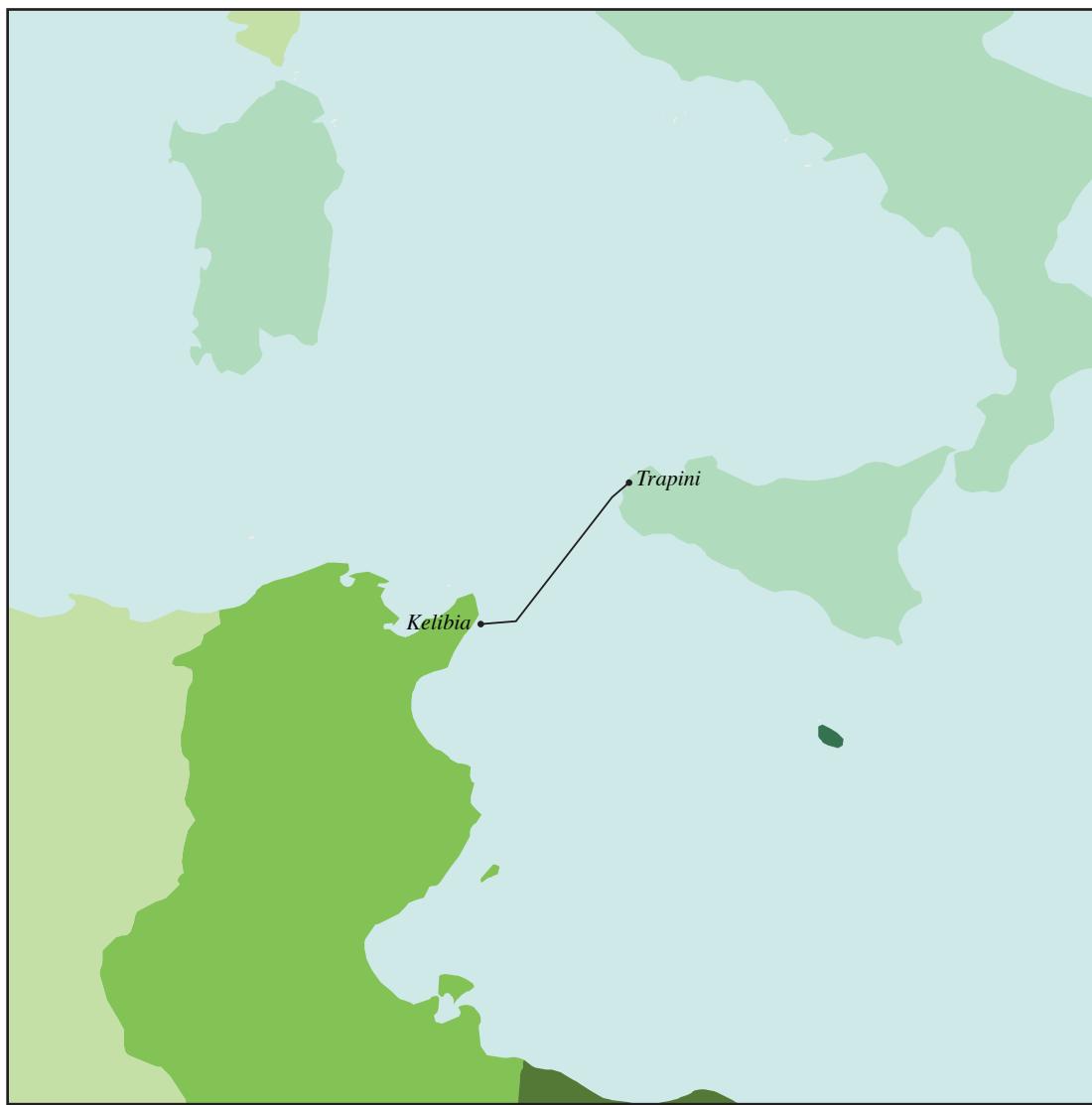


System Name:	Greenland Connect
Landing Points:	Landeyjarsandur (Iceland), Milton (Canada), Nuuk (Greenland), Qaqortoq (Greenland)
RFS Year:	2009
Est. End of Service Date:	2034
Est. System Cost (US\$):	126000000
Total Length (kms):	4600
Initial Capacity:	20 Gb/s
Design Capacity:	1.28 Tb/s
Fiber Information:	2 Fiber Pairs
Owners:	Tele Greenland
System Supplier:	Alcatel Lucent Submarine Networks
Cablesip:	Maersk Responder, Blue Castor, Ile de Sein
Marine Surveyor:	Elettra



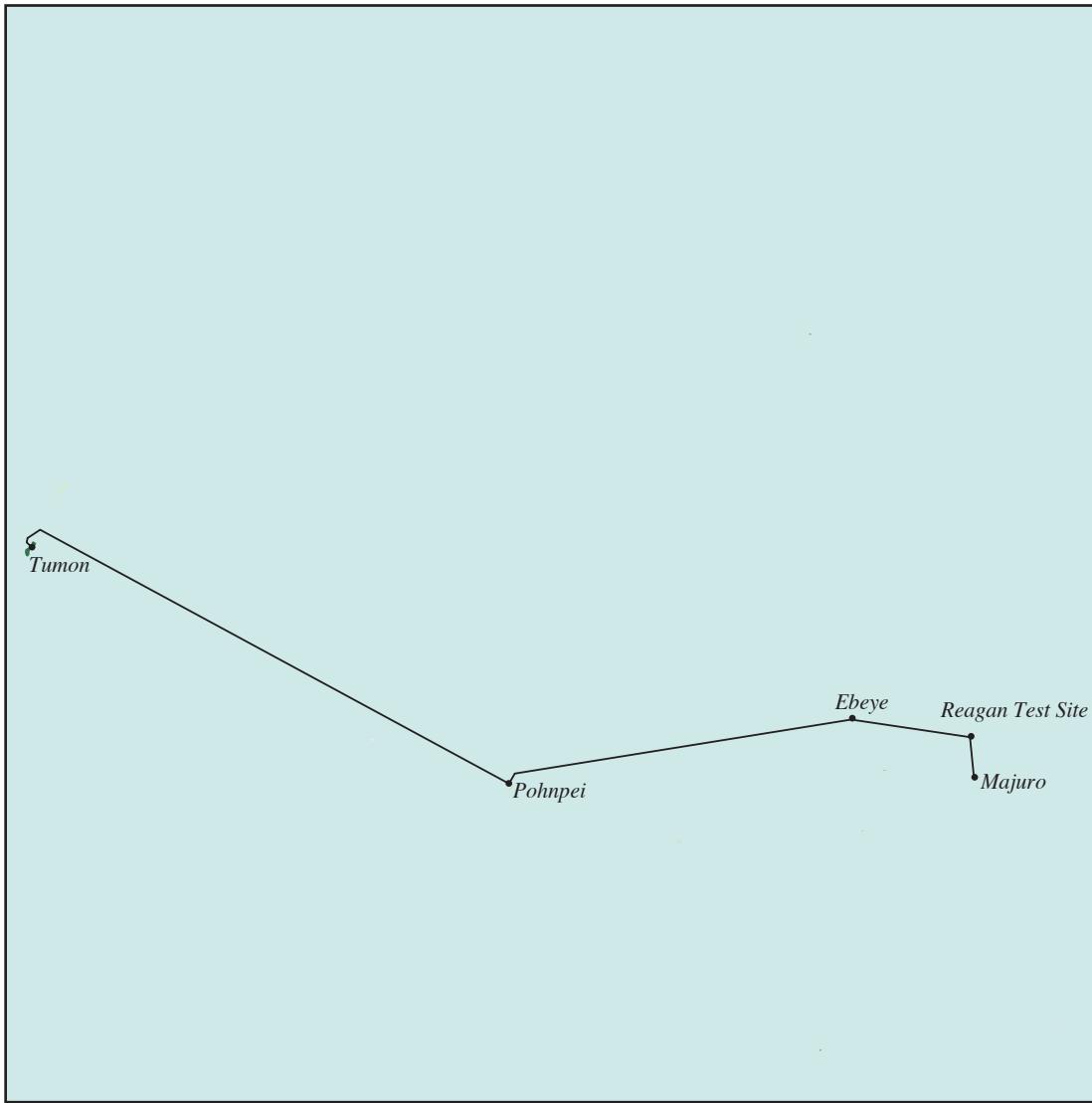
System Name:	GWEN
Landing Points:	Bari (Italy), Corfu (Greece)
RFS Year:	2004
Est. End of Service Date:	2029
Total Length (kms):	647
Fiber Information:	4 Fiber pairs
Owners:	OTE

HANNIBAL

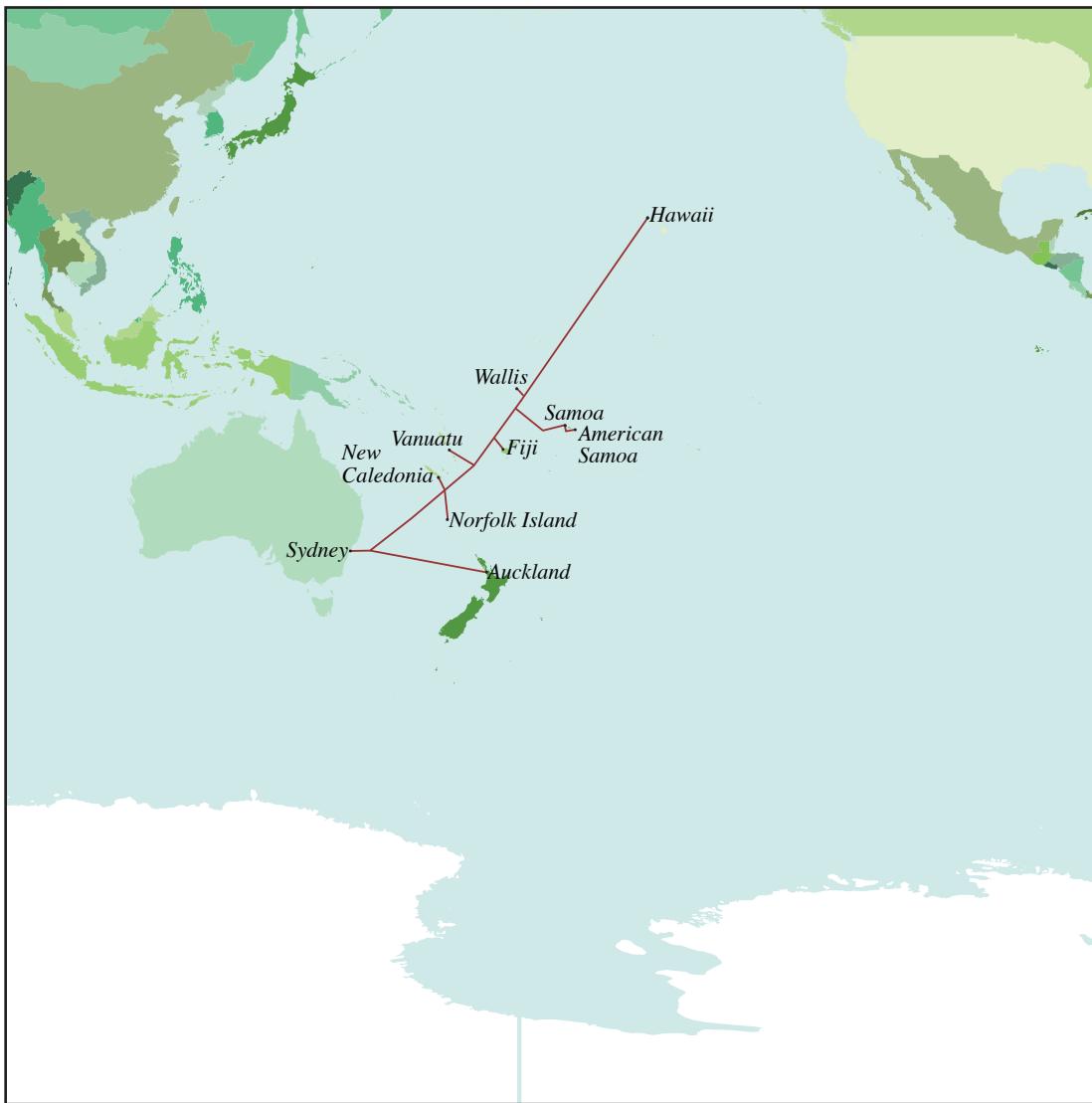


System Name:	Hannibal
Landing Points:	Kelibia (Tunisia), Trapini (Italy)
RFS Year:	2009
Est. End of Service Date:	2034
Total Length (kms):	180
Initial Capacity:	40 Gb/s
Design Capacity:	3.2 Tb/s
Owners:	Tunisie Telecom (Tunisia)
System Supplier:	Huawei Marine
System Installer:	Global Marine Systems Limited
Cablesip:	Sovereign

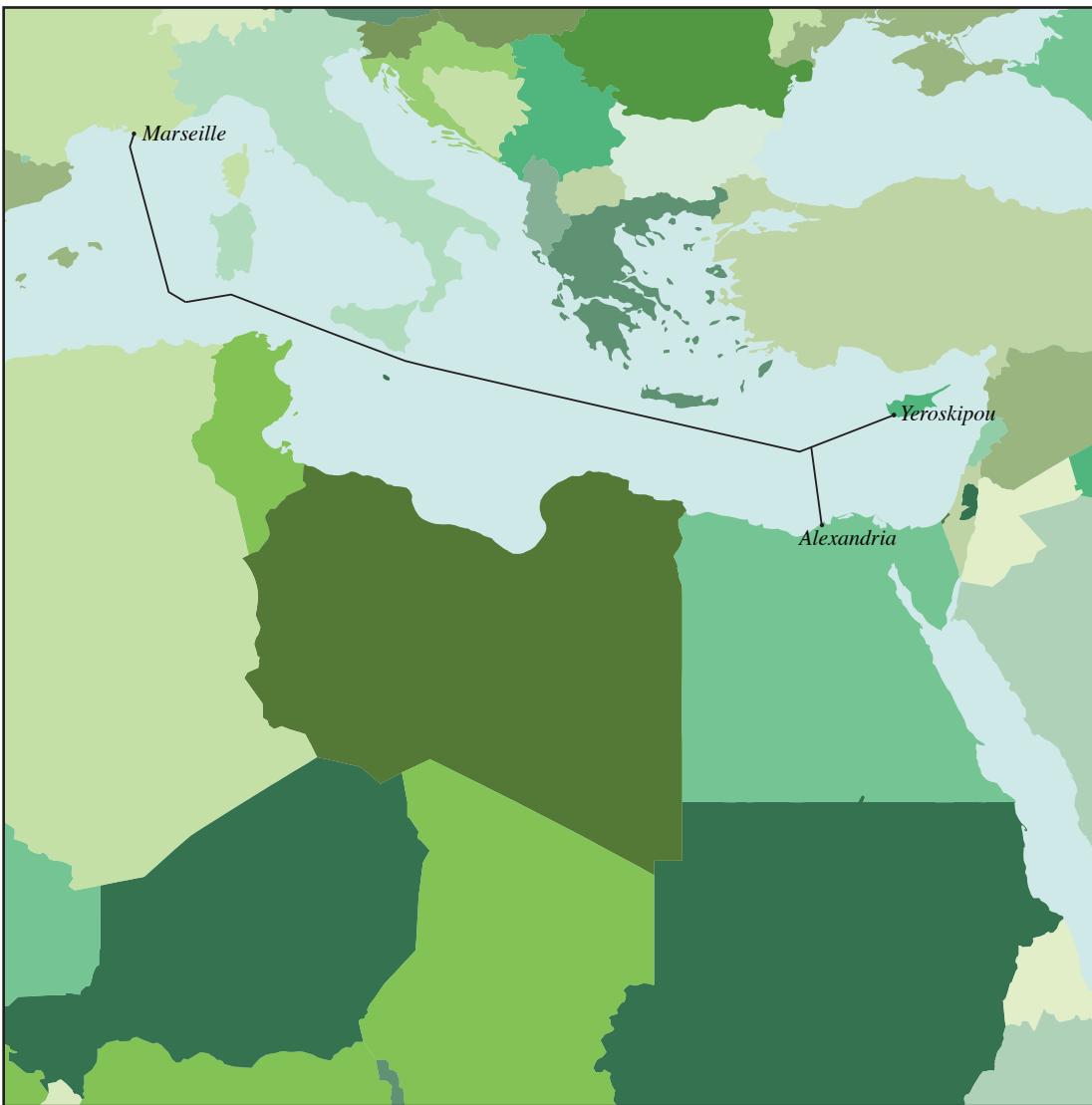
HANTRU-1



System Name:	Hantru-1
Landing Points:	Ebeye (Kwajalein), Majuro (Marshall Islands), Pohnpei (Micronesia), Reagan Test Site (Kwajalein), Tumon (Guam)
RFS Year:	2010
Est. End of Service Date:	2035
System Supplier:	TE SubCom

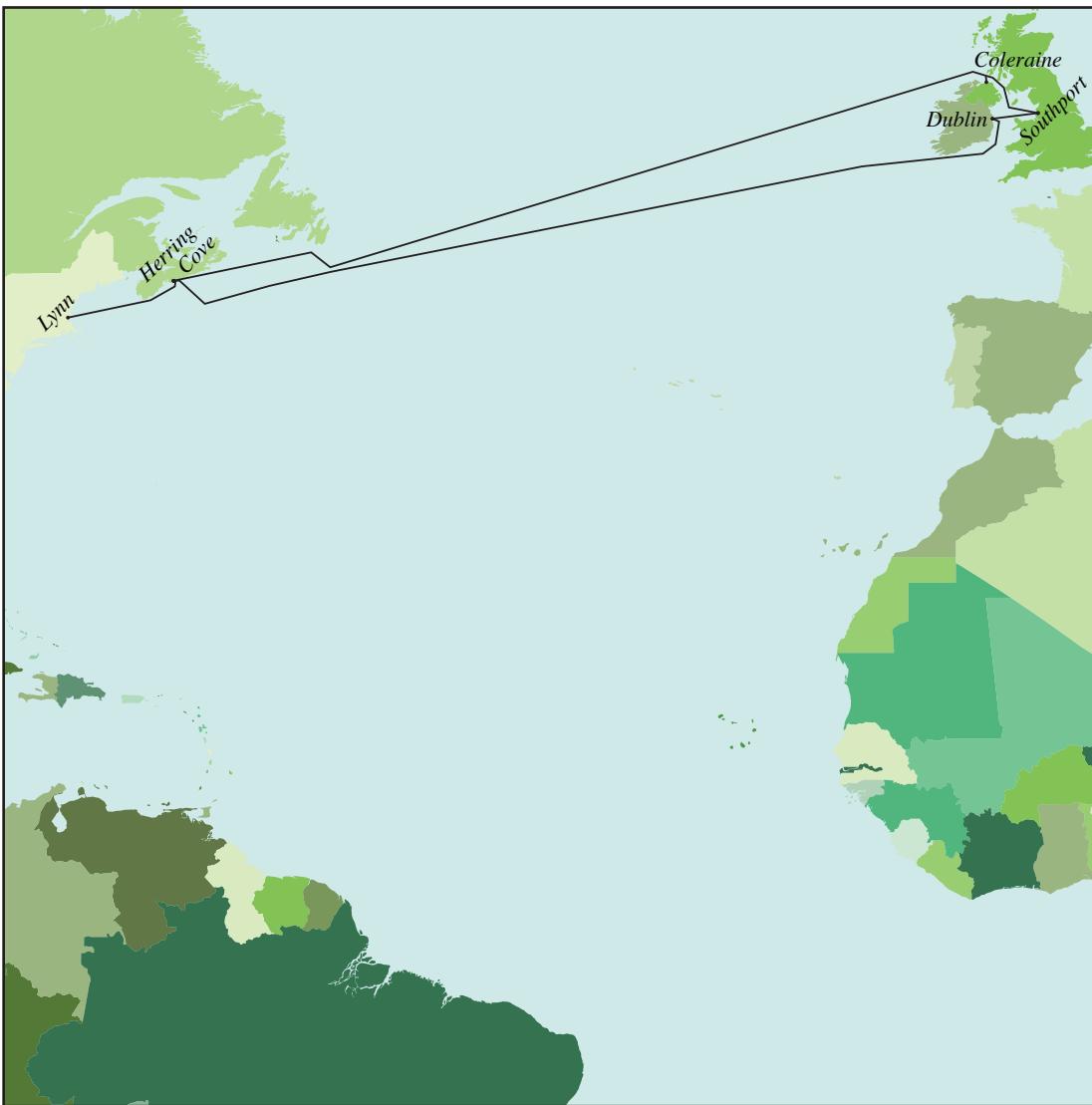


System Name:	Hawaiki
Landing Points:	Auckland (New Zealand), Sydney (Australia), Hawaii (USA), Norfolk Island, New Caledonia, Vanuatu, Fiji, Wallis, Samoa, American Samoa
RFS Year:	2015
Est. End of Service Date:	2040
Est. System Cost (US\$):	400000000
Total Length (kms):	10000
Initial Capacity:	8 Tb/s
Fiber Information:	2 Fiber Pairs
Owners:	Hawaiki Cable Ltd.



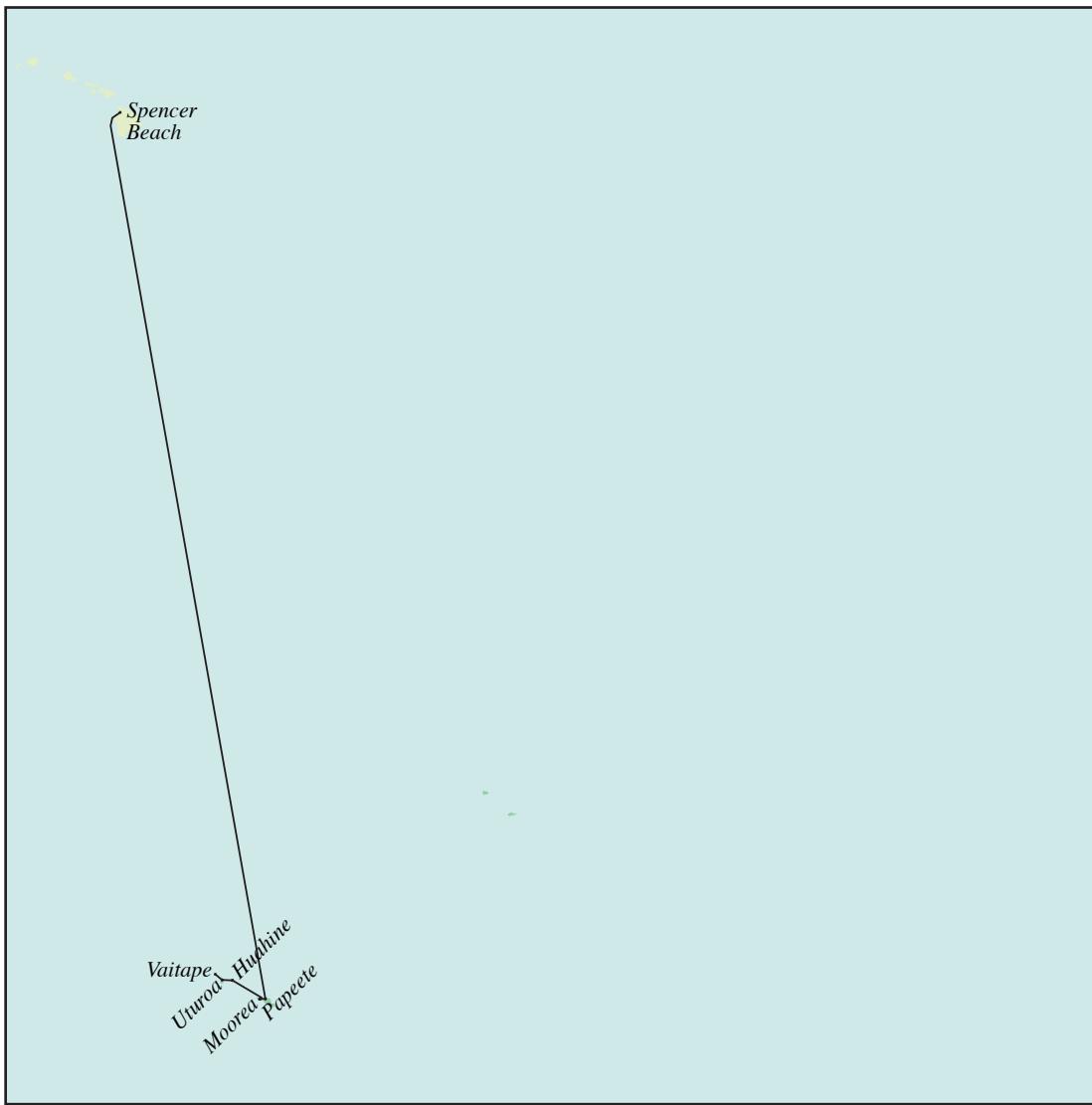
System Name:	Hawk
Landing Points:	Alexandria (Egypt), Anatoliko (Cyprus), Marseille (France)
RFS Year:	2011
Est. End of Service Date:	2035
Est. System Cost (US\$):	249371314
Total Length (kms):	3181
Initial Capacity:	100 Gb/s
Design Capacity:	2.7 Tb/s
Owners:	Reliance Globalcom

HIBERNIA ATLANTIC

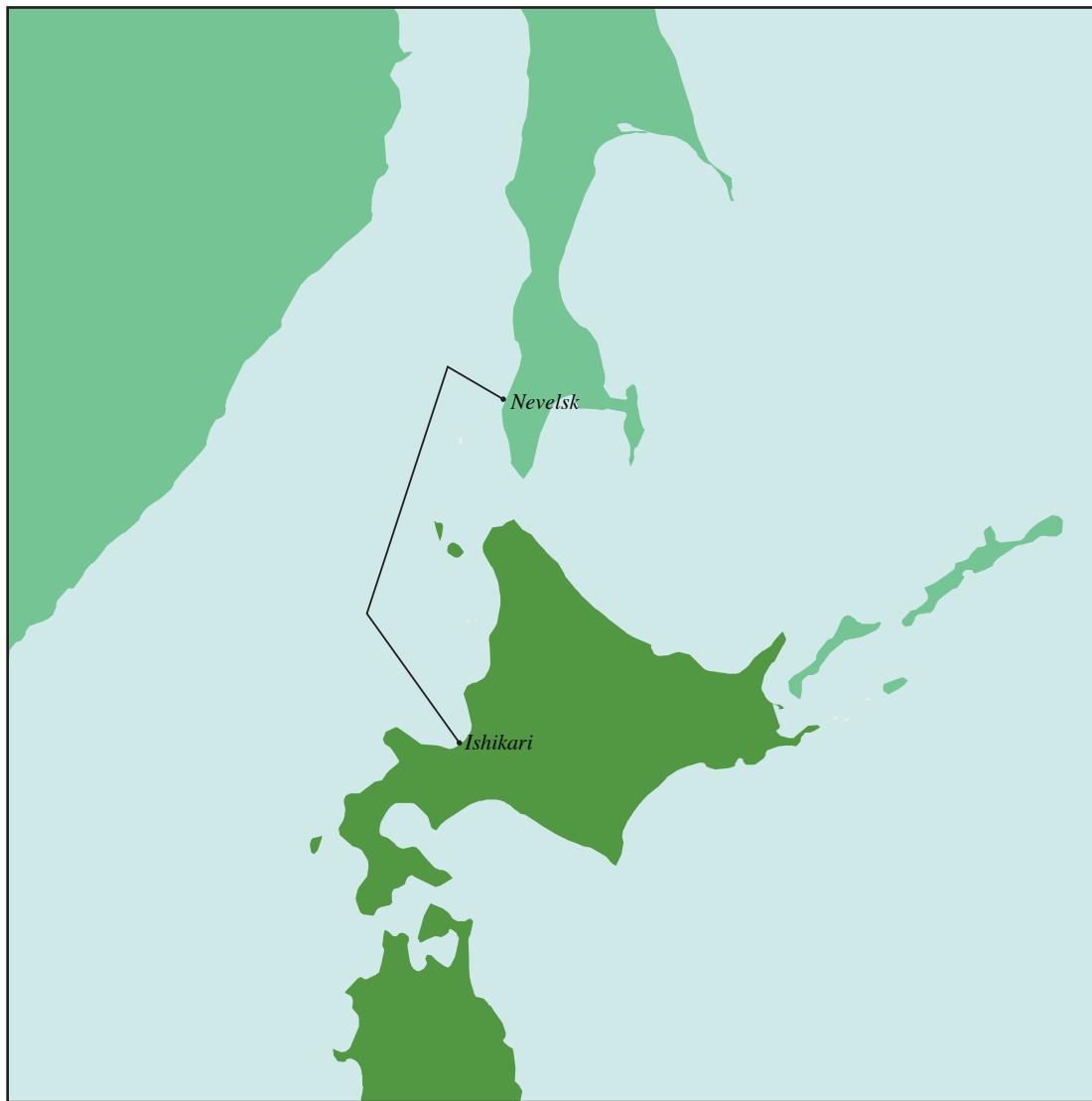


System Name:	Hibernia Atlantic
Landing Points:	Coleraine (Ireland), Dublin (Ireland), Herring Cove (Canada), Lynn (USA), Southport (United Kingdom)
RFS Year:	2001
Est. End of Service Date:	2026
Total Length (kms):	12111
Initial Capacity:	10.16 Tb/s
Owners:	Columbia Ventures Corporation
System Supplier:	Tyco Telecommunications SSI
System Installer:	FCR
Cablesip:	Vercors, Iberus, Nordic King, Teneo, Dock Express 20, Global Mariner, Atlantida
Upgrader	Huawei Marine Networks
Upgrade Year	2011
Upgraded Capacity	100 Gb/s

HONOTUA



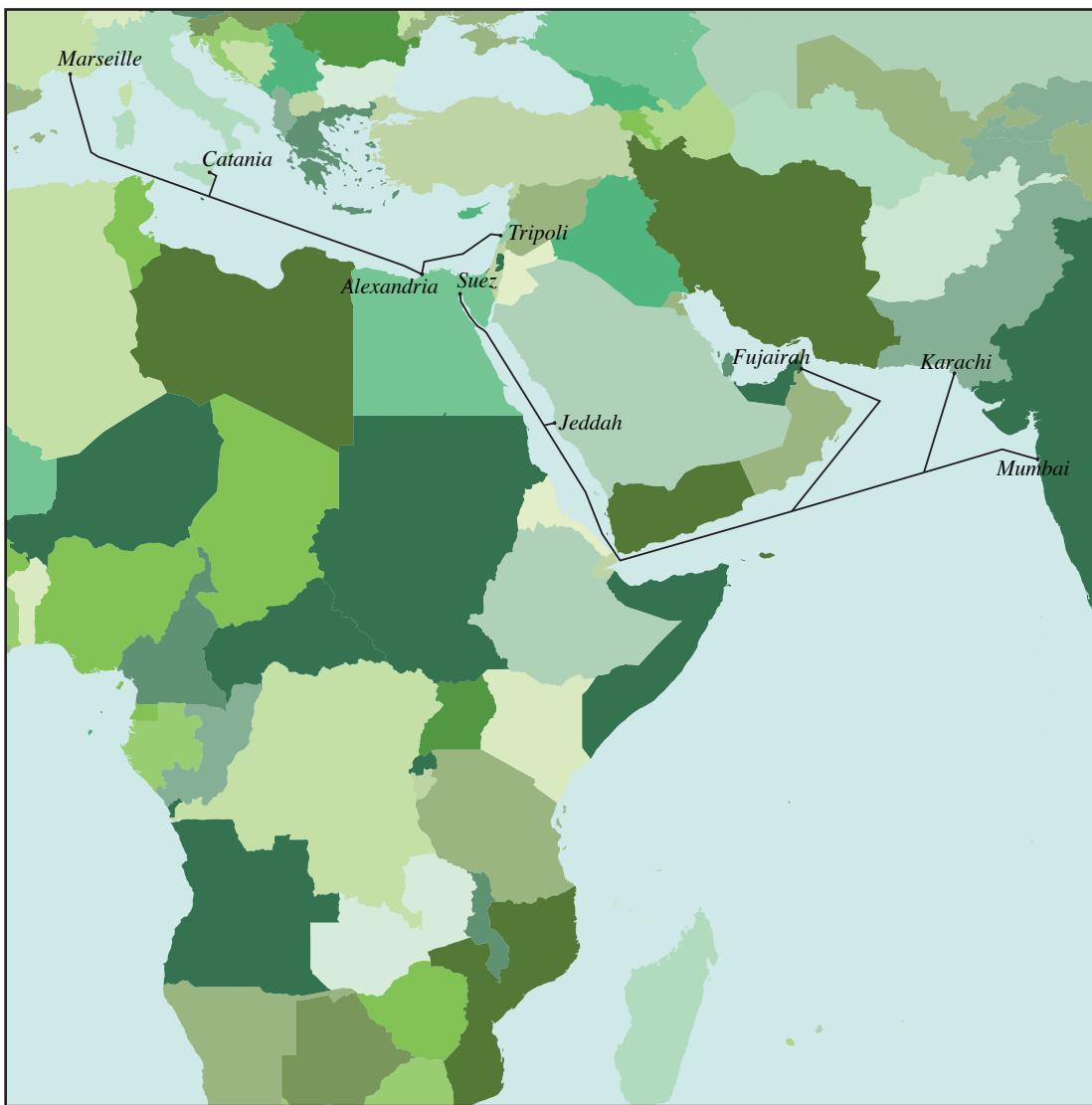
System Name:	Honotua
Landing Points:	Huahine (French Polynesia), Moorea (French Polynesia), Papeete (French Polynesia), Spencer Beach (USA), Uturoa (Raiatea, French Polynesia), Vaitape (Bora Bora, French Polynesia)
RFS Year:	2009
Est. End of Service Date:	2034
Est. System Cost (US\$):	122000000
Total Length (kms):	4619
Initial Capacity:	640 Gb/s
Owners:	OPT French Polynesia
System Supplier:	Alcatel-Lucent Submarine Networks



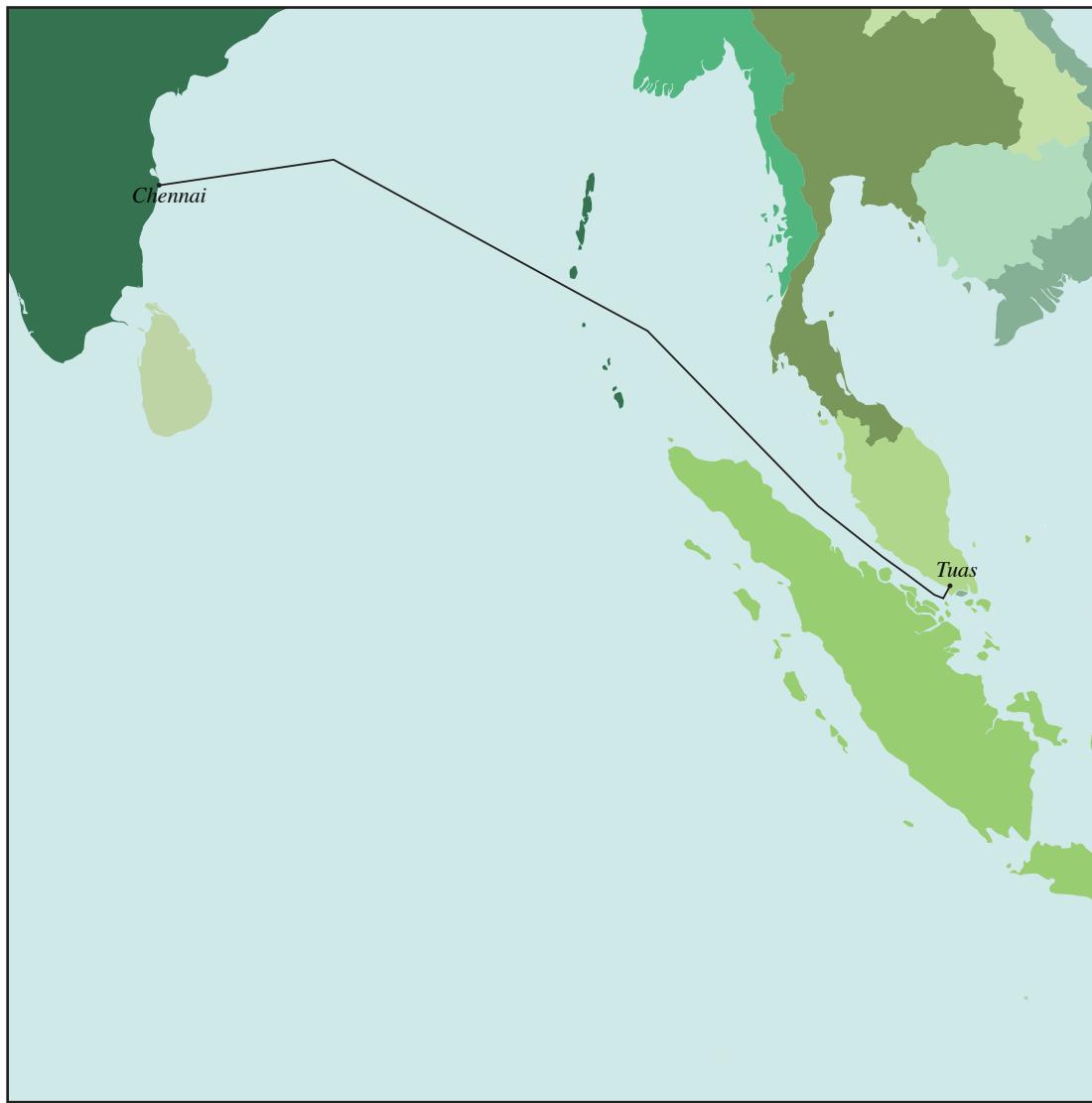
System Name:	HSCS
Landing Points:	Ishikari (Japan), Nevelsk (Russia)
RFS Year:	2008
Est. End of Service Date:	2033
Total Length (kms):	570
Initial Capacity:	640 Gb/s
Owners:	NTT Communications, TTK
System Installer:	KDD
Cablesip:	Subaru



System Name:	Hugo
Landing Points:	Guernsey (Guernsey), Lannion (France), Porthcurno (United Kingdom)
RFS Year:	2006
Est. End of Service Date:	2031
Est. System Cost (US\$):	11960000
Initial Capacity:	3.3 Tb/s
Owners:	C&W
System Supplier:	Alcatel Submarine Networks
System Installer:	Tyco SSI
Cablesip:	Tycom Reliance

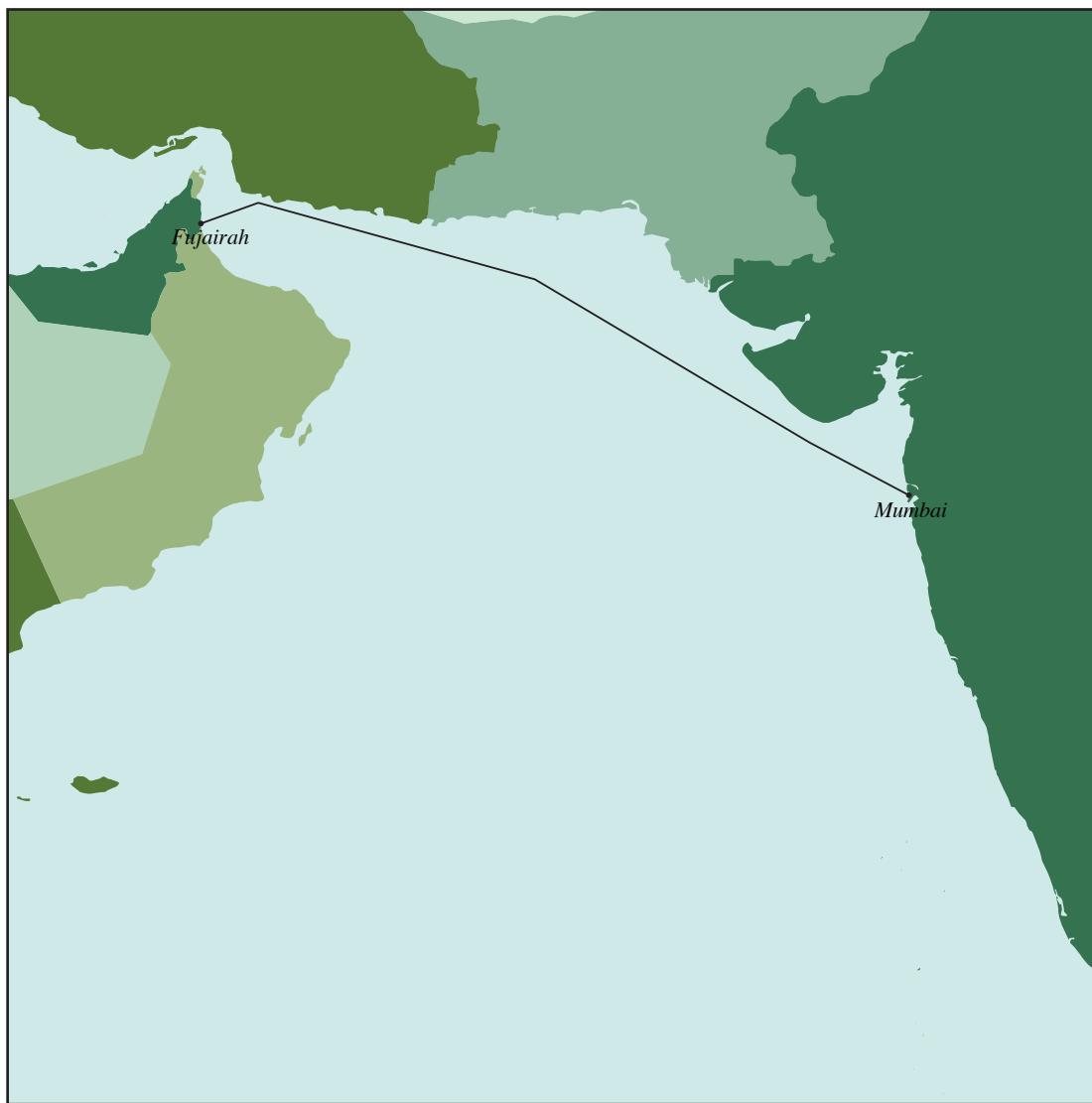


System Name:	I-ME-WE
Landing Points:	Alexandria (Egypt), Catania (Italy), Fujairah (United Arab Emirates), Jeddah (Saudi Arabia), Karachi (Pakistan), Marseille (France), Mumbai (India), Suez (Egypt), Tripoli (Lebanon)
RFS Year:	2010
Est. End of Service Date:	2035
Total Length (kms):	13000
Initial Capacity:	520 Gb/s
Design Capacity:	3.84 Tb/s
Owners:	Bharti Airtel, Etisalat, France Telecom, Ogero (Lebanon), PTCL (Pakistan), STC (Saudi Arabia), Tata Communications, Telecom Egypt, Telecom Italia Sparkle
System Supplier:	Alcatel-Lucent Submarine Networks
Cablesip:	Cable Innovator
Marine Surveyor:	Fugro
Upgrader	Mitsubishi
Upgrade Year	2012
Upgraded Capacity	40 Gb/s



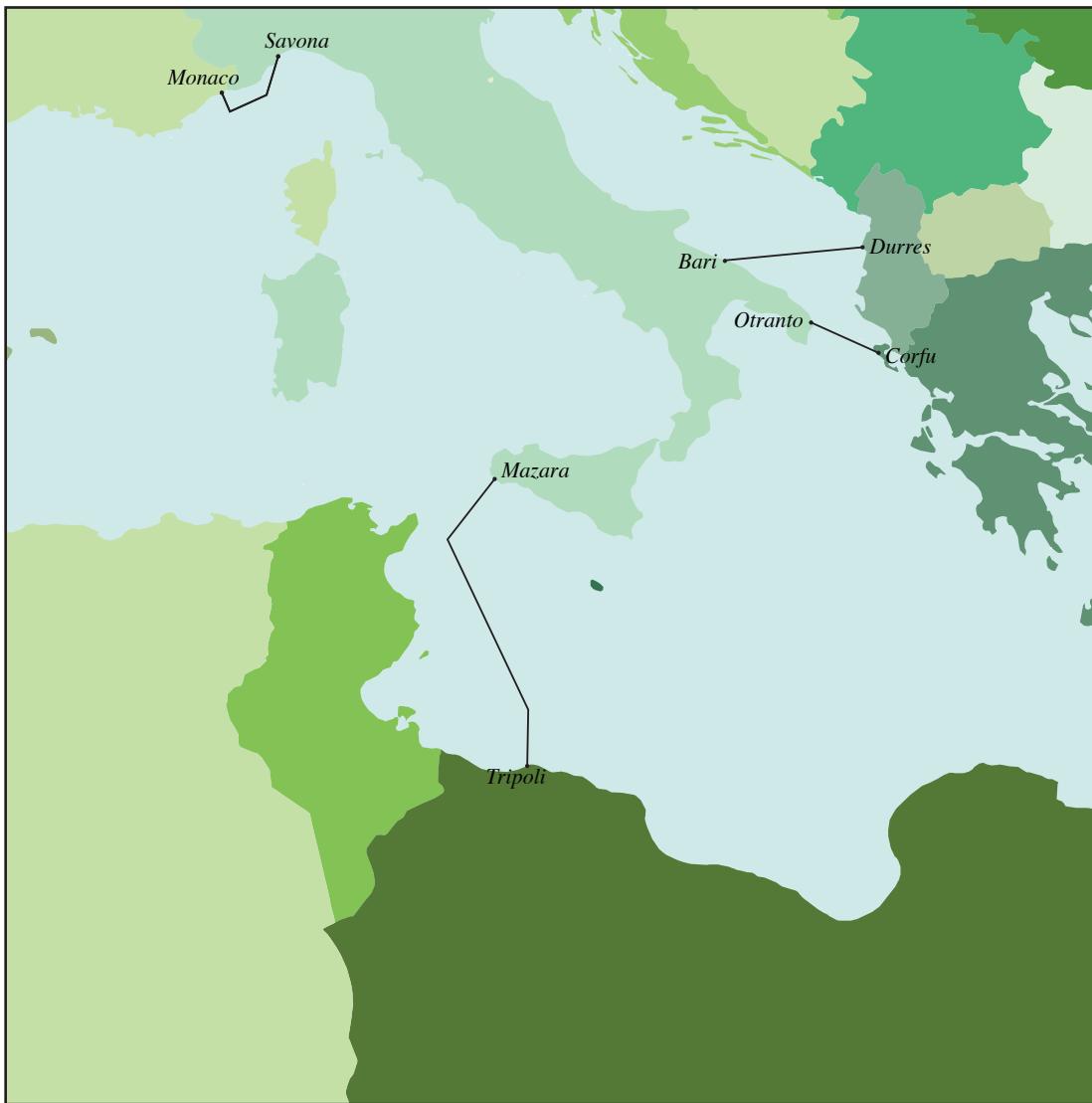
System Name:	i2i
Landing Points:	Chennai (India), Tuas (Singapore)
RFS Year:	2002
Est. End of Service Date:	2027
Total Length (kms):	3200
Design Capacity:	8.4 Tb/s
Fiber Information:	8 Fiber Pairs, 105 wl, 10 Gb/s per wavelength
Owners:	Bharti Airtel
Marine Surveyor:	C&C Technologies

