

Corporate Presentation

SPARKLE | IP&DATA PLATFORM

SPARKLE | CLOUD & DATA CENTER PLATFORM

SPARKLE | CORPORATE PLATFORM

SPARKLE | MOBILE PLATFORM

SPARKLE | VOICE PLATFORM

SPARKLE

TIM Group Overview



TIM Group Overview



It is the **leading Telecommunications and ICT group** and **Italy's digital partner**. In the areas of fixed, mobile and convergent telecommunications, internet, digital content, cloud platforms and services, ICT solutions, research and development

Leading Player in Brazil

Among TOP global operators through Sparkle

Core markets: **Italy**, **Brazil**

Sparkle Overview

Company data

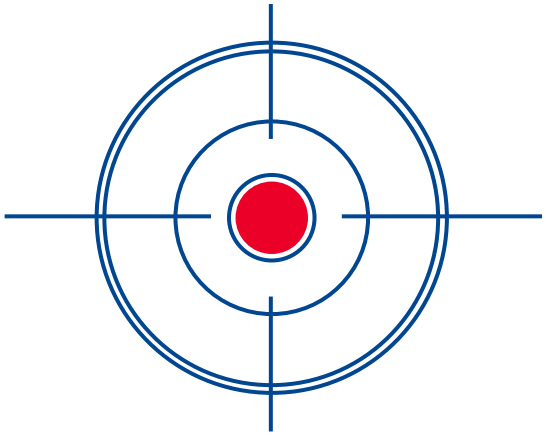
Headcount
754

Countries of presence
34

Network coverage*
#PoPs 159

PoPs via partners
> 1,000

Data as of December 2019
(*) Data as of April 2020



Key figures

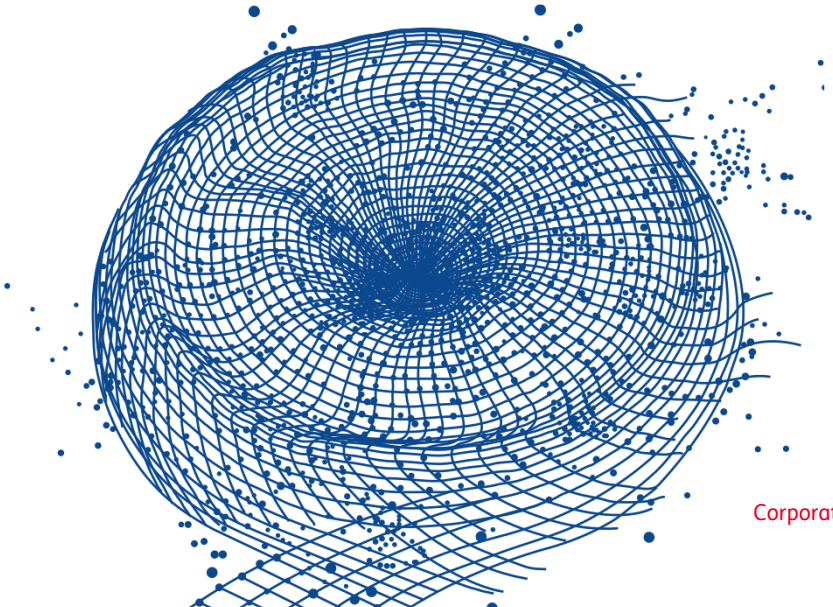