INDIA-UAE



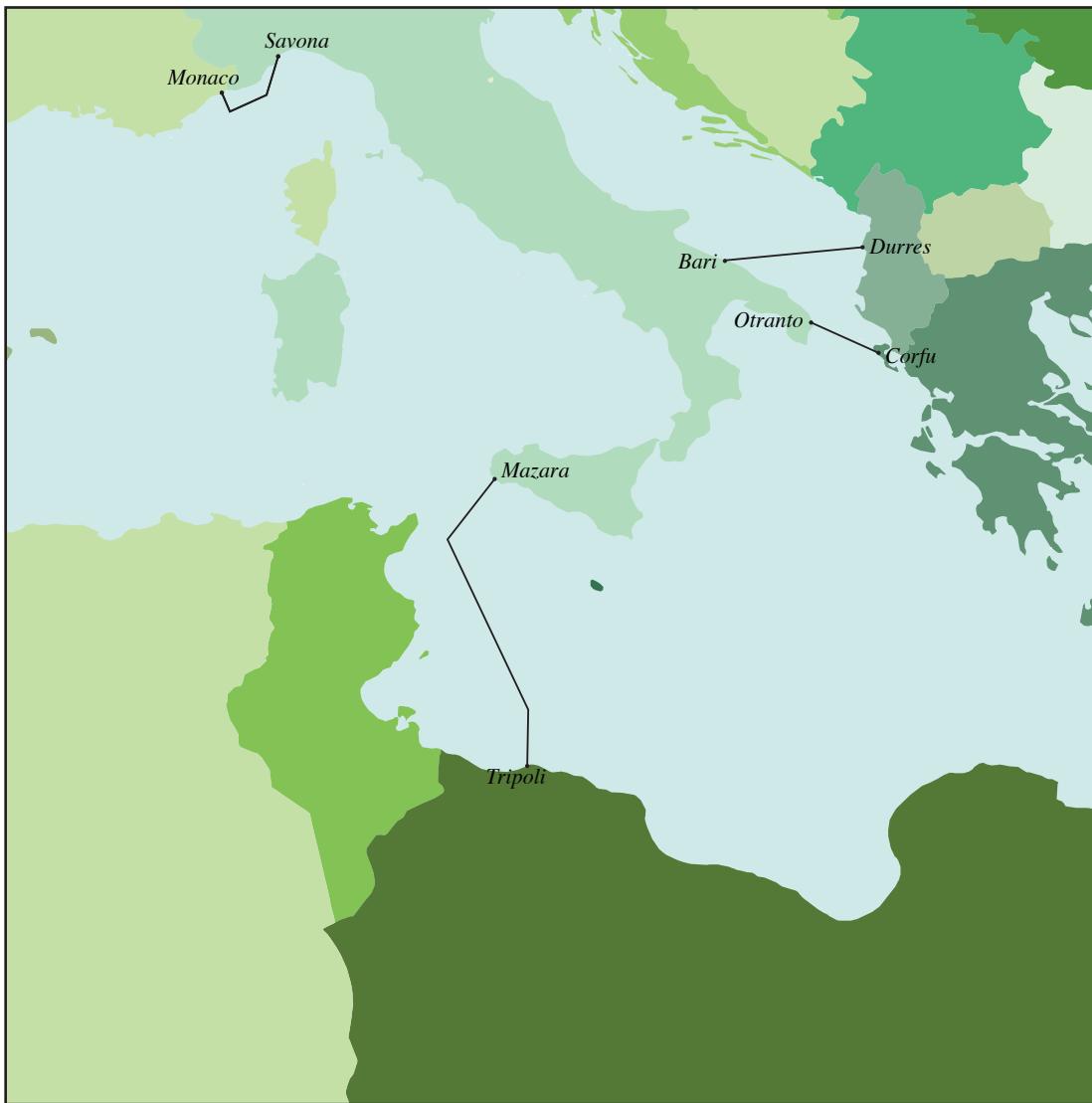
System Name:	India-UAE
Landing Points:	Fujairah (United Arab Emirates), Mumbai (India)
RFS Year:	1987
Est. End of Service Date:	2012
Total Length (kms):	1964
Initial Capacity:	2.5 Gb/s
Owners:	Tata Communications

ITALY-ALBANIA



System Name:	Italy-Albania
Landing Points:	Bari (Italy), Durres (Albania)
RFS Year:	1998
Est. End of Service Date:	2023
Total Length (kms):	236
Initial Capacity:	2.5 Gb/s
Fiber Information:	1 Fiber Pair
Owners:	Telecom Italia Sparkle

ITALY-GREECE



System Name: Italy-Greece

Landing Points: Corfu (Greece), Otranto (Italy)

RFS Year: 1995

Est. End of Service Date: 2020

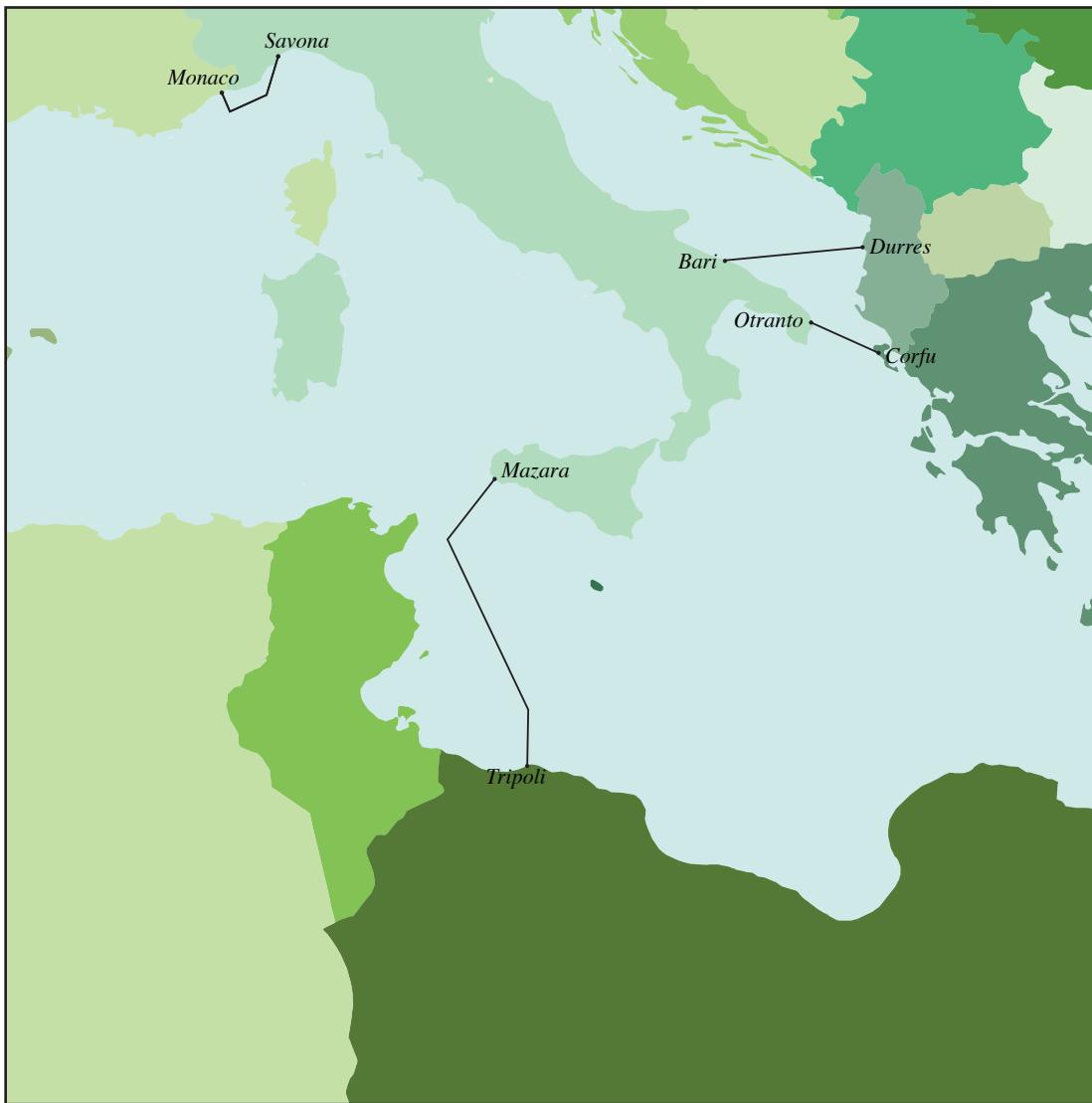
Total Length (kms): 161

Initial Capacity: 1.695 Gb/s

Fiber Information: 4 Fiber Pairs

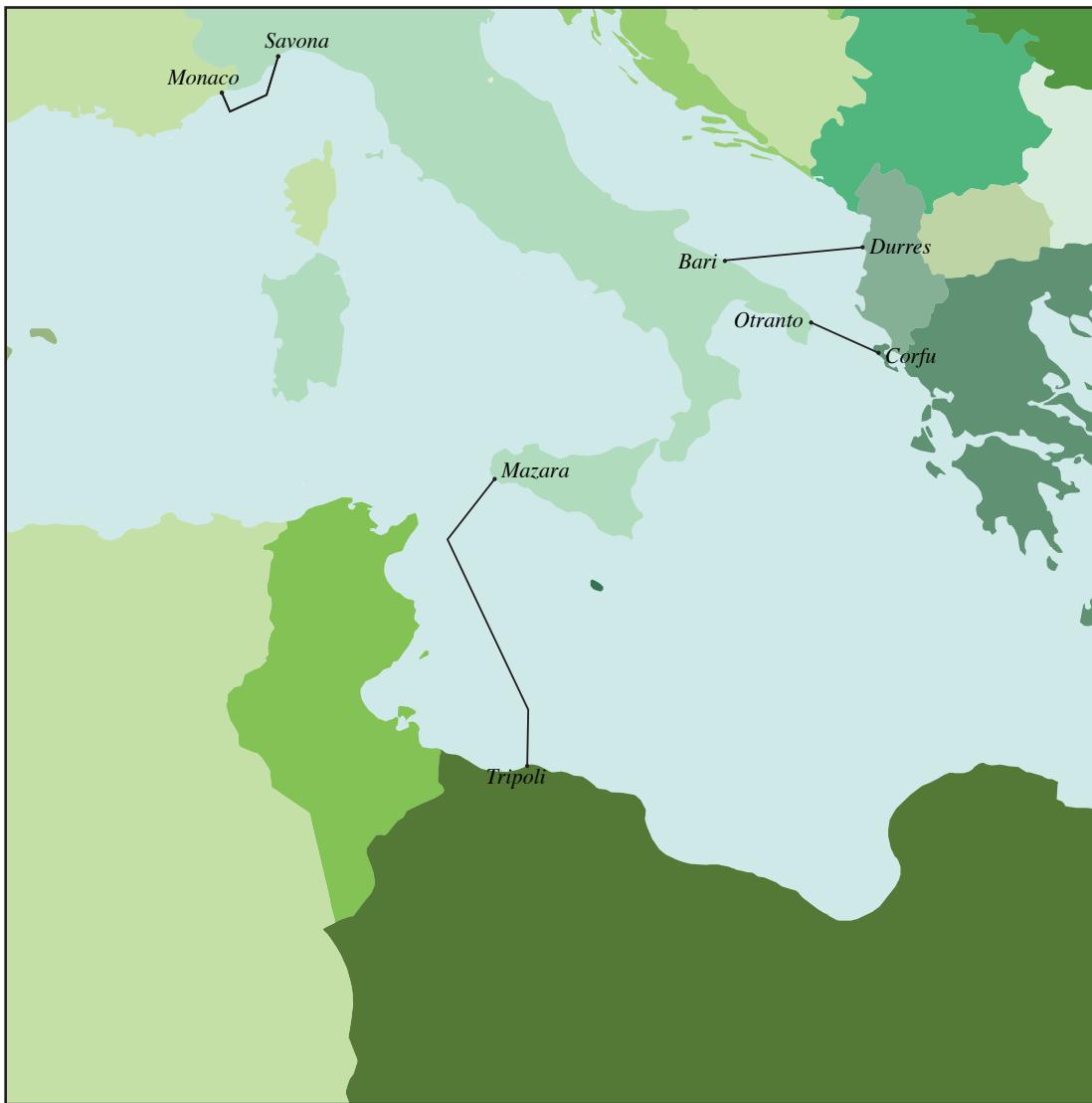
Owners: Telecom Italia

ITALY-LIBYA



System Name:	Italy-Libya
Landing Points:	Mazara (Italy), Tripoli (Libya)
RFS Year:	2000
Est. End of Service Date:	2025
Total Length (kms):	1170
Initial Capacity:	2.5 Gb/s
Fiber Information:	2 Fiber Pairs
Owners:	Telecom Italia

ITALY-MONACO



System Name:	Italy-Monaco
Landing Points:	Monaco (Monaco), Savona (Italy)
RFS Year:	1995
Est. End of Service Date:	2020
Total Length (kms):	157
Initial Capacity:	565 Mb/s
Fiber Information:	1 Fiber Pair
Owners:	Telecom Italia



System Name:	ITUR
Landing Points:	Istanbul (Turkey), Novorossiysk (Russia), Odesa (Ukraine), Palermo (Italy)
RFS Year:	1996
Est. End of Service Date:	2021
Total Length (kms):	3466
Initial Capacity:	1.6 Tb/s
Owners:	Telecom Italia
System Supplier:	Pirelli, AT&T SSI
System Installer:	FCR
Cablesip:	Vercors, Dock Express 20

JAKA2DELEMA



System Name:	JaKa2DeLeMa
Landing Points:	Bandjermasin (Indonesia), Benculuk (Indonesia), Jember (Indonesia), Ketapang (Indonesia), Mataram (Indonesia), Pangkalanbun (Indonesia), Pontianak (Indonesia), Sangata (Indonesia), Toweli (Indonesia)
RFS Year:	2010
Est. End of Service Date:	2035
Est. System Cost (US\$):	116000000
Owners:	PT Telekomunikasi Indonesia
System Supplier:	NSW, Fujitsu

JAKABARE



System Name:	JAKABARE
Landing Points:	Batam (Indonesia), Jakarta (Indonesia), Pontianak (Indonesia), Tuas (Singapore)
RFS Year:	2009
Est. End of Service Date:	2034
Total Length (kms):	1330
Initial Capacity:	160 Gb/s
Design Capacity:	1.28 Tb/s
Owners:	Indosat
System Supplier:	NEC
System Installer:	Global Marine Systems Limited
Cablesip:	Cable Innovator



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- FM 214 and ISR License Holder
- Privately Funded
- Global Coverage (US, UK, UAE, Hong Kong, Singapore)

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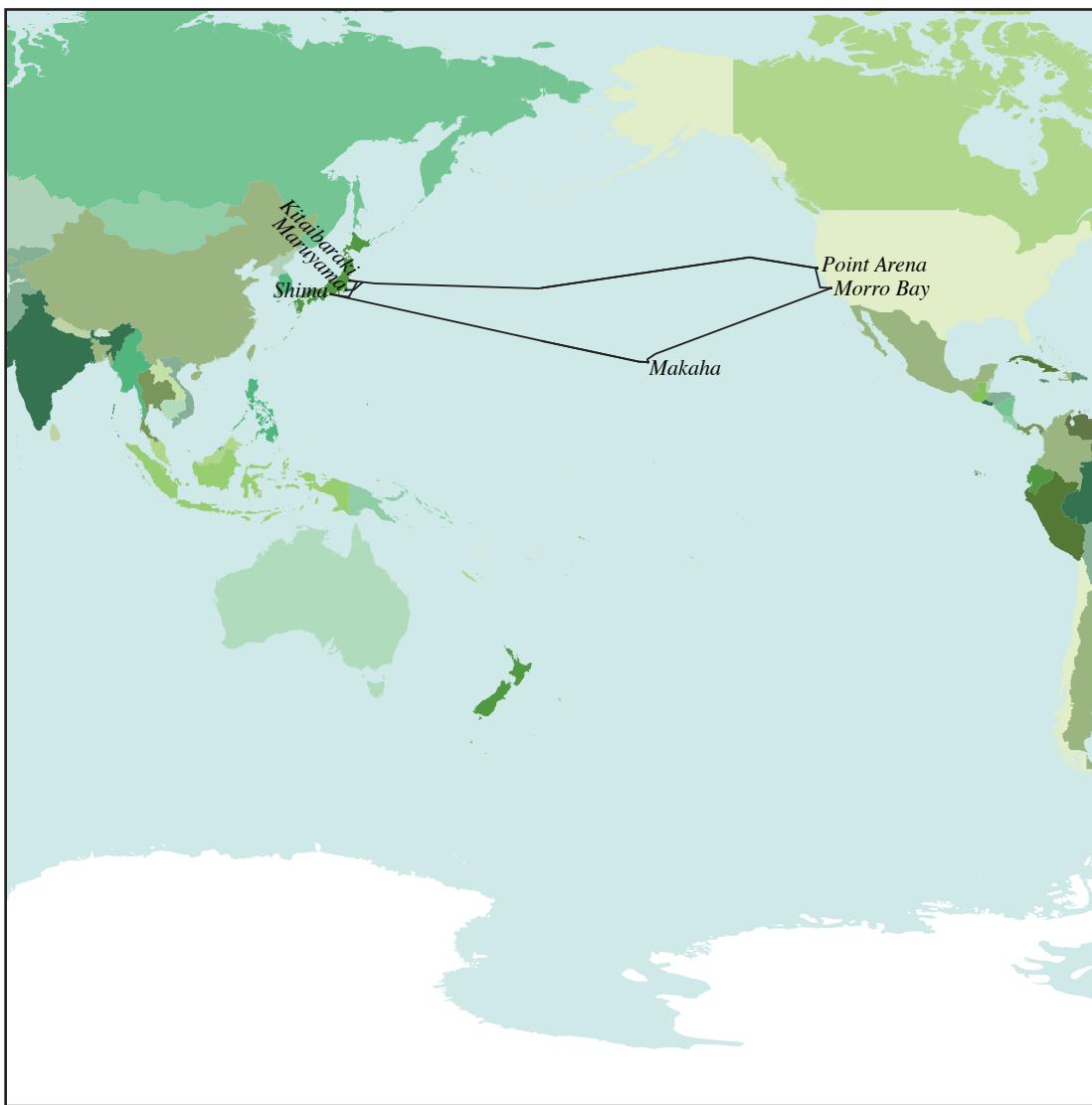
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JAPAN-US



System Name:	Japan-US
Landing Points:	Kitaibaraki (Japan), Makaha (Hawaii), Maruyama (Japan), Morro Bay (USA), Point Arena (USA), Shima (Japan)
RFS Year:	2001
Est. End of Service Date:	2026
Total Length (kms):	21000
Initial Capacity:	160 Gb/s
Fiber Information:	8 Fiber Pairs
Owners:	AT&T, Japan Telecom, KDDI, MCI-WorldCom, NTTWN
System Supplier:	Alcatel Submarine Networks, Ocean Cable Company
System Installer:	Global Marine Systems Limited
Cablesip:	Subaru, Cable Innovator
Upgrader	Ciena
Upgrade Year	2012
Upgraded Capacity	100 Gb/s

JASAURUS

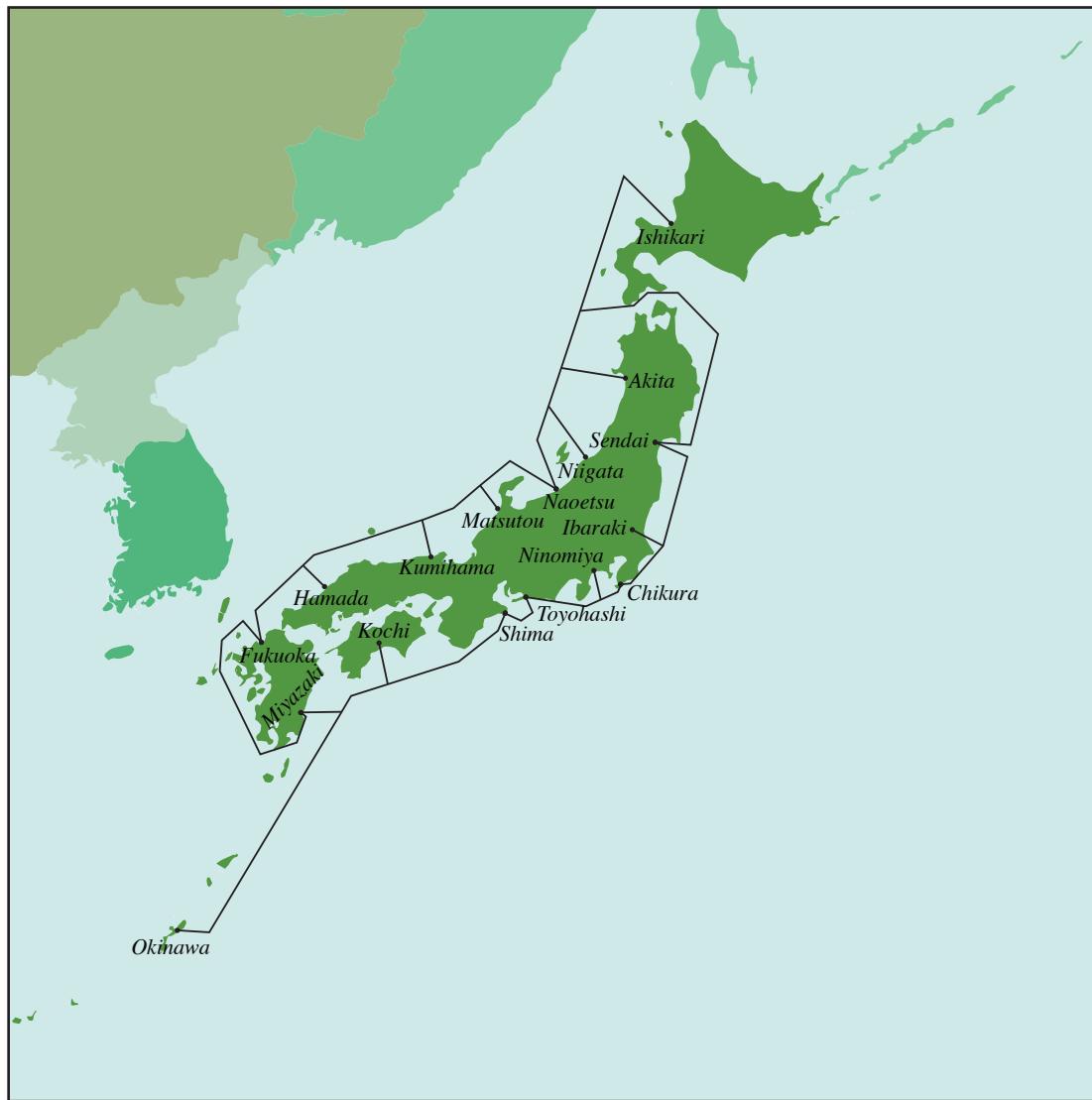


System Name:	Jasaurus
Landing Points:	Jakarta (Indonesia), Port Hedland (Australia)
RFS Year:	1997
Est. End of Service Date:	2012
Total Length (kms):	2795
Initial Capacity:	5 Gb/s
Owners:	Indosat, Optus, Telstra (Australia)
System Supplier:	Alcatel Submarine Networks

JASUKA

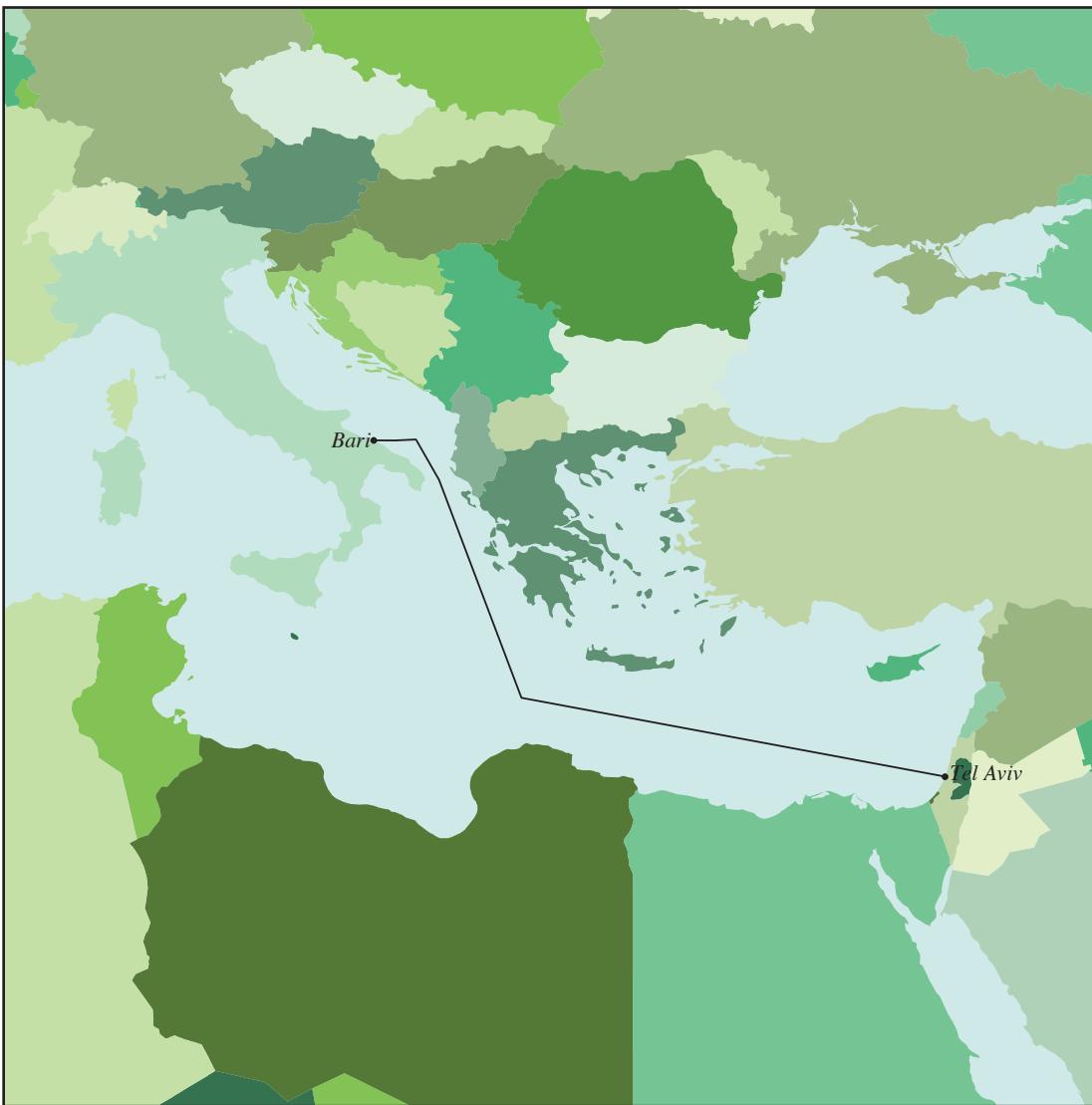


System Name:	Jasuka
Landing Points:	Batam (Indonesia), Jakarta (Indonesia), Pontianak (Indonesia), Tanjung Pandan (Indonesia)
RFS Year:	2006
Est. End of Service Date:	2031
Total Length (kms):	1040
Initial Capacity:	20 Gb/s
Design Capacity:	320 Gb/s
Owners:	PT Telekom



System Name:	JIH
Landing Points:	Chikura (Japan), Fukuoka (Japan), Hamada (Japan), Ibaraki (Japan), Ishikari (Japan), Kochi (Japan), Kumihama (Japan), Matsutou (Japan), Miyazaki (Japan), Naoetsu (Japan), Niigata (Japan), Ninomiya (Japan), Okinawa Prefecture (Japan), Sendai (Japan), Shima (Japan), Toyohashi (Japan)
RFS Year:	1998
Est. End of Service Date:	2023
Total Length (kms):	10300
Owners:	KDDI, Telstra (Australia)
System Supplier:	Ocean Cable Company, Hitachi Cable Ltd
System Installer:	C&W (Marine)
Cablesip:	Cable Innovator, Nexus, Pacific Link, Oceanic Link
Upgrader	Infinera
Upgrade Year	2013
Upgraded Capacity	100 Gb/s

JONAH



System Name: Jonah

Landing Points: Bari (Italy), Tel Aviv (Israel)

RFS Year: 2012

Est. End of Service Date: 2037

Est. System Cost (US\$): 95000000

Total Length (kms): 2300

KAFOS



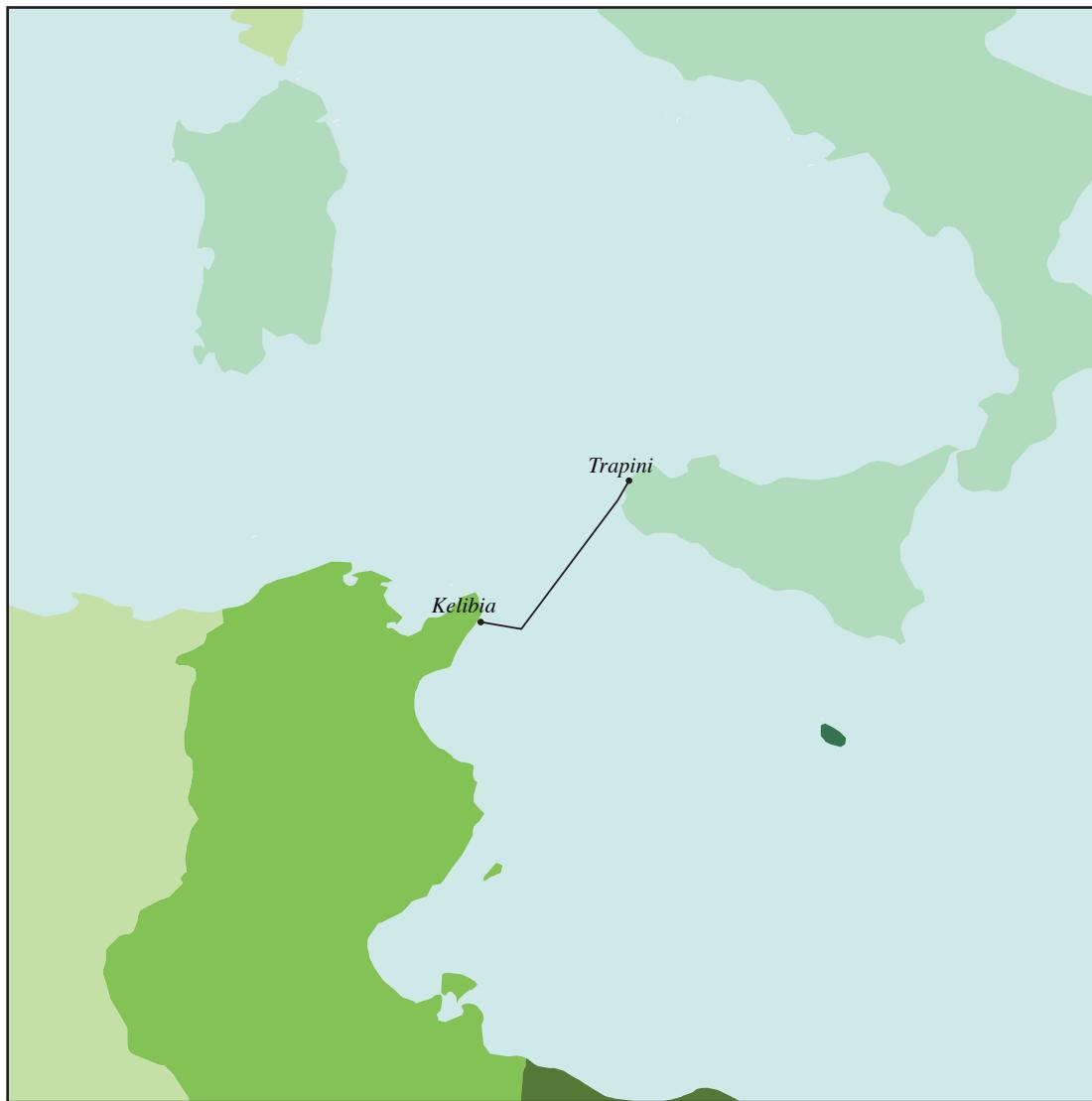
System Name:	KAFOS
Landing Points:	Istanbul (Turkey), Mangalia (Romania), Varna (Bulgaria)
RFS Year:	1997
Est. End of Service Date:	2022
Total Length (kms):	504
Initial Capacity:	1.2 Gb/s
Owners:	BTC, Turk Telecom
System Supplier:	Alcatel Submarine Networks
System Installer:	FCR
Cablesip:	Vercors

KATTEGAT-1



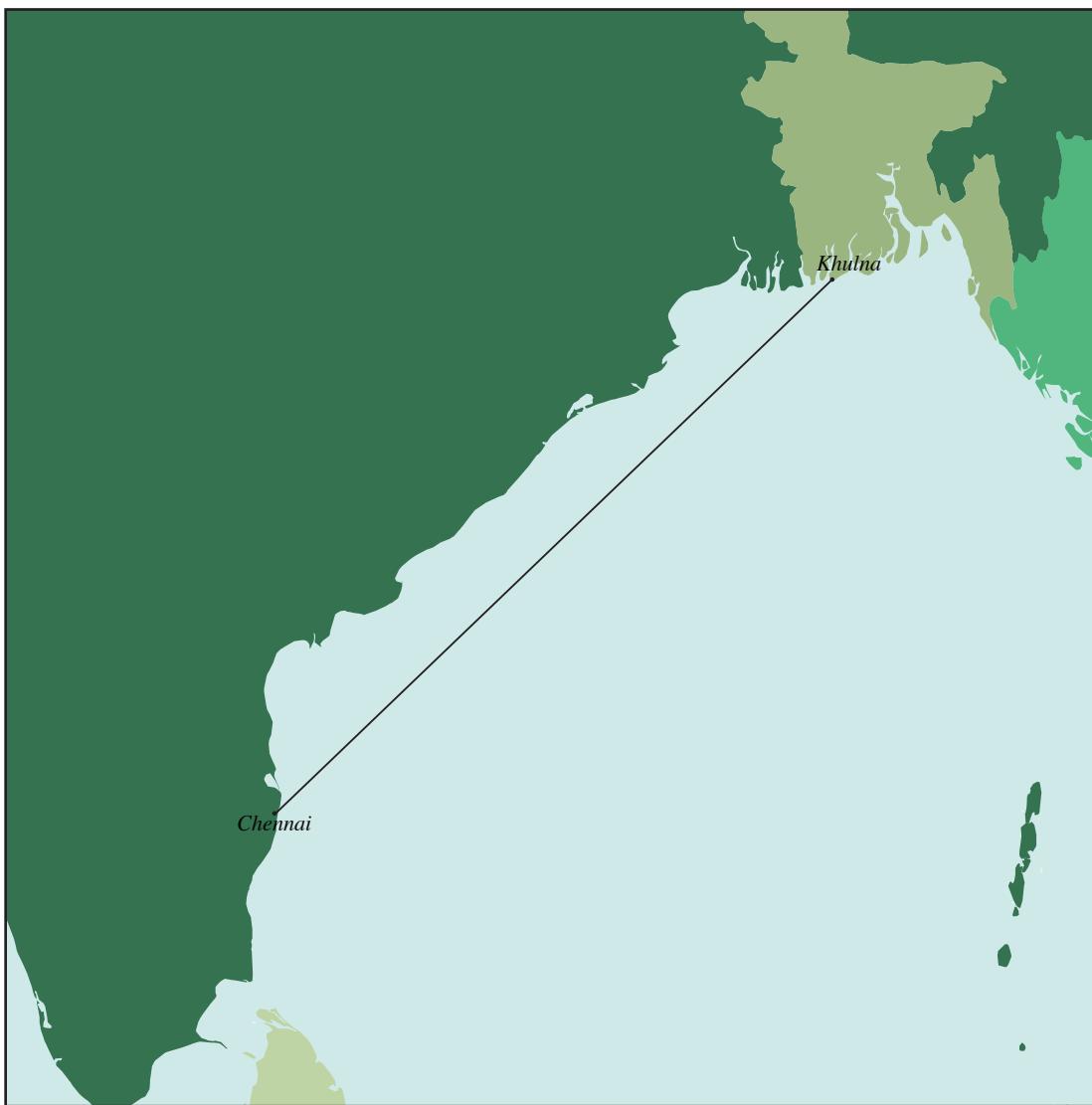
System Name:	Kattegat-1
Landing Points:	Gothenburg (Sweden), Jutland (Denmark)
RFS Year:	1995
Est. End of Service Date:	2020
Total Length (kms):	95
Initial Capacity:	20 Gb/s
Fiber Information:	6 Fiber Pairs
Owners:	TDC

KELTRA-2

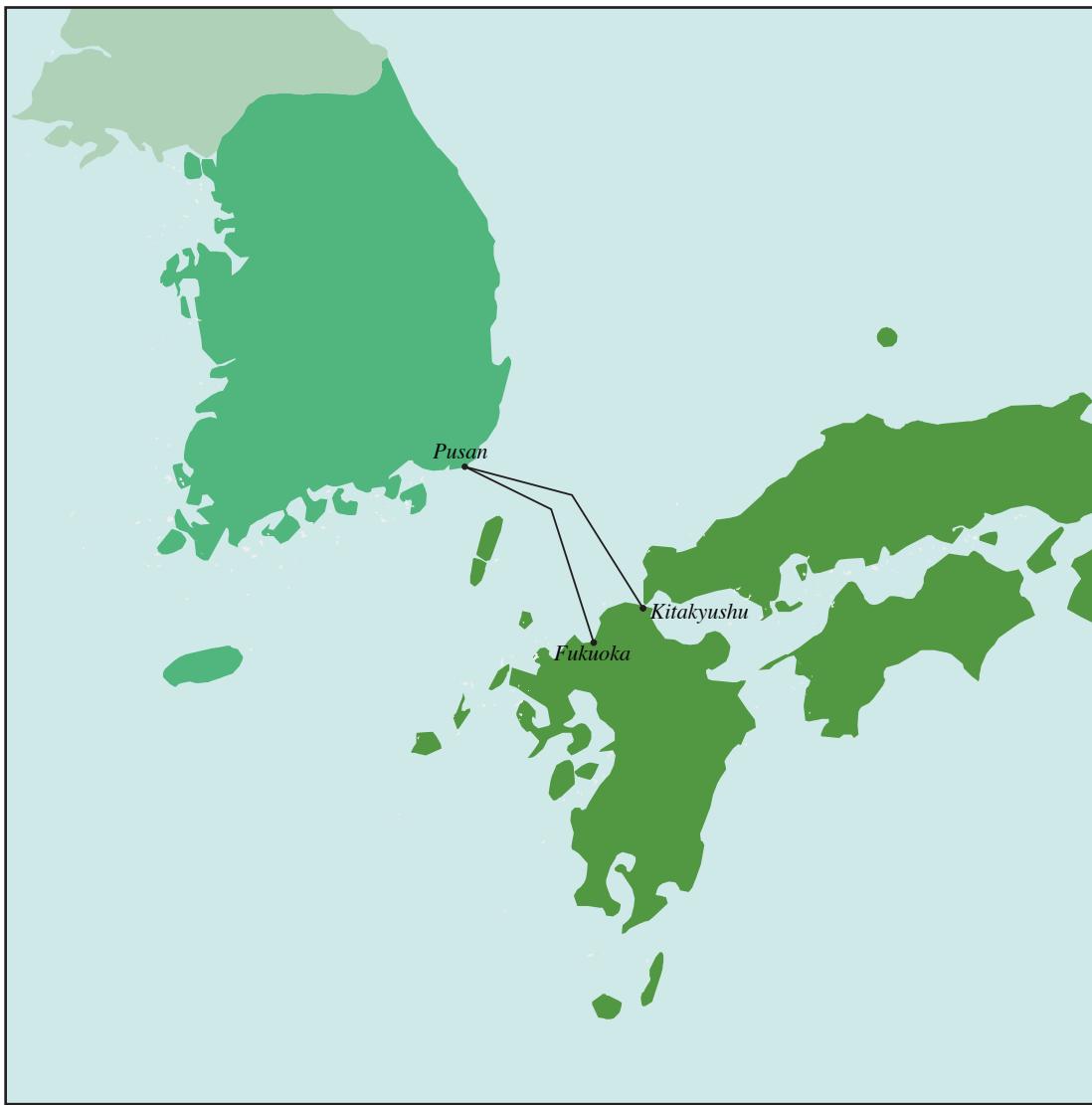


System Name:	Keltra-2
Landing Points:	Kelibia (Tunisia), Trapini (Italy)
RFS Year:	1994
Est. End of Service Date:	2019
Total Length (kms):	209
Initial Capacity:	20 Gb/s
Fiber Information:	6 Fiber Pairs
Owners:	Telecom Italia, Tunisie Telecom (Tunisia)

KHULNA-CHENNAI



System Name:	Khulna-Chennai
Landing Points:	Chennai (India), Khulna (Bangladesh)
RFS Year:	2010
Est. End of Service Date:	2035
Est. System Cost (US\$):	48000000
Total Length (kms):	115
Owners:	Bangladesh Submarine Cable Company



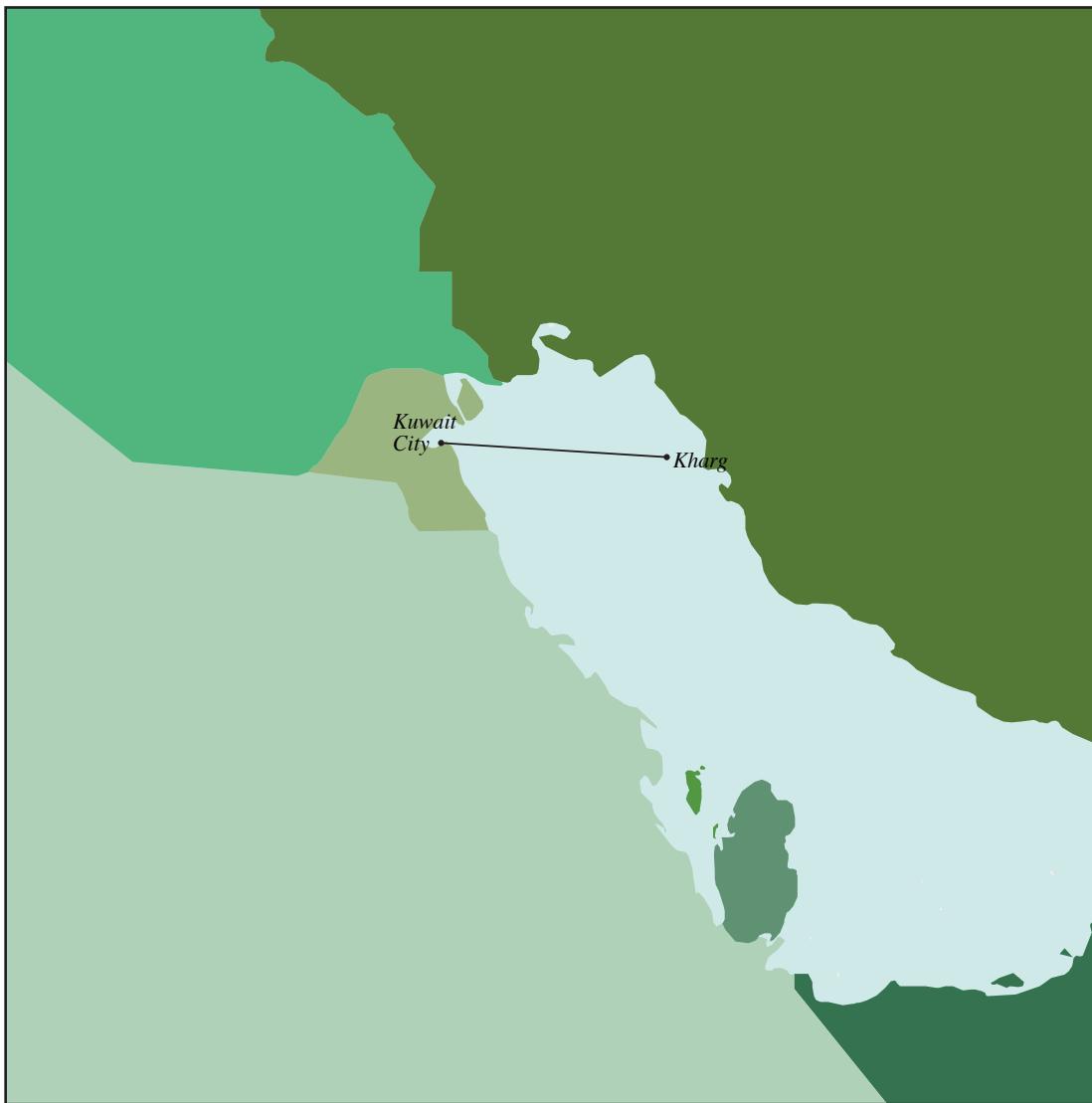
System Name:	KJCN
Landing Points:	Fukuoka (Japan), Kita-Kyushu (Japan), Pusan (South Korea)
RFS Year:	2002
Est. End of Service Date:	2027
Total Length (kms):	500
Initial Capacity:	2.88 Tb/s
Fiber Information:	12 Fiber Pairs
Owners:	KEPCO, KT Corporation, NTT Communications, SOFTBANK Telecom Corp
System Supplier:	Fujitsu, Alcatel Submarine Networks
System Installer:	Maersk Recorder

KODIAK KENAI



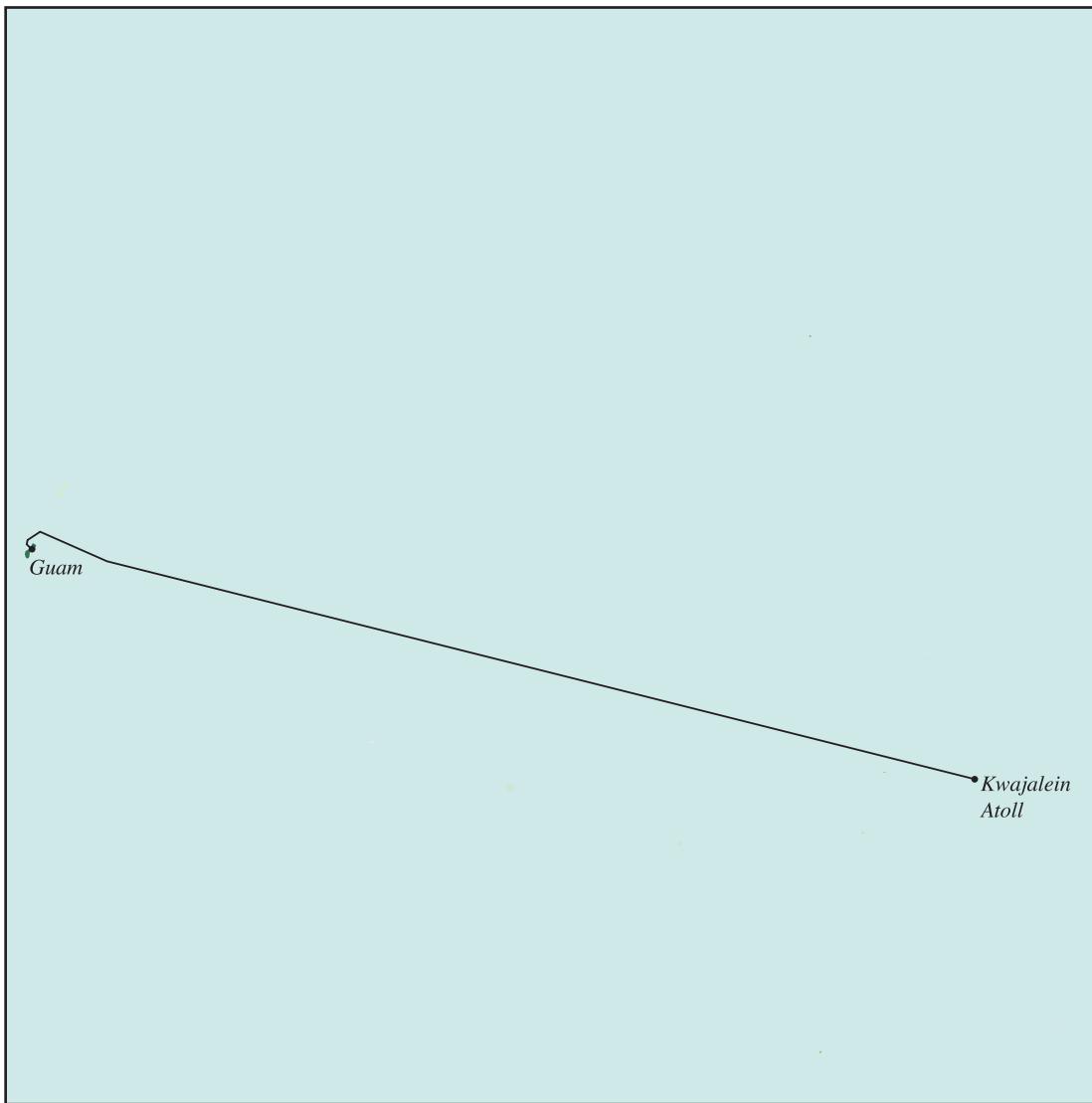
System Name:	Kodiak Kenai
Landing Points:	Anchorage (USA), Homer (USA), Kenai (USA), Kodiak (USA), Narrow Cape (USA), Seward (USA)
RFS Year:	2006
Est. End of Service Date:	2031
Total Length (kms):	971
Initial Capacity:	2.5 Gb/s
Design Capacity:	10 Gb/s
Fiber Information:	4 Fiber Pairs
Owners:	Kodiak Kenai Cable Company
Upgrader	Infinera
Upgrade Year	2010
Upgraded Capacity	10 Gb/s