Voice Traffic
10.3 Bn minutes

Revenues
ca. 1 Bn €

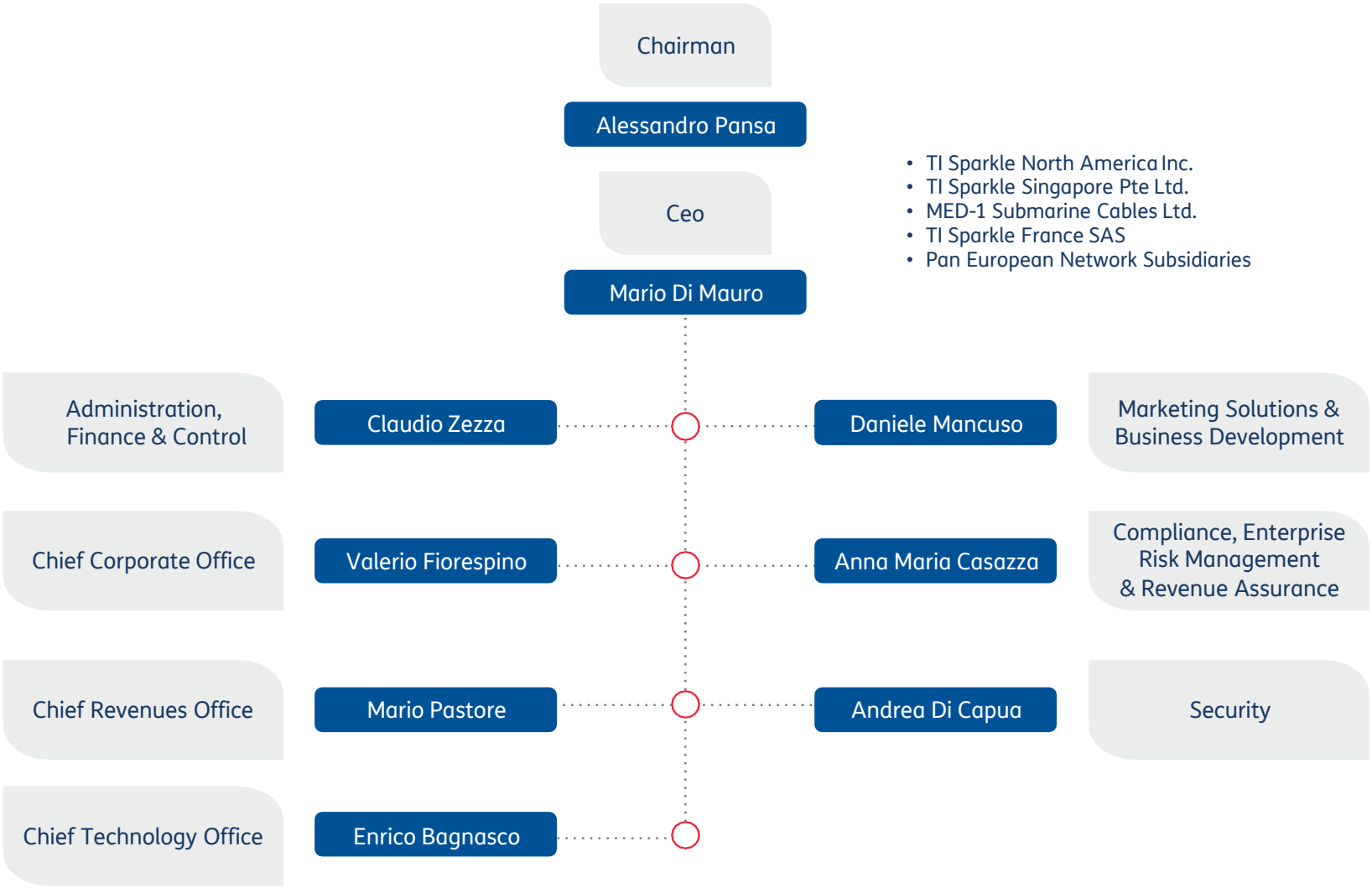
Data as of December 2019

Sparkle Overview

- **A LEADING GLOBAL OPERATOR** with an unparalleled experience and know-how in a wide range of diverse markets. Sparkle, with its IP&Data, Cloud & Data Center, Corporate, Mobile and Voice Platforms, actively takes part in the development of worldwide communications, providing the best global connectivity solution to Fixed and Mobile Carriers, ISPs, OTTs, Media & Content Players, Application Service Providers and Multinational Corporations, before they know they need it
- **Wholly owned subsidiary of TIM Group** with the objective of developing the international wholesale and the retail multinational corporate businesses, as well as of **supporting TIM Group business units for the provisioning of International Service**



Sparkle Organization



Sparkle Positioning

- Sparkle Global IP Backbone “Seabone” ranks **#7** worldwide and is leader in the Mediterranean, Middle East, Africa and in South America
- Cloud & Data Center Solutions available in several DCs worldwide, with key assets presence in Italy, Greece and Turkey
- **Leader** in Italy, challenger in Europe and emerging player on the global market
- **#10** for worldwide traffic collected on an international basis
- Among the few global players currently active in the wholesale mobile market

IP&Data Platform
 # 7 Globally

 # 1 in Middle East
 # 1 in South America
 # 2 in Africa
 # 5 in Europe

IP WW Ranking

IP Global Ranking (Backbone)	March 2020
Telia Carrier	1^
Cogent	2^
Level 3	3^
GTT	4^
NTT	5^
Tata Communications	6^
Sparkle	**7^**
Hurricane Electric	8^
Verizon Business	9^
PCCW Global	10^

(source: Ranking Renesys)

Voice Platform
 # 10 Globally

Int’l Voice traffic Ranking

Bn Min		2019
Vodafone CS	1^	55.6
Tata	2^	32
Orange	3^	30.5
Tofane	4^	30
IDT	5^	26
DT	6^	26
BICS	7^	24.3
Barthi	8^	21
Telefonica	9^	21
Sparkle	**10^**	**10.3**

(source: IMF-GTF)

Sparkle Key Assets

State-of-the-art Global Network with proprietary backbones in Europe, Mediterranean Basin and the Americas and ownership in submarine cables connecting Europe with South-East Asia and the Americas

Global Services Portfolio for Fixed and Mobile Operators, ISPs, OTTs, Media & Content Players, Application Service Providers and Multinational Corporations

Worldwide presence in 34 countries based on fully owned companies and offices

Advanced OSS, BSS and **Customer Care capabilities** with multi-lingual call center

Sparkle Operations

Sparkle has a **global presence** based on its fully owned subsidiaries and offices in **34 countries**, with a headcount of over 700 in Italy and abroad

Pan European Backbone

Operations in the US through a 214 Licence, for the offer of **international IP&Data, Mobile and Voice solutions**



Operations in the AsiaPac Region through a FBO Licence, for the offer of **international IP&Data, Mobile and Voice solutions**