KUWAIT-IRAN



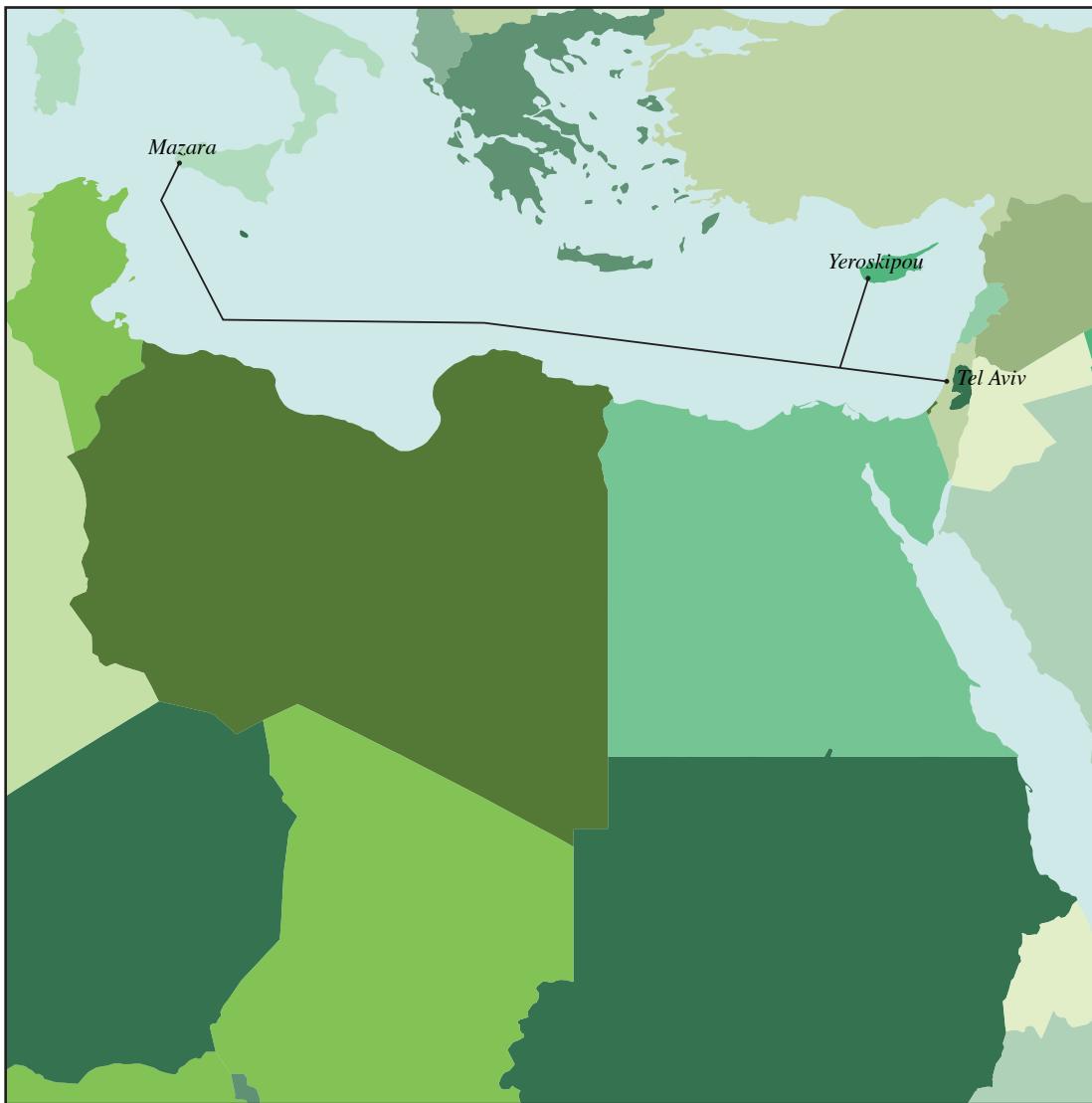
System Name:	Kuwait-Iran
Landing Points:	Kharg Island (Iran), Kuwait City (Kuwait)
RFS Year:	2006
Est. End of Service Date:	2031
Total Length (kms):	380
Initial Capacity:	2.5 Gb/s
Fiber Information:	6 Fiber Pairs
Owners:	e-Marine

KWAJALEIN-GUAM



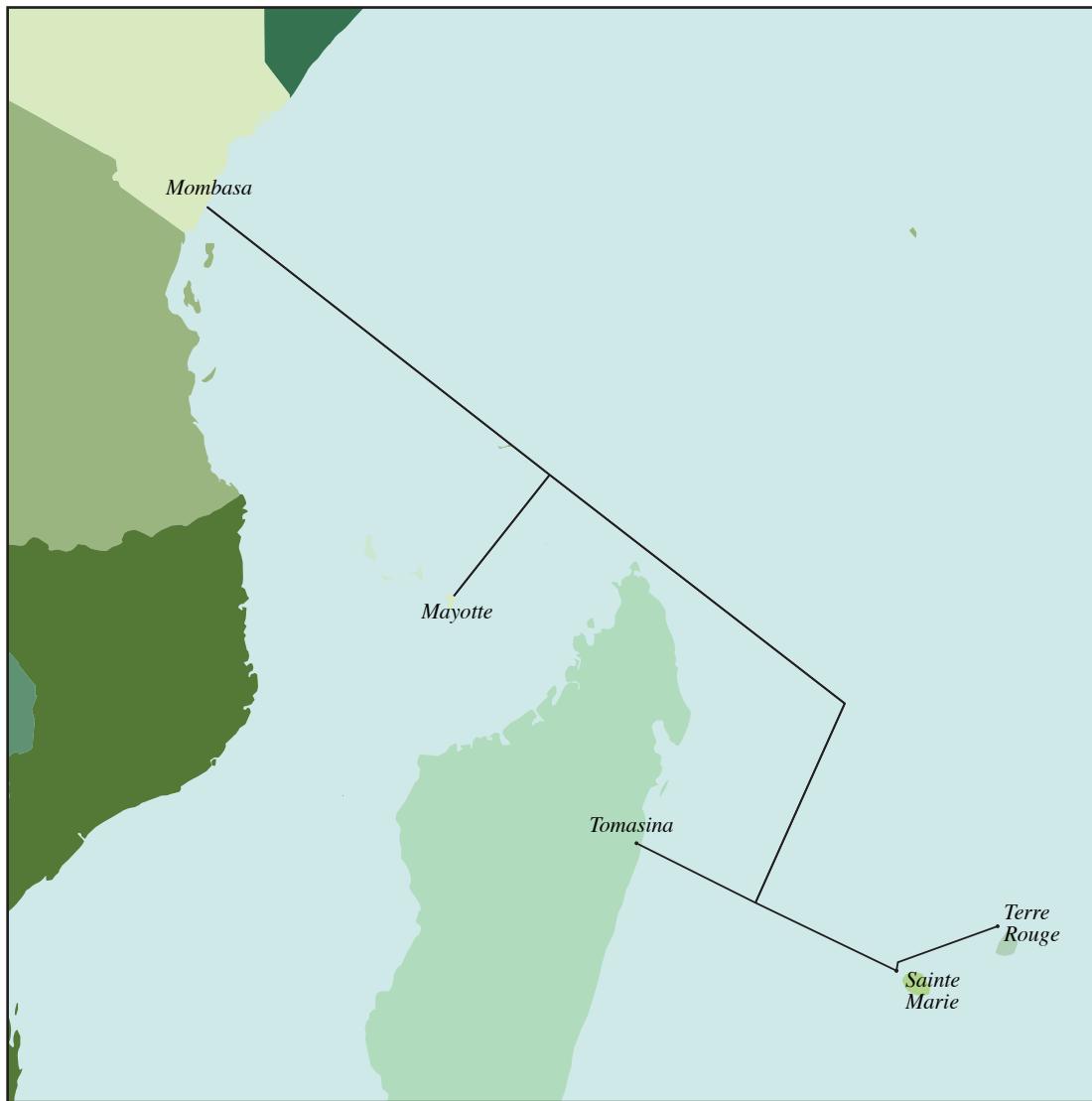
System Name:	Kwajalein-Guam
Landing Points:	Kwajalein Atoll (Marshall Islands), Guam
RFS Year:	2009
Est. End of Service Date:	2034
Total Length (kms):	2900
Owners:	Hannon Armstrong
System Supplier:	TE SubCom

LEV

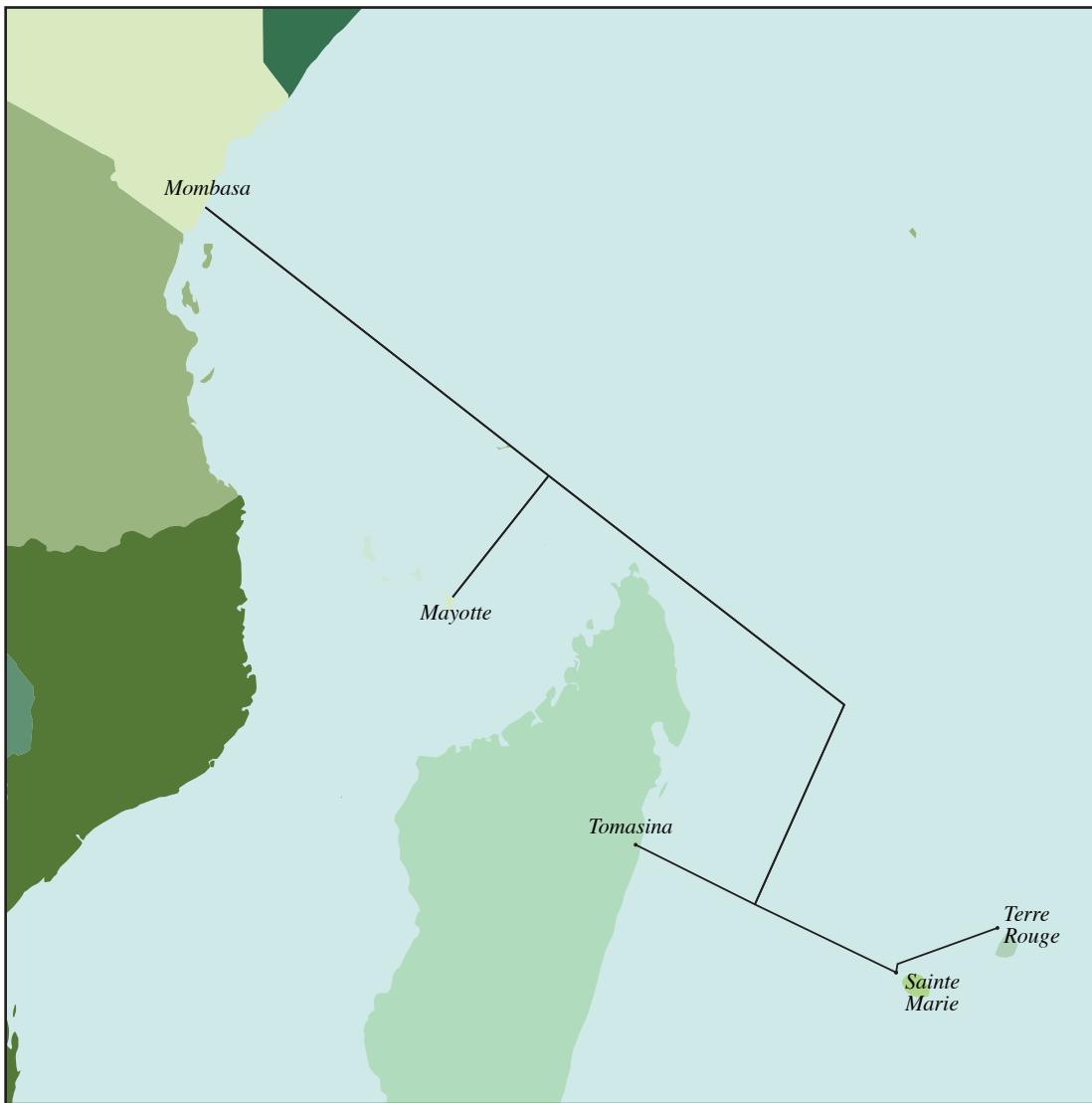


System Name:	LEV
Landing Points:	Mazara (Italy), Tel Aviv (Israel), Yeroskipos (Cyprus)
RFS Year:	1999
Est. End of Service Date:	2024
Est. System Cost (US\$):	177658000
Total Length (kms):	2500
Initial Capacity:	2.5 Gb/s
Fiber Information:	2 Fiber Pairs, 8 wavelengths of 1550 nm wavelength
Owners:	Telecom Italia Sparkle
System Supplier:	Alcatel Submarine Networks, Tyco Telecommunications

LION



System Name:	LION
Landing Points:	Sainte Marie (Reunion Island), Terre Rouge (Mauritius), Toamasina (Madagascar)
RFS Year:	2009
Est. End of Service Date:	2034
Total Length (kms):	1800
Initial Capacity:	20 Gb/s
Fiber Information:	2 Fiber Pairs
Owners:	France Telecom, Mauritius Telecom, Orange Madagascar
System Installer:	FCR
Cablesip:	Chamarel



System Name:	LION-2
Landing Points:	Mombasa (Kenya), Mayotte (Mayotte), Toamasina (Madagascar), Ile Sainte-Marie (Madagascar), Terre Rouge (Madagascar)
RFS Year:	2012
Est. End of Service Date:	2037
Est. System Cost (US\$):	76000000
Total Length (kms):	3000
Initial Capacity:	1.28 Tb/s
Owners:	France Telecom, Mauritius Telecom, Orange Madagascar



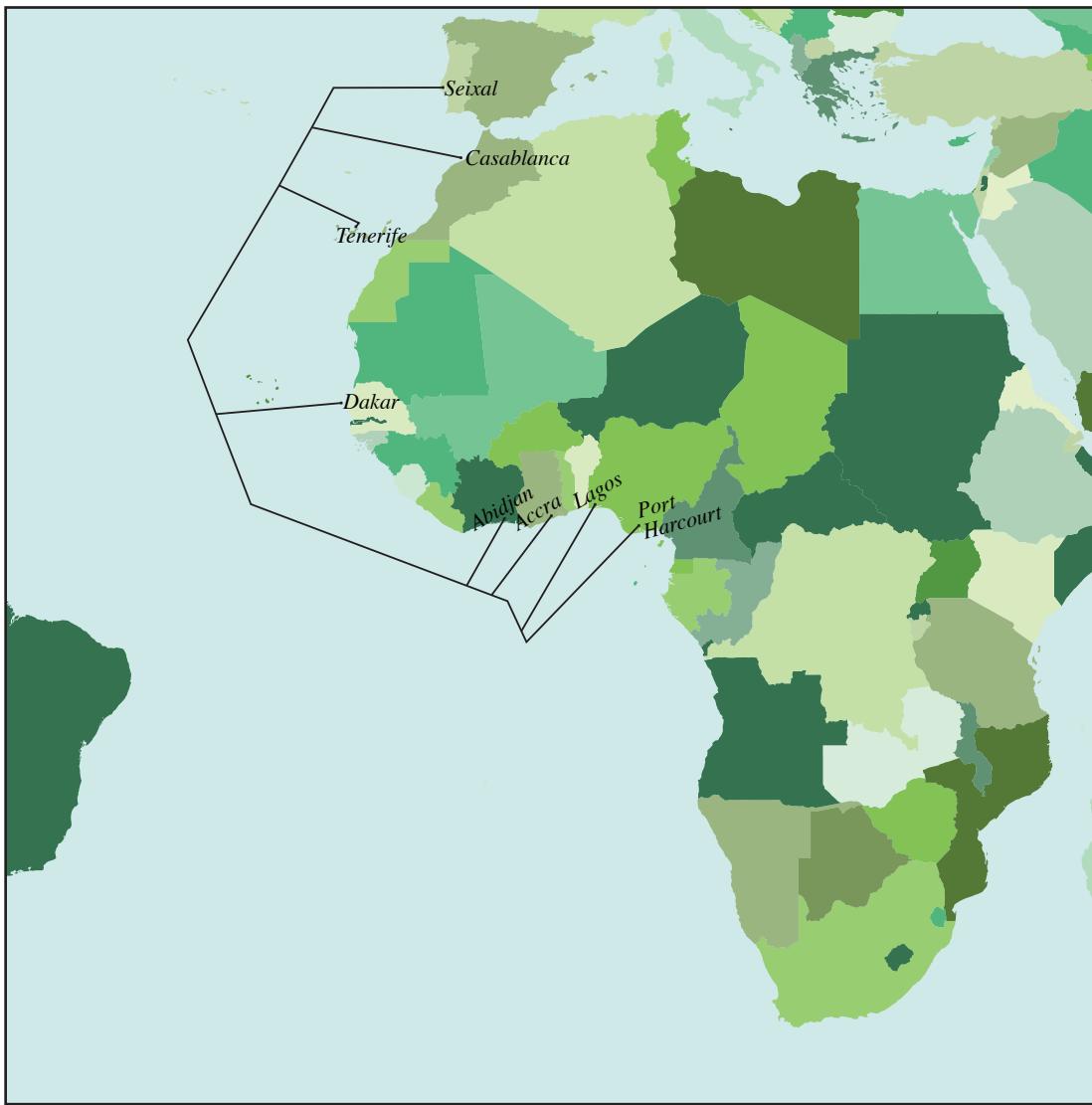
System Name:	M-T
Landing Points:	Kuantan New Port (Malaysia), Phetchaburi (Thailand), Songkhla (Thailand)
RFS Year:	1994
Est. End of Service Date:	2017
Total Length (kms):	1276
Initial Capacity:	560 Mbs

MAC



System Name:	MAC
Landing Points:	Brookhaven (USA), Hollywood (USA), St Croix (US Virgin Islands)
RFS Year:	2000
Est. End of Service Date:	2025
Total Length (kms):	7500
Initial Capacity:	20 Gb/s
Fiber Information:	2 Fiber Pairs
Owners:	Global Crossing
System Supplier:	Alcatel Submarine Networks
System Installer:	FCR
Cablesip:	Fresnel
Upgrader	Infinera
Upgrade Year	2010, 2011
Upgraded Capacity	10 Gb/s, 40 Gb/s

MAIN ONE



System Name:	Main One
Landing Points:	Abidjan (Ivory Coast), Accra (Ghana), Casablanca (Morocco), Dakar (Senegal), Lagos (Nigeria), Port Harcourt (Nigeria), Seixal (Portugal), Tenerife (Spain)
RFS Year:	2010
Est. End of Service Date:	2035
Est. System Cost (US\$):	240000000
Total Length (kms):	14000
Initial Capacity:	1.92 Tb/s
Owners:	Mainstreet Technologies
System Supplier:	TE SubCom
System Installer:	TE SubCom
Cablesip:	Resolute

MATARAM-KUPANG



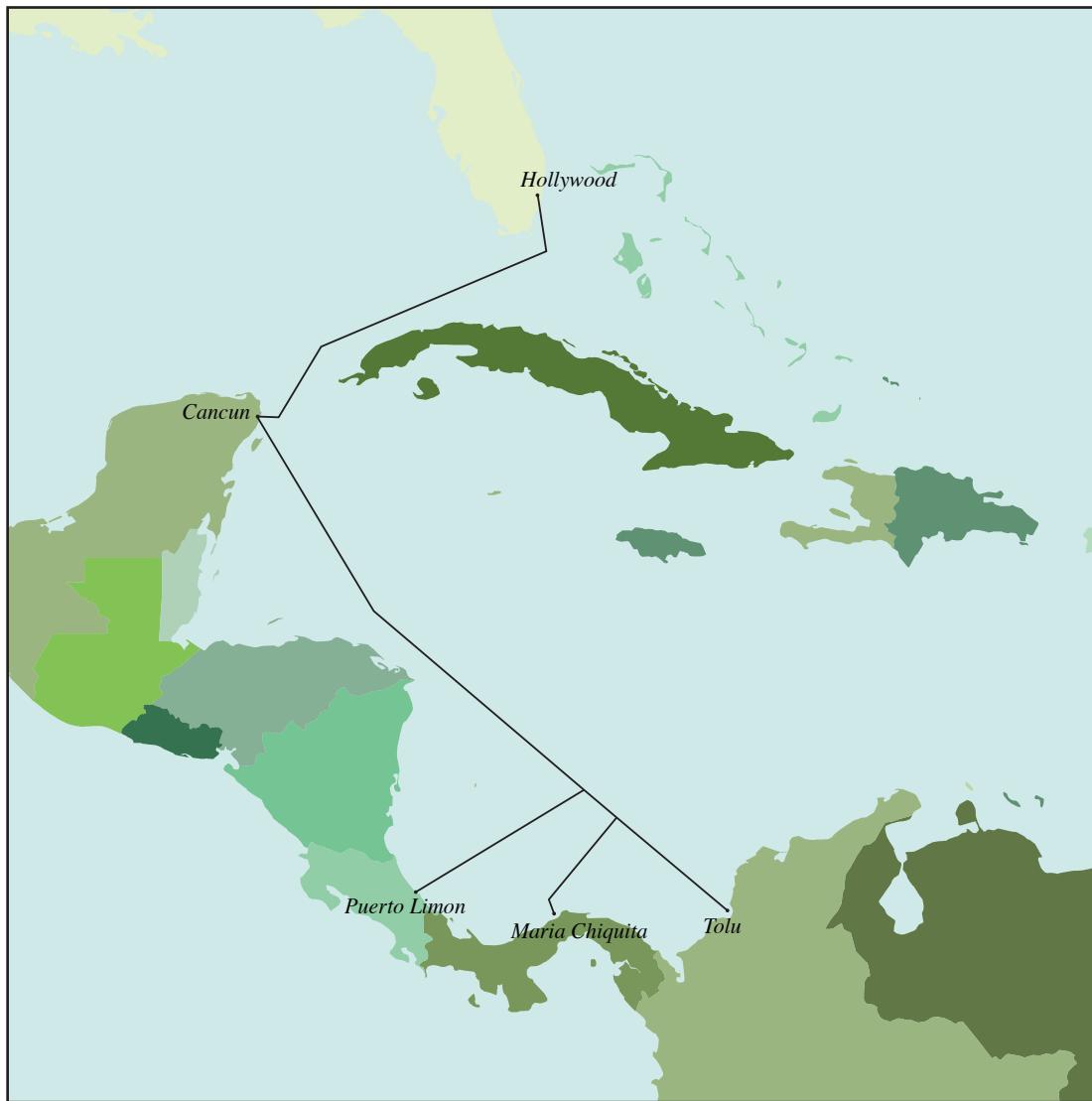
System Name:	Mataram-Kupang
Landing Points:	Kupang (Indonesia), Mataram (Indonesia), Raba (Indonesia), Sumbawa Besar (Indonesia), Waingapu (Indonesia)
RFS Year:	2011
Est. End of Service Date:	2036
Est. System Cost (US\$):	94072800
Total Length (kms):	1200
Owners:	PT Telkom

MATRIX



System Name:	Matrix
Landing Points:	Batam (Indonesia), Changi (Singapore), Jakarta (Indonesia)
RFS Year:	2008
Est. End of Service Date:	2032
Total Length (kms):	1438
Initial Capacity:	2.6 Tb/s
Fiber Information:	4 Fiber Pairs
Owners:	Matrix Networks and NAP Info
System Supplier:	Tyco Telecommunications SSI
System Installer:	Global Marine Systems Limited
Cablesip:	Wave Mercury, Cable Networker (barge)

MAYA-1



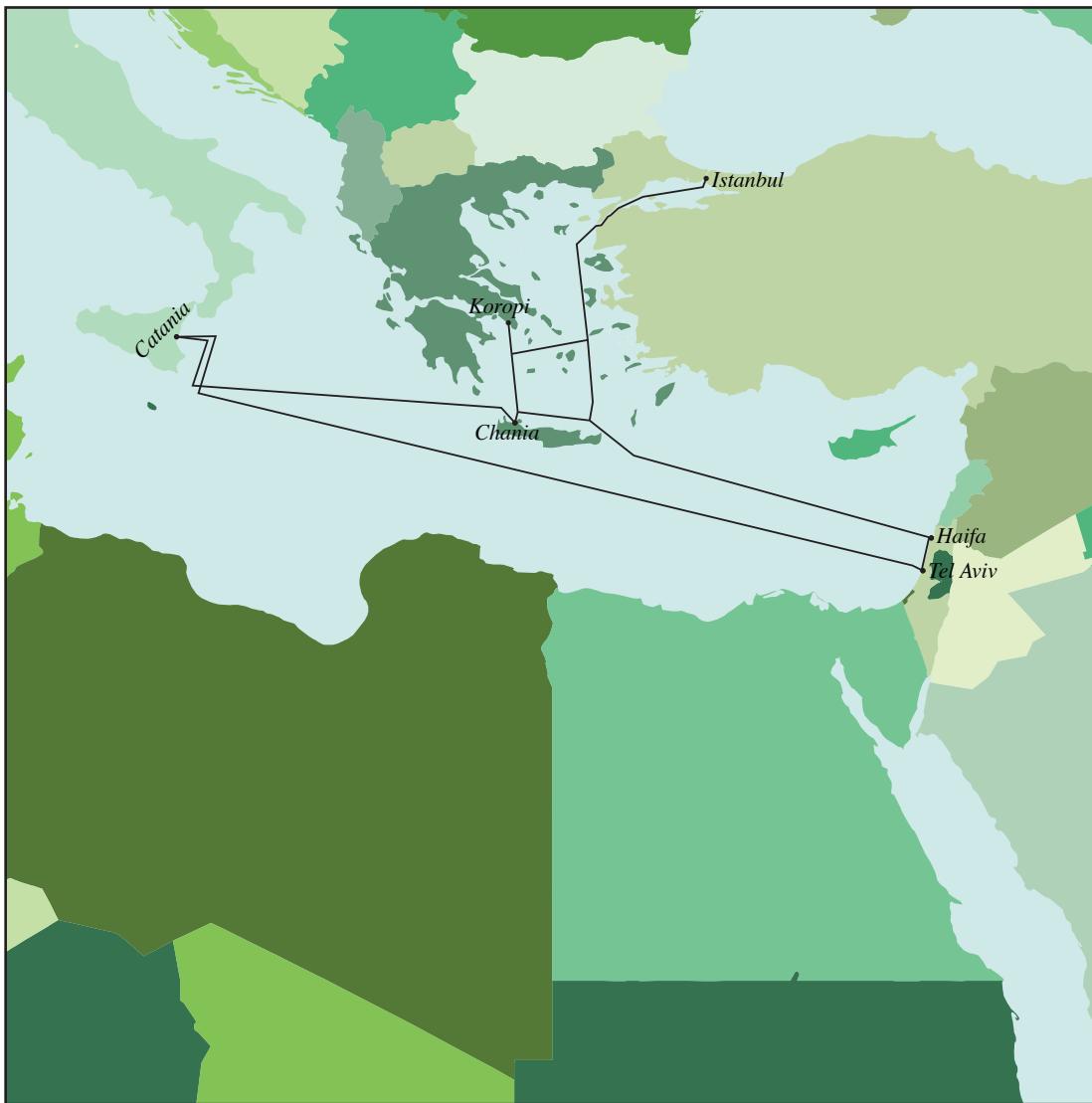
System Name:	Maya-1
Landing Points:	Cancun (Mexico), Hollywood (USA), Maria Chiquita (Panama), Puerto Limon (Costa Rica), Tolu (Colombia)
RFS Year:	2000
Est. End of Service Date:	2025
Total Length (kms):	4506
Initial Capacity:	10 Gb/s
Owners:	MAYA-1 Consortium
System Supplier:	Alcatel Submarine Networks, Tyco Telecommunications
Marine Surveyor:	C&C Technologies
Upgrader	Alcatel-Lucent Submarine Networks
Upgrade Year	2012
Upgraded Capacity	40 Gb/s

MED CABLE



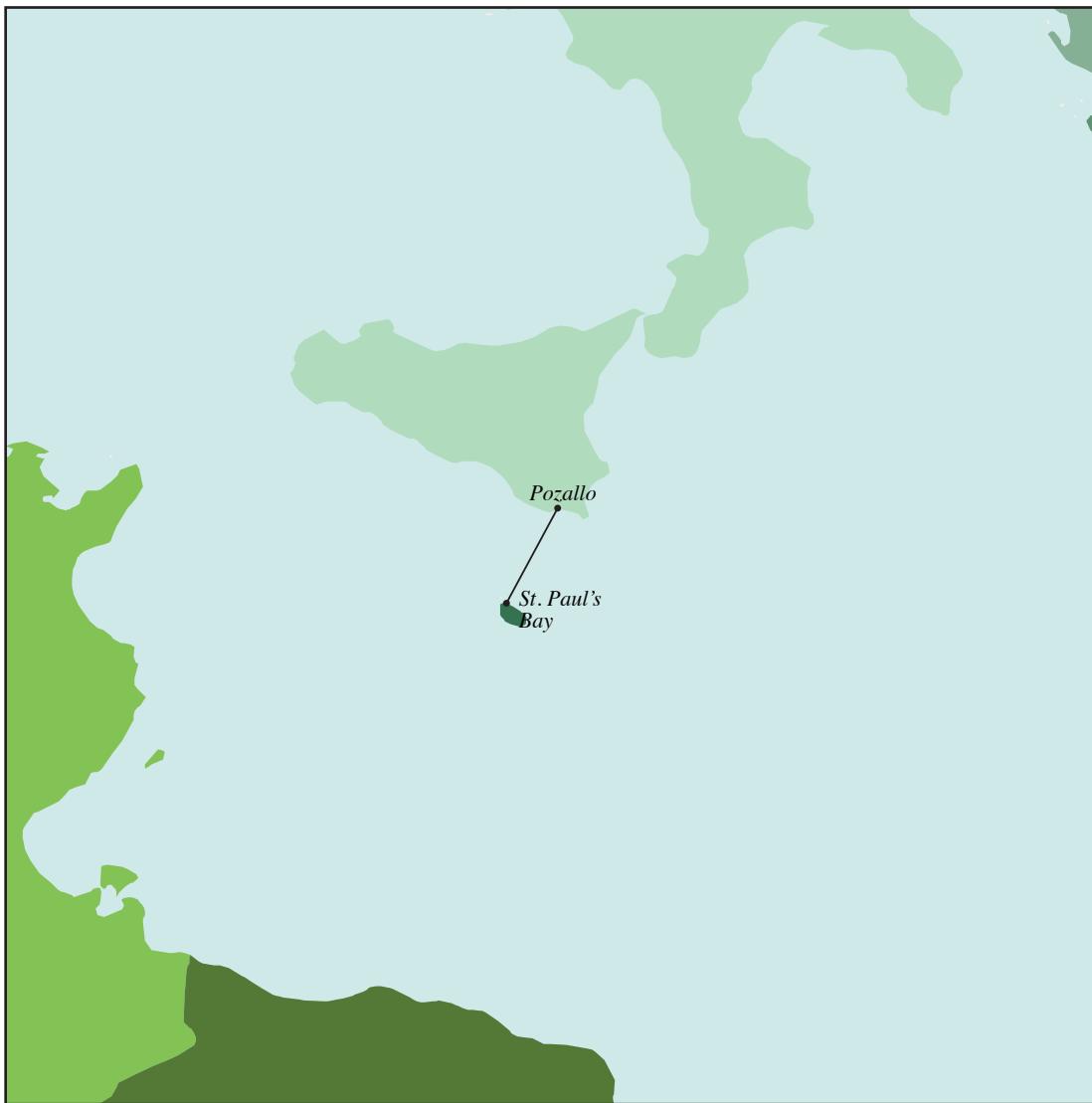
System Name:	Med Cable
Landing Points:	Algiers (Algeria), Annaba (Algeria), Marseille (France)
RFS Year:	2005
Est. End of Service Date:	2030
Total Length (kms):	1215
Initial Capacity:	20 Gb/s
Owners:	Med Cable

MEDNAUTILUS



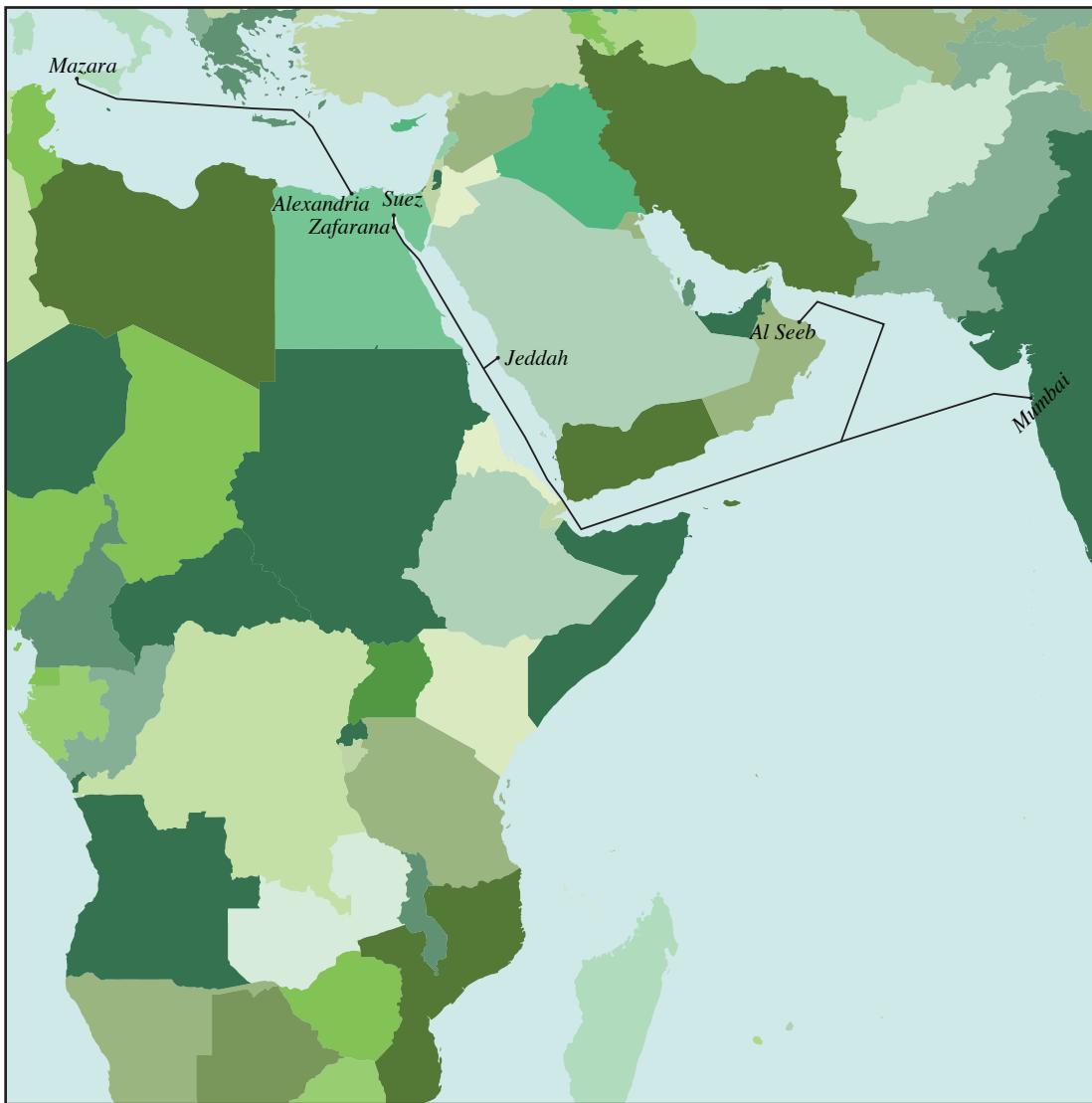
System Name:	MedNautilus
Landing Points:	Catania (Italy), Chania (Greece), Haifa (Israel), Istanbul (Turkey), Koropi (Greece), Tel Aviv (Israel)
RFS Year:	2001
Est. End of Service Date:	2026
Total Length (kms):	5729
Initial Capacity:	3.84 Tb/s
Fiber Information:	6 Fiber Pairs, 64 wave lengths, 10 gbps
Owners:	Telecom Italia Sparkle
System Supplier:	Alcatel Submarine Networks
Upgrader	Infinera
Upgrade Year	2011, 2012
Upgraded Capacity	10 Gb/s, 100 Gb/s

MELITA-1

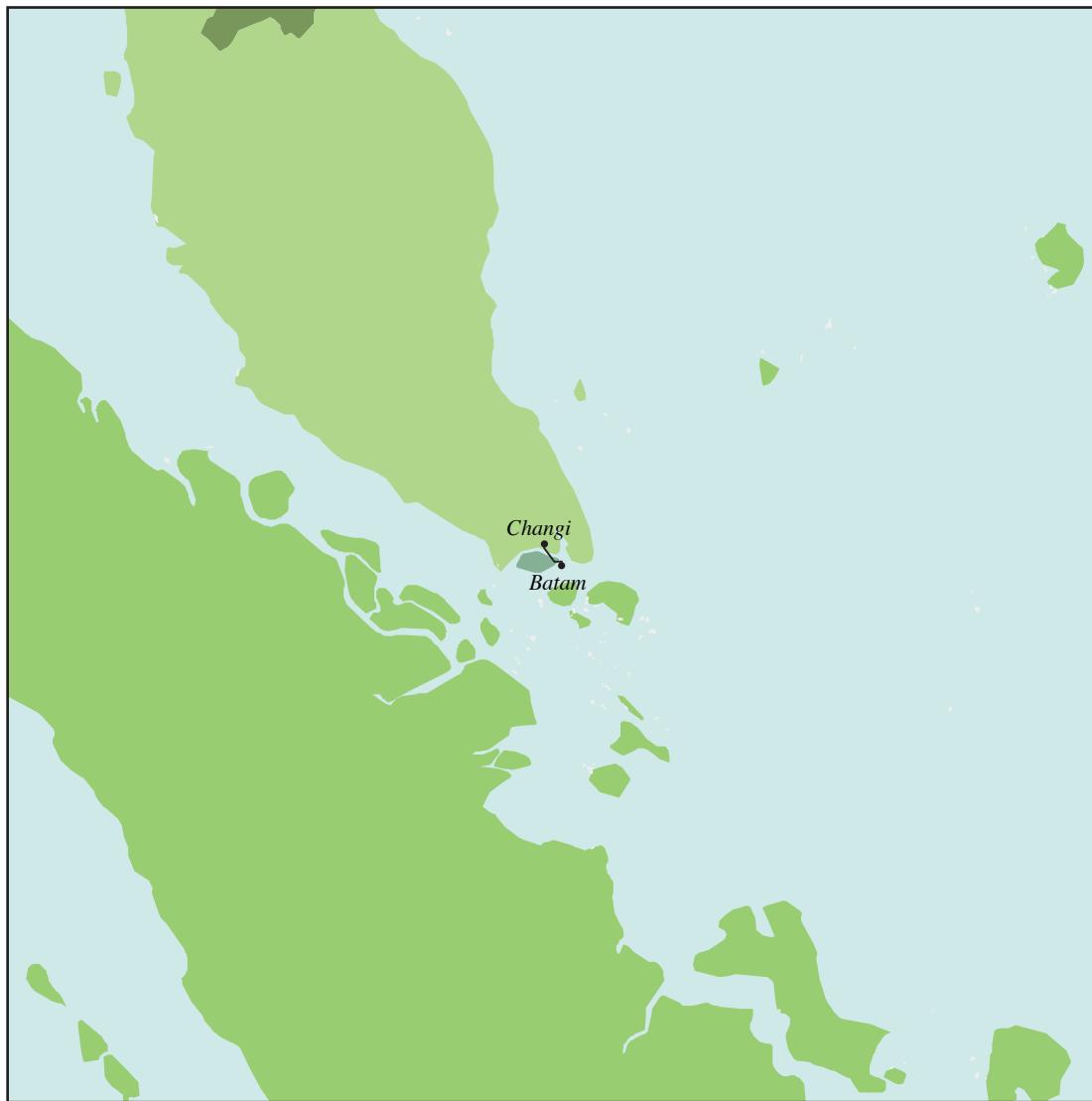


System Name:	MELITA-1
Landing Points:	Pozallo (Italy), St Paul's Bay (Malta)
RFS Year:	2009
Est. End of Service Date:	2034
Est. System Cost (US\$):	14000000
Total Length (kms):	100
Initial Capacity:	50 Mb/s
Owners:	Melita Infrastructure Ltd.

MENA

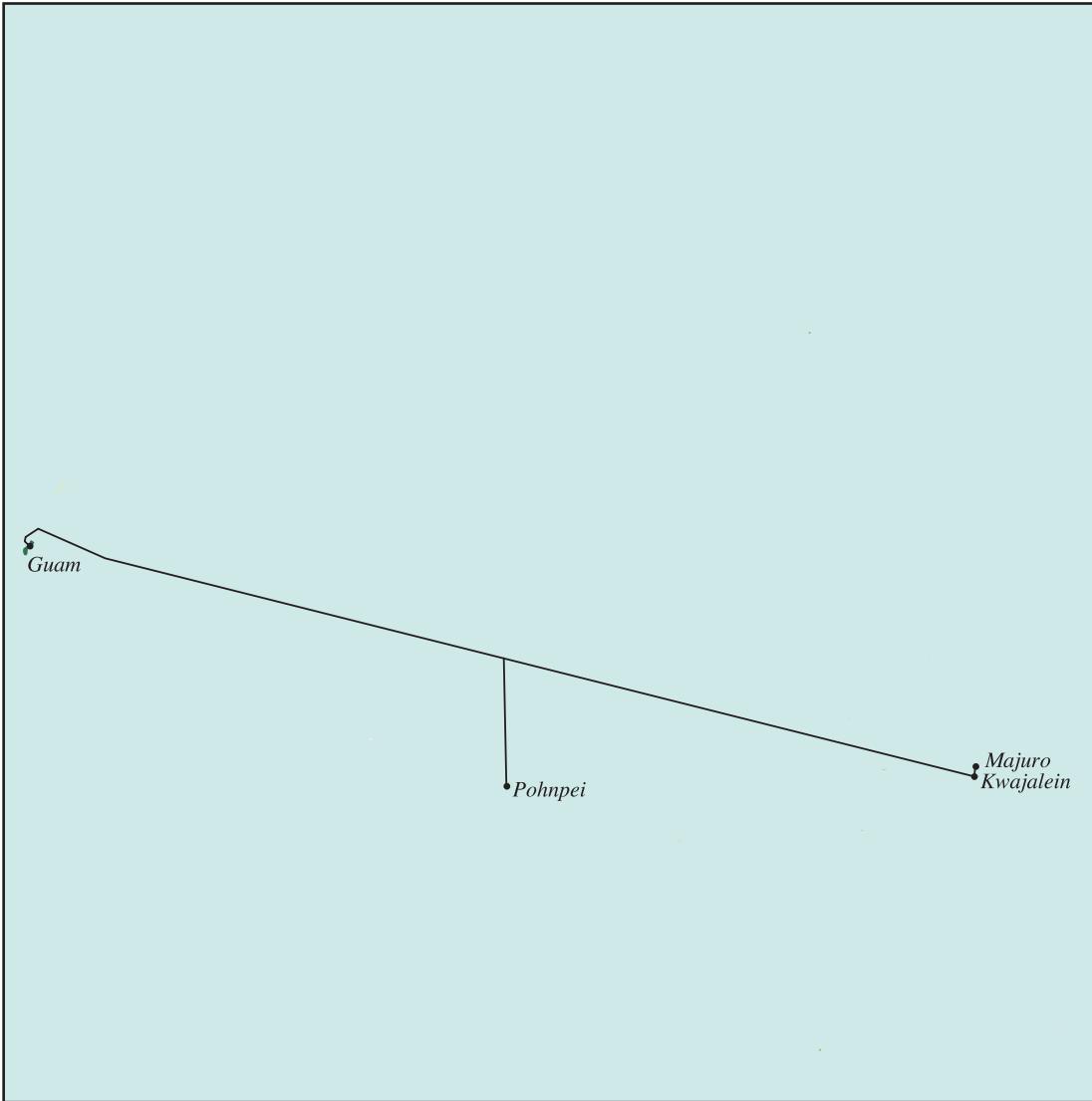


System Name:	MENA
Landing Points:	Abu Talat (Egypt), Al Seeb (Oman), Jeddah (Saudi Arabia), Mazara (Italy), Mumbai (India), Zafarana (Egypt)
RFS Year:	2011
Est. End of Service Date:	2035
Est. System Cost (US\$):	350000000
Total Length (kms):	9500
Initial Capacity:	5.76 Tb/s
Owners:	Orascom Telecom
System Supplier:	Alcatel Submarine Networks, TE SubCom
System Installer:	Alcatel Submarine Networks, TE SubCom, e-Marine
Cablesip:	Maersk Responder, Ile de Sein, Niwa, Decisive
Marine Surveyor:	EGS, Blue Star, Elettra



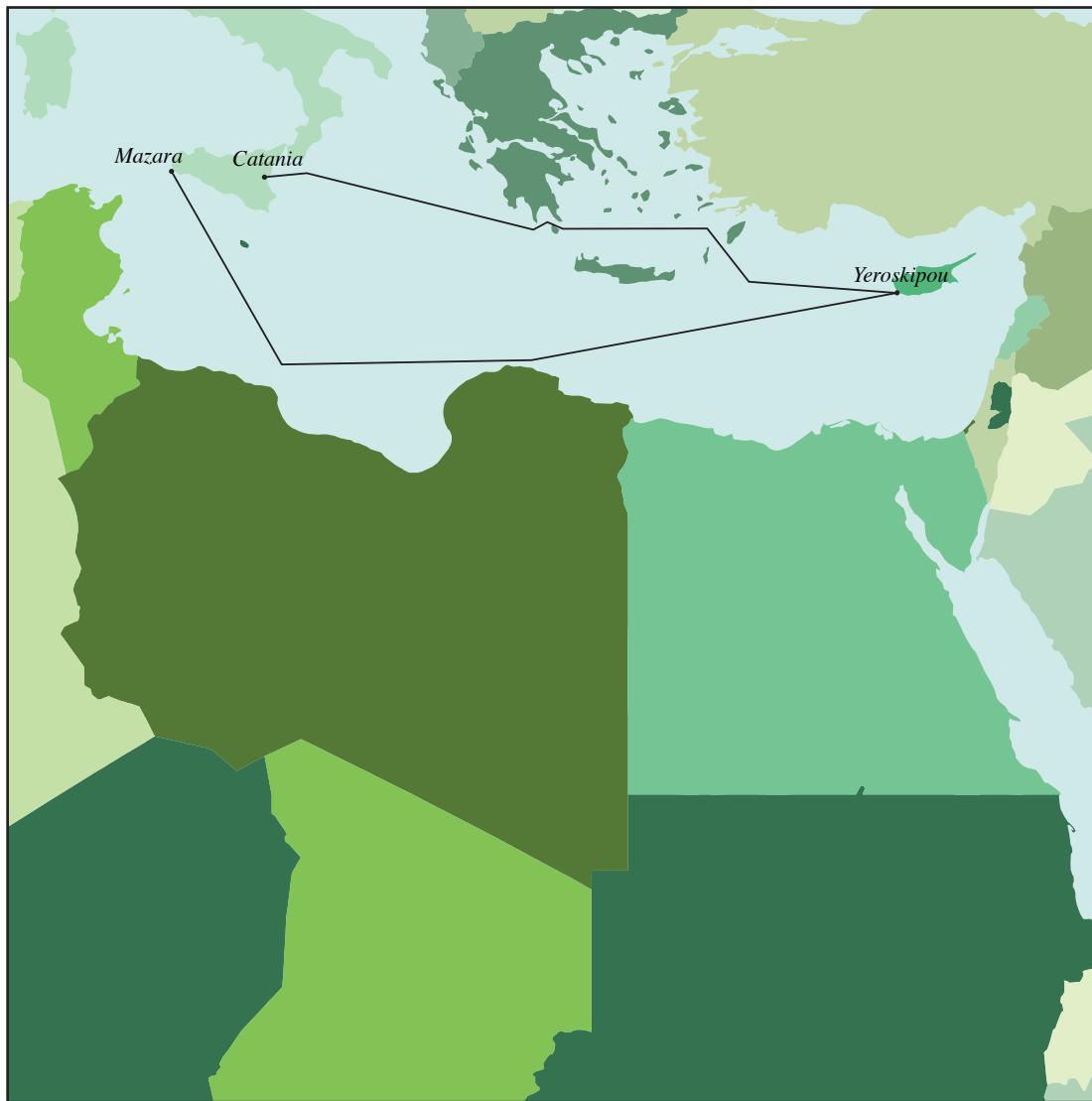
System Name:	MIC-1
Landing Points:	Batam (Indonesia), Changi (Singapore)
RFS Year:	2008
Est. End of Service Date:	2033
Est. System Cost (US\$):	12000000
Total Length (kms):	70
Initial Capacity:	10 Gb/s
Owners:	Moratelindo
System Installer:	Global Marine Systems Limited

MICRONESIA CABLE SYSTEM



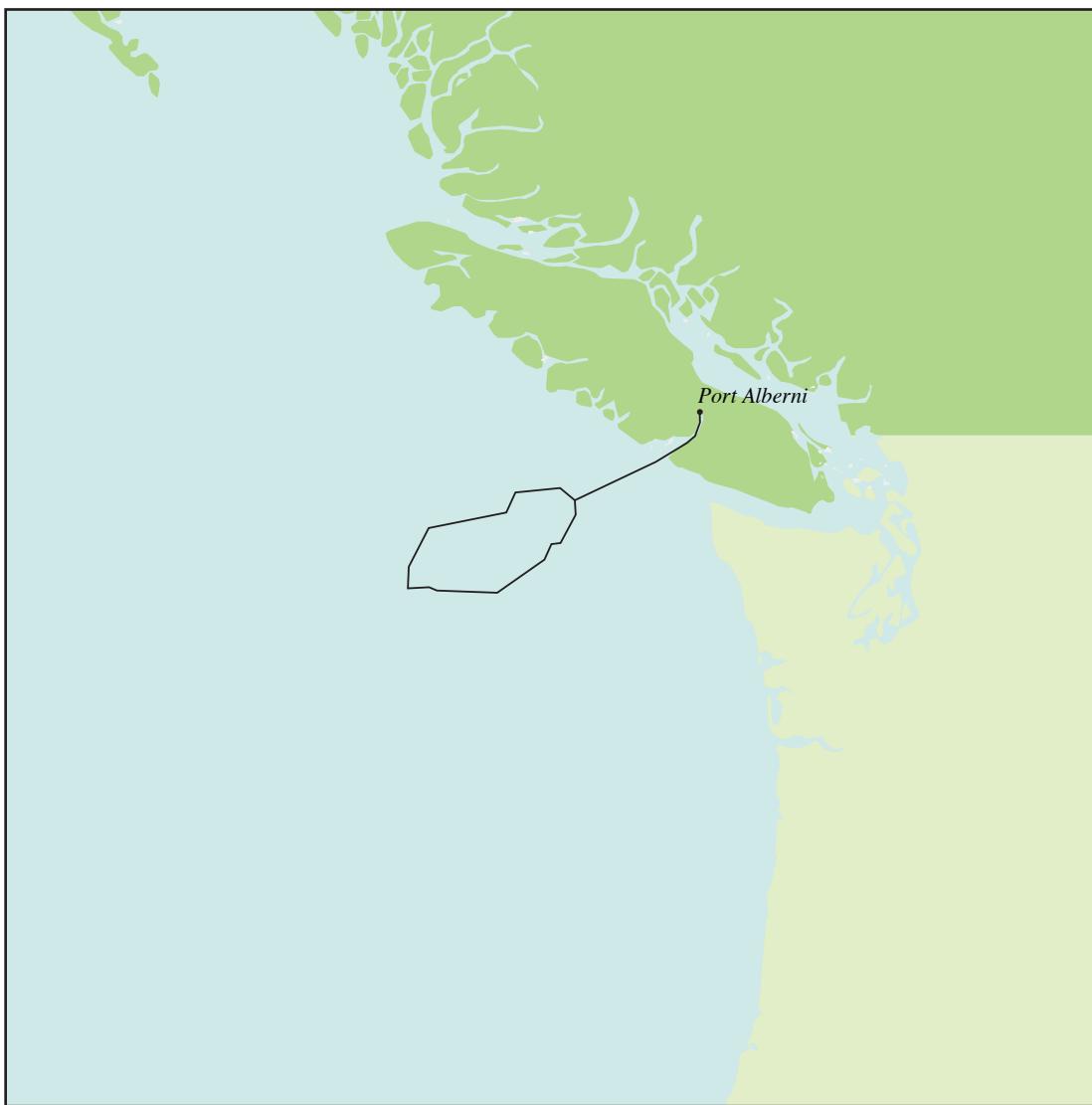
System Name:	Micronesia Cable System
Landing Points:	Majuro (Marshall Islands), Kwajalein (Marshall Islands), Pohnpei (Micronesia), Guam
RFS Year:	2011
Est. End of Service Date:	2036
Owners:	Federals States of Micronesia Telecommunications Authority, Marshall Island National Telecommunications Authority
System Supplier:	TE SubCom
System Installer:	TE SubCom

MINERVA



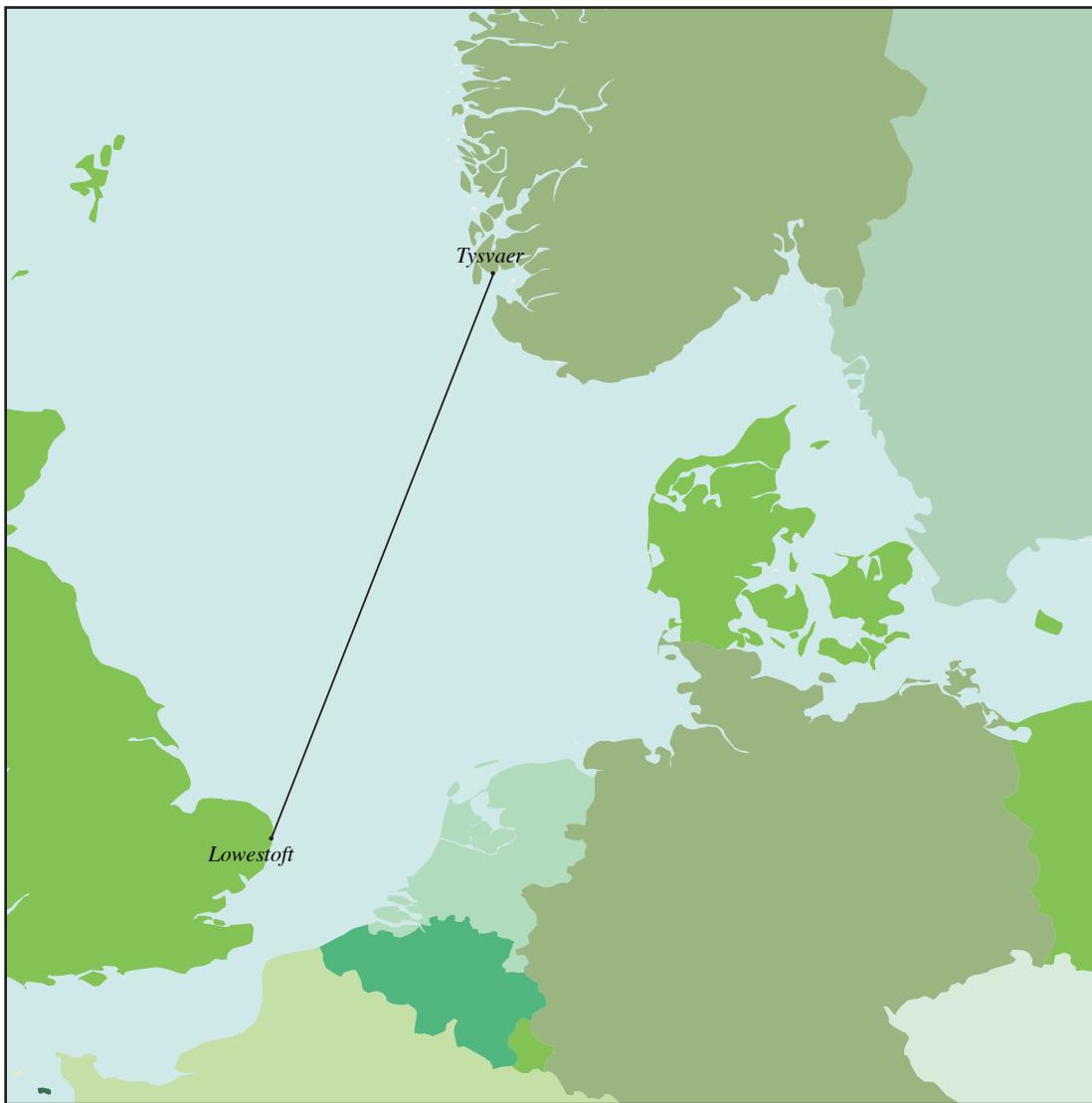
System Name:	Minerva
Landing Points:	Catania (Italy), Mazara (Italy), Yeroskipos (Cyprus)
RFS Year:	2007
Est. End of Service Date:	2032
Initial Capacity:	10 Gb/s
Fiber Information:	DWDM wavelengths
Owners:	Telecom Italia Sparkle
System Supplier:	Alcatel-Lucent Submarine Systems

NEPTUNE CANADA



System Name:	Neptune Canada
Landing Points:	Port Alberni (Canada)
RFS Year:	2007
Est. End of Service Date:	2032
Est. System Cost (US\$):	62000000
Total Length (kms):	800
Owners:	University of Victoria
System Supplier:	Alcatel Submarine Networks
System Installer:	Alcatel Submarine Networks
Cablesip:	Ille de Sein
Marine Surveyor:	NEPTUNE Canada

NORSEA COM-1



System Name:	Norsea Com-1
Landing Points:	Lowestoft (United Kingdom), Tysvær (Norway)
RFS Year:	1999
Est. End of Service Date:	2024
Total Length (kms):	800
Initial Capacity:	160 Gb/s
Owners:	North Sea Communications AS
System Supplier:	Alcatel AKN

NORTHSTAR



System Name:	Northstar
Landing Points:	Juneau (USA), Nedonna Beach (USA), Valdez (USA), Whittier (USA)
RFS Year:	1999
Est. End of Service Date:	2024
Total Length (kms):	3352
Initial Capacity:	10 Gb/s
Owners:	VenFin Limited (25%)
System Supplier:	Alcatel Submarine Networks
System Installer:	C&W (Marine)
Cablesip:	Maersk Fighter, Fu Lai

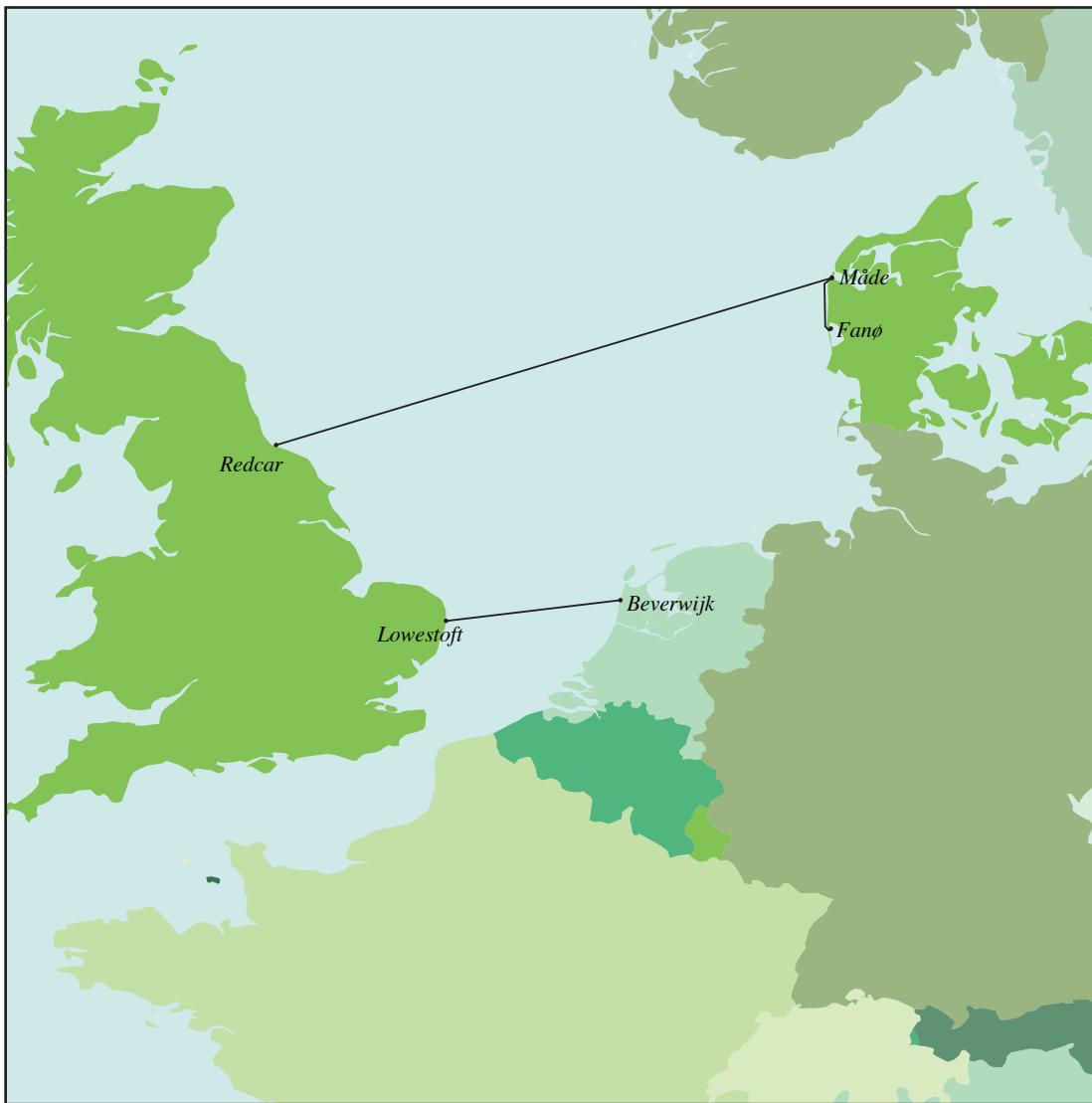


System Name:	PAC
Landing Points:	Colon (Panama), Fort Amadour (Panama), Grover Beach (USA), Mazatlán (Mexico), Puerto Viejo (Venezuela), St Croix (US Virgin Islands), Tijuana (Mexico)
RFS Year:	2001
Est. End of Service Date:	2026
Est. System Cost (US\$):	350000000
Total Length (kms):	8500
Initial Capacity:	10 Gb/s
Owners:	Global Crossing
System Supplier:	Tyco Telecommunications
Cablesip:	Agile
Marine Surveyor:	C&C Technologies
Upgrader	Xtera

PANAM

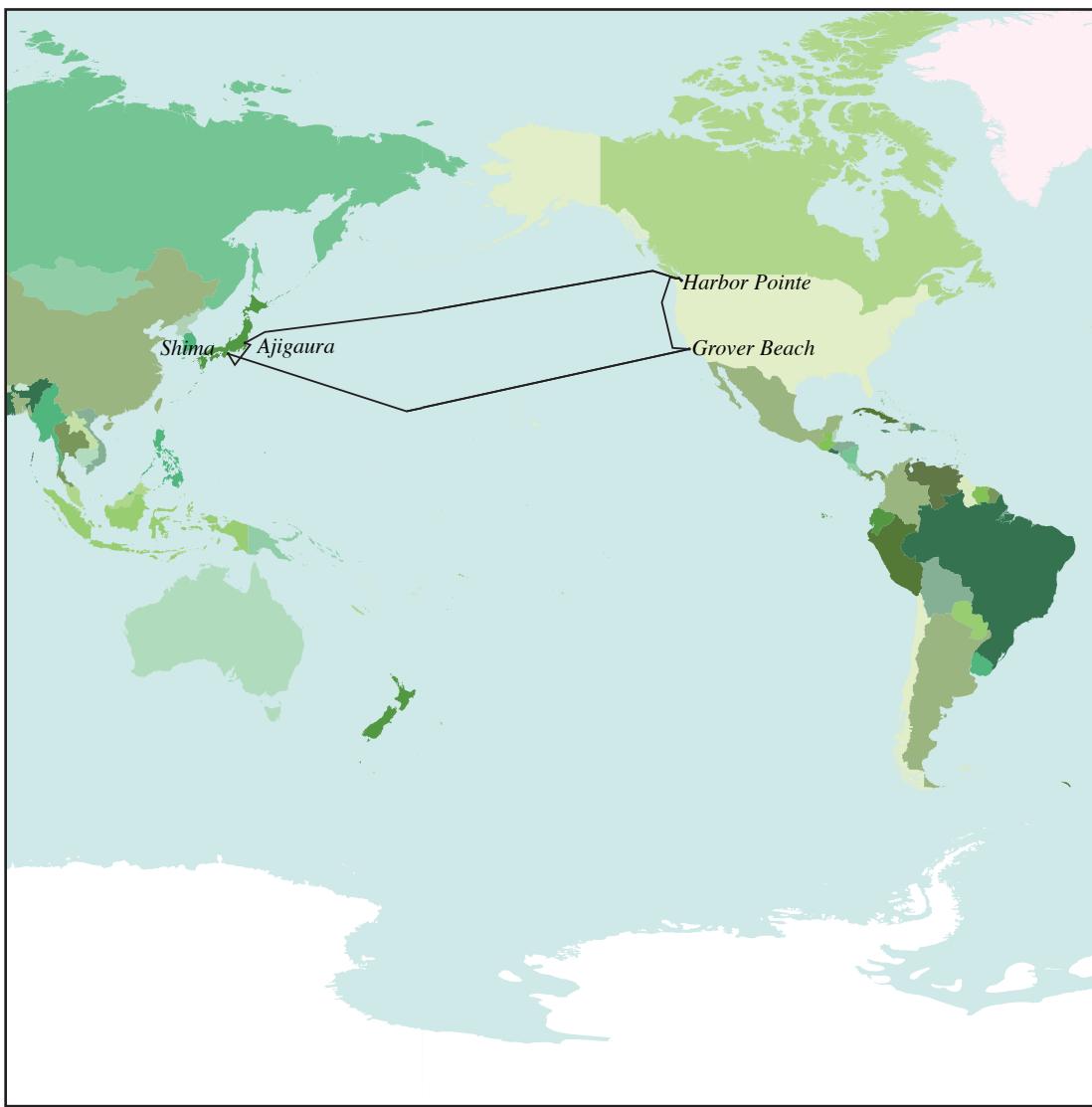


System Name:	PanAm
Landing Points:	Arica (Chile), Baby Beach (Aruba), Barranquilla (Colombia), Battery Pratt (Panama), Butler's Bay (St. Croix), Lurin (Peru), Magens Bay (Virgin Islands), Panama City (Panama), Punto Fijo (Venezuela), Salinas (Ecuador)
RFS Year:	1999
Est. End of Service Date:	2024
Total Length (kms):	2857
Initial Capacity:	>10 Gb/s
Owners:	Antel (El Salvador), AT&T, Cable Andino, CANTV (Venezuela), CNT, C&W, Embratel, Entel (Chile), Setar, Telecom Colombia, Telmex
Marine Surveyor:	C&C Technologies



System Name:	Pangea
Landing Points:	Beverwijk (Netherlands), Fanø (Denmark), Lowestoft (United Kingdom), Måde (Denmark), Redcar (United Kingdom)
RFS Year:	2000
Est. End of Service Date:	2025
Total Length (kms):	511
Initial Capacity:	7.03125 Tb/s
Owners:	Pangea Ltd
System Supplier:	Alcatel Submarine Networks
System Installer:	Nexans
Cablesip:	Pleijel
Marine Surveyor:	Fugro

PC-1



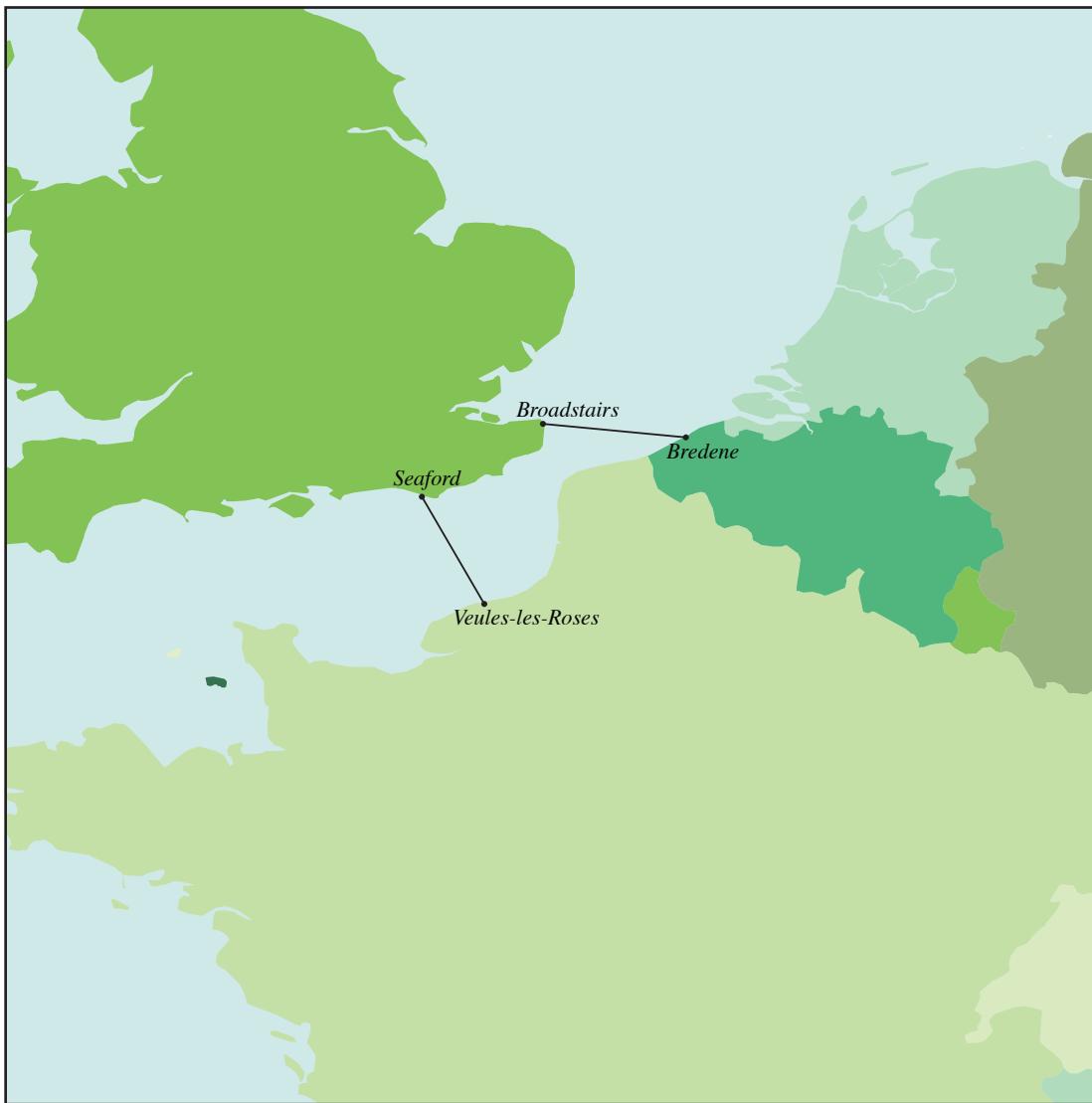
System Name:	PC-1
Landing Points:	Grover Beach (USA), Harbor Pointe (USA), Shima (Japan), Shima (Japan)
RFS Year:	2000
Est. End of Service Date:	2025
Est. System Cost (US\$):	1000000000
Total Length (kms):	21000
Initial Capacity:	1.8 Tb/s
Design Capacity:	3 Tb/s
Owners:	NTT Communications
System Supplier:	Tyco Telecommunications
Marine Surveyor:	C&C Technologies
Upgrader	Infinera
Upgrade Year	Trial Only
Upgraded Capacity	40 Gb/s, 100 Gb/s

PCCS (PACIFIC CARIBBEAN CABLE SYSTEM)

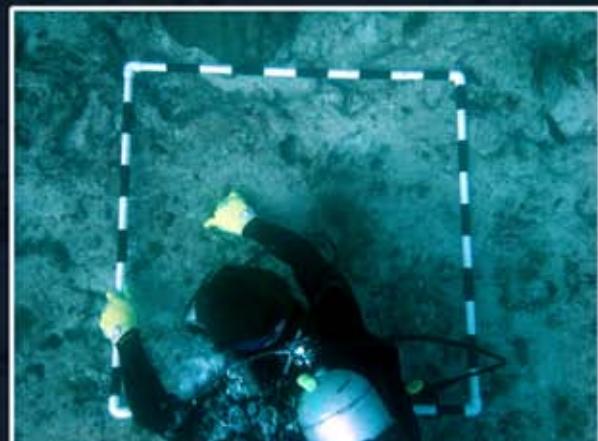
planned



System Name:	PCCS (Pacific Caribbean Cable System)
Landing Points:	Jacksonville, Florida (USA), Manta (Ecuador), Tortola, Puerto Rico, Aruba, Curacao, Cartagena (Colombia), Maria Chiquita and Balboa (Panama)
RFS Year:	2014
Est. End of Service Date:	2039
Total Length (kms):	6000
Initial Capacity:	100 Gb/s
Design Capacity:	80 Tb/s
Owners:	Cable & Wireless Communications, Setar, Telconet, Telefónica Global Solutions, United Telecommunication Services
System Supplier:	Alcatel-Lucent Submarine Networks



System Name:	PEC
Landing Points:	Bredene (Belgium), Broadstairs (United Kingdom), Seaford (United Kingdom), Veules-les-Roses (France)
RFS Year:	1999
Est. End of Service Date:	2024
Total Length (kms):	117
Initial Capacity:	10 Gb/s
Owners:	Global Crossing



Marine Engineering

Environmental Engineering

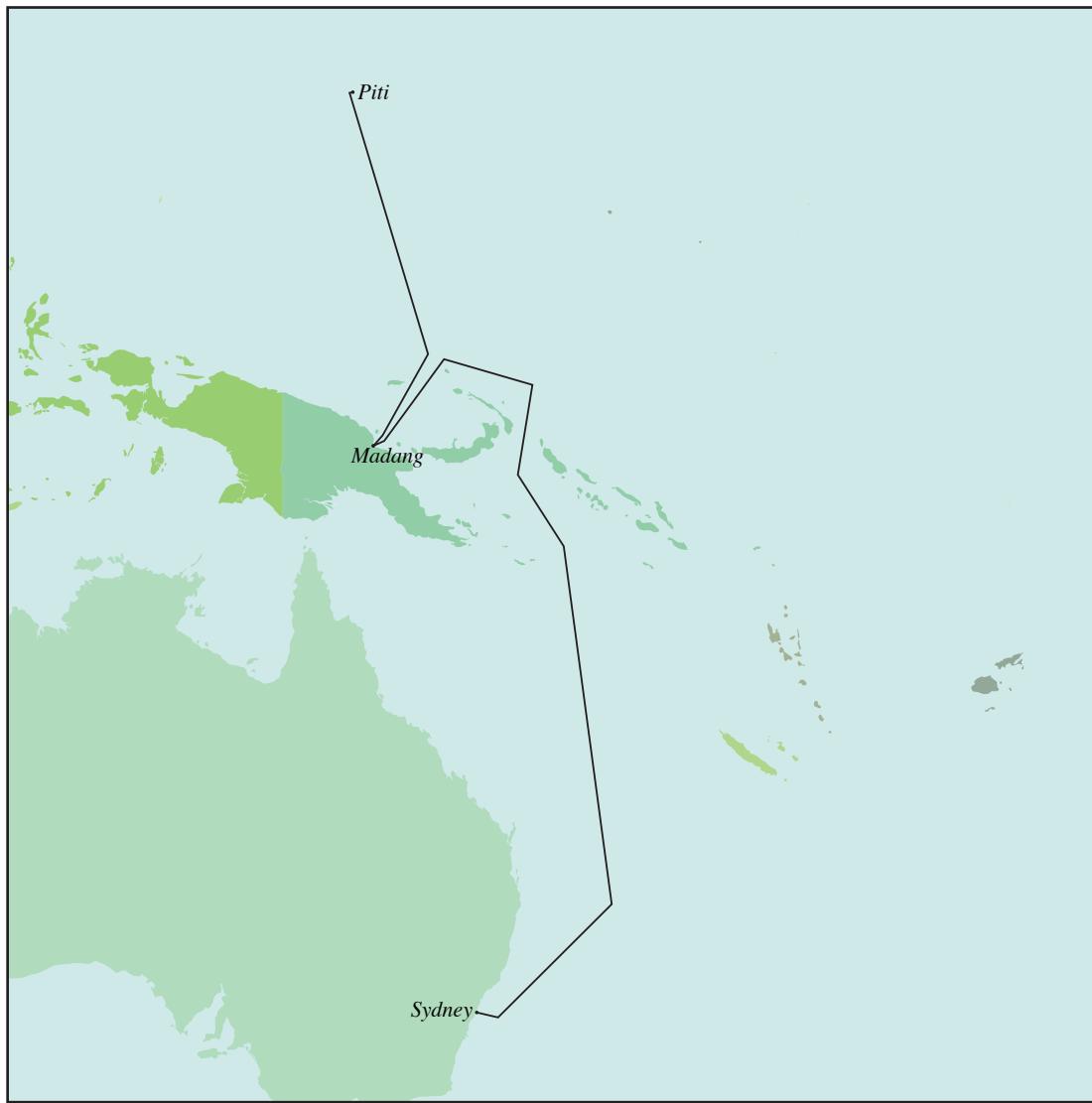
Telecommunications

Alternative Energy

Fort Lauderdale - FL

Panama City Beach - FL Melbourne - FL Barrington - RI Oxnard - CA

www.greateasterngroup.com

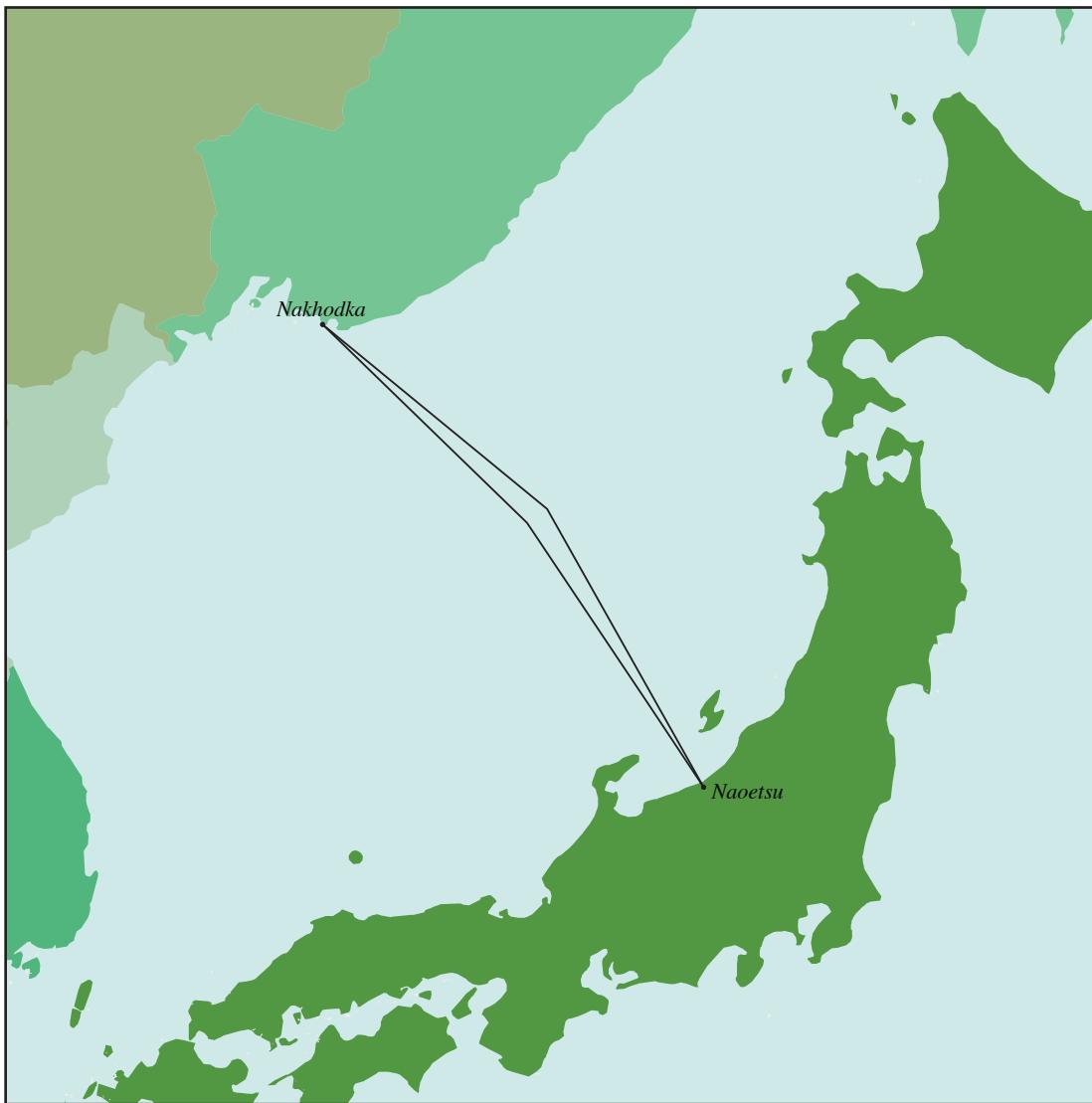


System Name:	PPC-1
Landing Points:	Madang (Papua New Guinea), Piti (Guam), Sydney (Australia)
RFS Year:	2009
Est. End of Service Date:	2034
Est. System Cost (US\$):	200000000
Total Length (kms):	7185
Initial Capacity:	40 Gb/s
Design Capacity:	2.56 Tb/s
Owners:	PIPE Networks Ltd.
System Supplier:	Tyco Telecommunications
System Installer:	Tyco Telecommunications
Cablesip:	Durable, Decisive
Upgrader	Infinera
Upgrade Year	2012
Upgraded Capacity	100 Gb/s

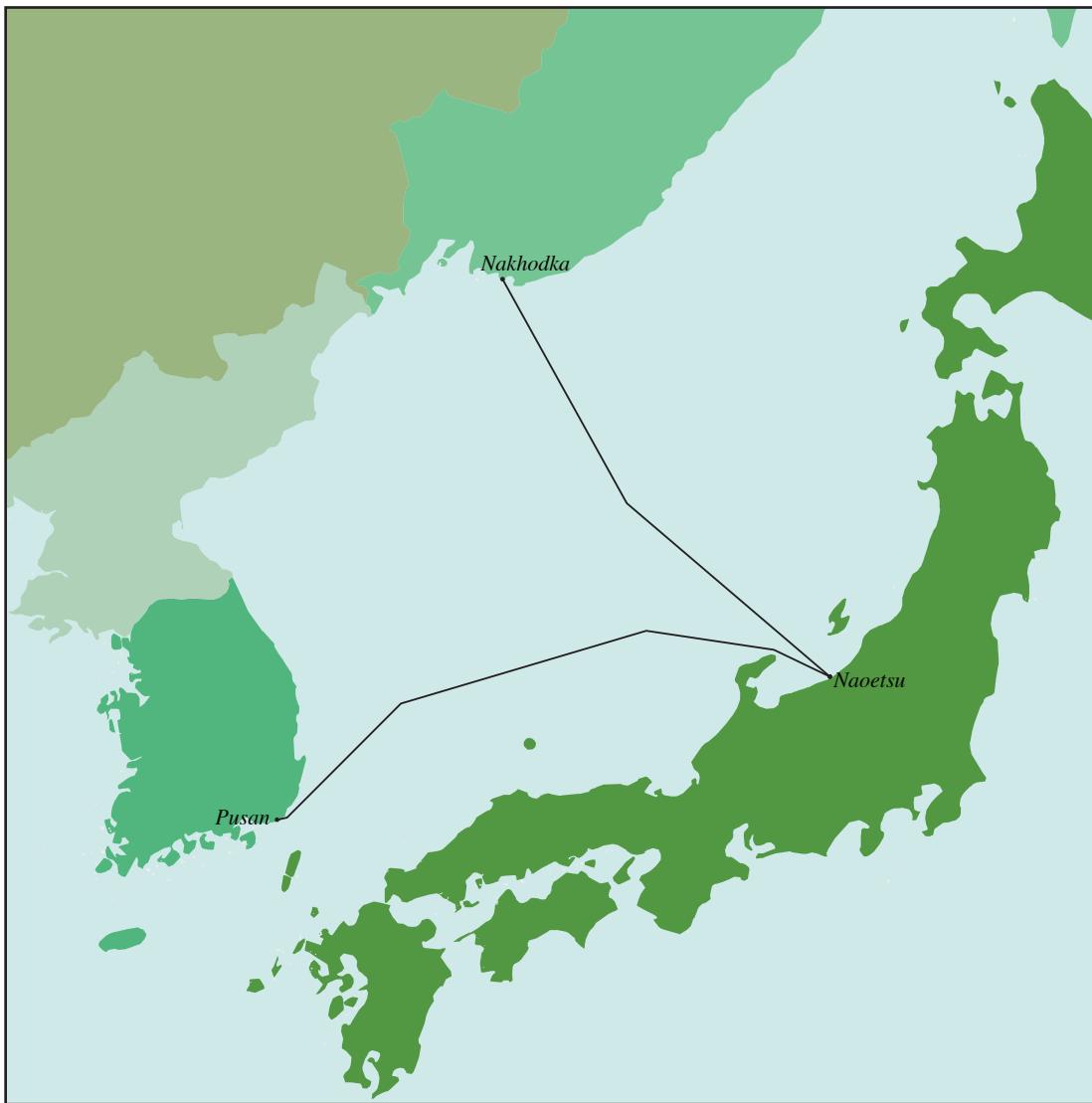
QATAR-UAE



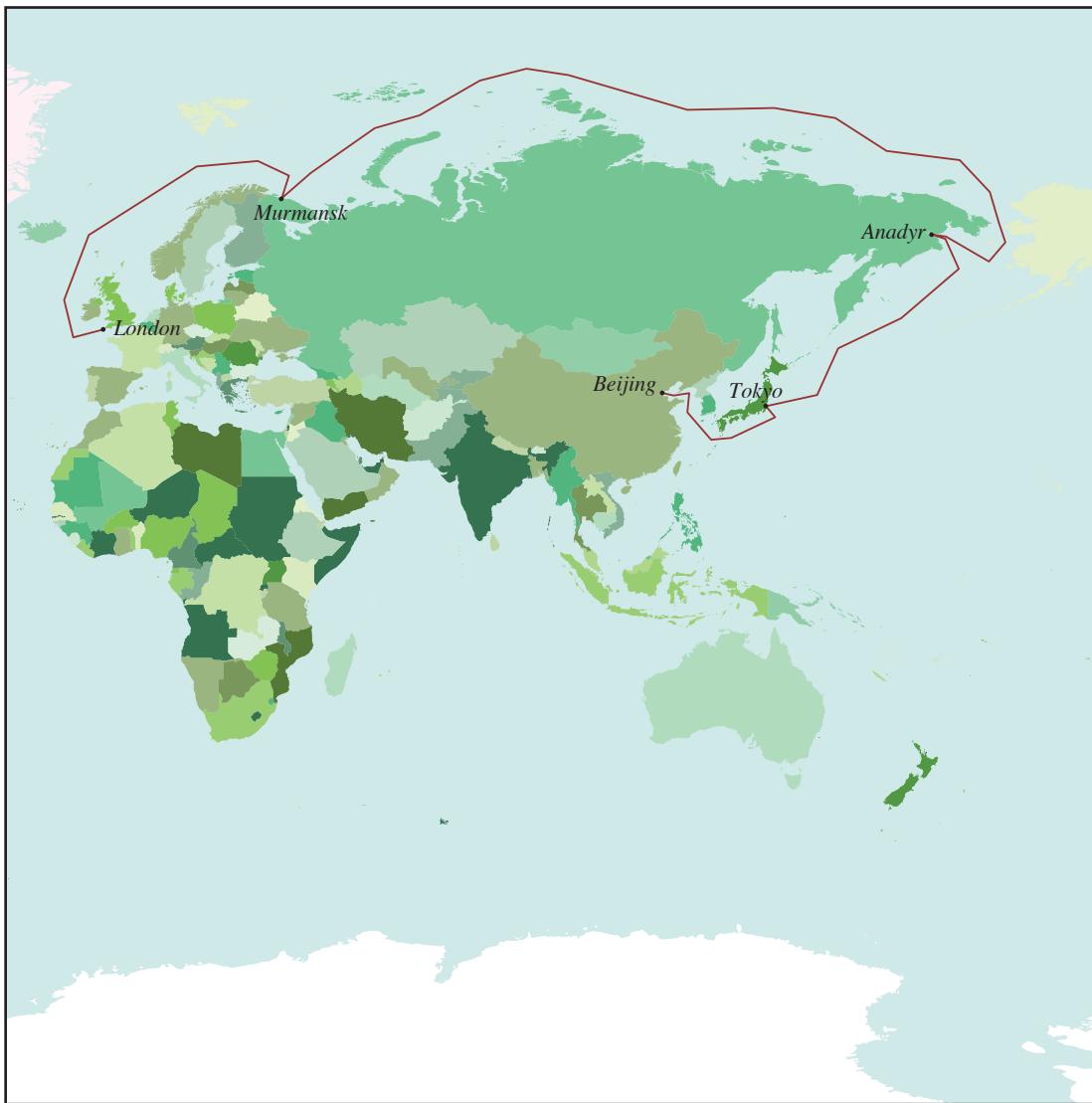
System Name:	Qatar-UAE
Landing Points:	Abudabi (UAE), Das (UAE), Doha (Qatar), Halul (Qatar)
RFS Year:	2004
Est. End of Service Date:	2029
Total Length (kms):	200
Initial Capacity:	20 Gb/s
System Installer:	Global Marine Systems Limited
Cablesip:	Sovereign



System Name:	RJCN
Landing Points:	Nakhodka (Russia), Naoetsu (Japan)
RFS Year:	2006
Est. End of Service Date:	2031
Total Length (kms):	1800
Initial Capacity:	640 Gb/s
Owners:	Rostelecom



System Name:	RJK
Landing Points:	Nakhodka (Russia), Naoetsu (Japan), Pusan (South Korea)
RFS Year:	1994
Est. End of Service Date:	2019
Est. System Cost (US\$):	93000000
Total Length (kms):	1762
Initial Capacity:	1 Gb/s
Owners:	Rostelecom
System Supplier:	Alcatel Submarine Networks, Ocean Cable Company Segments B2-3
System Installer:	KDD
Cablesip:	Kuroshio Maru, Maersk Recorder (473 km)



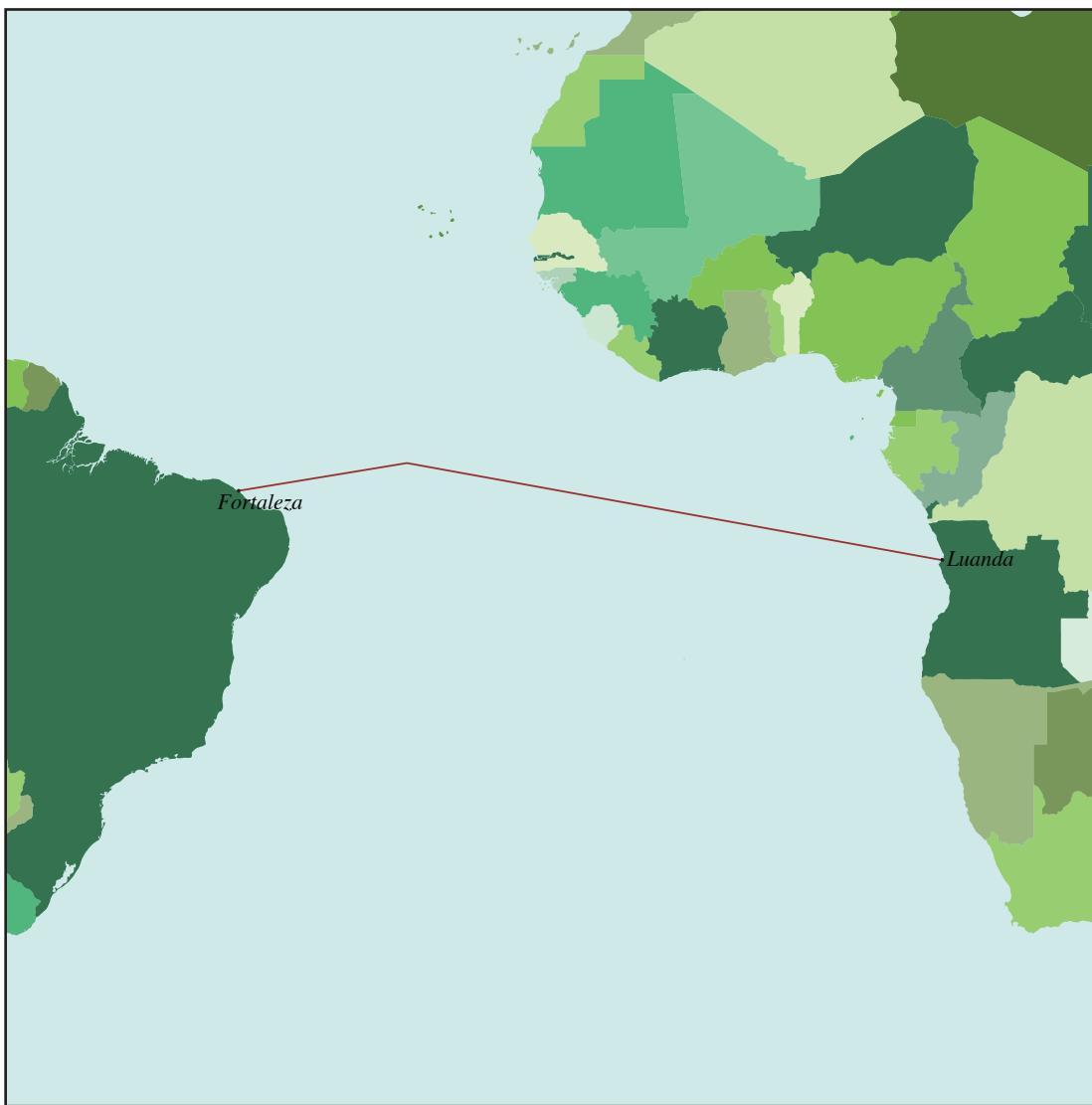
System Name:	ROTACS
Landing Points:	London (UK), Murmansk (Russia), Anadyr (Russia), Beijing (China), Tokyo (Japan)
RFS Year:	2014
Est. End of Service Date:	2039
Est. System Cost (US\$):	880000000
Total Length (kms):	14907
Design Capacity:	100 Gb/s
Owners:	Government of Russia, Polarnet Project Ltd.
System Supplier:	TE SubCom