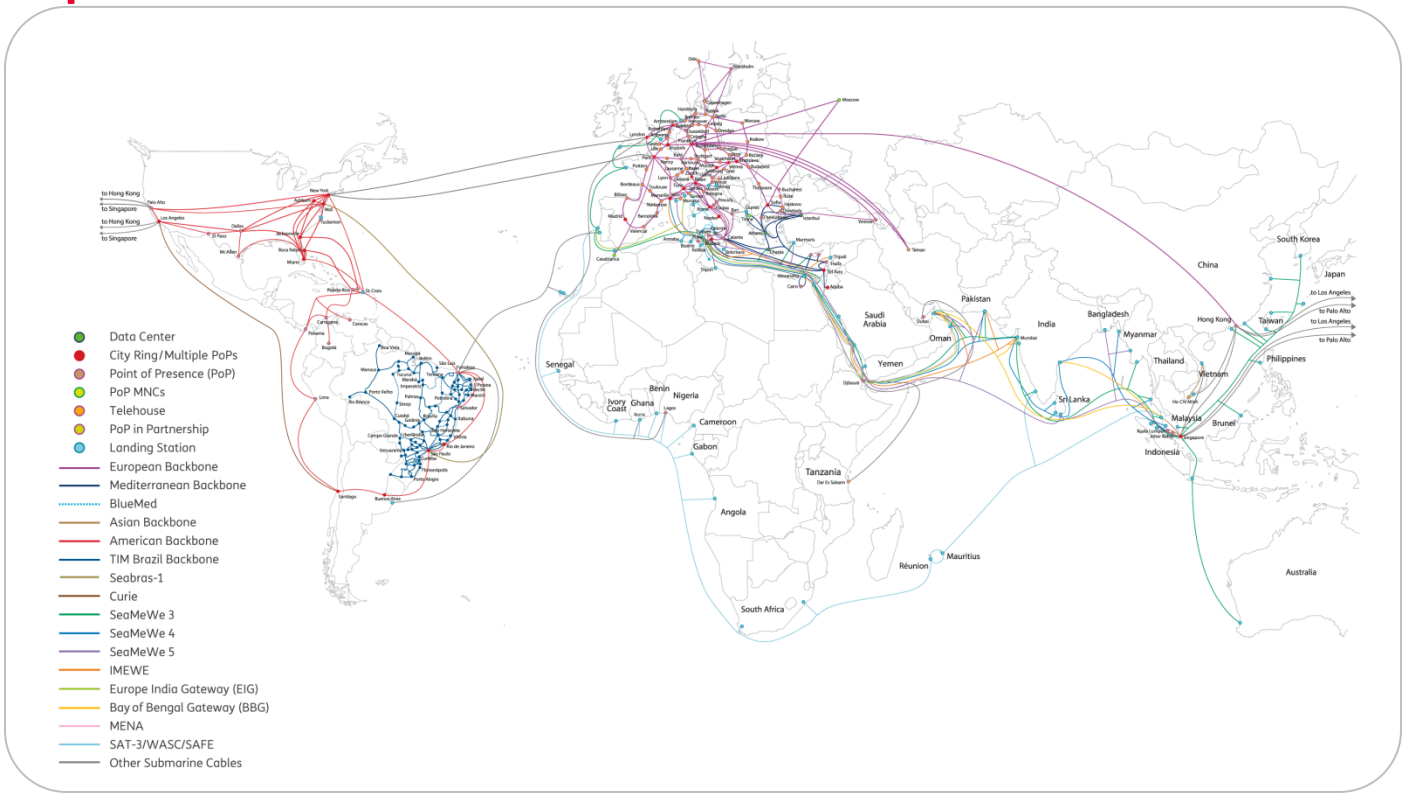
High quality, value-added wholesale service **operations in the Americas** through a state-of-the-art **regional proprietary fiber optic backbone** fully integrated with Sparkle's global network

High quality, value-added wholesale service **operations in the Mediterranean basin** through a state-of-the-art **regional proprietary fiber optic backbone** fully integrated with Sparkle's global network

● Office

Data as of December 2019

Sparkle Global Network



GLOBAL CAPABILITIES

- 86 cities in 44 countries
- 159 PoPs
- >1,000 PoPs through partners
- 41,000 km/fibre PEB
- 58,500 km Americas Backbone
- 11,000 km Mediterranean Backbone
- 18,000 km/fibre Italian network
- more than 433,000 km submarine cables*
- ca. 53,000 km other fibre network*

Data as of April 2020

(*) Includes Lease

- Full IP Global Network
- Unique protected fiber path in Europe and global meshed architecture providing full resilience
- Unique footprint in Middle East and South East Asia through a state-of-the-art regional proprietary fiber optic backbone in the Mediterranean Basin, SeaMeWe-3, SeaMeWe-4, SeaMeWe-5, IMEWE and bilateral cable Systems
- New POPs in Italy, UK, US, Colombia, Brazil, Nigeria, Armenia, Jordan and Morocco
- Increased network capillarity in Europe
- New proprietary redundant backbone links from North to South America, new cable Seabras-1 connecting New York and Sao Paulo and new Fiber Pair on Google's Curie Submarine Cable to directly connect Chile to US
- Capacity across the Atlantic and the Pacific