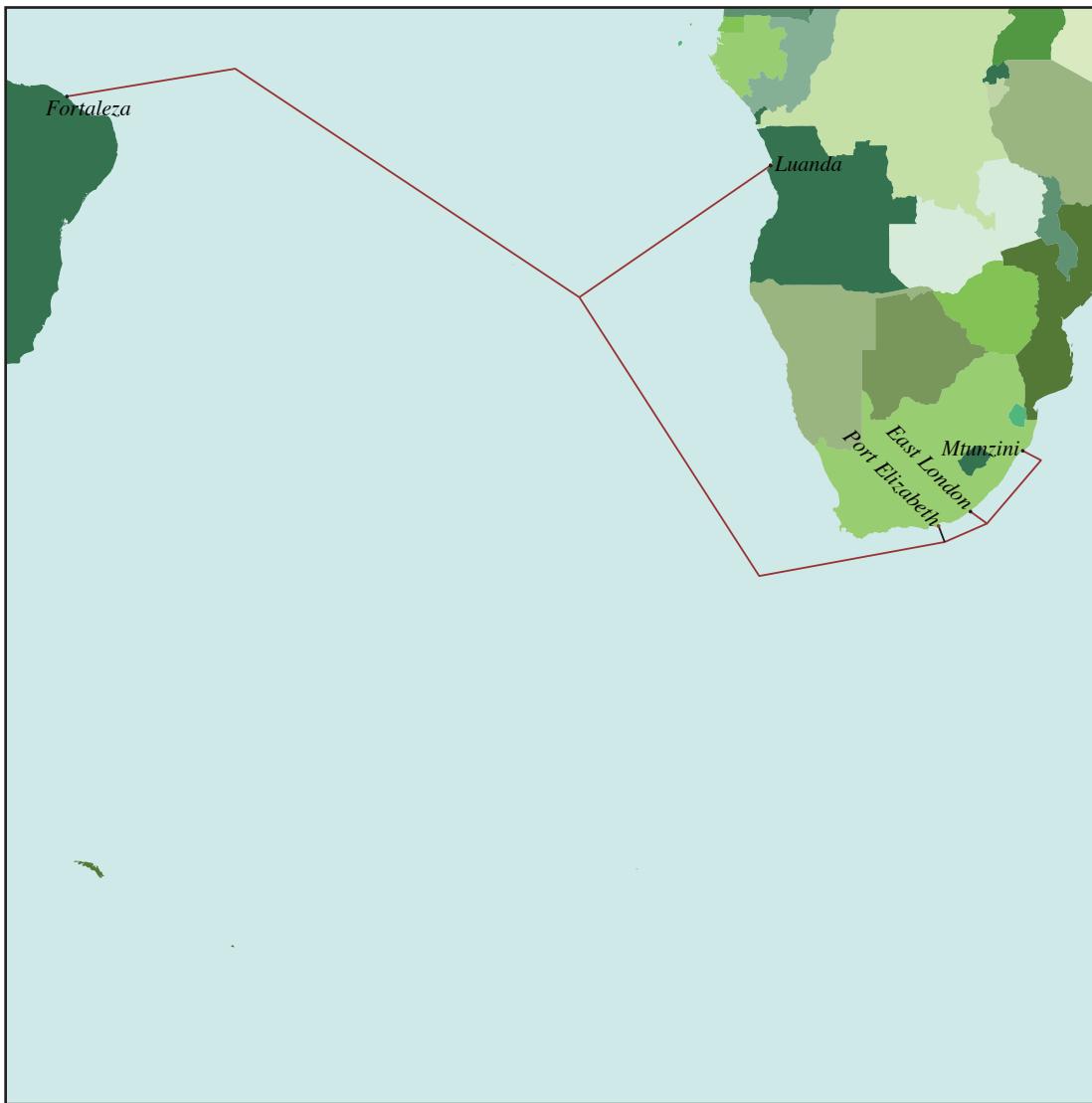
System Name:	SAC
Landing Points:	Fortaleza (Brazil), Fort Amadour (Panama), Las Toninas (Argentina), Lurin (Peru), Puerto Viejo (Venezuela), Rio de Janeiro (Brazil), Santos (Brazil), St Croix (US Virgin Islands), Valparaiso (Chile)
RFS Year:	2001
Est. End of Service Date:	2026
Total Length (kms):	20000
Initial Capacity:	100 Gb/s
Design Capacity:	1.2 Tb/s
Owners:	Global Crossing
System Supplier:	Alcatel Submarine Networks
Upgrader	Infinera
Upgrade Year	2010, 2011
Upgraded Capacity	10 Gb/s, 40 Gb/s

SACS (SOUTH ATLANTIC CABLE SYSTEM)

planned

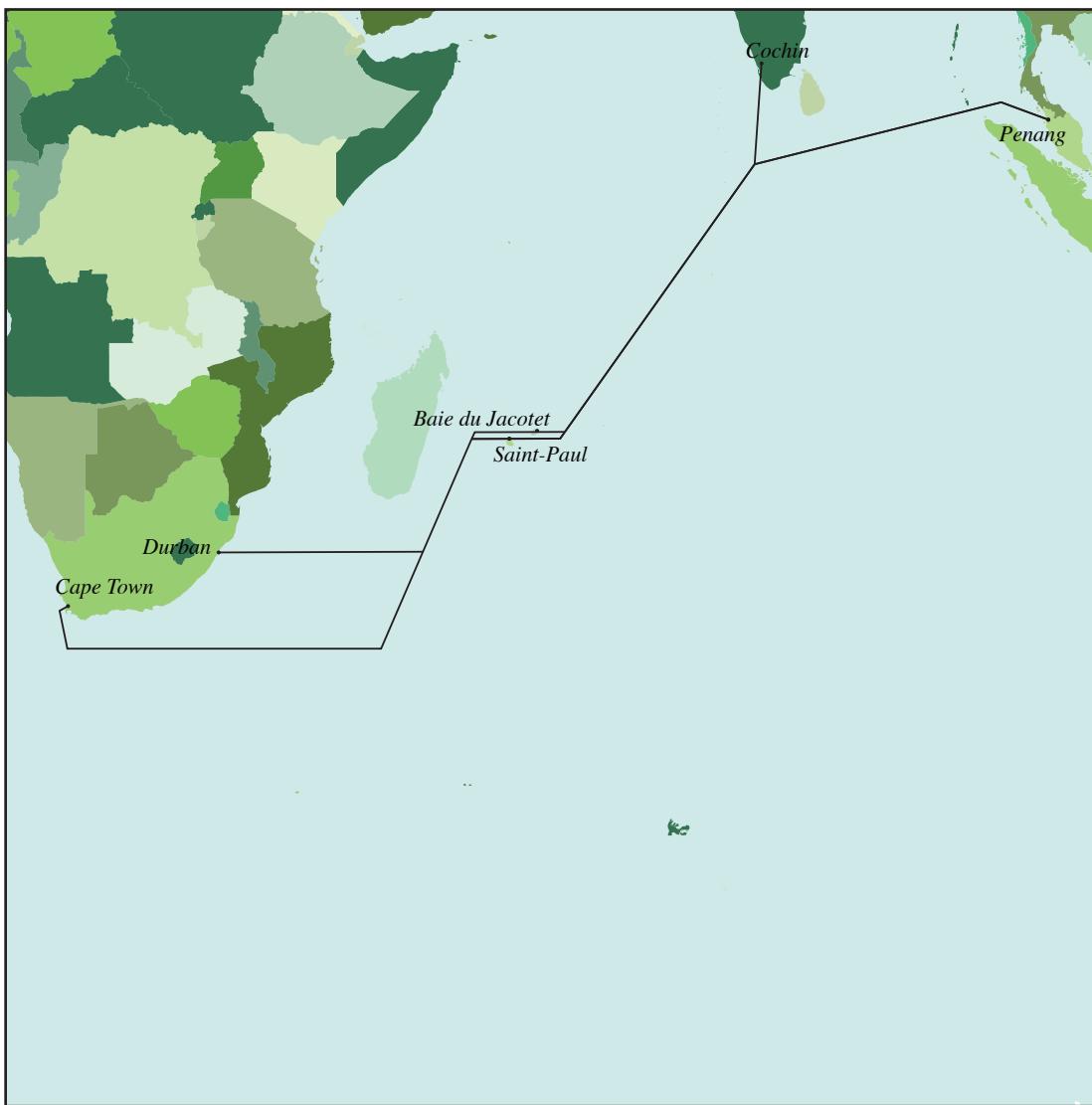


System Name:	SACS (South Atlantic Cable System)
Landing Points:	Luanda (Angola), Fortaleza (Brazil)
RFS Year:	2014
Est. End of Service Date:	2039
Initial Capacity:	100 Gb/s
Fiber Information:	4 Fiber Pairs
Owners:	Angola Cables



System Name:	SAEx (South Atlantic Express)
Landing Points:	East London (South Africa), Fortaleza (Brazil), Luanda (Angola), Mtunzini (South Africa), Port Elizabeth (South Africa)
RFS Year:	2014
Est. End of Service Date:	2039
Est. System Cost (US\$):	400000000
Total Length (kms):	9900
Design Capacity:	16 Tb/s
Fiber Information:	2 Fiber Pairs, 8 Tb/s per pair, 100 Gb/s per wavelength, 80 wavelengths (+ optionally 1 additional Fiber Pair for Angola)
Owners:	eFive Telecoms, GlobeNet
System Supplier:	TE SubCom

SAFE



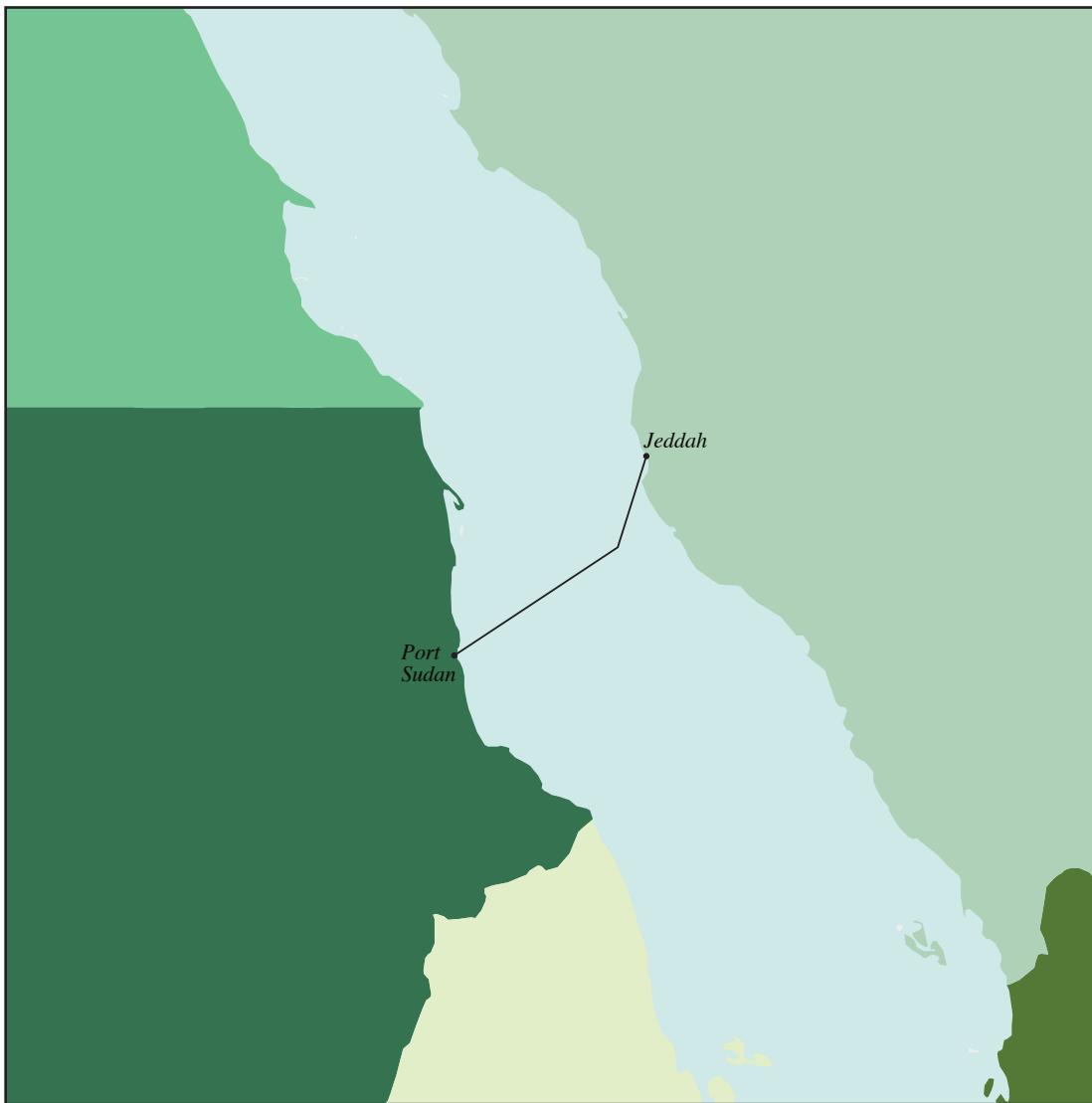
System Name:	SAFE
Landing Points:	Baie du Jacotet (Mauritius), Cape Town (South Africa), Cochin (India), Durban (South Africa), Penang (Malaysia), Saint-Paul (Réunion)
RFS Year:	2002
Est. End of Service Date:	2027
Total Length (kms):	13104
Initial Capacity:	440 Gb/s
Owners:	France Telecom, Tata Communications, Telekom SA
System Supplier:	Tyco Telecommunications
System Installer:	FCR
Cablesip:	Vercors

SAM-1



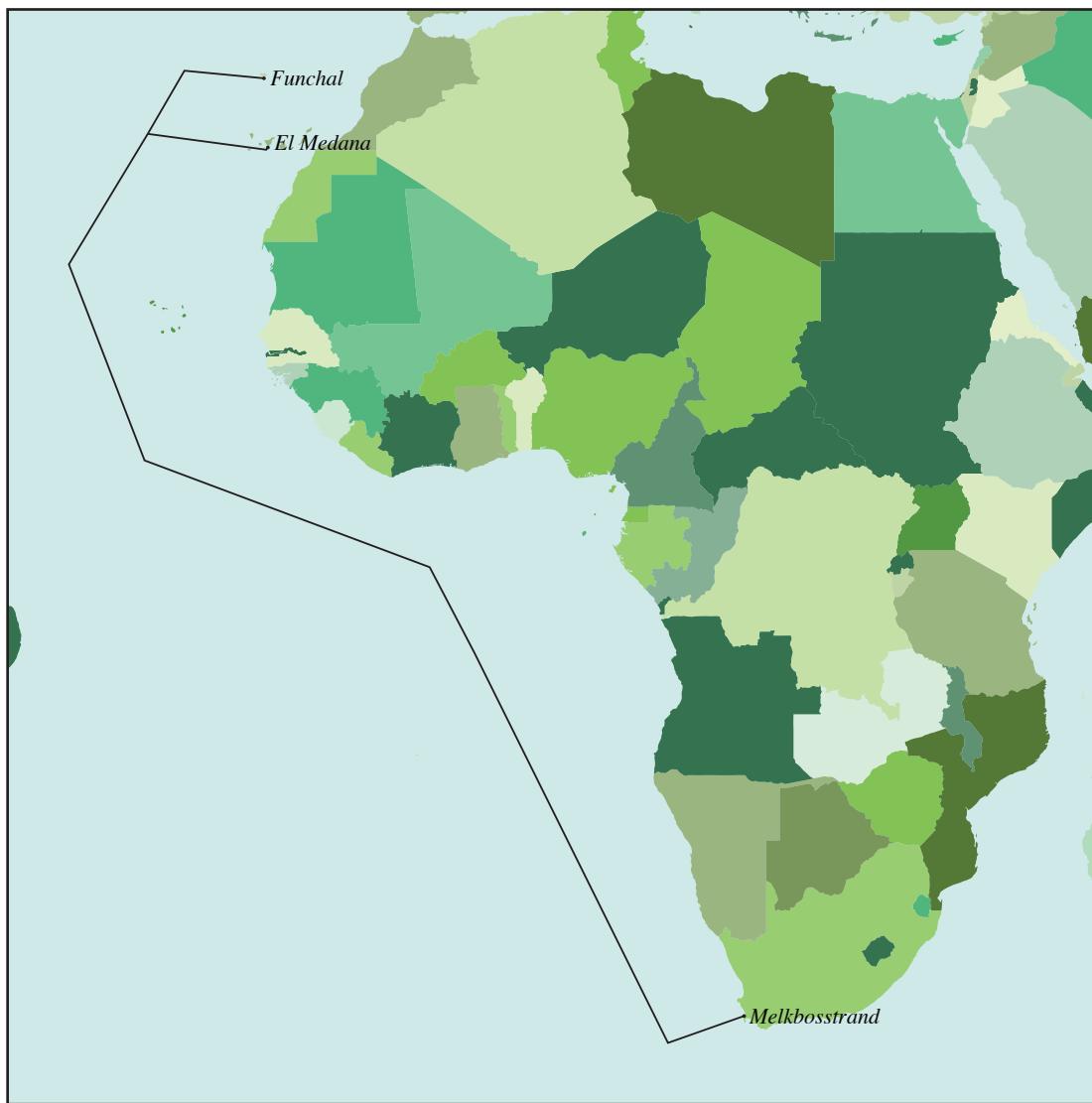
System Name:	SAM-1
Landing Points:	Arica (Chile), Barranquilla (Colombia), Boca Raton (USA), Fortaleza (Brazil), Las Toninas (Argentina), Lurin (Peru), Mancora (Peru), Puerto Barrios (Guatemala), Puerto San Jose (Guatemala), Rio de Janeiro (Brazil), Salinas (Ecuador), Salvador (Brazil), San Juan (Puerto Rico), Santos (Brazil), Valparaiso (Chile)
RFS Year:	2001
Est. End of Service Date:	2026
Total Length (kms):	19964
Initial Capacity:	160 Gb/s
Design Capacity:	1.92 Tb/s
Owners:	Telefonica
System Supplier:	Tyco Telecommunications
Marine Surveyor:	C&C Technologies
Upgrader	Infinera
Upgrade Year	2009, 2010, 2011, 2012
Upgraded Capacity	10 Gb/s, 40 Gb/s, 100 Gb/s

SAS-1



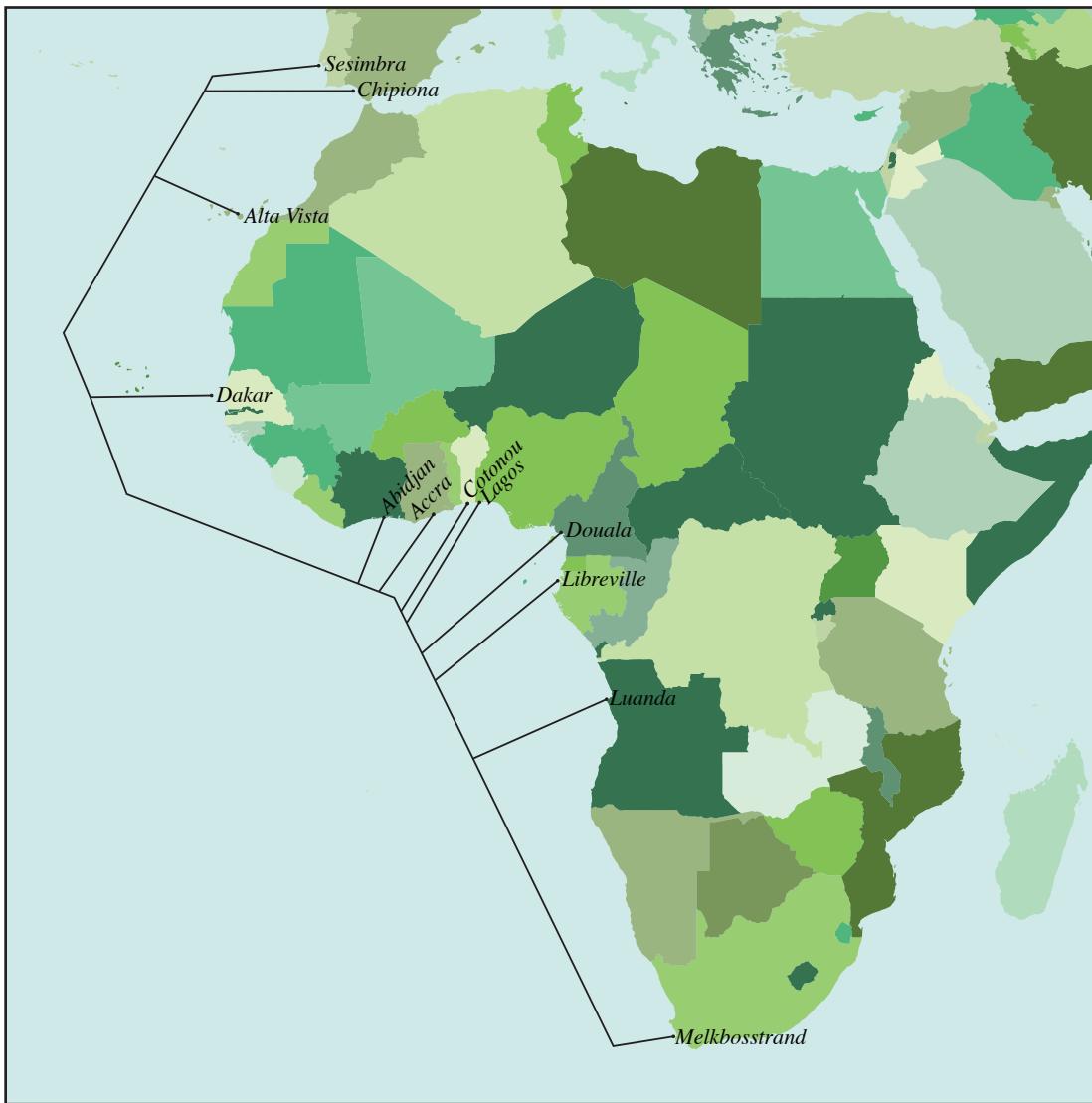
System Name:	SAS-1
Landing Points:	Jeddah (Saudi Arabia), Port Sudan (Sudan)
RFS Year:	2003
Est. End of Service Date:	2028
Total Length (kms):	333
Initial Capacity:	1.28 Tb/s
Fiber Information:	4 Fiber Pairs
Owners:	STC (Saudi Arabia)

SAT-2



System Name:	SAT-2
Landing Points:	El Medano (Spain), Funchal (Portugal), Melkbosstrand (South Africa)
RFS Year:	1993
Est. End of Service Date:	2018
Est. System Cost (US\$):	270000000
Total Length (kms):	9500
Initial Capacity:	560 Mb/s
Owners:	Consortium
System Supplier:	Standard Telephones & Cables Ltd, Alcatel Submarine Networks
System Installer:	BT Marine, FCR
Cableship:	Vercors, Sovereign

SAT-3



System Name:	SAT-3
Landing Points:	Abidjan (Ivory Coast), Accra (Ghana), Alta Vista (Spain), Chipiona (Spain), Cotonou (Benin), Dakar (Senegal), Douala (Cameroon), Lagos (Nigeria), Libreville (Gabon), Luanda (Angola), Melkbosstrand (South Africa), Sesimbra (Portugal)
RFS Year:	2002
Est. End of Service Date:	2027
Total Length (kms):	13000
Initial Capacity:	340 Gb/s
Fiber Information:	2 Fiber Pairs
Owners:	Angola Telecom, AT&T, British Telecom, Camtel of Cameroon, CIT, Cote d'Ivoire Telecom, CPRM, C&W, France Telecom (12.08%), Ghana Telecom, Maroc Telecom of Morocco, Mauritius Telecom, Nigerian Telecommunications Ltd, Nitel (8.39%), OPT Benin, OPT Gabon, PT Comunicações, PT Comunicações, Sonatel, Tata Communications (8.93%), TCI (12.42%), Telecom Namibia, Telefonica, Telekom SA, Togo Telecom
System Supplier:	Alcatel Submarine Networks

SCAN

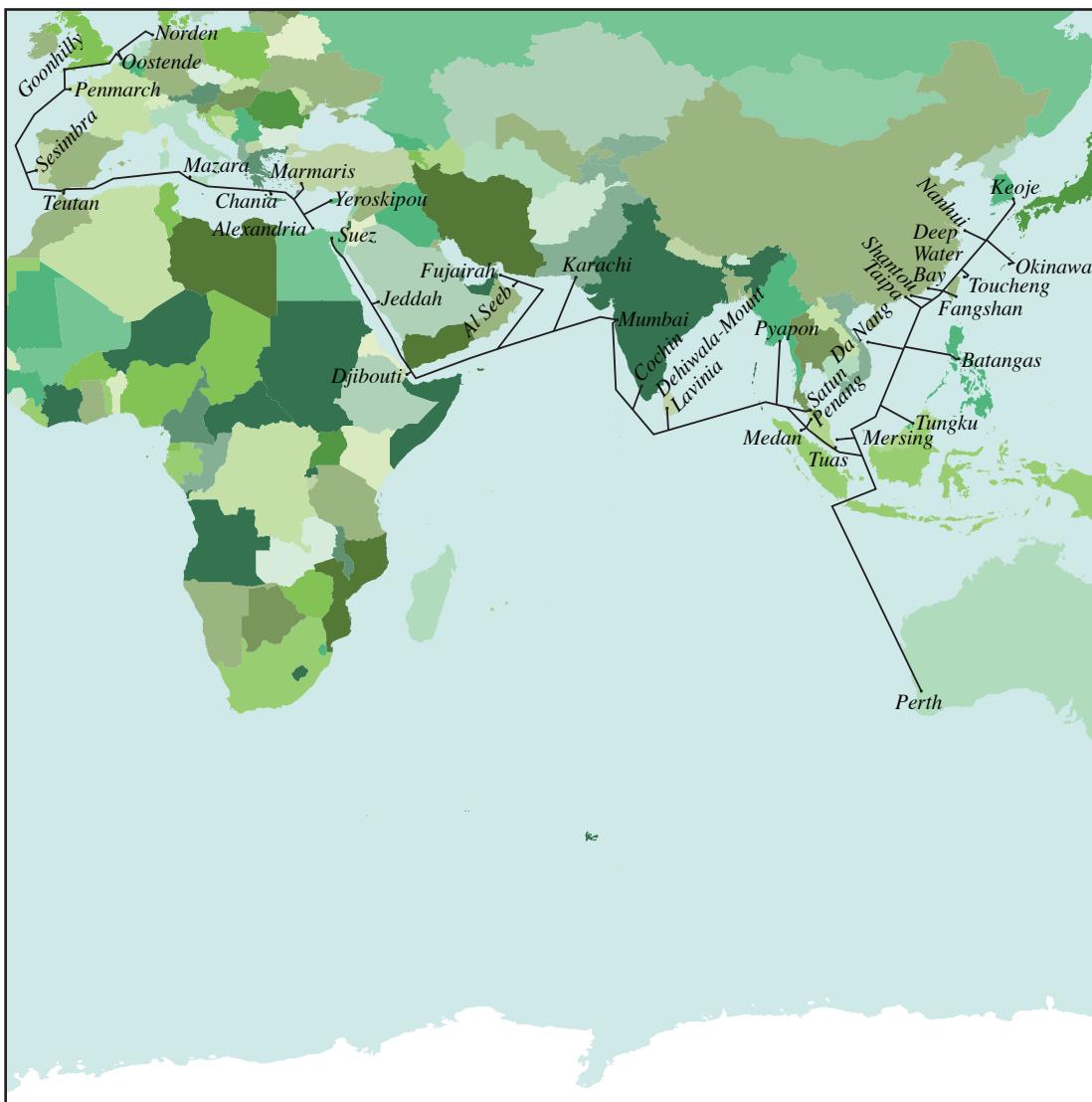


System Name:	SCAN
Landing Points:	Hong Kong (China), Jakarta (Indonesia), Tuas (Singapore), Vung Tau (Vietnam)
RFS Year:	2011
Est. End of Service Date:	2036
Est. System Cost (US\$):	337094200
Total Length (kms):	4300
Initial Capacity:	40 Gb/s
Design Capacity:	1.92 Tb/s
Owners:	PT. Fangbian Iskan Corporindo, Telemedia Pacific Inc.
System Supplier:	NEC



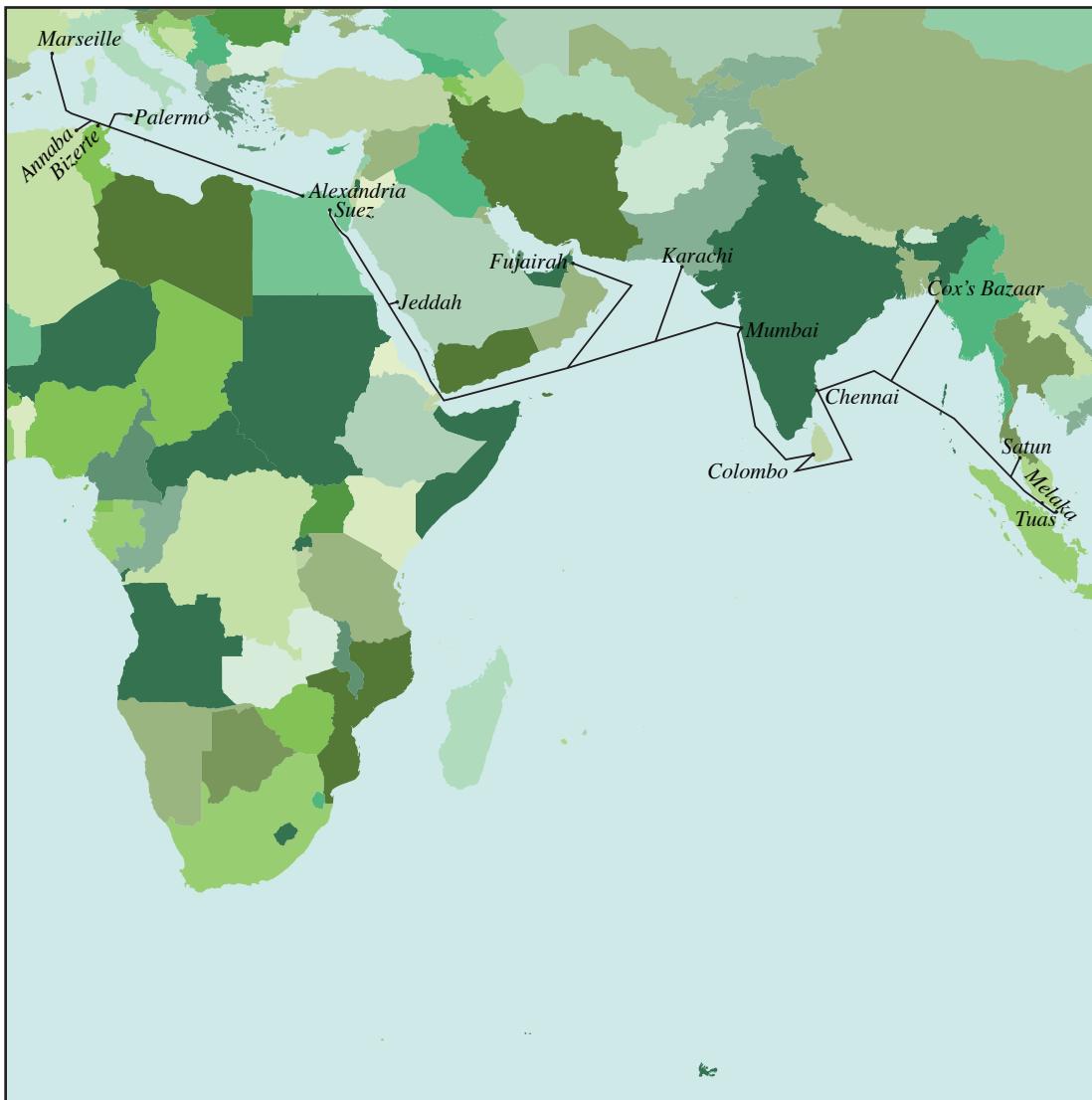
System Name:	SCF-CN
Landing Points:	Basseterre (St. Kitts & Nevis), Bridgetown (Barbados), Kingstown (St. Vincent), Martinique (Martinique), Port Castries (St Lucia), Port Salines (Grenada), Redcar (Trinidad and Tobago)
RFS Year:	2007
Est. End of Service Date:	2032
Total Length (kms):	1186
Initial Capacity:	1.28 Tb/s
Owners:	SCF (Group Loret)

SEA-ME-WE 3



System Name:	SEA-ME-WE 3
Landing Points:	Alexandria (Egypt), Al Seeb (Oman), Batangas (Philippines), Chania (Greece), Cochin (India), Da Nang (Vietnam), Deep Water Bay (Hong Kong), Dehiwala-Mount Lavinia (Sri Lanka), Djibouti (Republic of Djibouti), Fangshan (Taiwan), Fujairah (United Arab Emirates), Goonhilly (United Kingdom), Jeddah (Saudi Arabia), Karachi (Pakistan), Keoje (South Korea), Marmaris (Turkey), Mazara (Italy), Medan (Indonesia), Mersing (Malaysia), Mumbai (India), Nanhui District (China), Norden (Germany), Okinawa Prefecture (Japan), Oostende (Belgium), Penang (Malaysia), Penmarch (France), Perth (Australia), Pyapon (Myanmar), Satun (Thailand), Sesimbra (Portugal), Shantou (China), Suez (Egypt), Taipa (Macau), Tetouan (Morocco), Toucheng (Taiwan), Tuas (Singapore), Tungku (Brunei), Yeroskipos (Cyprus)
RFS Year:	1999
Est. End of Service Date:	2024
Est. System Cost (US\$):	15000000000
Total Length (kms):	37000
Initial Capacity:	70 Gb/s
Owners:	SEA-ME-WE 3 Consortium
System Supplier:	Alcatel Submarine Networks, Pirelli, KDD-SCS, Tyco Telecommunications
Cablesip:	Agile, Cable Installer, Maersk Defender, Maersk Fighter, Fresnel, Fu Lai, Nexus, Leon Thevinin, Vercors, Raymond Croze
Marine Surveyor:	C&C Technologies

SEA-ME-WE 4



System Name:	SEA-ME-WE 4
Landing Points:	Alexandria (Egypt), Annaba (Algeria), Bizerte (Tunisia), Chennai (India), Colombo (Sri Lanka), Cox's Bazaar (Bangladesh), Fujairah (United Arab Emirates), Jeddah (Saudi Arabia), Karachi (Pakistan), Marseille (France), Melaka (Malaysia), Mumbai (India), Mumbai (India), Palermo (Italy), Satun (Thailand), Suez (Egypt), Tuas (Singapore)
RFS Year:	2005
Est. System Cost (US\$):	500000000
Total Length (kms):	18800
Fiber Information:	2 Fiber Pairs
Owners:	Algerie Telecom, Algeria, Bangladesh Submarine Cable Company Limited (BSCCL), Bangladesh, Bharti Airtel, CAT Telecom (Thailand), Du, France Telecom, Pakistan Telecommunication Company Limited, Pakistan, Saudi Telecom Company (STC), Saudi Arabia, Sri Lanka Telecom Limited (SLT), Sri Lanka, Tata Communications (Network Administrator), Telecom Egypt, Telecom Italia Sparkle, Telekom Malaysia, Tunisie Telecom (Tunisia), Verizon
System Supplier:	Alcatel Submarine Networks, Fujitsu
Cablesip:	Niwa, Descartes
Upgrader	Alcatel-Lucent Submarine Networks, Ciena
Upgrade Year	2011
Upgraded Capacity	40 Gb/s



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For more information visit www.SubCom.com.

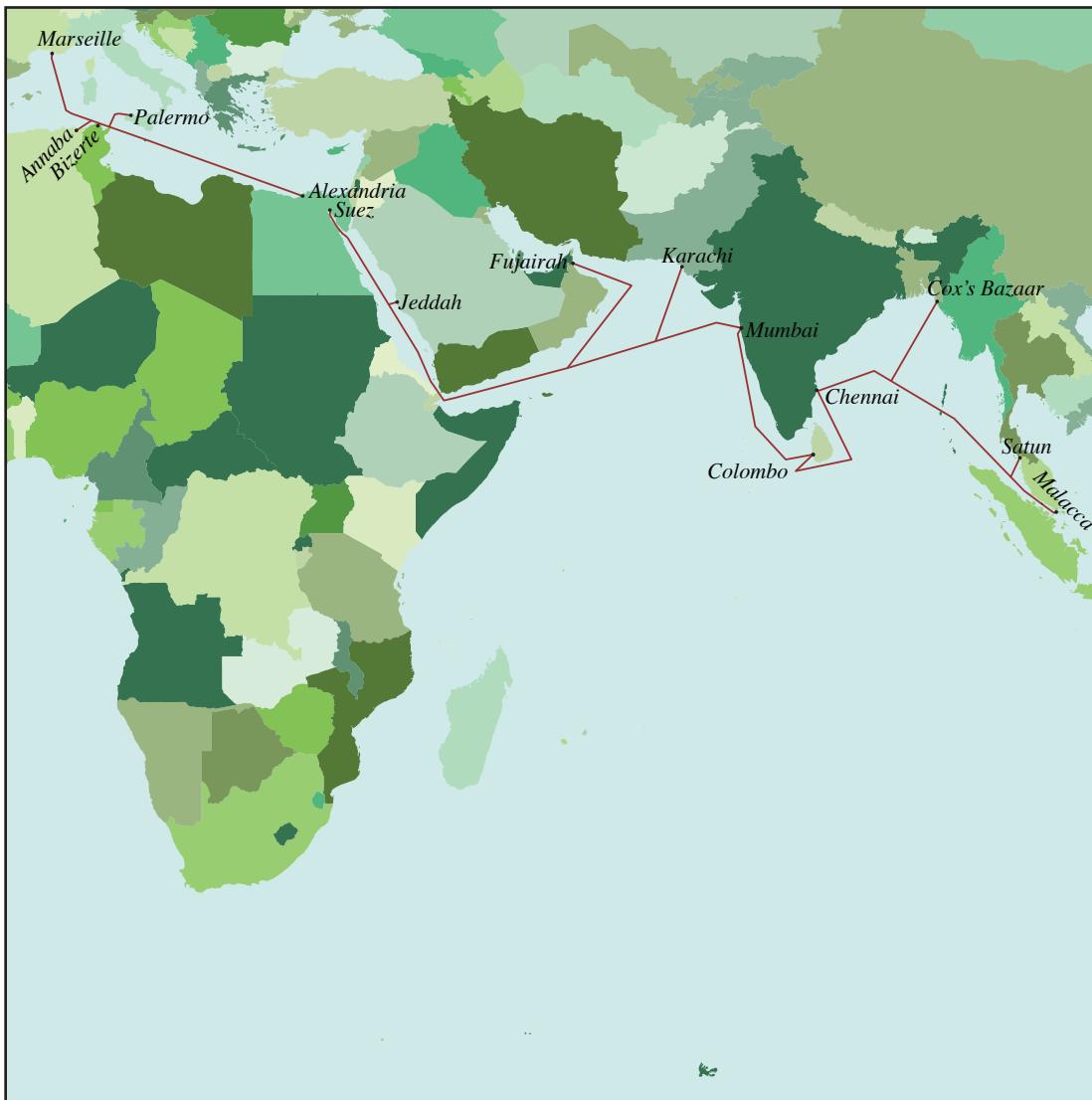


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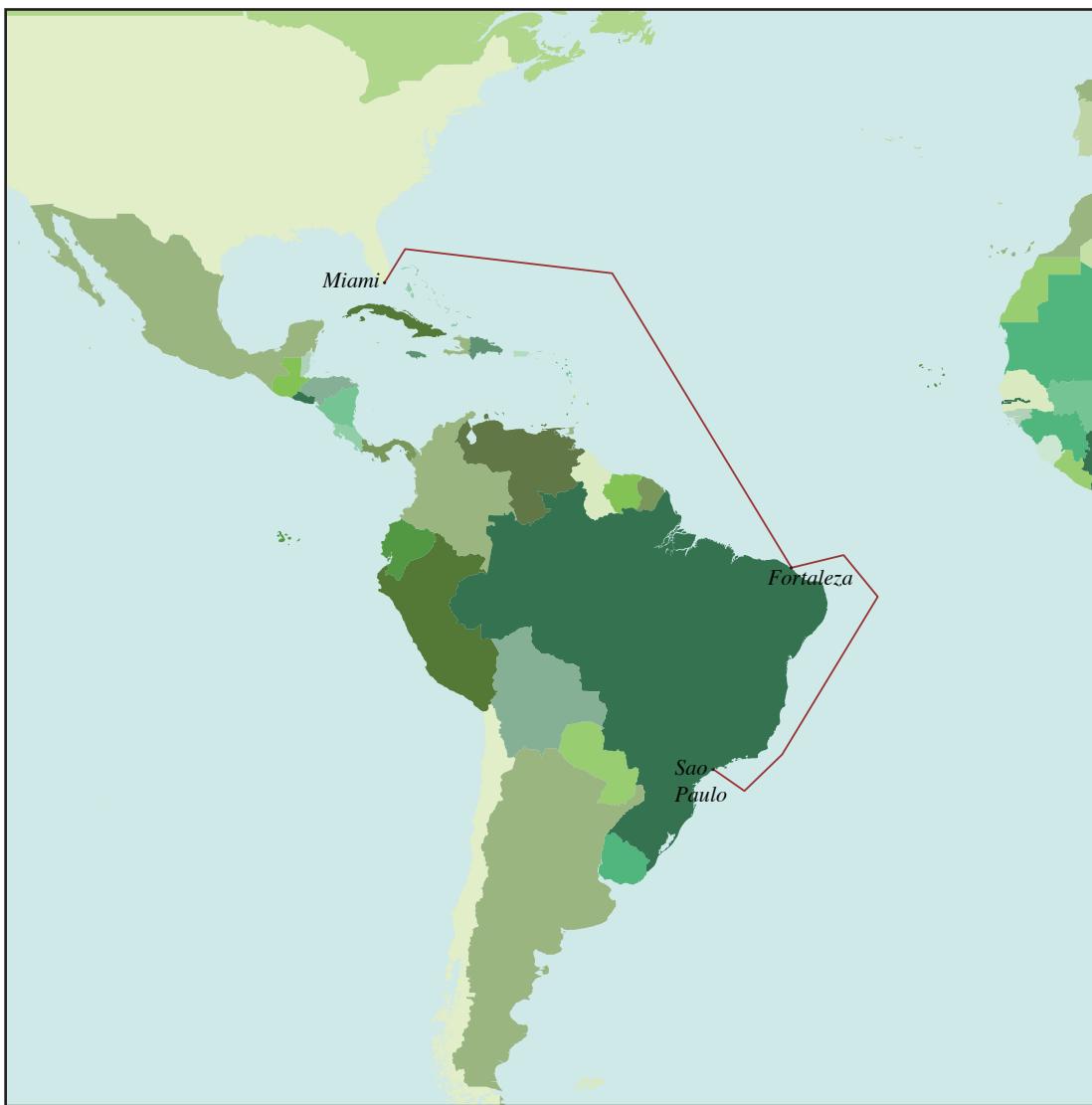
www.youtube.com/user/SubComChannel



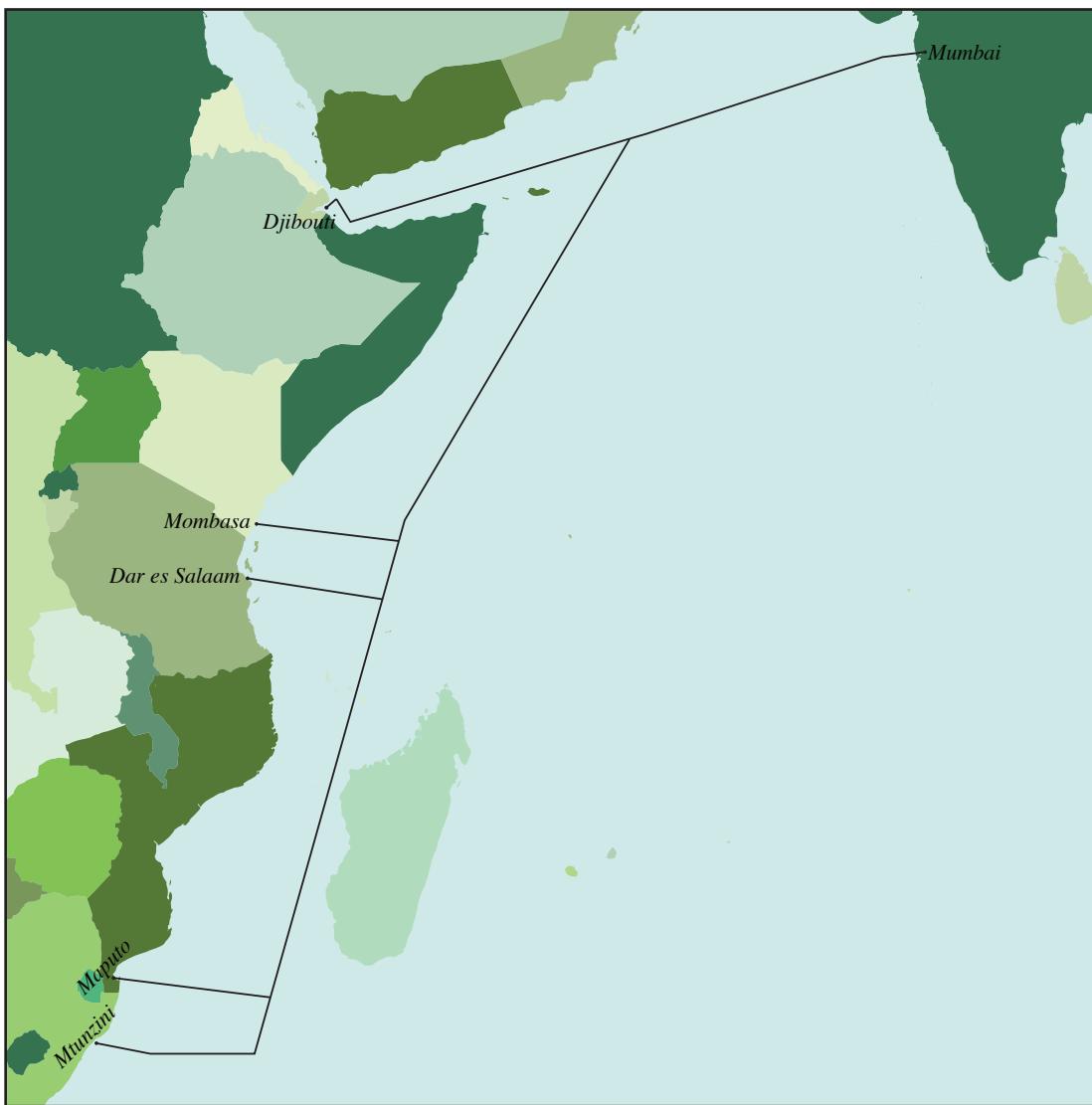
SUBCOM



System Name:	SEA-ME-WE 5
Landing Points:	Marseille (France), Annaba (Algeria), Palermo (Italy), Bizerte (Tunisia), Alexandria (Egypt), Suez (Egypt), Jeddah (Saudi Arabia), Fujairah (UAE), Karachi (Pakistan), Mumbai (India), Chennai (India), Colombo (Sri Lanka), Cox's Bazar (Bangladesh), Satun (Thailand), Singapore (Singapore), Malacca (Malacca)
RFS Year:	2014
Est. End of Service Date:	2039
Est. System Cost (US\$):	10000000000
Total Length (kms):	16000
Owners:	Consortium



System Name:	Seabras-1
Landing Points:	Miami (USA), Fortaleza (Brazil), Sao Paolo (Brazil)
RFS Year:	2014
Est. End of Service Date:	2039
Est. System Cost (US\$):	700000000
Total Length (kms):	10750
Initial Capacity:	100 Gb/s
Design Capacity:	32 Tb/s
Fiber Information:	4 Fiber Pairs
Owners:	Seaborn Networks
System Supplier:	Alcatel-Lucent Submarine Networks



System Name:	Seacom
Landing Points:	Abu Talat (Egypt), Dar es Salaam (Tanzania), Djibouti (Republic of Djibouti), Maputo (Mozambique), Mombasa (Kenya), Mtunzini (South Africa), Mumbai (India), Zafarana (Egypt)
RFS Year:	2009
Est. End of Service Date:	2034
Est. System Cost (US\$):	600000000
Total Length (kms):	13740
Initial Capacity:	110 Gb/s
Design Capacity:	1.28 Tb/s
Owners:	Convergence Partners (12.50%), Herakles Telecom LLC (25%), Industrial Promotion Services (25%), Shanduka Group (12.50%), VenFin Limited (25%)
System Supplier:	Tyco Telecommunications SSI
System Installer:	Tyco Telecommunications SSI
Cablesip:	Durable, Decisive, Dependable, Resolute, Responder

SEAK



System Name: SEAK

Landing Points: Angoon (USA), Hawk Inlet (USA), Juneau (USA), Ketchikan (USA), Petersburg (USA), Sitka (USA), Wrangell (USA)