Sparkle Service Proposition

Complete set of **IP, Data, Cloud & Data Center, Corporate, Mobile and Voice solutions** for **Fixed and Mobile Operators, ISPs, OTTs, Media & Content Players, Application Service Providers and Enterprises**

SPARKLE | IP&DATA PLATFORM

A complete range of solutions designed to access any content on the Internet with secure global international IP connectivity, high-performance international bandwidth and IP MPLS services

SPARKLE | CLOUD & DATA CENTER PLATFORM

Suite of highly flexible and scalable top class integrated IaaS, PaaS and SaaS that meets the ever growing need of cost efficient and top security IT solutions, available in several Data Centers worldwide, with proprietary key assets in Italy, Greece and Turkey

SPARKLE | CORPORATE PLATFORM

Complete portfolio of services, including global connectivity and ICT, aimed at serving the needs of corporate customers with the highest performance level

SPARKLE | MOBILE PLATFORM

A distinctive portfolio designed to support the operations of mobile operators to rapidly increase international mobile coverage and usage, generate new revenue streams and minimize service set up and management costs

SPARKLE | VOICE PLATFORM

Voice Solutions offer worldwide voice capabilities to Carriers, Service Providers and Mobile Operators combining network reliability, competitive pricing and excellent routing solutions

Sparkle Global Portfolio

SPARKLE | IP&DATA PLATFORM

YOU CONNECT AND TOGETHER WE EVOLVE

- SPARKLE | Seabone
- SPARKLE | DDoS Protection Service
- SPARKLE | Virtual NAP
- SPARKLE | IXP Connect
- SPARKLE | City2City
- SPARKLE | Site2Site
- SPARKLE | Ethernet Suite
- SPARKLE | Country2Country
- SPARKLE | Restoration

SPARKLE | CLOUD & DATA CENTER PLATFORM

YOU GROW AND TOGETHER WE EVOLVE

- SPARKLE | IaaS Suite
- SPARKLE | Backup and Storage as a Service
- SPARKLE | Disaster Recovery as a Service
- SPARKLE | Professional Services
- SPARKLE | MultiCloud Suite
- SPARKLE | YourCloudStore
- SPARKLE | Cloud Tailored Suite
- SPARKLE | Vertical Services
- SPARKLE | Sicily Hub
- SPARKLE | Greece Data Centers
- SPARKLE | Turkey Data Centers
- SPARKLE | Miami Data Center
- SPARKLE | Global Data Center
- SPARKLE | Data Center Connect
- SPARKLE | Cloud Connect

SPARKLE | CORPORATE PLATFORM

WE COLLABORATE AND TOGETHER WE EVOLVE

- SPARKLE | Ethernet Suite
- SPARKLE | Carrier MPLS
- SPARKLE | IP VPN Suite
- SPARKLE | SD-WAN
- SPARKLE | Global Connect
- SPARKLE | Data Center Connect
- SPARKLE | Cloud Connect
- SPARKLE | Bandwidth on Demand
- SPARKLE | Outsourcing Solutions
- SPARKLE | Communication Solutions
- SPARKLE | IoT Solutions
- SPARKLE | Media Solutions
- SPARKLE | eHealth Solutions

SPARKLE | MOBILE PLATFORM

YOU MOVE AND TOGETHER WE EVOLVE

- SPARKLE | IPX
- SPARKLE | GRX
- SPARKLE | Big Data
- SPARKLE | Global Signalling
- SPARKLE | LTE Diameter Signalling
- SPARKLE | Signalling Protection Suite
- SPARKLE | SMS Transit
- SPARKLE | SMS Booster
- SPARKLE | Voice & SMS Express
- SPARKLE | Outbound Roaming Solution
- SPARKLE | VoLTE Transit and Roaming

SPARKLE | VOICE PLATFORM

YOU TALK AND TOGETHER WE EVOLVE

- SPARKLE | Best Voice Transit
- SPARKLE | W.A.V.E. Voice Outsourcing
- SPARKLE | IPX
- SPARKLE | High Definition Voice
- SPARKLE | Access Services
- SPARKLE | Barrier Antifraud Services
- SPARKLE | Voice & SMS Express