RFS Year: 2008

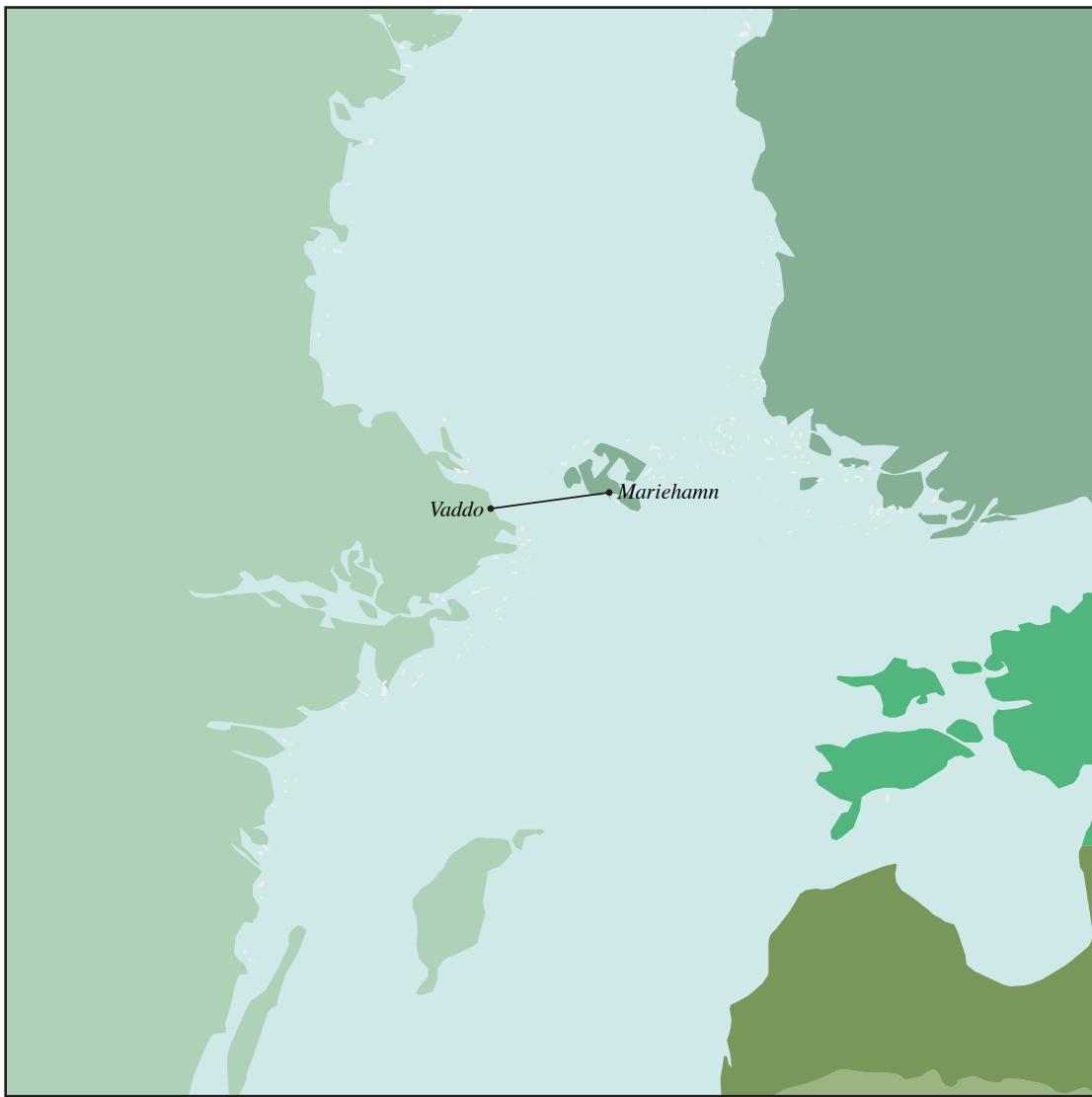
Est. End of Service Date: 2033

Initial Capacity: 10 Gb/s

Owners: GCI



System Name:	Serantau
Landing Points:	Chertimg (Malaysia), Singapore, Kuching (Indonesia), Kota Kinabalu (Indonesia), Guam, Hawaii, San Luis Obispo (USA)
RFS Year:	2015
Est. End of Service Date:	2040
Owners:	Konsortium Rangkaian Serantau Sdn Bhd [Celcom Axiata Berhad, DiGi Telecommunications Sdn Bhd, Extreme Broadband Sdn, Fiberal Sdn Bhd, Fibrecomm Network (M) Sdn Bhd, Global Transit Communications Sdn Bhd, Jaring Communications Sdn Bhd, Macro Lynx Sdn Bhd, MAXIS Berhad, MYKRIS ASIA SDN BHD, Numix Engineering Sdn Bhd, Optical Communication Engineering Sdn Bhd, Packet One Networks (M) Sdn Bhd, REDtone Marketing Sdn Bhd, SACOFA Sdn Bhd, Sarawak Information Systems Sdn Bhd, SEDCO Communications Sdn Bhd, Teliti Computers Sdn Bhd, TM Berhad, TTdotCom Sdn Bhd, U-Mobile Sdn Bhd, V Telecoms Berha, Wellcom Communications (M) Sdn Bhd, YTL Communications Sdn Bhd]



System Name: SFL

Landing Points: Mariehamn (Finland), Vaddo (Sweden)

RFS Year: 1994

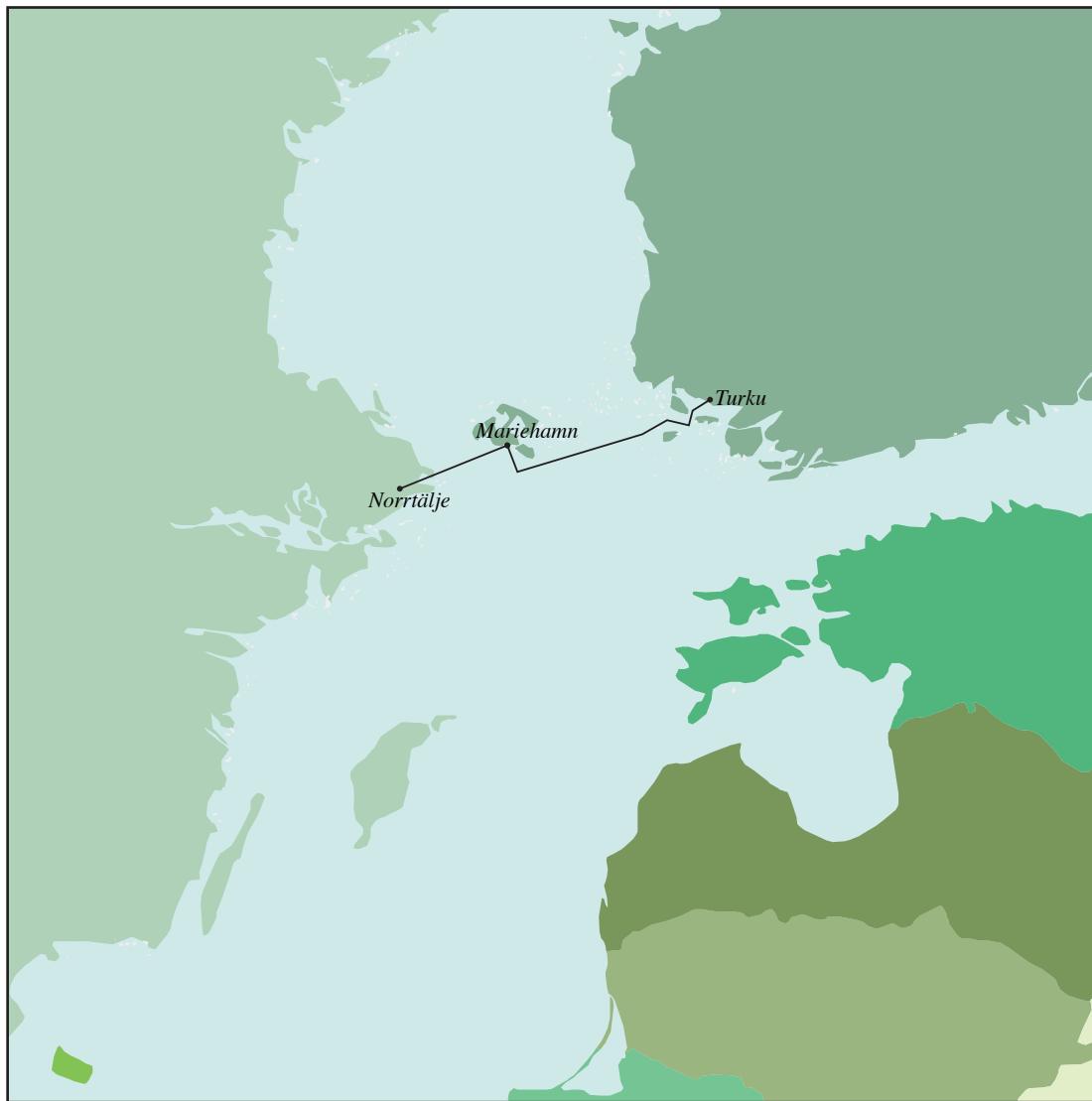
Est. End of Service Date: 2029

Total Length (kms): 64

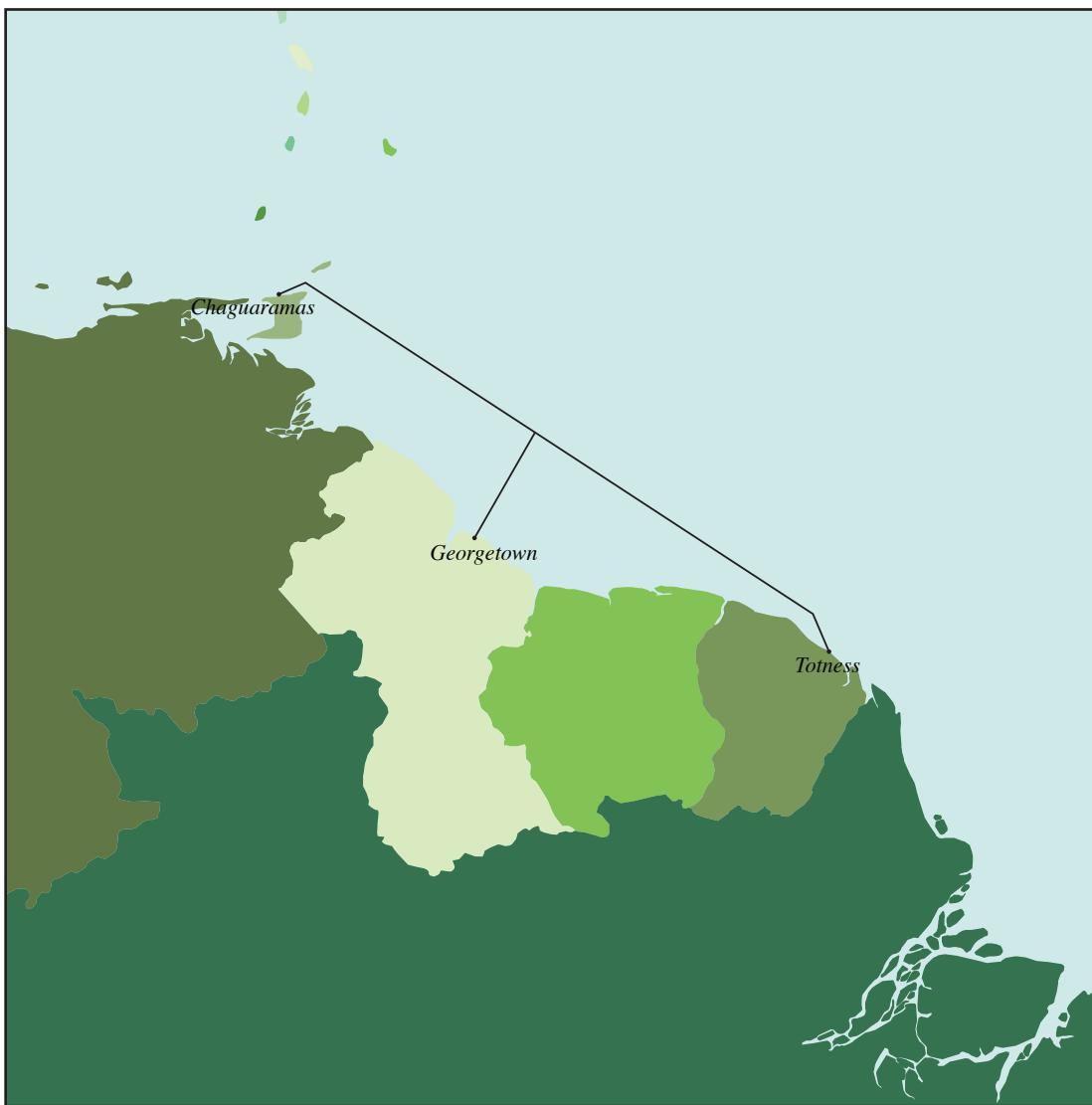
Initial Capacity: 2.5 Gb/s

Owners: Teliasonera

SFS-4



System Name:	SFS-4
Landing Points:	Mariehamn (Finland), Norrtälje (Sweden), Turku (Finland)
RFS Year:	1993
Est. End of Service Date:	2018
Total Length (kms):	254
Initial Capacity:	40 Gb/s
Owners:	TeliaSonera
System Supplier:	Standard Telephones & Cables Ltd
System Installer:	AKN
Cableship:	Pleijel, Telepaatti



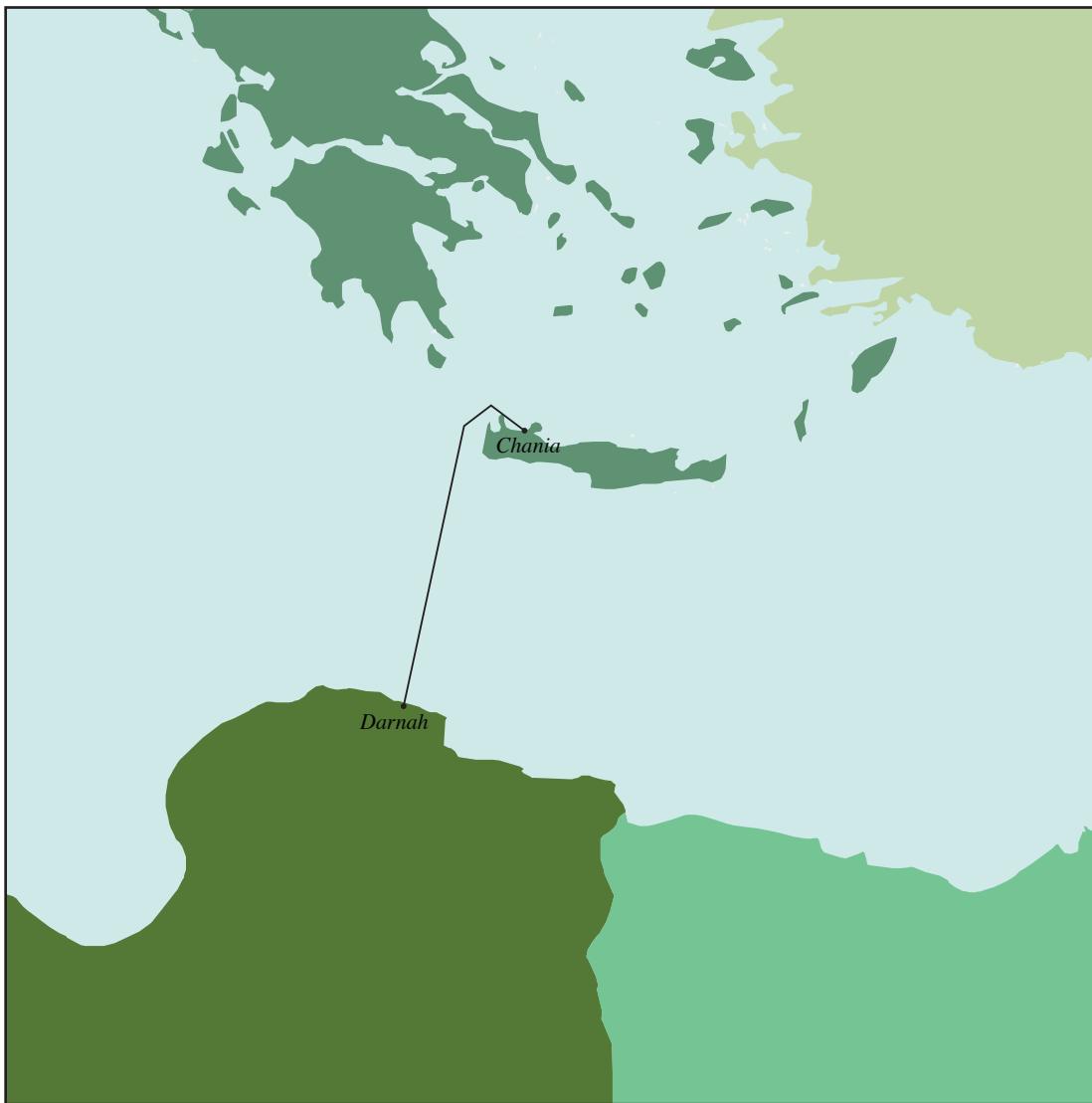
System Name:	SG-SCS
Landing Points:	Chaguaramas (Trinidad), Georgetown (Guyana), Totness (Suriname)
RFS Year:	2010
Est. End of Service Date:	2035
Est. System Cost (US\$):	54000000
Total Length (kms):	1193
Initial Capacity:	10 Gb/s
Design Capacity:	40 Gb/s
Owners:	Guyana Telephone and Telegraph Co. Ltd, Telesur of Suriname
System Supplier:	Huamei Marine Networks
System Installer:	Global Marine Systems Limited
Cablesip:	Sovereign

SHEFA 2



System Name:	Shefa 2
Landing Points:	Ayre of Cara (UK), Banff (UK), Maywick (UK), Sandwick (Scotland), Tórshavn (Faroe Islands)
RFS Year:	2008
Est. End of Service Date:	2033
Est. System Cost (US\$):	27000000
Total Length (kms):	1000
Initial Capacity:	20 Gb/s
Design Capacity:	570 Gb/s
Owners:	Faroese Telecom
System Supplier:	NSW
System Installer:	International Telecom
Cablesip:	IT Intrepid
Marine Surveyor:	Fugro
Upgrader	Xtera

SILPHIUM



System Name:	Silphium
Landing Points:	Chania (Greece), Darnah (Libya)
RFS Year:	2012
Est. End of Service Date:	2037
Total Length (kms):	400
Initial Capacity:	70 Gb/s
Design Capacity:	1.2 Tb/s
Owners:	Libyan Post, Telecom, and Information Technology Company
System Supplier:	Huawei Marine Networks

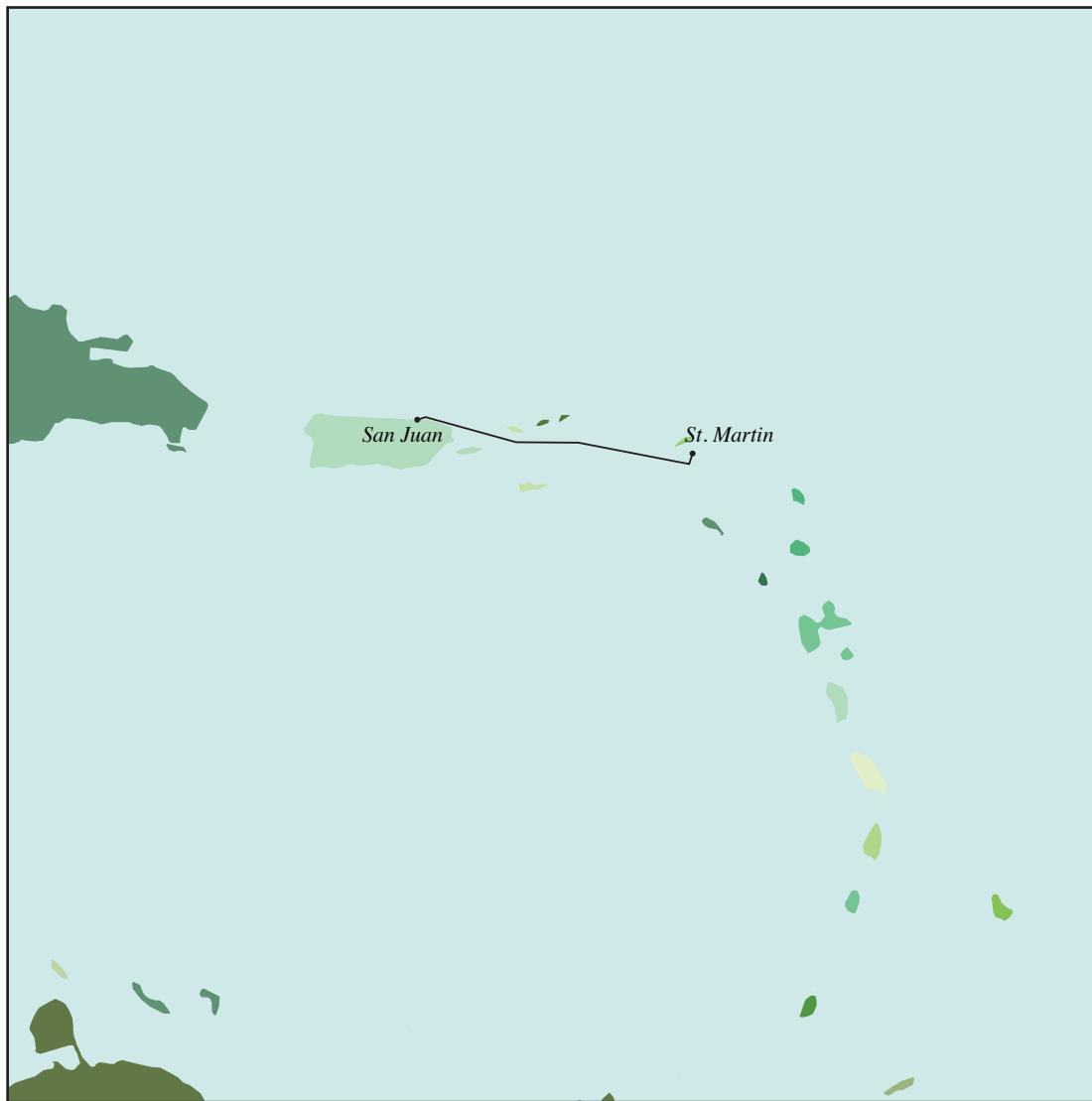


System Name:	SJC
Landing Points:	Chikura (Japan), Lantau (Hong Kong), Nasugbu (Philippines), Shantou (China), Telisai (Brunei), Tuas (Singapore)
RFS Year:	2013
Est. End of Service Date:	2038
Est. System Cost (US\$):	400000000
Total Length (kms):	8900
Initial Capacity:	17 Tb/s
Fiber Information:	6 Fiber Pairs
Owners:	SJC Consortium (Brunei International Gateway Sendirian Berhad, China Mobile, China Telecom, China Telecom (Hong Kong) International Ltd., Donghwa Telecom Co., Ltd., Globe Telecom, Inc., Google SJC Bermuda Ltd., KDDI Corporation, Singapore Telecom, Telin, Telemedia Pacific Inc., and TOT Public Co., Ltd.)
System Supplier:	TE SubCom, NEC



System Name:	SKKL-JS
Landing Points:	Jakarta (Indonesia), Surabaja (Indonesia)
RFS Year:	1996
Est. End of Service Date:	2021
Total Length (kms):	713
Initial Capacity:	5 Gb/s
Owners:	Indosat

SMPR-1



System Name:	SMPR-1
Landing Points:	San Juan (Puerto Rico), St Martin (Netherlands Antilles)
RFS Year:	2004
Est. End of Service Date:	2029
Est. System Cost (US\$):	15000000
Total Length (kms):	375
Initial Capacity:	2.5 Gb/s
Owners:	Smitcoms

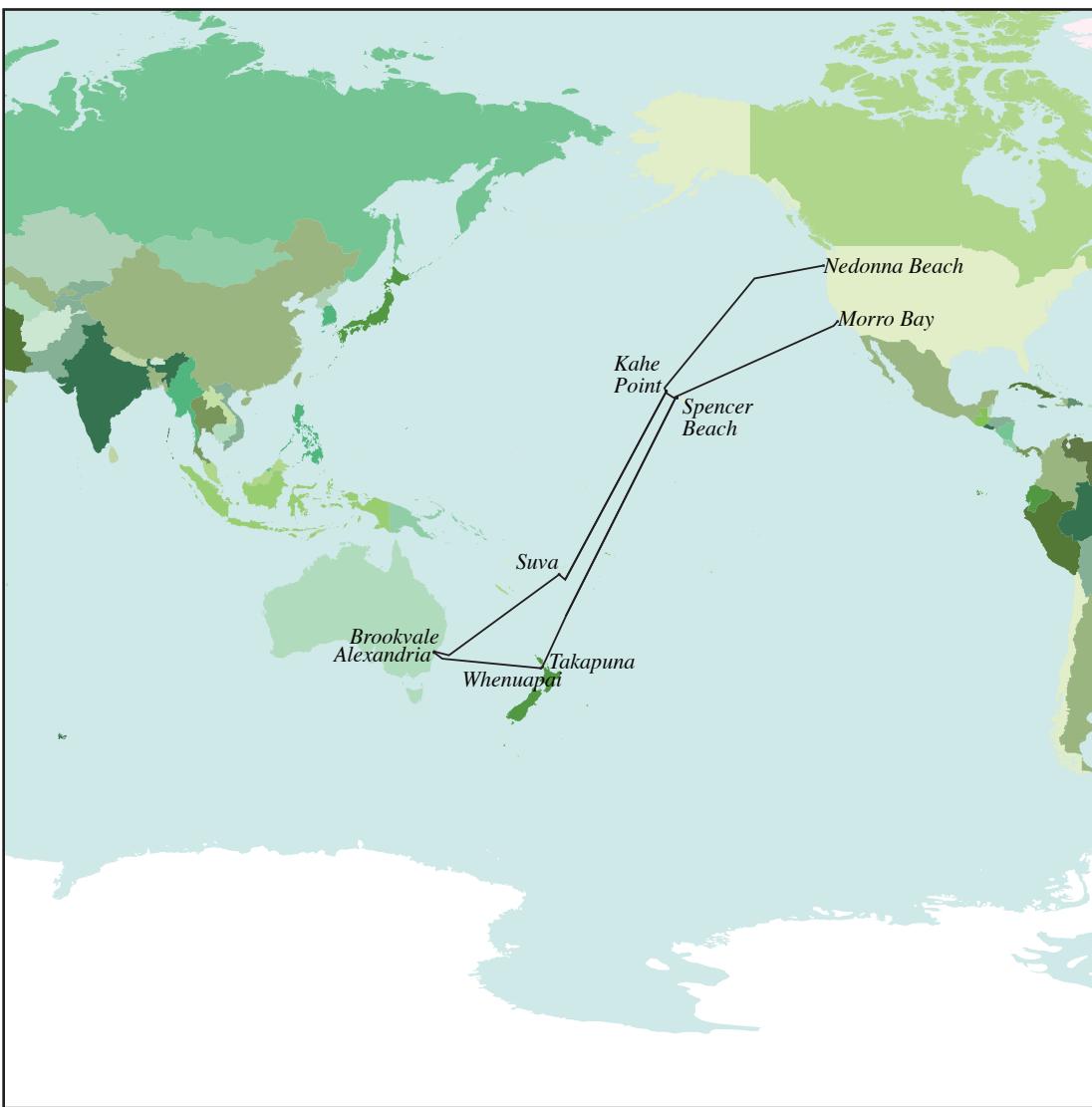


System Name:	Solas
Landing Points:	Kilmore Quay (Ireland), Oxwich Bay (UK)
RFS Year:	2012
Est. End of Service Date:	2037
Est. System Cost (US\$):	6000000
Total Length (kms):	140
Initial Capacity:	5 Gb/s
Owners:	Eircom
System Installer:	Global Marine Systems Limited
Cablesip:	Wave Sentinel



System Name:	Solomon Island to the World
Landing Points:	Piti, Madong, Noro, Honiara, Auki
RFS Year:	2014
Est. End of Service Date:	2039
Est. System Cost (US\$):	60000000
Total Length (kms):	827
Owners:	Solomons Oceanic Cable Company
System Supplier:	TE SubCom

SOUTHERN CROSS CABLE NETWORK



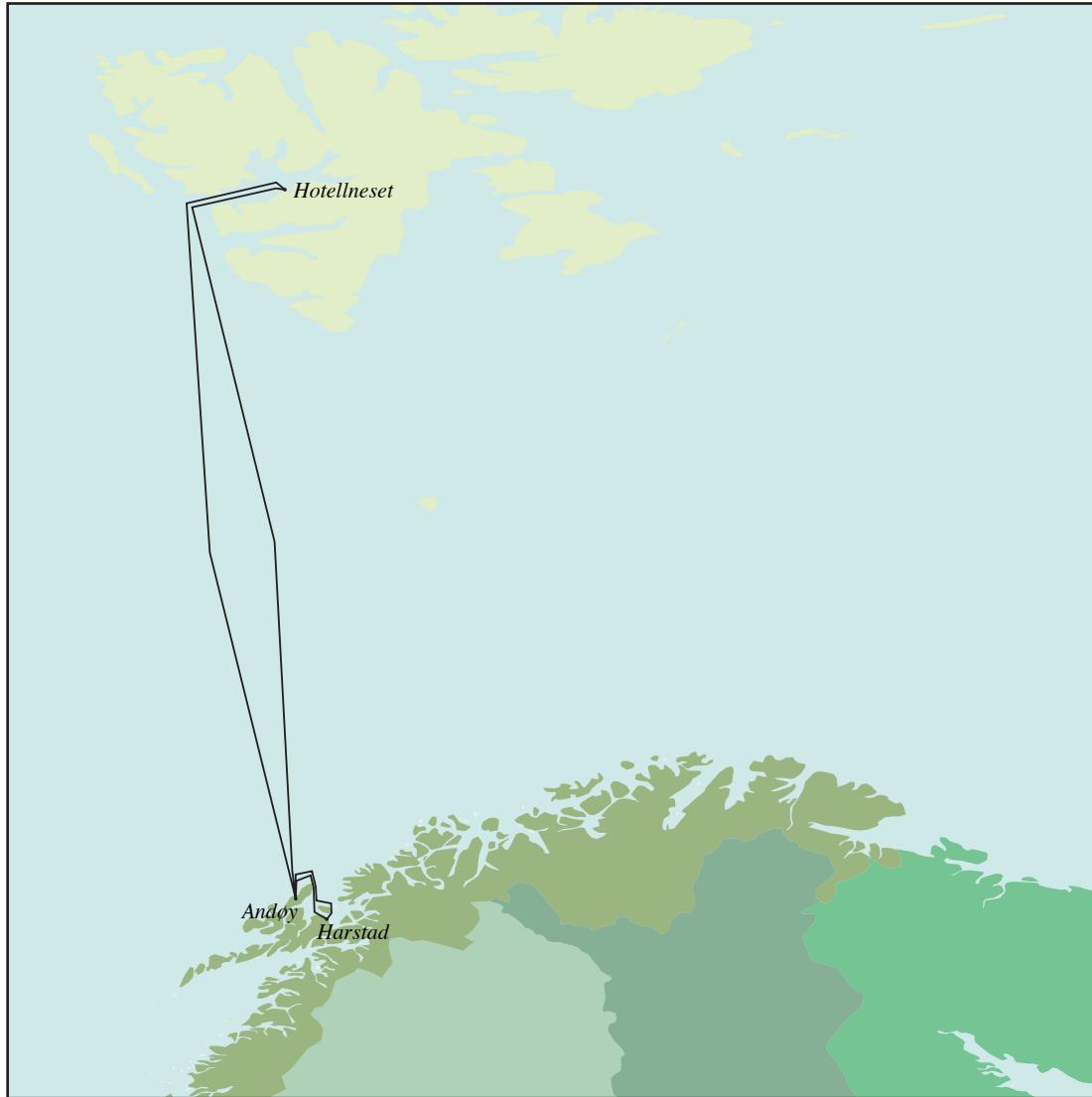
System Name:	Southern Cross Cable Network
Landing Points:	Alexandria (Australia), Brookvale (Australia), Kahe Point (Hawaii), Morro Bay (USA), Nedonna Beach (USA), Spencer Beach (USA), Suva (Fiji), Takapuna (New Zealand), Whenuapai (New Zealand)
RFS Year:	2000
Est. End of Service Date:	2025
Est. System Cost (US\$):	1300000000
Total Length (kms):	28900
Initial Capacity:	1.24 Tb/s
Fiber Information:	OALC4 17mm - 3 Fiber Pairs Segments A,C,G1,G2,I. 4 Fiber Pairs Segments D and F
Owners:	Southern Cross Cable Network
System Supplier:	Alcatel Submarine Networks, Fujitsu
System Installer:	Alcatel Submarine Networks
Cablesip:	Cable Innovator laid 13761 km, Nexus laid 3306 km, Vercors laid 10007 km. Fresnel laid 800 km
Upgrader	Ciena
Upgrade Year	2012
Upgraded Capacity	40 Gb/s

SUB

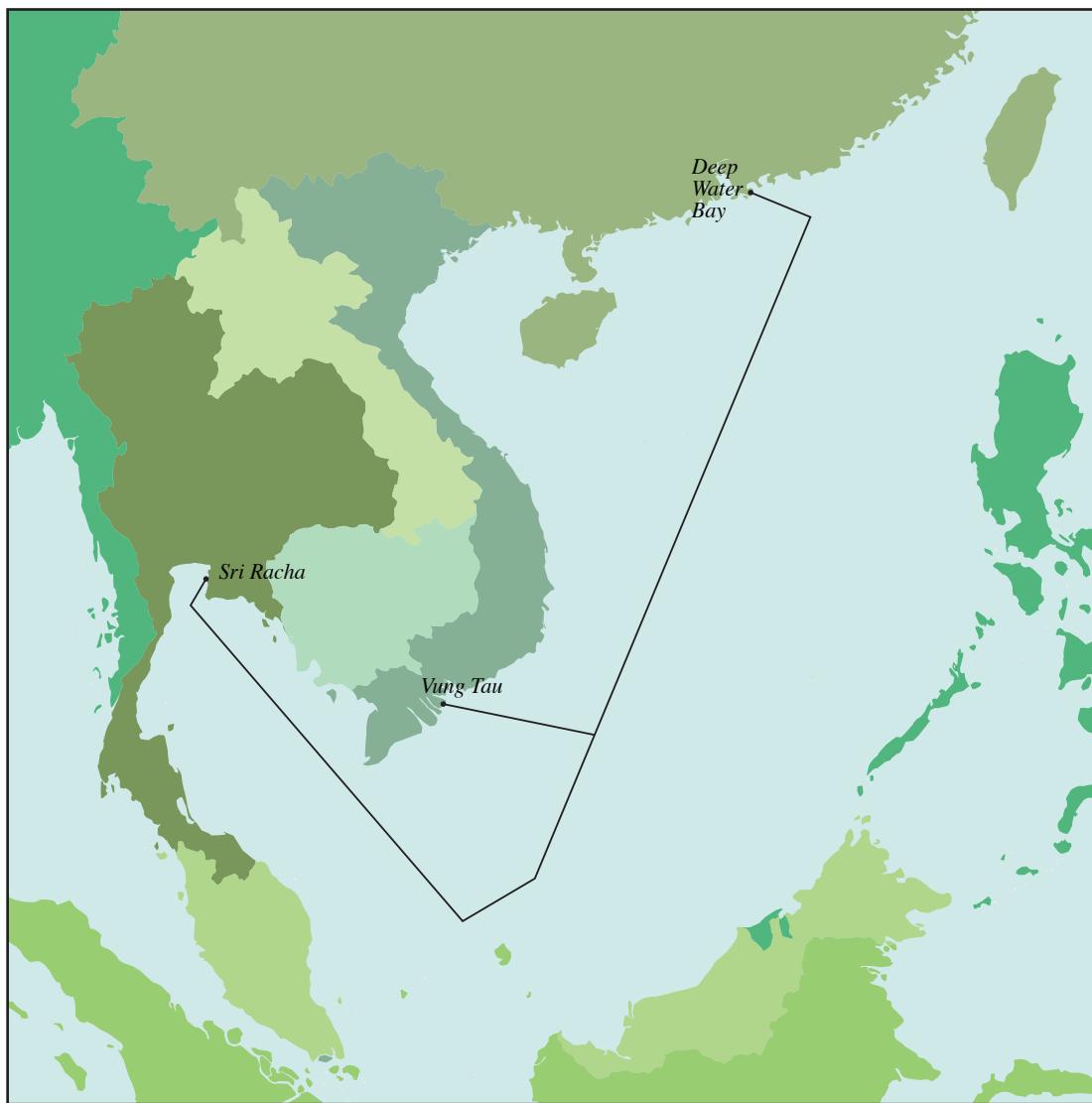


System Name:	Sub
Landing Points:	Bandjermasin (Indonesia), Makassar (Indonesia), Surabaja (Indonesia)
RFS Year:	1998
Est. End of Service Date:	2023
Total Length (kms):	2100
Initial Capacity:	50 Gb/s
Fiber Information:	2 Fiber Pairs
Owners:	PT Telekom

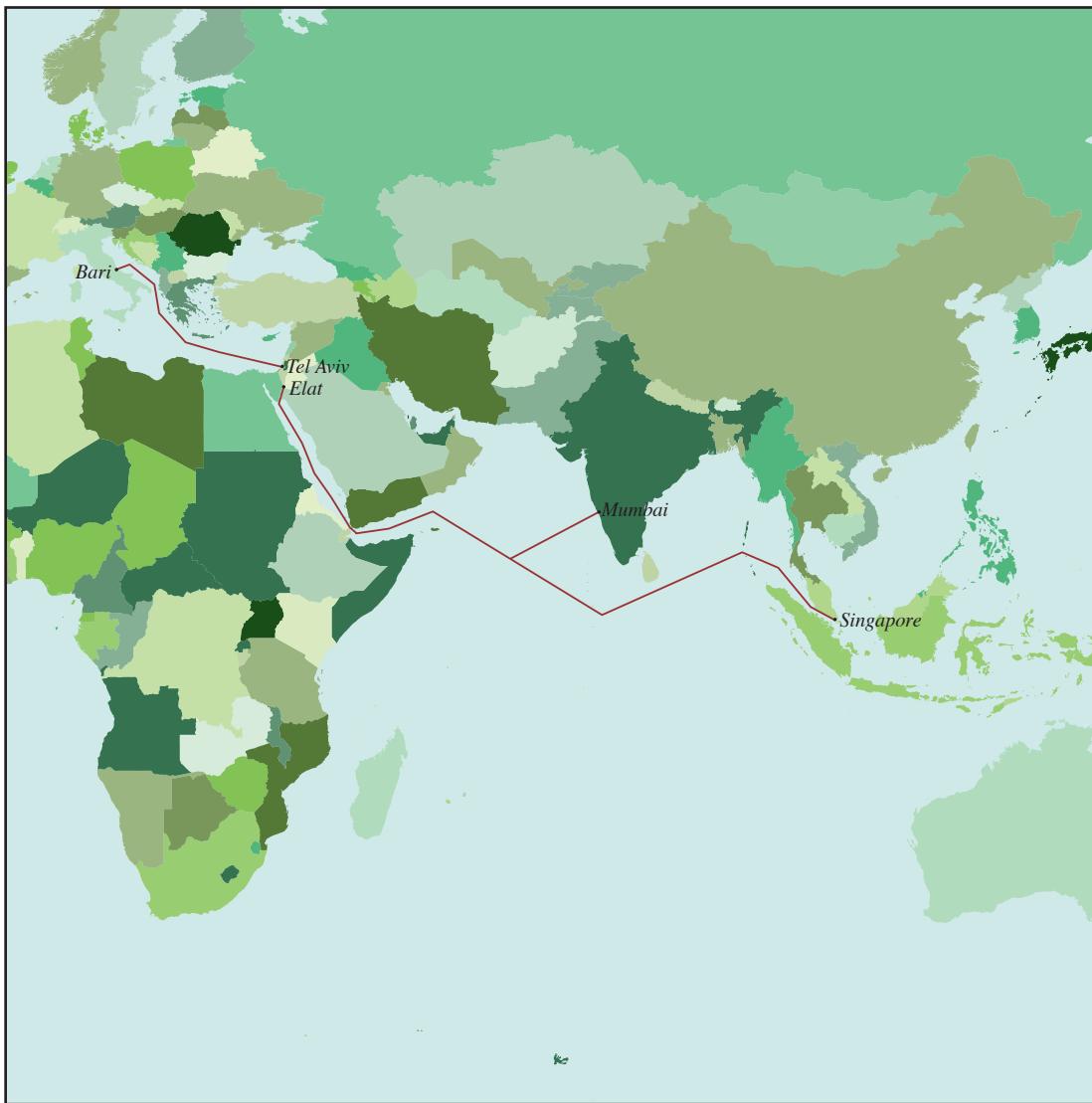
SVALBARD



System Name:	Svalbard
Landing Points:	Andøy (Norway), Harstad (Norway), Hotellneset (Norway)
RFS Year:	2004
Est. End of Service Date:	2029
Total Length (kms):	2800
Initial Capacity:	4.8 Tb/s
Owners:	Telenor
System Supplier:	Tyco Telecommunications



System Name:	T-V-H
Landing Points:	Deep Water Bay (Hong Kong), Sri Racha (Thailand), Vung Tau (Vietnam)
RFS Year:	1996
Est. End of Service Date:	2021
Est. System Cost (US\$):	155600000
Total Length (kms):	3367
Initial Capacity:	565 Mb/s
Owners:	Vietnam Telecom International
System Supplier:	Tyco Telecommunications



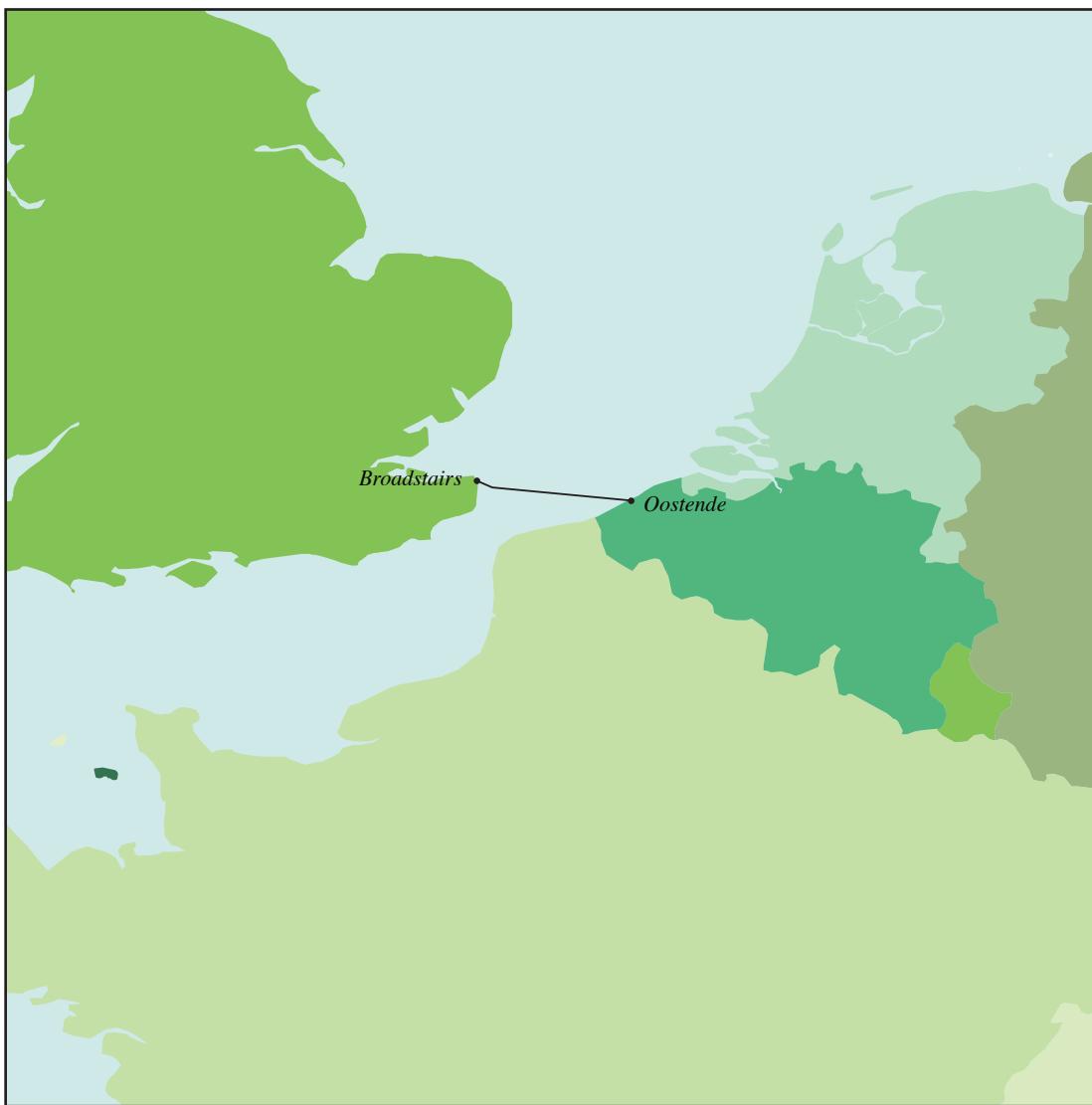
System Name:	Tagare Cable
Landing Points:	Singapore (Singapore), Elat (Israel), Tel Aviv (Israel), Mumbai (India), Bari (Italy)
RFS Year:	2015
Est. End of Service Date:	2040
Est. System Cost (US\$):	720000000
Total Length (kms):	35000
Owners:	Neil Tagare, Consortium

TAINO CARIB



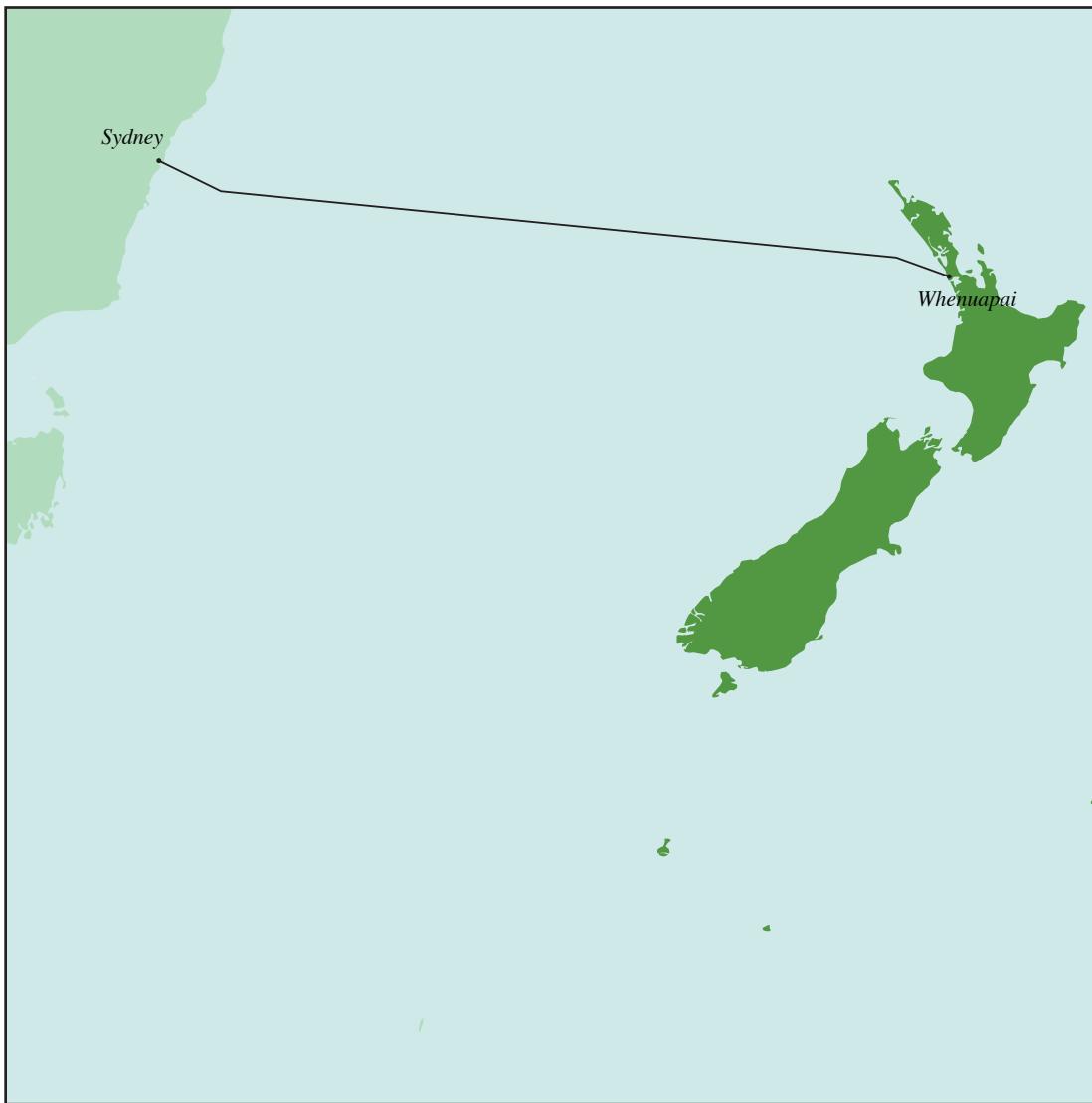
System Name:	Taino Carib
Landing Points:	Magens Bay (Virgin Islands), San Juan (Puerto Rico), Tortola (British Virgin Islands)
RFS Year:	1992
Est. End of Service Date:	2017
Est. System Cost (US\$):	17000000
Total Length (kms):	2508
Initial Capacity:	560 Mb/s
Owners:	Trans-Caribbean Cable Company
System Supplier:	AT&T SSI
System Installer:	C&W (Marine)
Cablesip:	Mercury

TANGERINE



System Name:	Tangerine
Landing Points:	Broadstairs (United Kingdom), Oostende (Belgium)
RFS Year:	2000
Est. End of Service Date:	2025
Total Length (kms):	112
Initial Capacity:	240 Gb/s
Fiber Information:	96 Fiber Pairs
Owners:	Level 3 Communications

TASMAN-2



System Name:	Tasman-2
Landing Points:	Sydney (Australia), Whenuapai (New Zealand)
RFS Year:	1992
Est. End of Service Date:	2017
Est. System Cost (US\$):	100000000
Total Length (kms):	2195
Initial Capacity:	3 x 560 Mb/s
Owners:	Telecom New Zealand
System Supplier:	Standard Telephones & Cables Ltd
System Installer:	FCR
Cableship:	Vercors



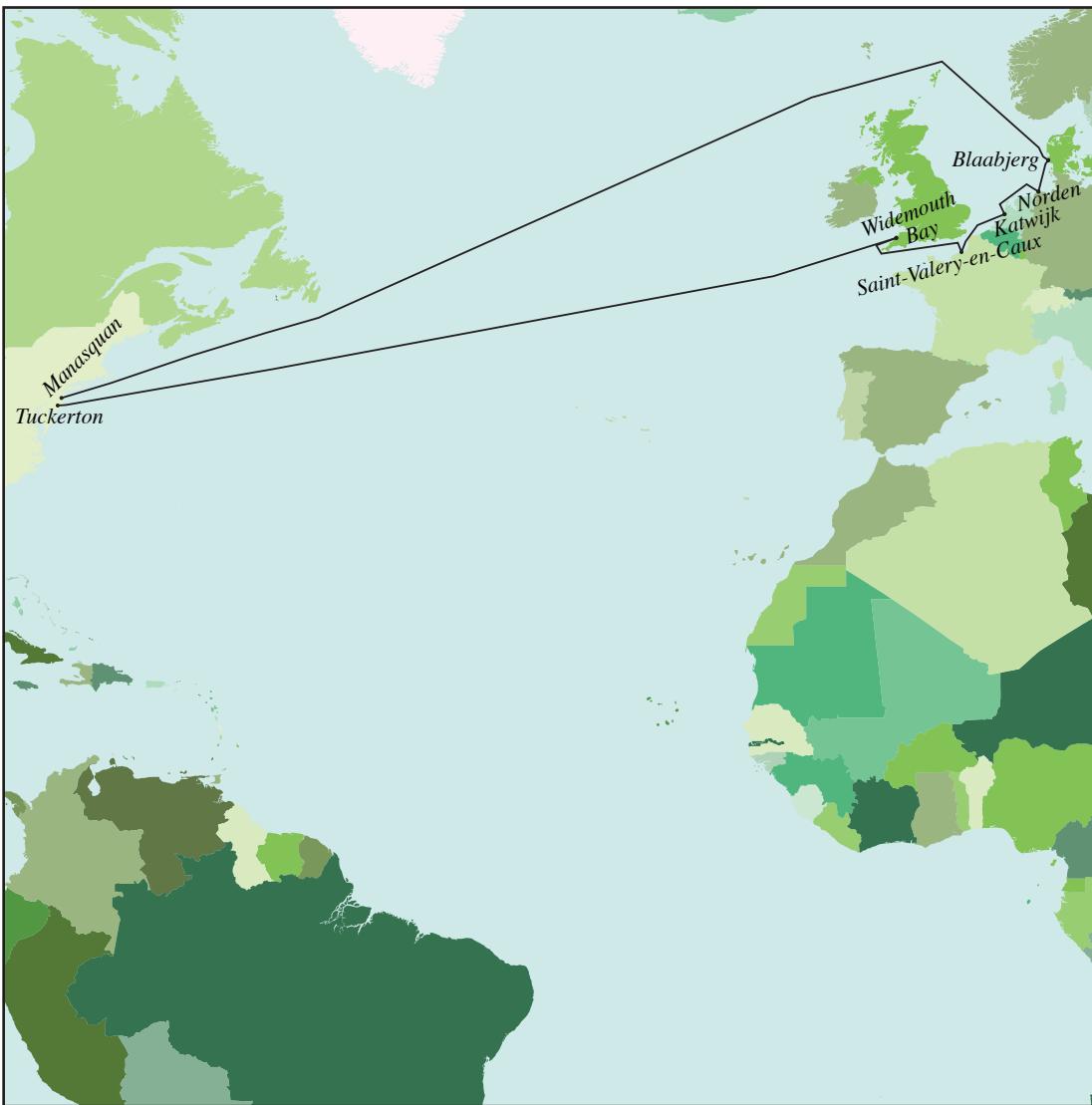
المصرية للاتصالات
Telecom Egypt

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Wholesale Solutions



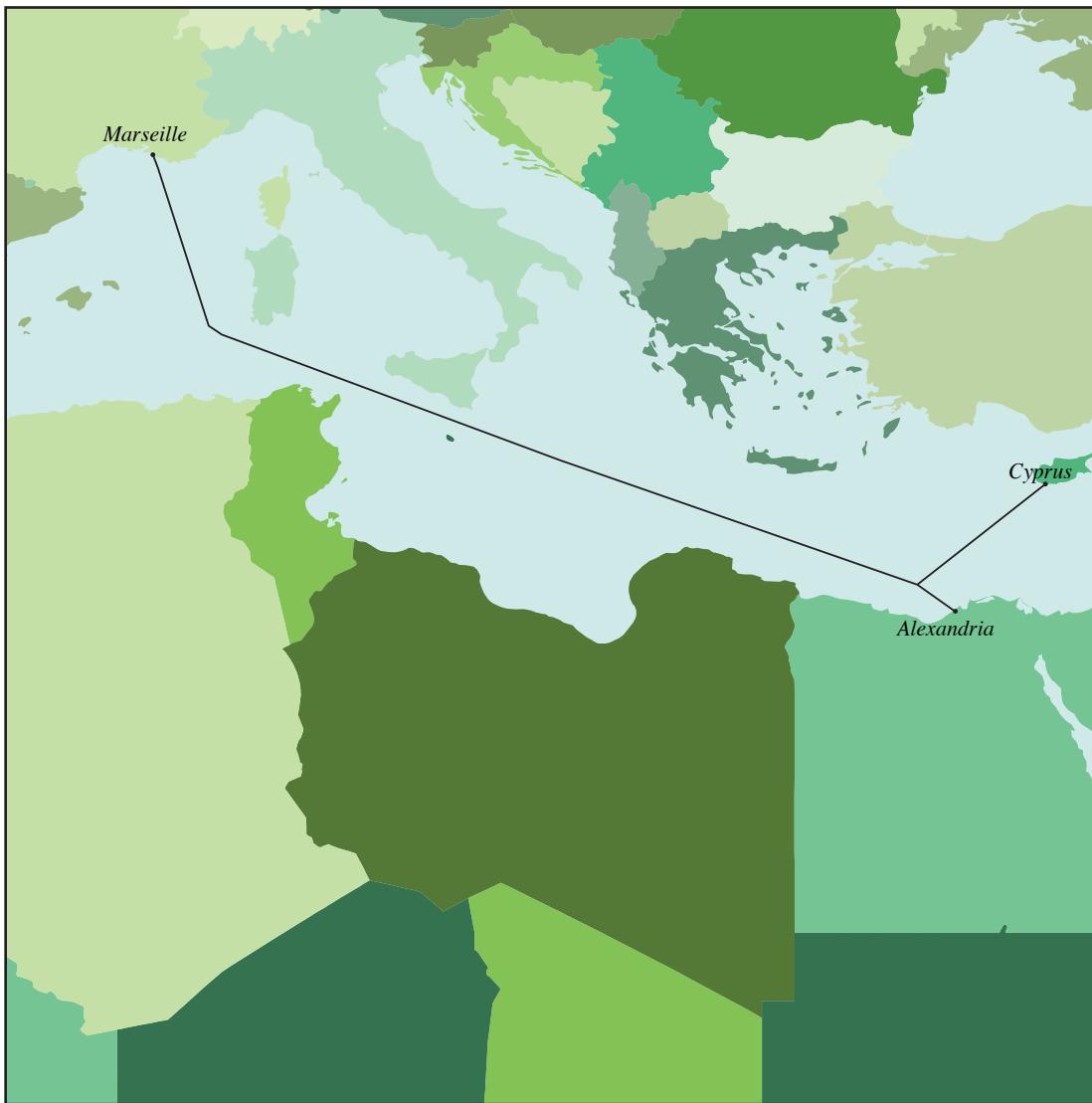
icn@telecomegypt.com

TAT 14



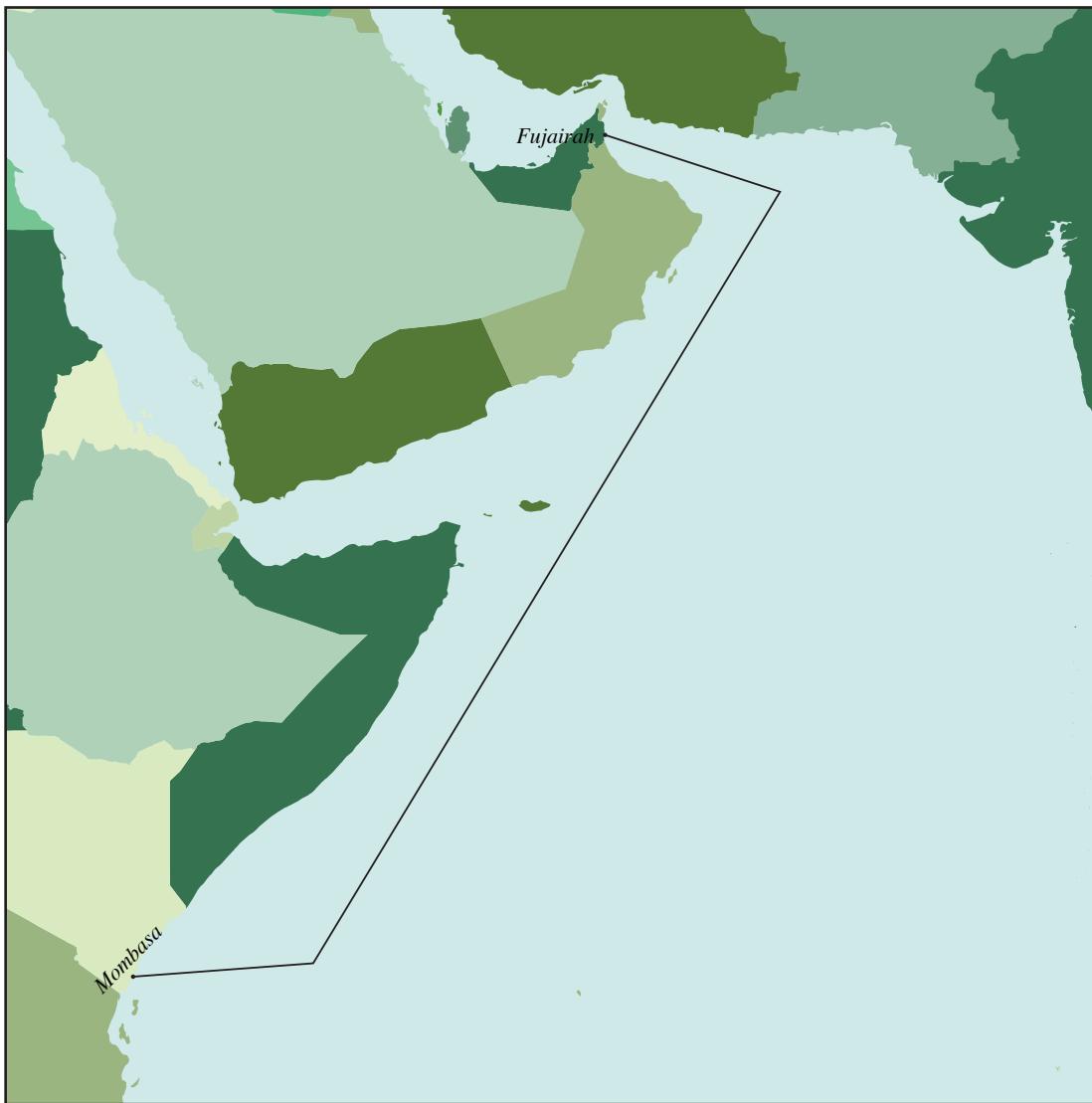
System Name:	TAT 14
Landing Points:	Blaabjerg (Denmark), Katwijk (Netherlands), Manasquan (USA), Norden (Germany), Saint-Valery-en-Caux (France), Tuckerton (USA), Widemouth (UK)
RFS Year:	2001
Est. End of Service Date:	2026
Total Length (kms):	15428
Initial Capacity:	160 Gb/s
Design Capacity:	1.87 Tb/s
Owners:	TAT-14 Consortium
System Supplier:	Mitsubishi Electric Corporation
System Installer:	Global Marine Systems Limited
Cablesip:	Cable Innovator, Cable Endeavour, Bold Endurance, Wave Sentinel, Subaru, Maersk Recorder, Maersk Forwarder, Sir Eric Sharp, Agile, Teliri, Fresnel, Vercors
Marine Surveyor:	Fugro
Upgrader	Mitsubishi

TE NORTH



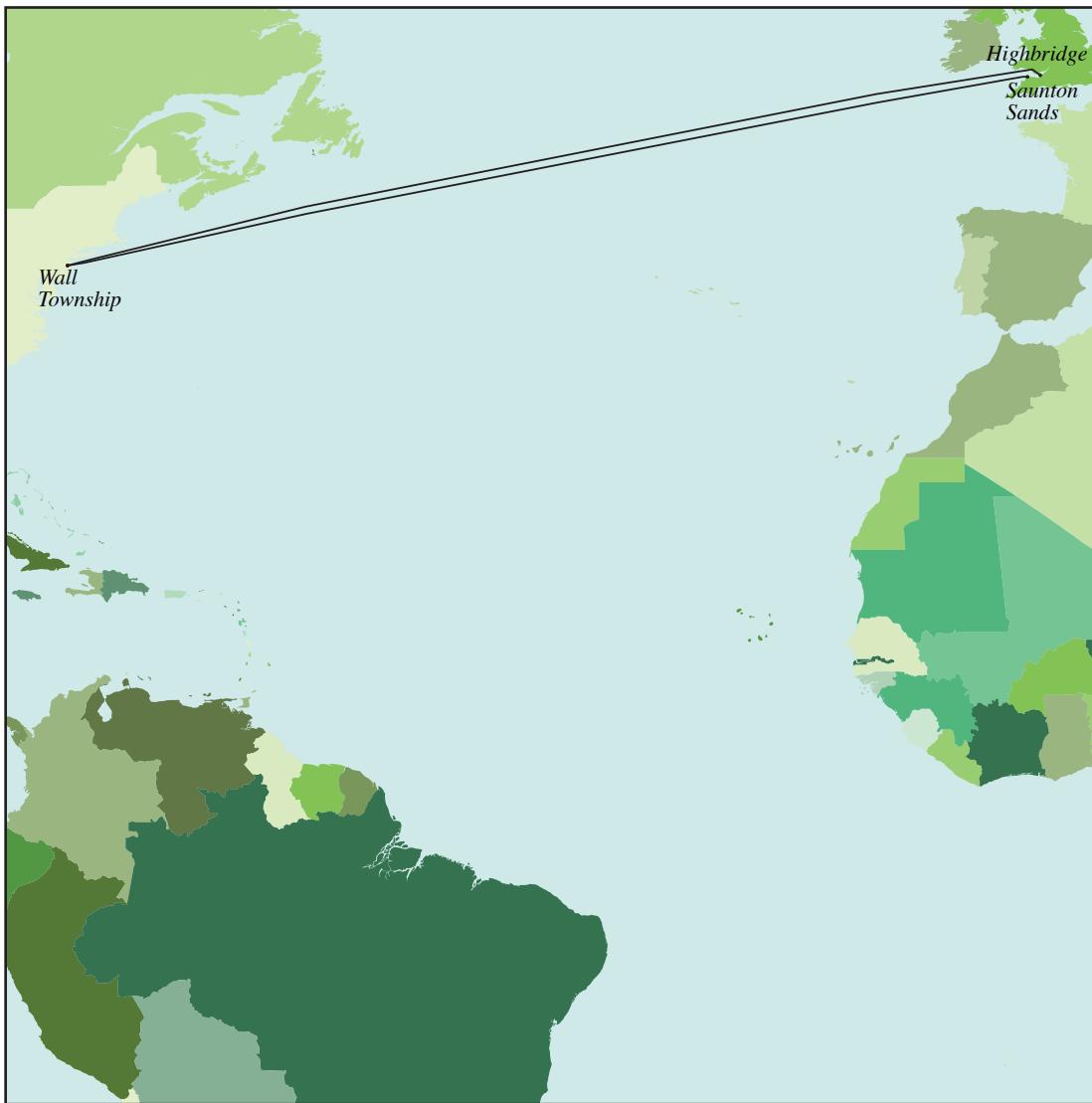
System Name:	TE North
Landing Points:	Abu Talat (Egypt), Pentaskinos (Republic of Cyprus), Marseille (France)
RFS Year:	2011
Est. End of Service Date:	2036
Est. System Cost (US\$):	150000000
Total Length (kms):	3100
Initial Capacity:	10 Tb/s
Design Capacity:	20 Tb/s
Fiber Information:	8 Fiber Pairs
Owners:	Telecom Egypt
System Supplier:	Alcatel-Lucent Submarine Networks
Upgrader	Infinera
Upgrade Year	2012
Upgraded Capacity	100 Gb/s

TEAMS



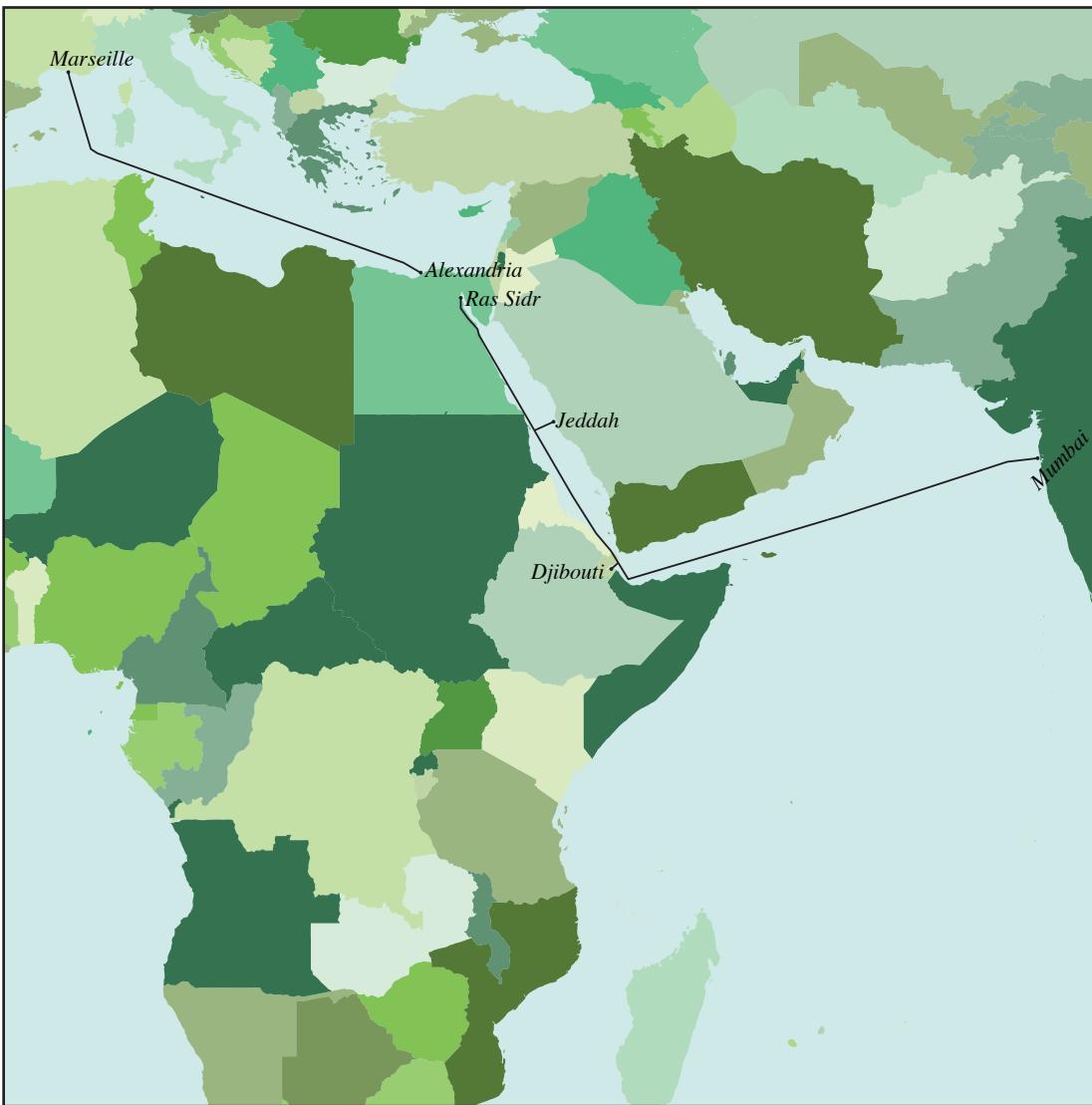
System Name:	TEAMS
Landing Points:	Fujairah (United Arab Emirates), Mombasa (Kenya)
RFS Year:	2009
Est. End of Service Date:	2034
Est. System Cost (US\$):	130000000
Total Length (kms):	4500
Initial Capacity:	120 Gb/s
Design Capacity:	1.28 Tb/s
Owners:	Etisalat (15%), TEAMS Ltd. (85%)
System Supplier:	Alcatel-Lucent Submarine Networks
System Installer:	e-Marine
Cablesip:	Niwa

TGN ATLANTIC



System Name:	GN Atlantic
Landing Points:	Highbridge (UK), Saunton Sands (UK), Wall Township (USA)
RFS Year:	2001
Est. End of Service Date:	2026
Total Length (kms):	13025
Initial Capacity:	2.56 Tb/s
Owners:	Tata Communications
System Supplier:	Tyco Telecommunications
Upgrader	Ciena
Upgrade Year	2013
Upgraded Capacity	100 Gb/s

TGN EURASIA



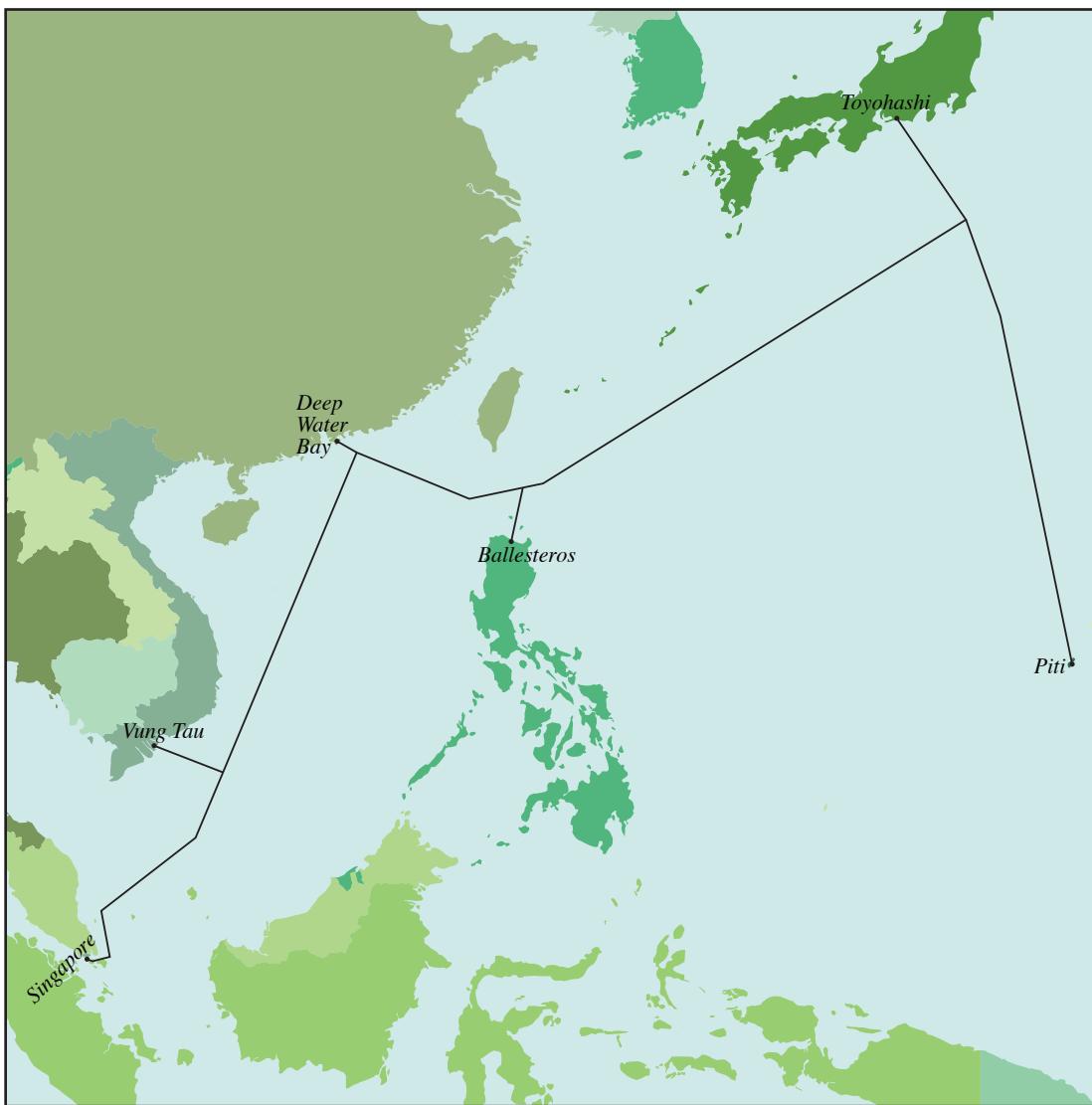
System Name:	TGN Eurasia
Landing Points:	Abu Talat (Egypt), Djibouti (Republic of Djibouti), Jeddah (Saudi Arabia), Marseille (France), Mtunzini (South Africa), Mumbai (India), Zafarana (Egypt)
RFS Year:	2009
Est. End of Service Date:	2034
Est. System Cost (US\$):	250000000
Total Length (kms):	9240
Initial Capacity:	160 Gb/s
Design Capacity:	1.28 Tb/s
Owners:	SEACOM, Tata Communications, Telecom Egypt

TGN GULF



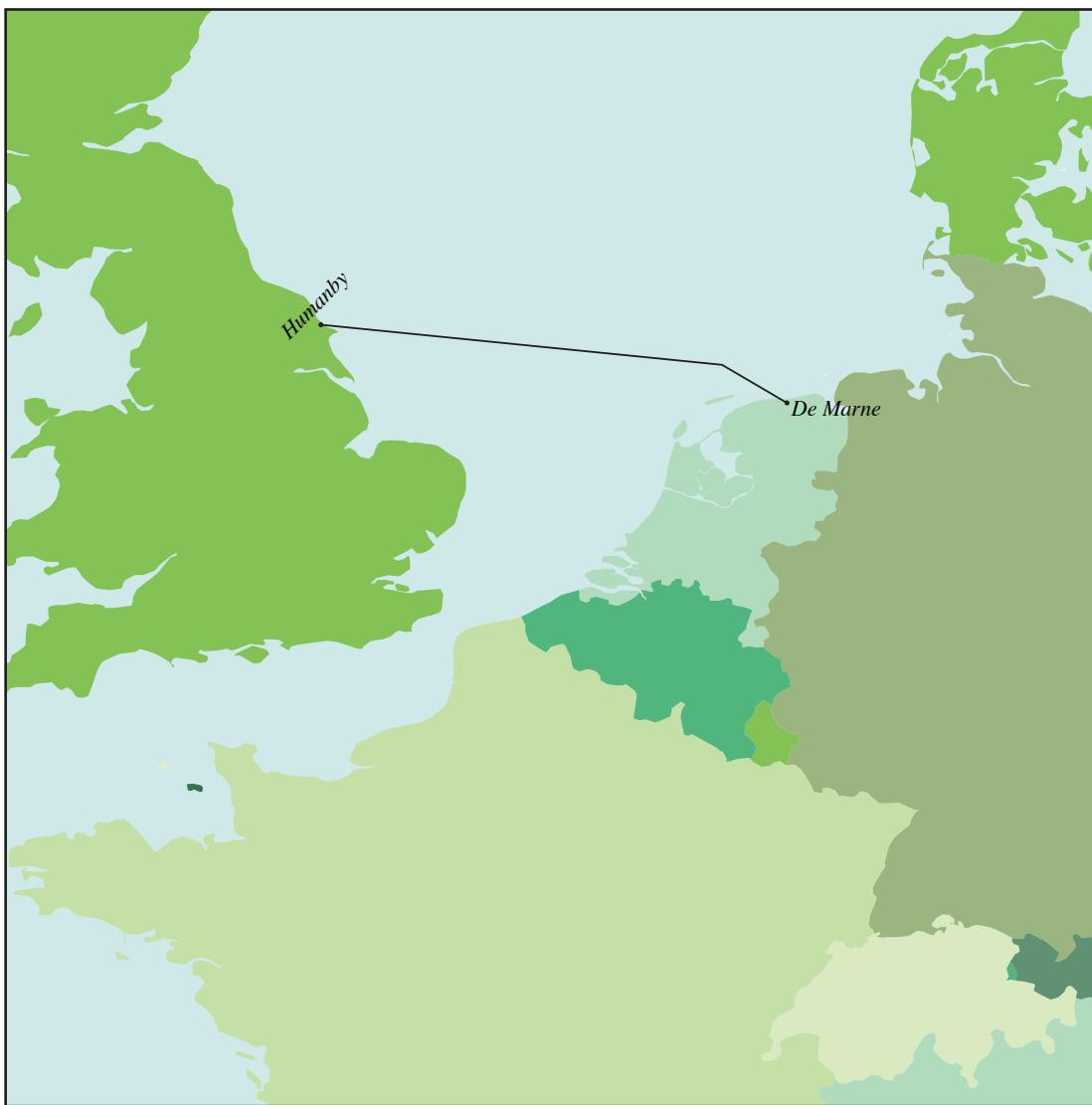
System Name:	TGN Gulf
Landing Points:	Al-Khobar (Saudi Arabia), Dubai (UAE), Kuwait City (Kuwait), Manama (Bahrain), Sumaisma (Qatar)
RFS Year:	2011
Est. End of Service Date:	2036
Est. System Cost (US\$):	200000000
Total Length (kms):	2306
Design Capacity:	1.28 Tb/s
Fiber Information:	2 Fiber Pairs
Owners:	Tata Communications
System Supplier:	TE SubCom

TGN INTRA-ASIA (IA)



System Name:	TGN Intra-Asia (IA)
Landing Points:	Ballesteros (Phillipines), Deep Water Bay (Hong Kong), Piti (Guam), Singapore (Singapore), Toyohashi (Japan), Vung Tau (Vietnam)
RFS Year:	2009
Est. End of Service Date:	2034
Total Length (kms):	6485
Initial Capacity:	3.84 Tb/s
Owners:	Tata Communications
System Supplier:	Tyco Telecommunications

TGN NORTHERN EUROPE

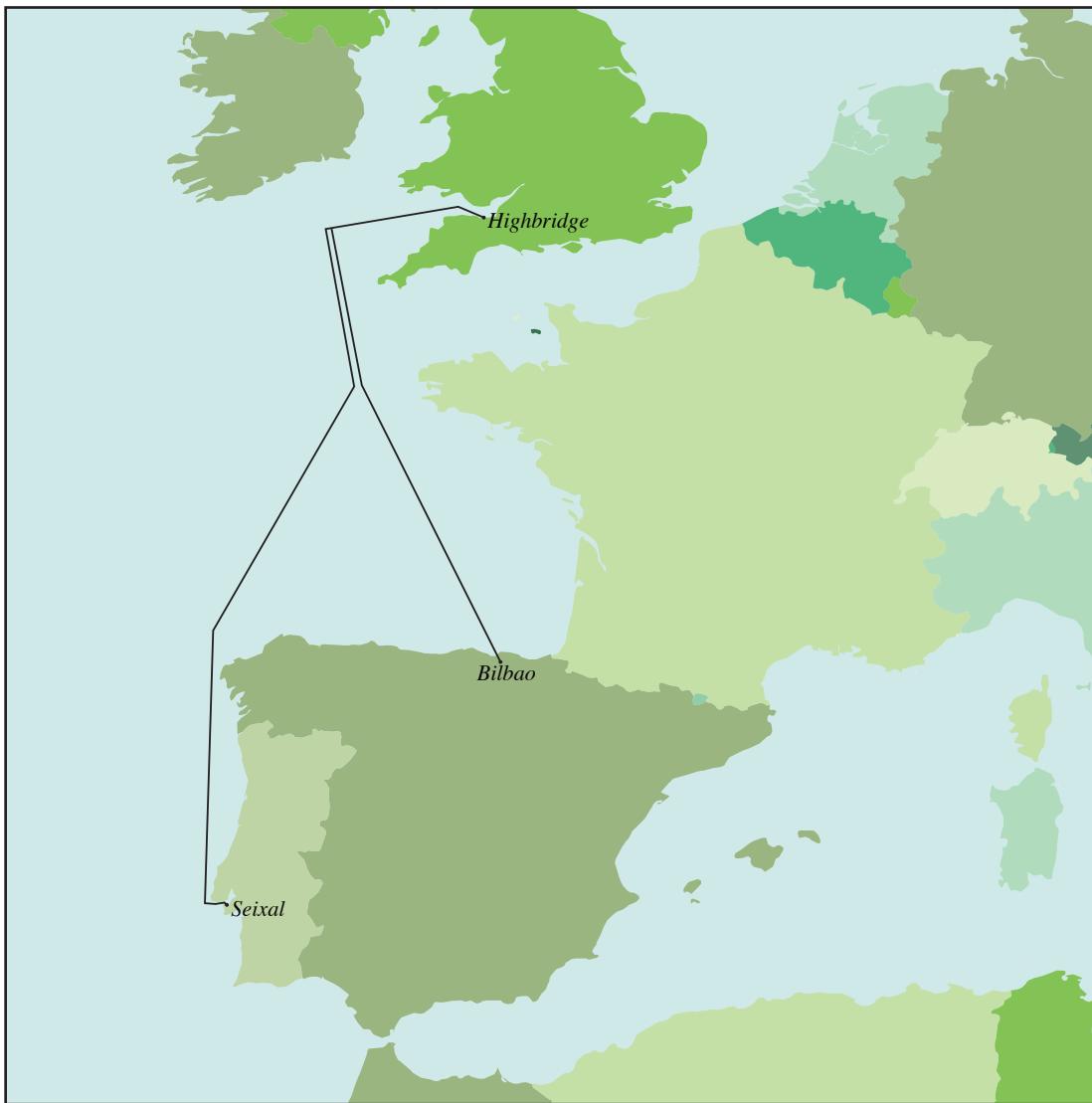


System Name:	TGN Northern Europe
Landing Points:	De Marne (Netherlands), Humanby (UK)
RFS Year:	2002
Est. End of Service Date:	2027
Total Length (kms):	578
Initial Capacity:	3.84 Tb/s
Fiber Information:	4 Fiber Pairs
Owners:	Tata Communications

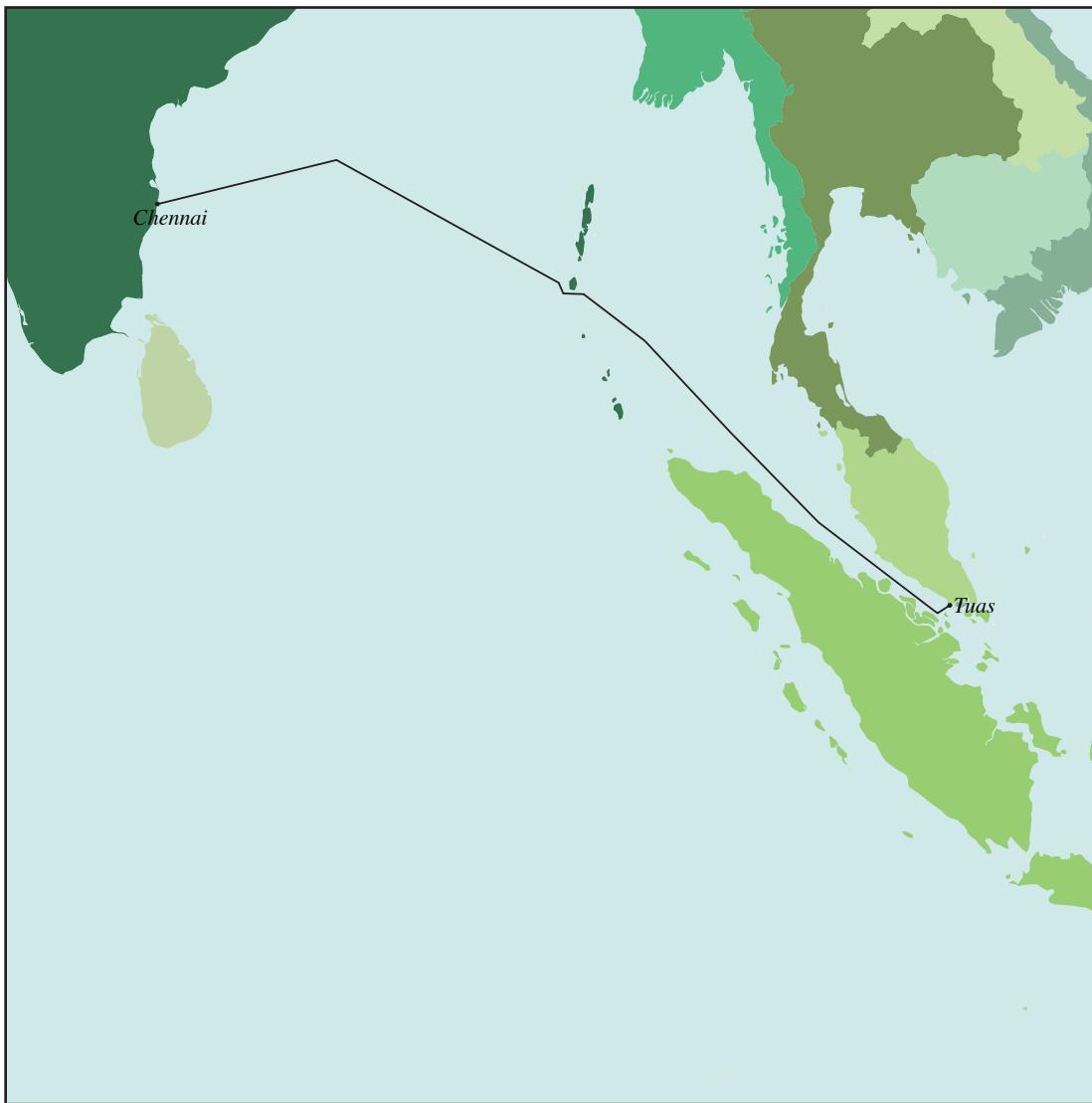


System Name:	GN Pacific
Landing Points:	Emi (Japan), Hermosa Beach (USA), Nedonna Beach (USA), Toyohashi (Japan)
RFS Year:	2002
Est. End of Service Date:	2027
Total Length (kms):	22134
Initial Capacity:	5.12 Tb/s
Owners:	Tata Communications
System Supplier:	Tyco Telecommunications

TGN WESTERN EUROPE



System Name:	TGN Western Europe
Landing Points:	Bilbao (Spain), Highbridge (UK), Seixal (Portugal)
RFS Year:	2002
Est. End of Service Date:	2027
Total Length (kms):	3578
Initial Capacity:	3.84 Tb/s
Owners:	Tata Communications
System Supplier:	Tyco Telecommunications



System Name:	TGN-TIC
Landing Points:	Chennai (India), Tuas (Singapore)
RFS Year:	2005
Est. End of Service Date:	2030
Total Length (kms):	3350
Initial Capacity:	5.12 Tb/s
Owners:	Tata Communications

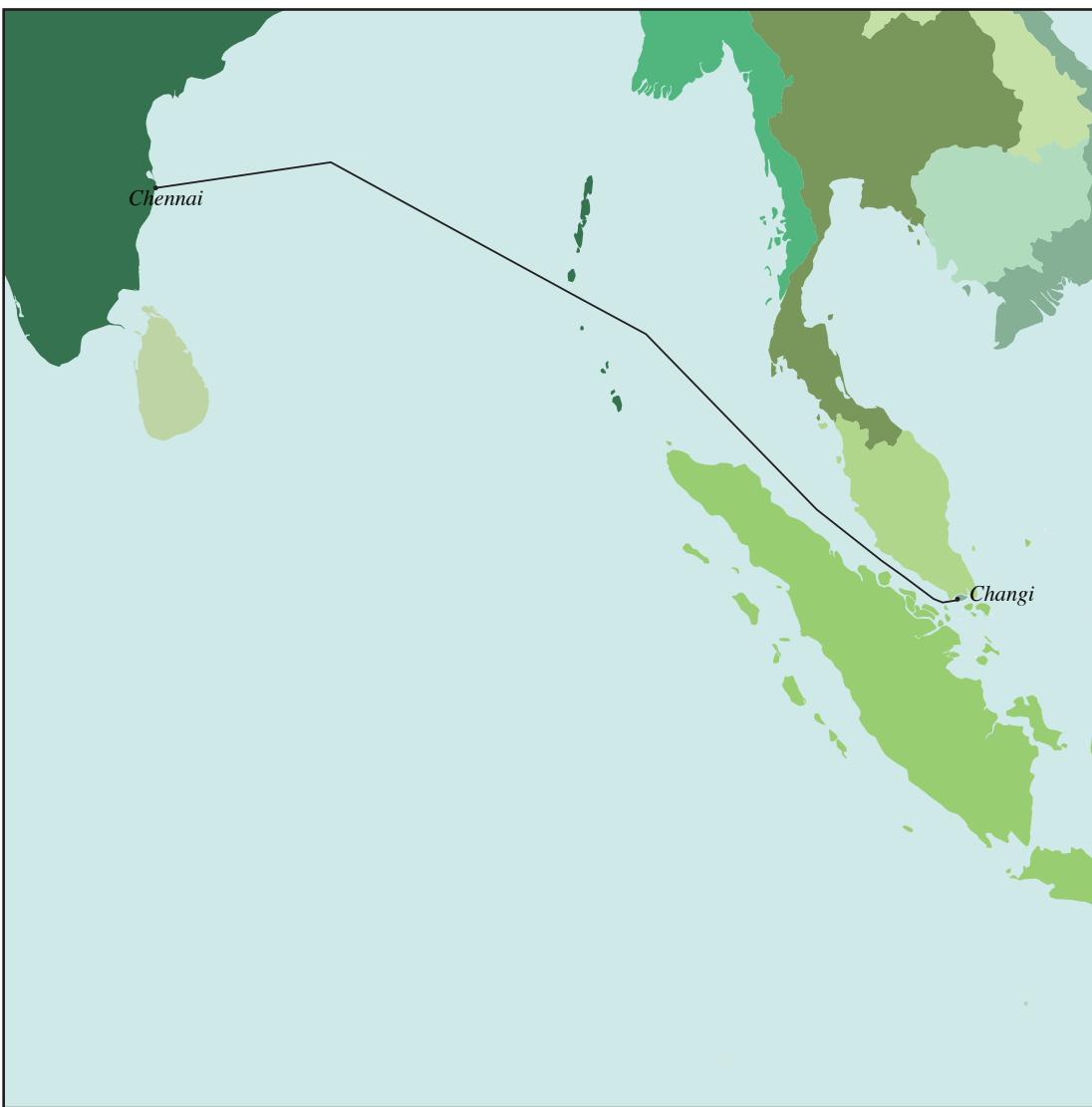
TIERRA DEL FUEGO



System Name:	Tierra del Fuego
Landing Points:	Punta Dungeness (Argentina), Espiritu Santo (Argentina)
RFS Year:	2012
Est. End of Service Date:	2037
Est. System Cost (US\$):	5000000
Total Length (kms):	27
Owners:	AR-SAT
System Supplier:	Boskalis, Alcatel-Lucent Submarine Networks
System Installer:	Alcatel-Lucent Submarine Networks
Cablesip:	Ile de Batz

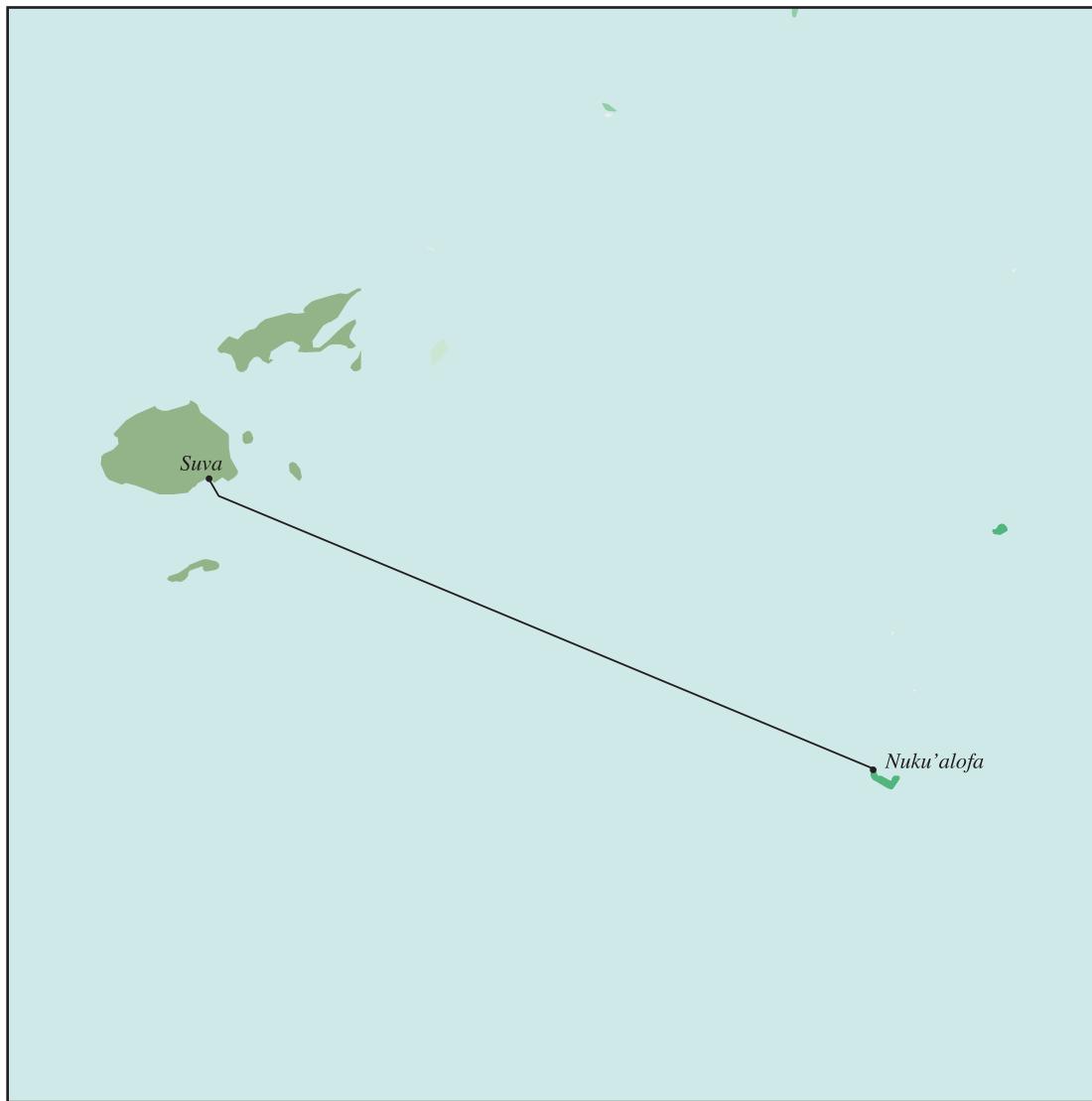


System Name:	TIS
Landing Points:	Batam (Indonesia), Songkhla (Thailand)
RFS Year:	2006
Est. End of Service Date:	2031
Est. System Cost (US\$):	36000000
Total Length (kms):	1100
Initial Capacity:	30 Gb/s
Owners:	CAT Telecom (Thailand), PT Telekom, Singtel
System Supplier:	Tyco Telecommunications



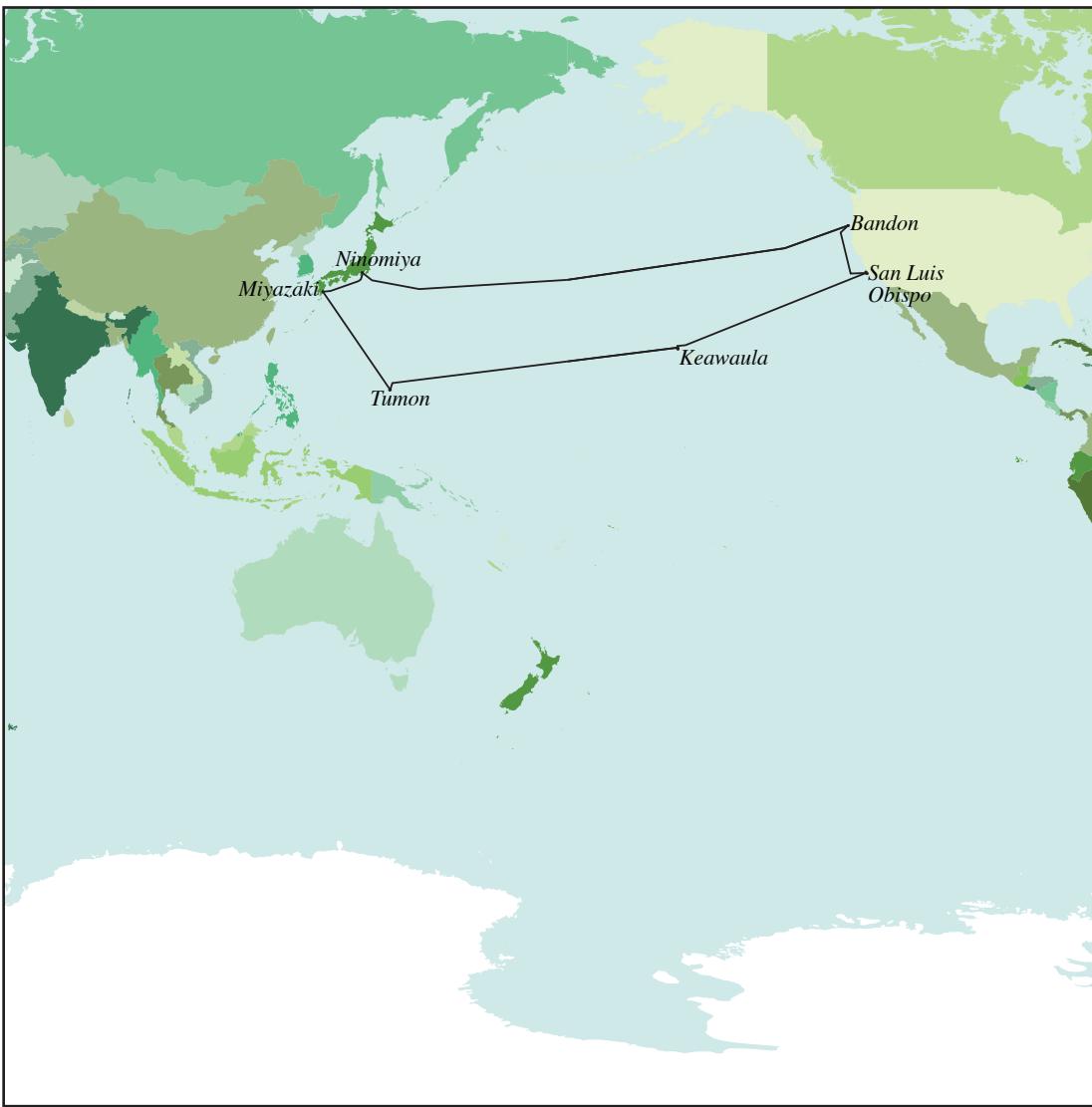
System Name:	TISICS
Landing Points:	Chennai (India), Changi (Singapore)
RFS Year:	2004
Est. End of Service Date:	2029
Total Length (kms):	3175
Initial Capacity:	640 Gb/s
Fiber Information:	8 Fiber Pairs
Owners:	Tata Communications

TONGA-FIJI

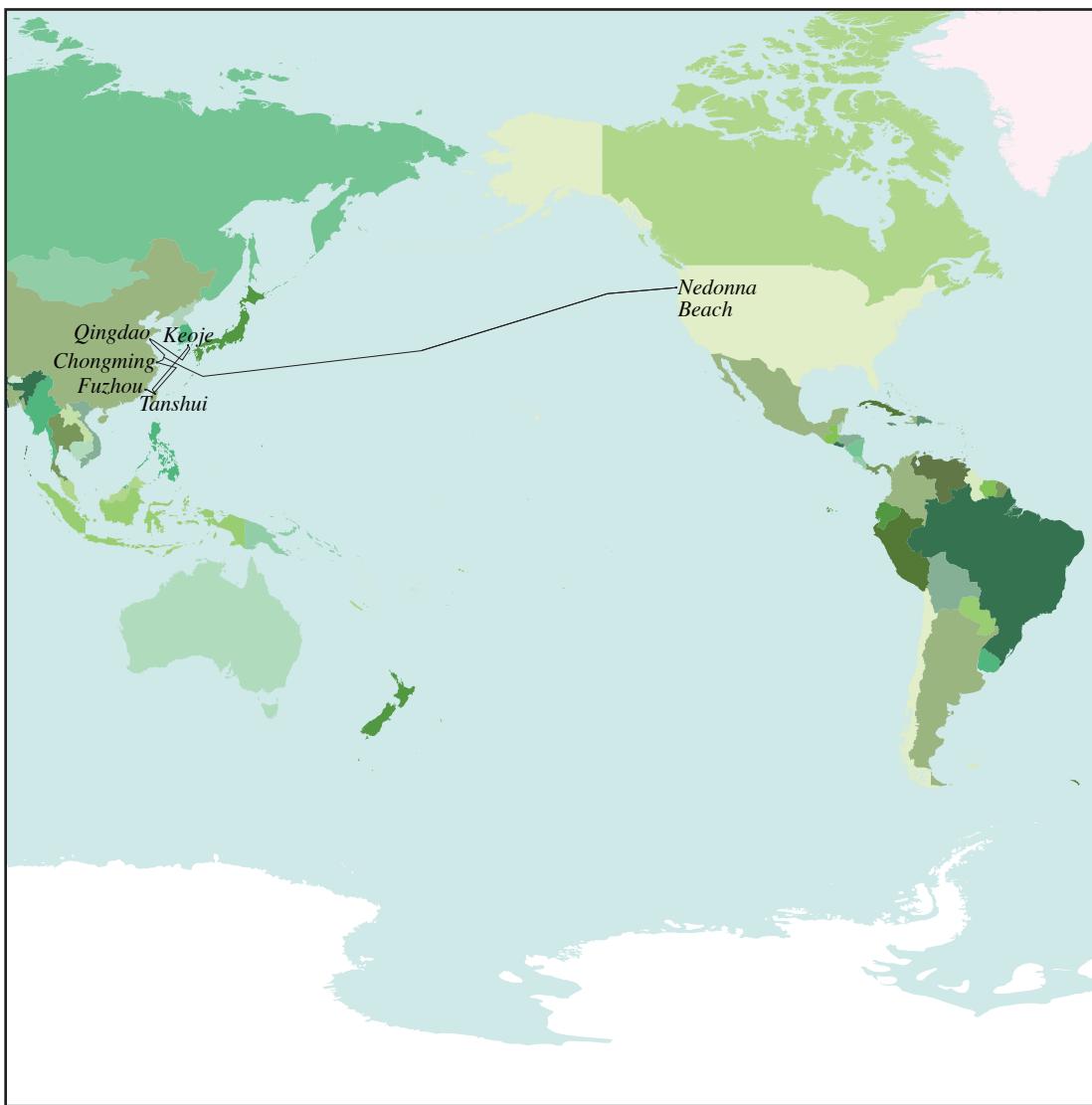


System Name:	Tonga-Fiji
Landing Points:	Nuku'alofa (Tonga), Suva (Fiji)
RFS Year:	2012
Est. End of Service Date:	2037
Est. System Cost (US\$):	18900000
Total Length (kms):	827
Owners:	Tonga Cable Limited
System Supplier:	Alcatel-Lucent Submarine Network
System Installer:	Alcatel-Lucent Submarine Network

TPC-5

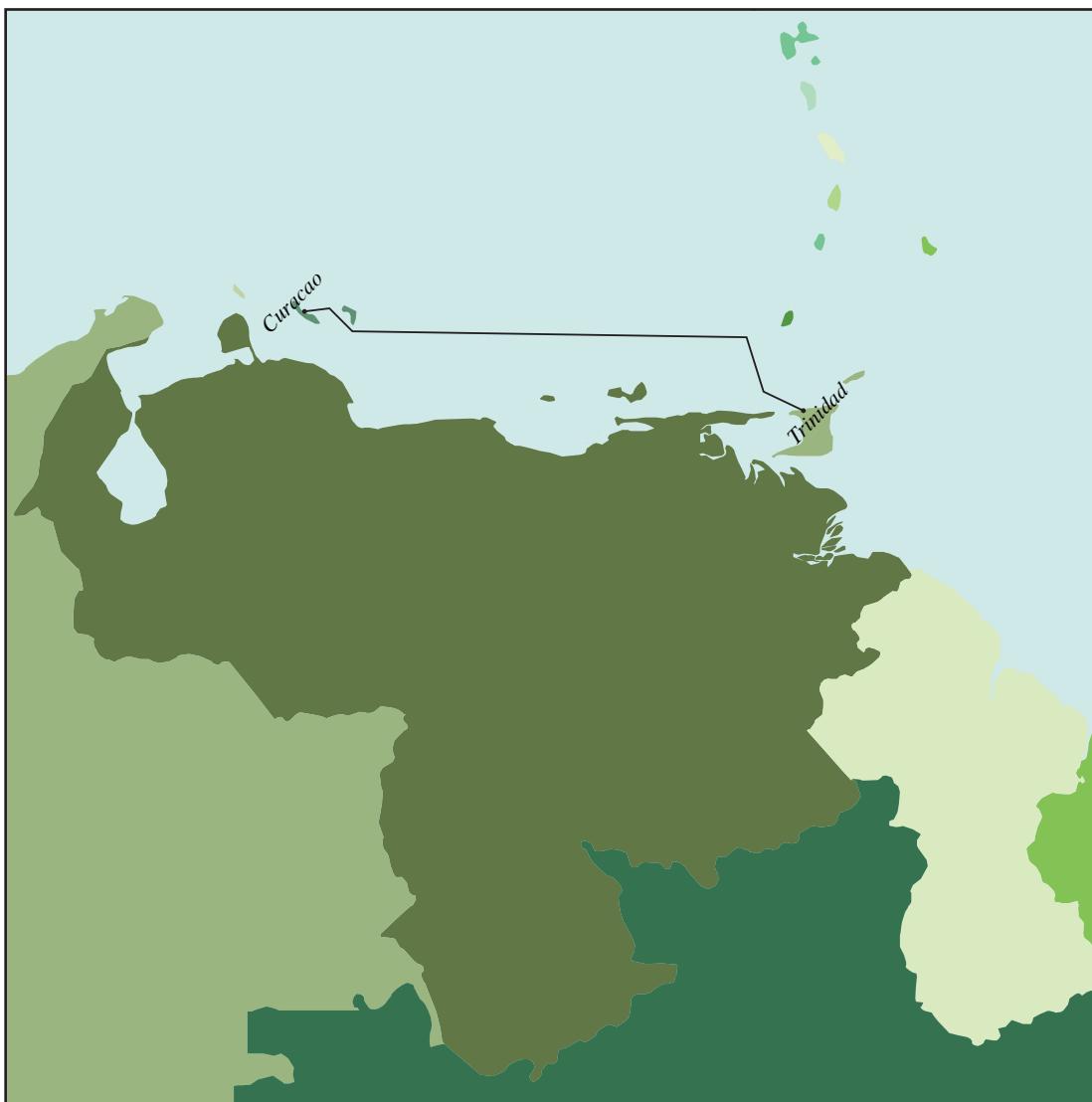


System Name:	TPC-5
Landing Points:	Bandon (USA), Keawaula (Hawaii), Miyazaki (Japan), Ninomiya (Japan), San Luis Obispo (USA), Tumon (Guam)
RFS Year:	1996
Est. End of Service Date:	2021
Est. System Cost (US\$):	171000000
Total Length (kms):	24441
Initial Capacity:	10 Gb/s
Owners:	AT&T, KDDI
System Supplier:	Tyco Telecommunications SSI
System Installer:	Tyco Telecommunications SSI
Cablesip:	Durable



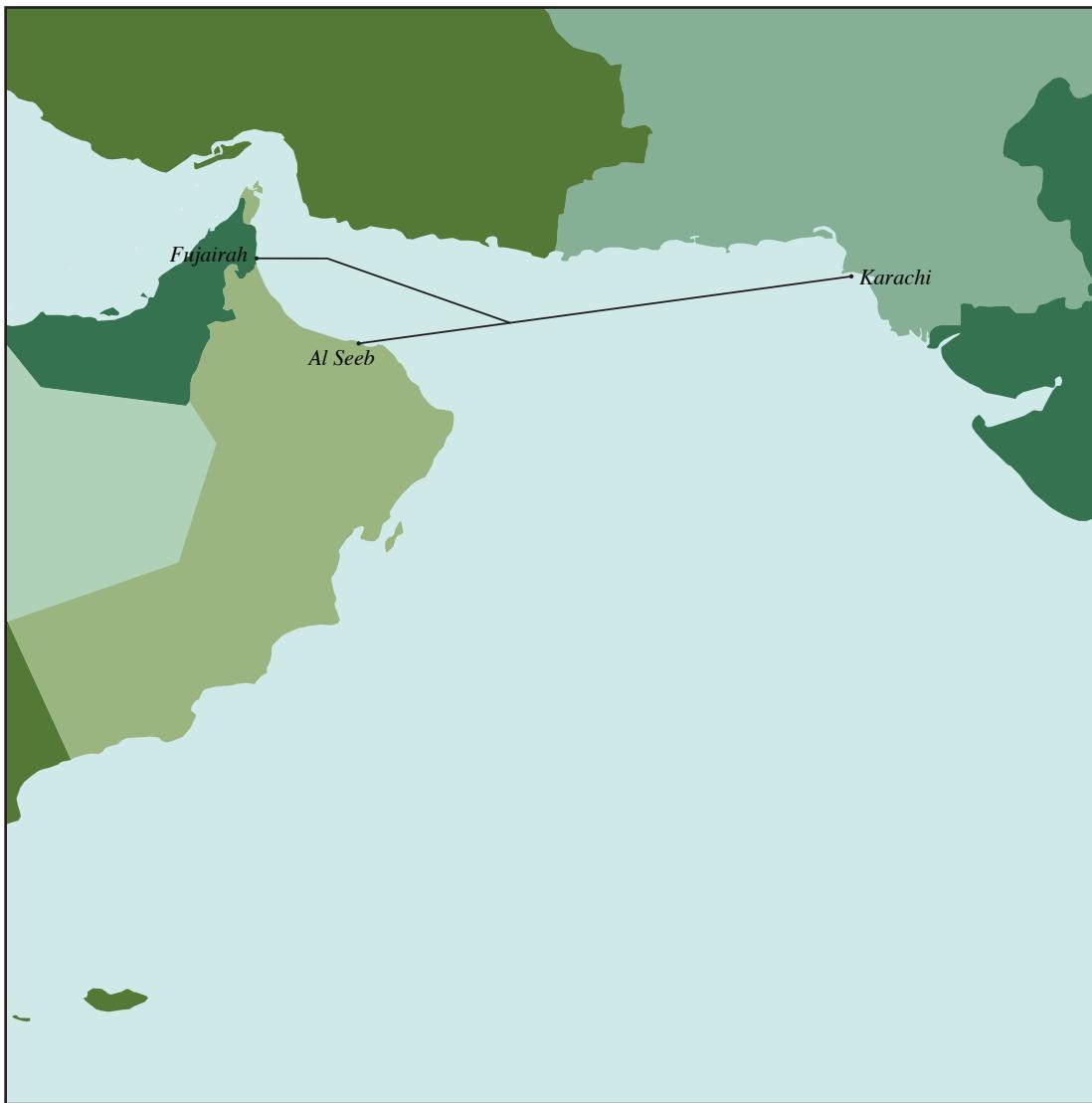
System Name:	TPE
Landing Points:	Chongming (China), Shin-Maruyama (China), Keoje (South Korea), Nedonna Beach (USA), Qingdao (China), Tanshui (Taiwan)
RFS Year:	2008
Est. End of Service Date:	2033
Est. System Cost (US\$):	500000000
Total Length (kms):	16163
Initial Capacity:	1.28 Tb/s
Design Capacity:	5.12 Tb/s
Owners:	AT&T, China Telecom, China Unicom, Chunghwa Telecom International, KT Corporation, Verizon, NTT Com
System Supplier:	Tyco Telecommunications
System Installer:	Global Marine Systems Limited
Cablesip:	Cable Innovator

TRINIDAD-CURACAO

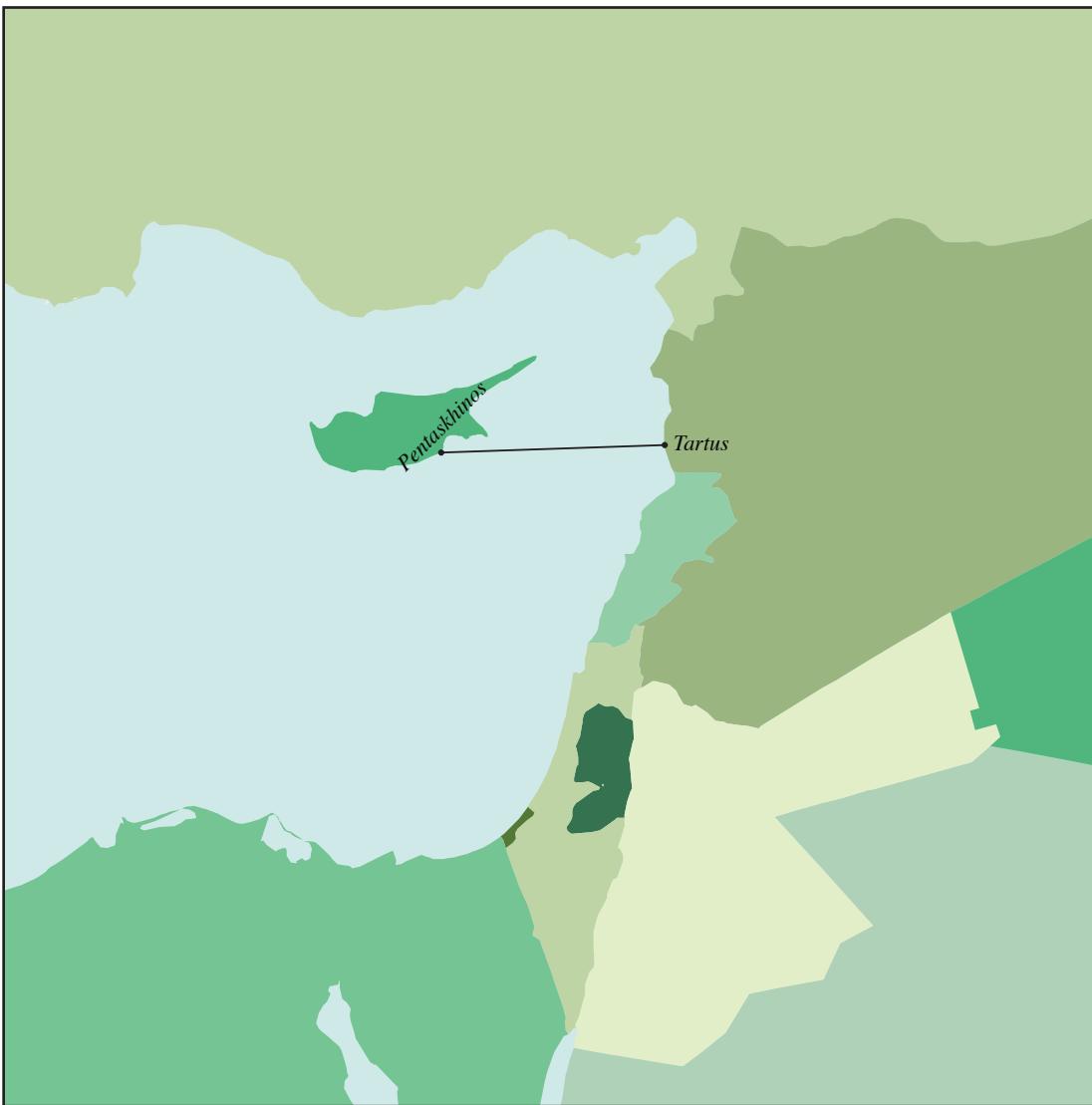


System Name:	Trinidad-Curacao
Landing Points:	Curacao (Curacao), Trinidad (Trinidad)
RFS Year:	2007
Est. End of Service Date:	2032
Total Length (kms):	1240
Initial Capacity:	1.875 Tb/s
Owners:	Colombus Networks, New World Network
System Supplier:	Tyco Telecommunications SSI, Alcatel, NEC
System Installer:	Tyco SSI
Cablesip:	Tyco Durable, Ile de Sein, Ile de Batz, Fu Hai, Segero, Cable Innovator

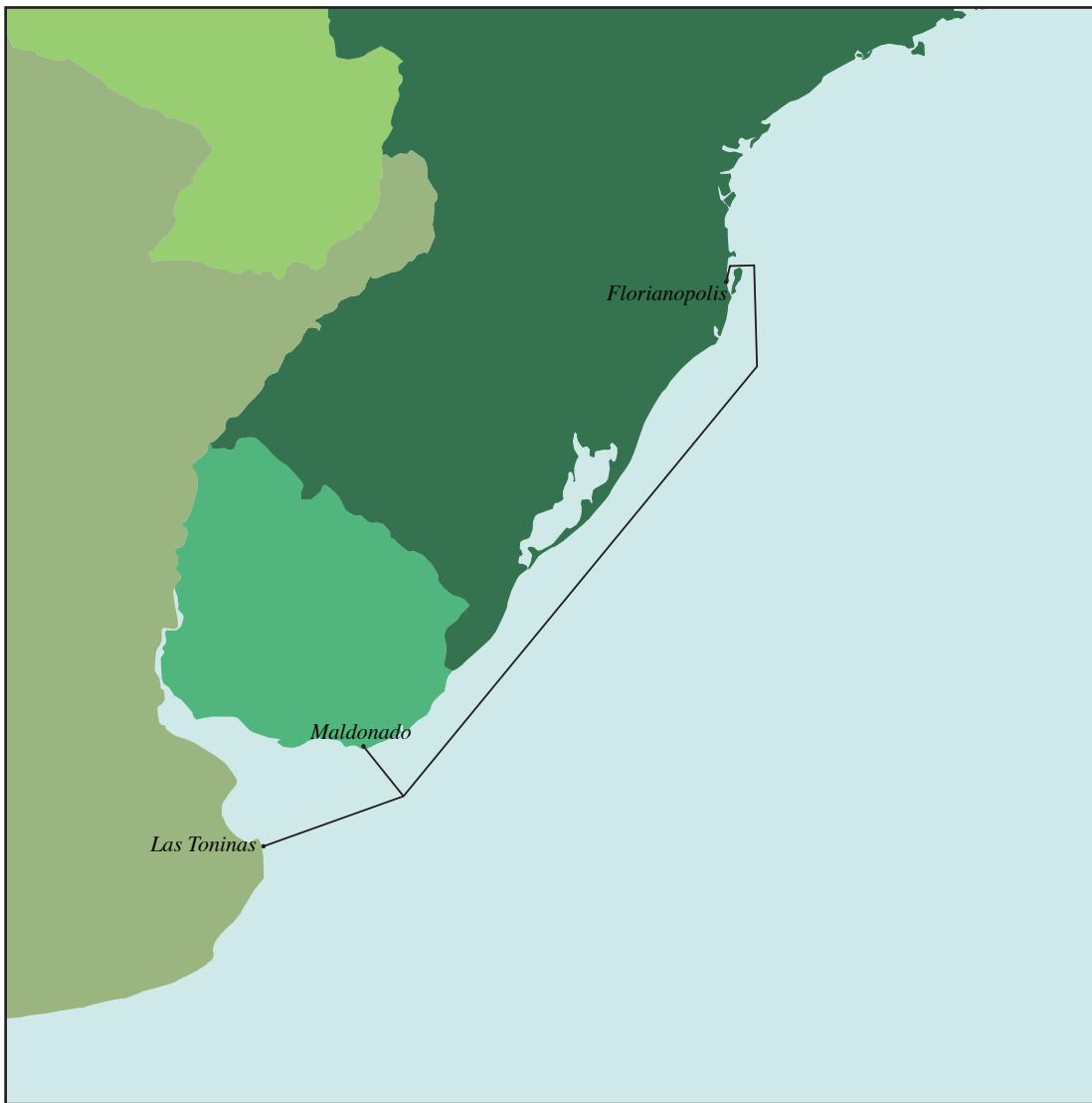
TWA-1



System Name:	TWA-1
Landing Points:	Al Seeb (Oman), Fujairah (United Arab Emirates), Karachi (Pakistan)
RFS Year:	2006
Est. End of Service Date:	2031
Total Length (kms):	1241
Initial Capacity:	1.28 Tb/s
Owners:	Trans-World Associates
System Supplier:	Tyco Telecommunications
System Installer:	Tyco Telecommunications



System Name:	Ugarit
Landing Points:	Pentaskhinos (Cyprus), Tartus (Syria)
RFS Year:	1995
Est. End of Service Date:	2020
Est. System Cost (US\$):	16399000
Total Length (kms):	239
Initial Capacity:	622 Mb/s
Owners:	Cypress Telecommunications Authority
System Supplier:	Tyco Telecommunications

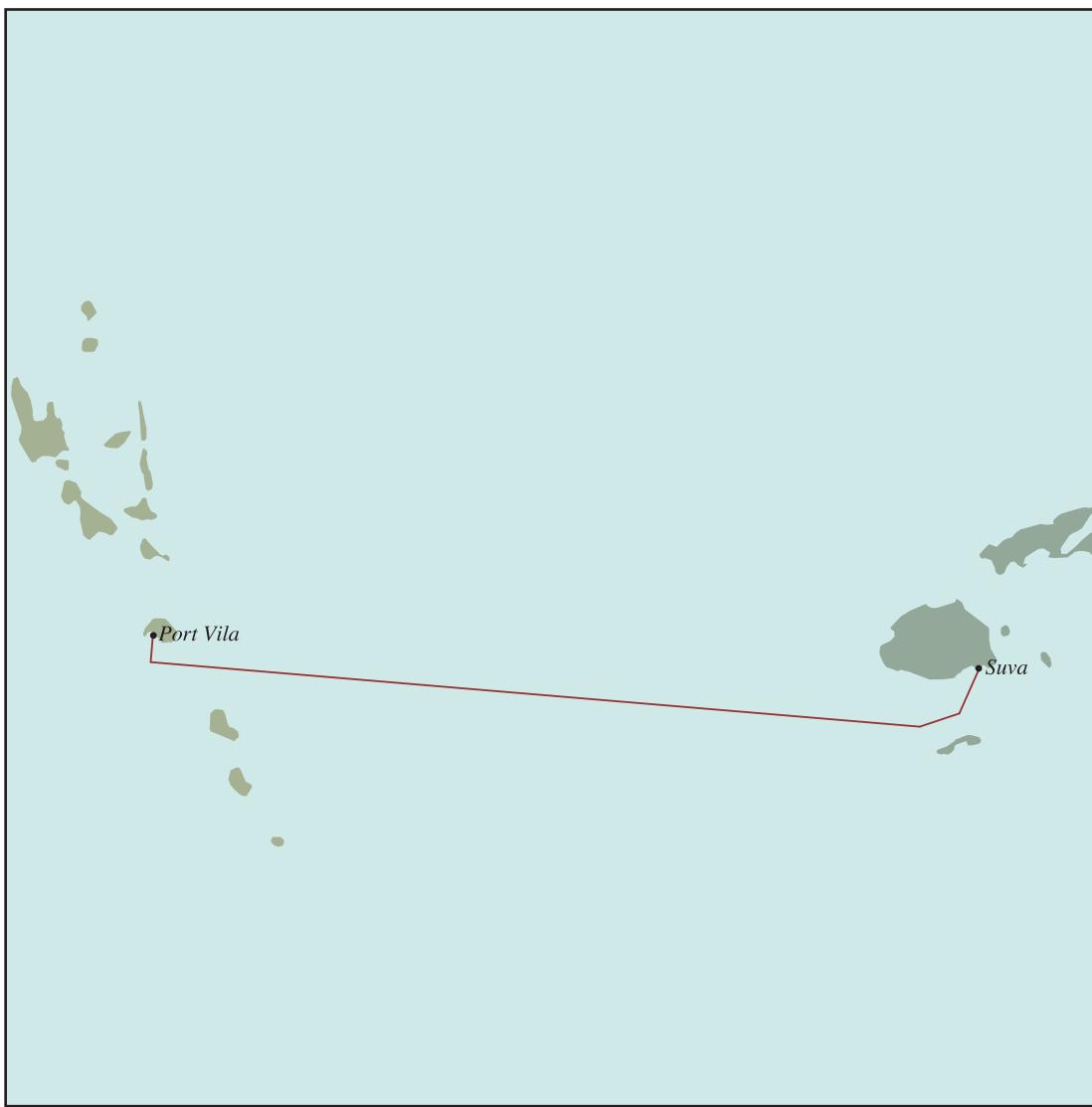


System Name:	Unisur
Landing Points:	Florianopolis (Brazil), Las Toninas (Argentina), Maldonado (Uruguay)
RFS Year:	1994
Est. End of Service Date:	2019
Est. System Cost (US\$):	74000000
Total Length (kms):	1714
Initial Capacity:	560 Mb/s
Owners:	Antel (Uruguay), Embratel, Telecom Argentina, Telefonica de Argentina

UNITY

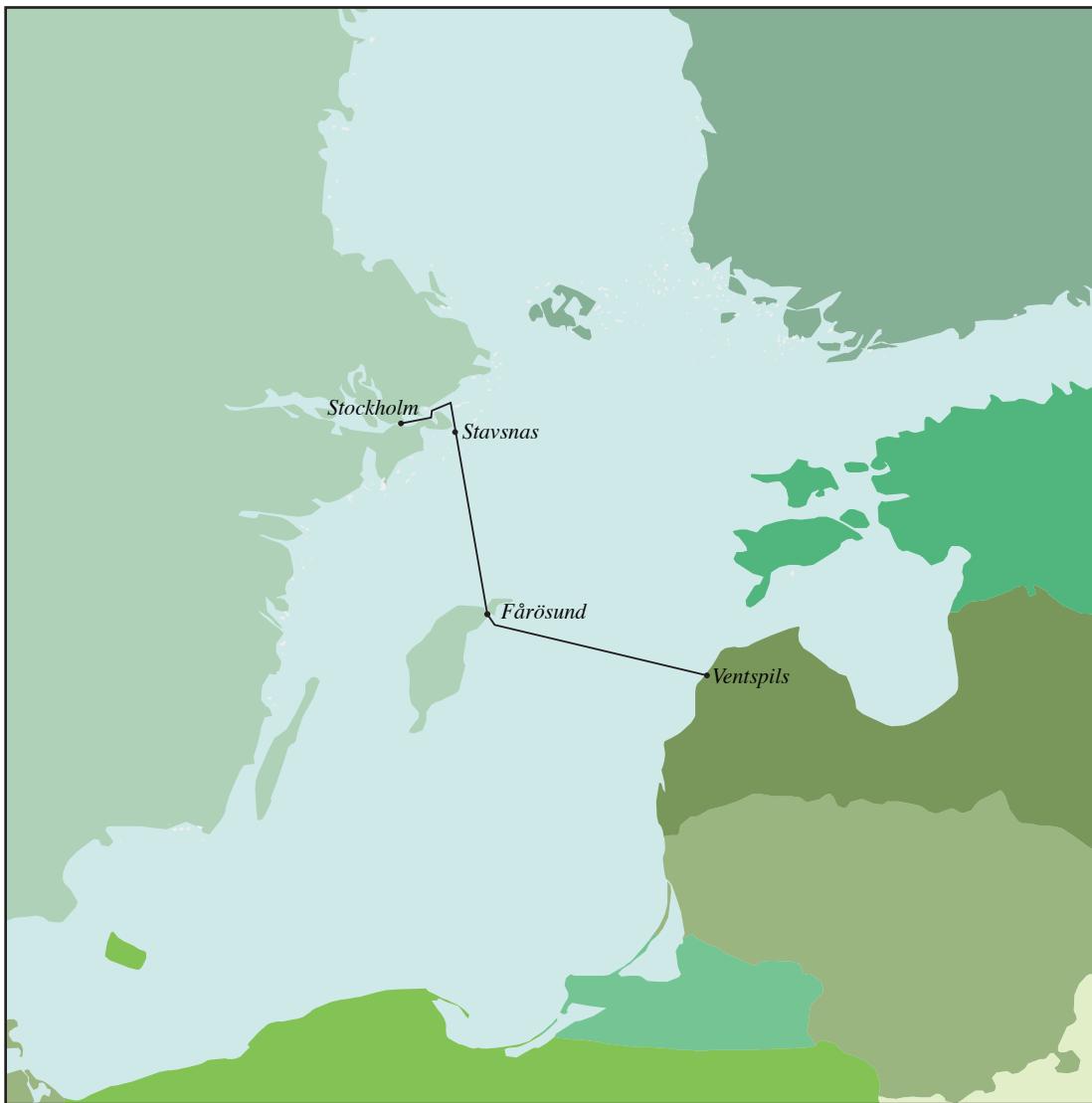


System Name:	Unity
Landing Points:	Chikura (Japan), Los Angeles (USA)
RFS Year:	2010
Est. End of Service Date:	2035
Est. System Cost (US\$):	300000000
Total Length (kms):	9486
Initial Capacity:	1.92 Tb/s
Design Capacity:	4.8 Tb/s
Fiber Information:	5 Fiber Pairs
Owners:	Bharti Airtel, Global Transit, Google, KDDI, PACNET, Singtel
System Supplier:	Tyco Telecommunications - Partial
Upgrader	Alcatel-Lucent Submarine Networks
Upgrade Year	2013
Upgraded Capacity	100 Gb/s



System Name:	Vanuatu
Landing Points:	Port Vila (Vanuatu), Suva (Fiji)
RFS Year:	2013
Est. End of Service Date:	2038
Est. System Cost (US\$):	30000000
Total Length (kms):	1230
Initial Capacity:	20 Gb/s
Design Capacity:	320 Gb/s
Owners:	Interchange Limited

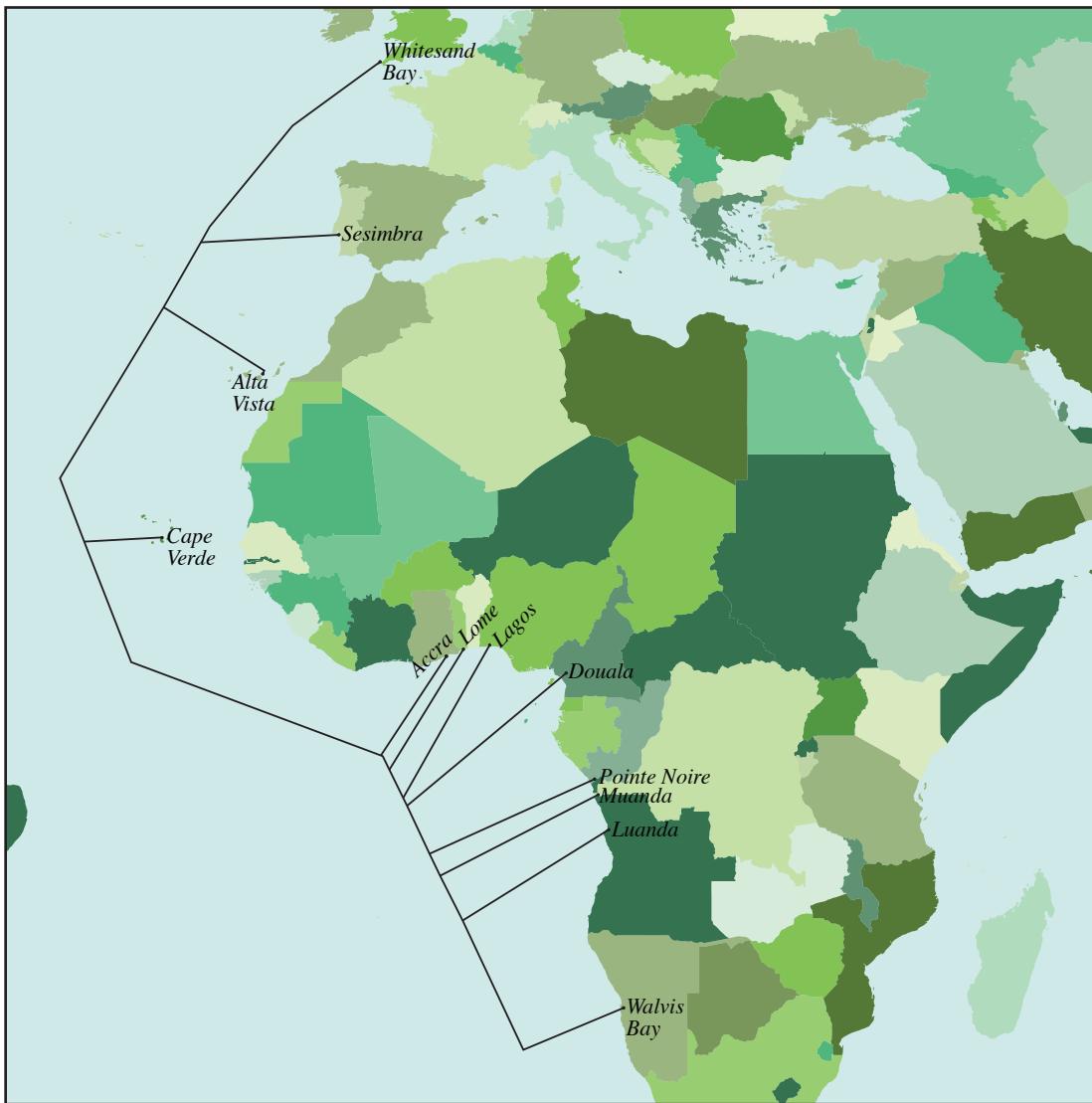
VENTSPILS-GOTLAND



System Name:	Ventspils-Gotland
Landing Points:	Fårösund (Sweden), Stockholm (Sweden), Ventspils (Latvia)
RFS Year:	2004
Est. End of Service Date:	2029
Total Length (kms):	175
Initial Capacity:	2.5 Gb/s
Fiber Information:	34 Fiber Pairs
Owners:	Baltcom
System Supplier:	TE SubCom

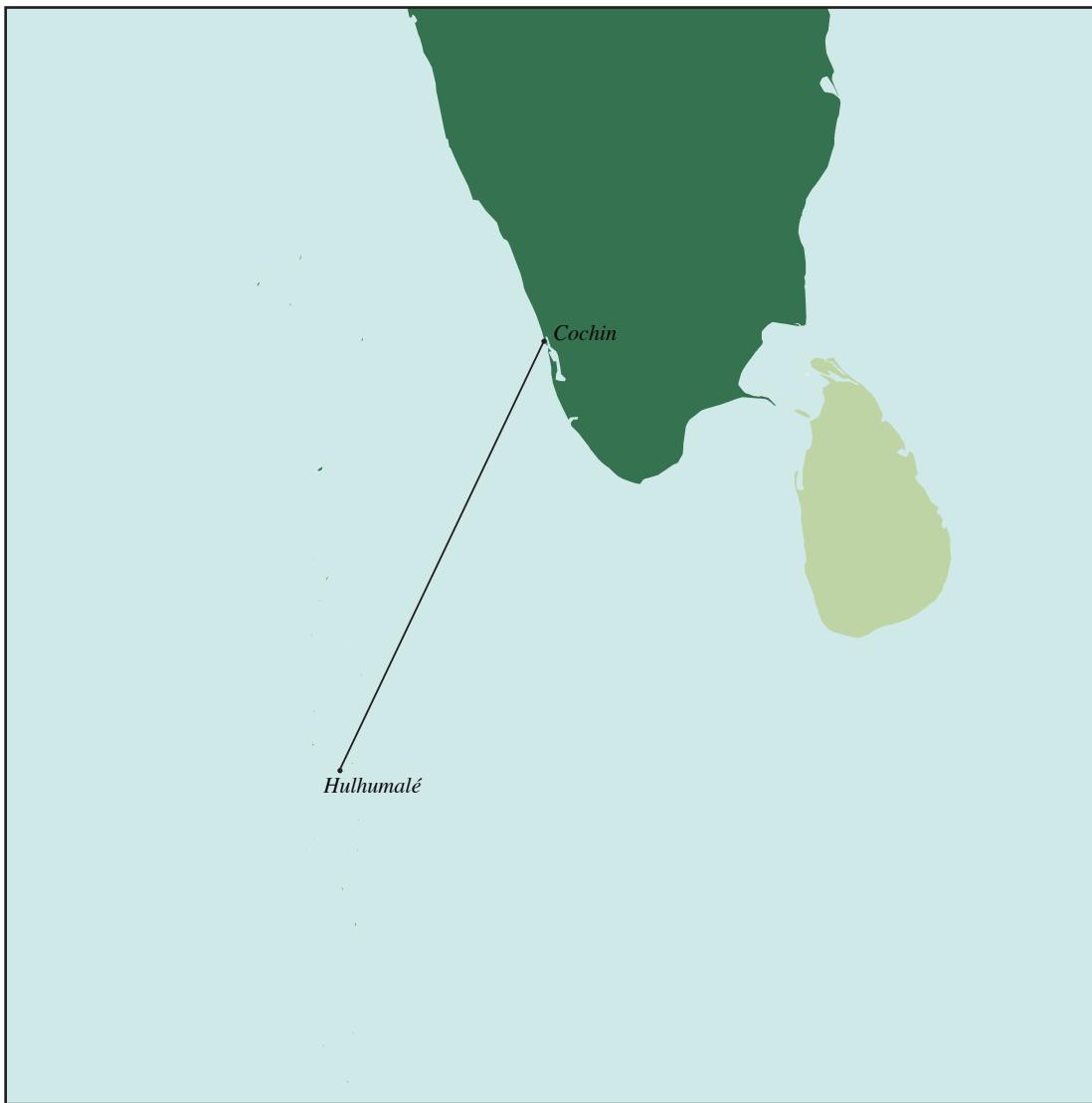


System Name:	VMSCS
Landing Points:	Balluta (Malta), Catania (Italy)
RFS Year:	2004
Est. End of Service Date:	2029
Total Length (kms):	250
Initial Capacity:	10 Gb/s
Owners:	Vodafone Malta

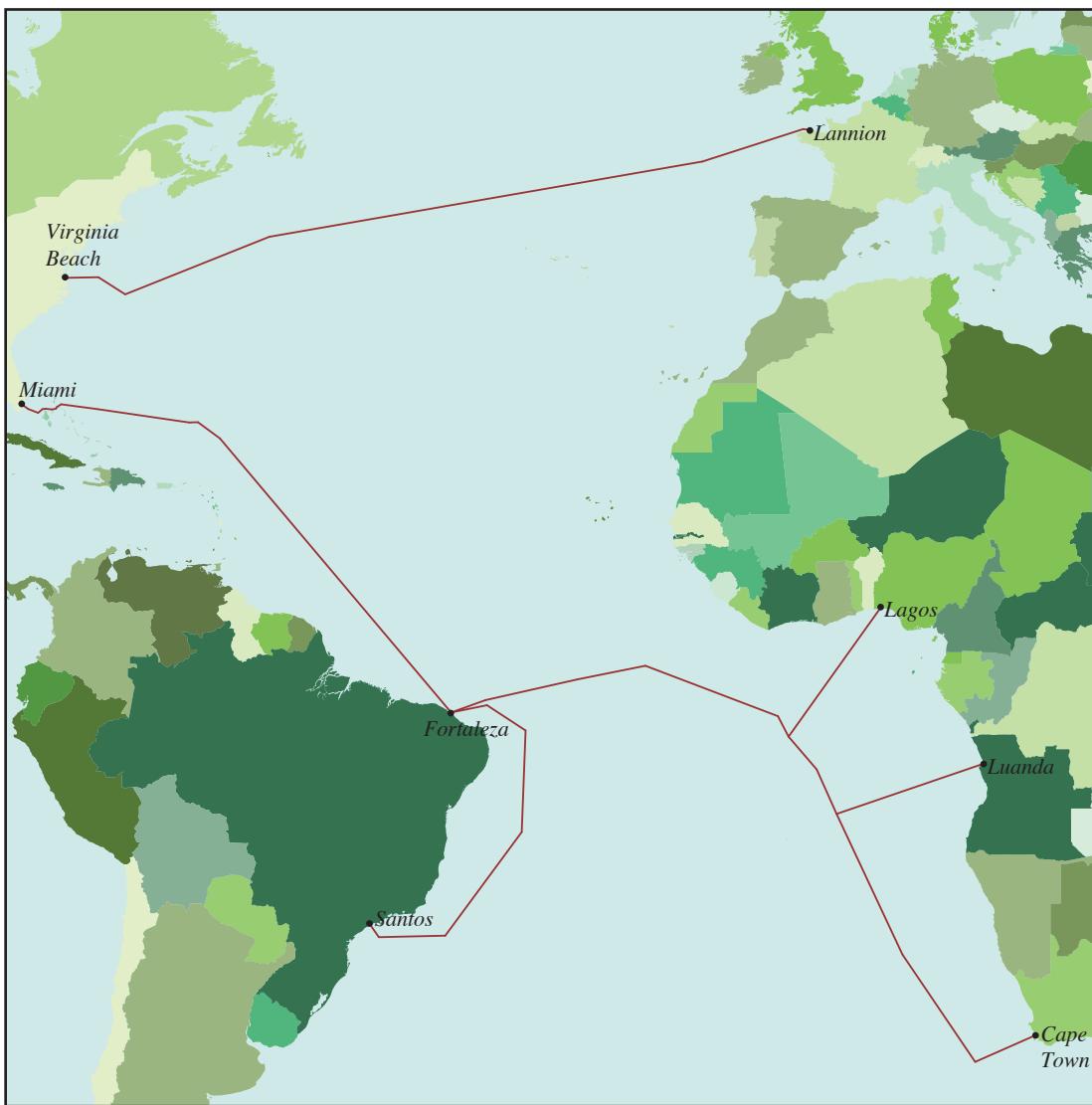


System Name:	WACS
Landing Points:	Accra (Ghana), Alta Vista (Spain), Cape Verde (Cape Verde), Douala (Cameroon), Lagos (Nigeria), Lome (Togo), Luanda (Angola), Muanda (DRC), Pointe Noire (Congo), Sesimbra (Portugal), Walvis Bay (Namibia), Whitesands Bay (UK)
RFS Year:	2012
Est. End of Service Date:	2037
Est. System Cost (US\$):	600000000
Total Length (kms):	14000
Initial Capacity:	500 Gb/s
Design Capacity:	5.1 Tb/s
Owners:	Angola Cables, Broadband Infraco, Congo Telecom, C&W, MTN Group, Office Congolais de Poste et Telecommunication, PT Comunicações, Tata Communications, Telecom Namibia, Telekom SA, Togo Telecom, Vodacom

WARF



System Name:	WARF
Landing Points:	Cochin (India), Hulhumalé (India)
RFS Year:	2007
Est. End of Service Date:	2032
Total Length (kms):	1100
Owners:	WARF Telecom International
System Supplier:	Alcatel Submarine Networks
Marine Surveyor:	Fugro



System Name:	WASACE
Landing Points:	Cape Town (South Africa), Fortaleza (Brazil), Lagos (Nigeria), Lannion (France), Luanda (Angola), Miami (USA), Santos (Brazil), Virginia Beach (USA)
RFS Year:	2015
Est. End of Service Date:	2040
Est. System Cost (US\$):	1000000000
Total Length (kms):	30000
Design Capacity:	100 Gb/s
Owners:	WASACE Cable Company
System Supplier:	TE SubCom

where it's never been done before



wfnstrategies

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submarine telecoms
FORUM