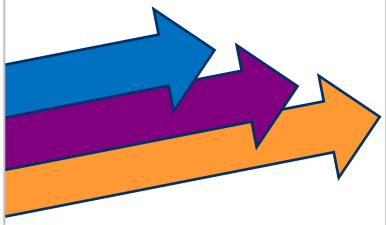
Cloud & Data Center Solutions

Data Center

6 DC Hubs Worldwide Located	**Colocation**
Best Technology in the Market	**Power**
Everything you need to be connected	**Cabling**
360° Data Center Support	**Colo Professional Services**

Advanced Data Centers to meet the requirements of Telcos and Enterprises

With



Int'l Global Network Inside

Cloud

IaaS	*Scalable and Flexible*
Security	*A full set of security solutions*
Online Marketplace	*Self-Management white label marketplace and Advanced SaaS*
DraaS	*High business agility and continuity*
Cloud Storage	*Secure, Robust and Scalable*
MultiCloud	*Reselling of Public Clouds + tools & professional services*
Cloud Connect	*High Speed and secure connectivity to all Pubic Cloud Players*

An innovative and wide service portfolio

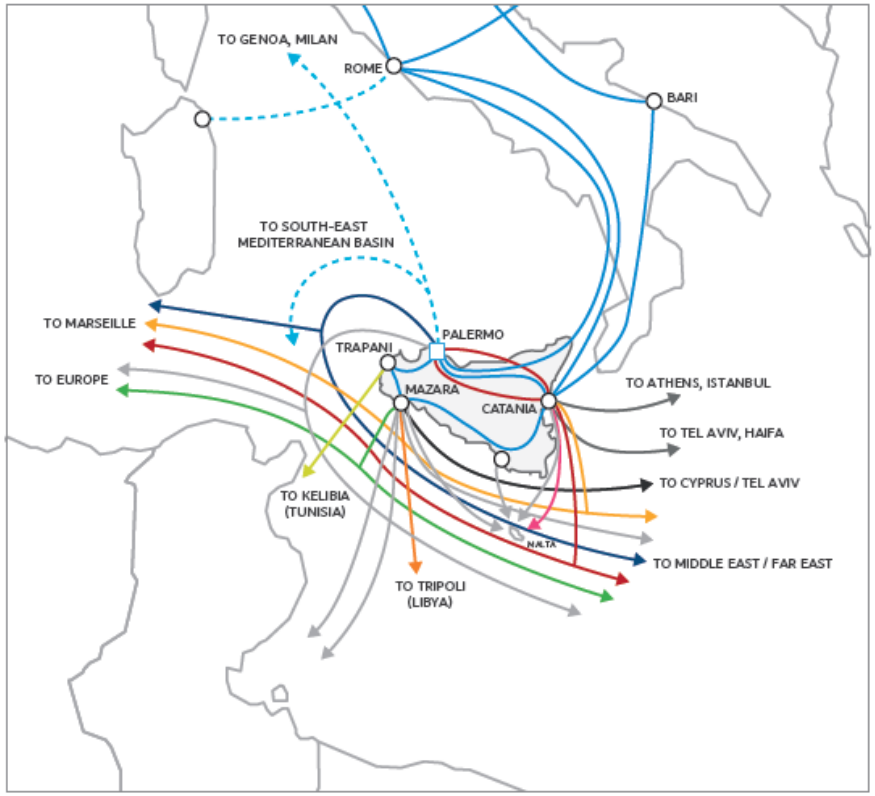
...and a unique Set of Cloud/Data Centers and Network Infrastructure

Colo and Hosting capabilities, completely ***integrated with Sparkle's network services worldwide***

Regional Data Centers in **Italy, Greece and Turkey** that leverage on Sparkle's unique protected terrestrial and submarine network to Europe

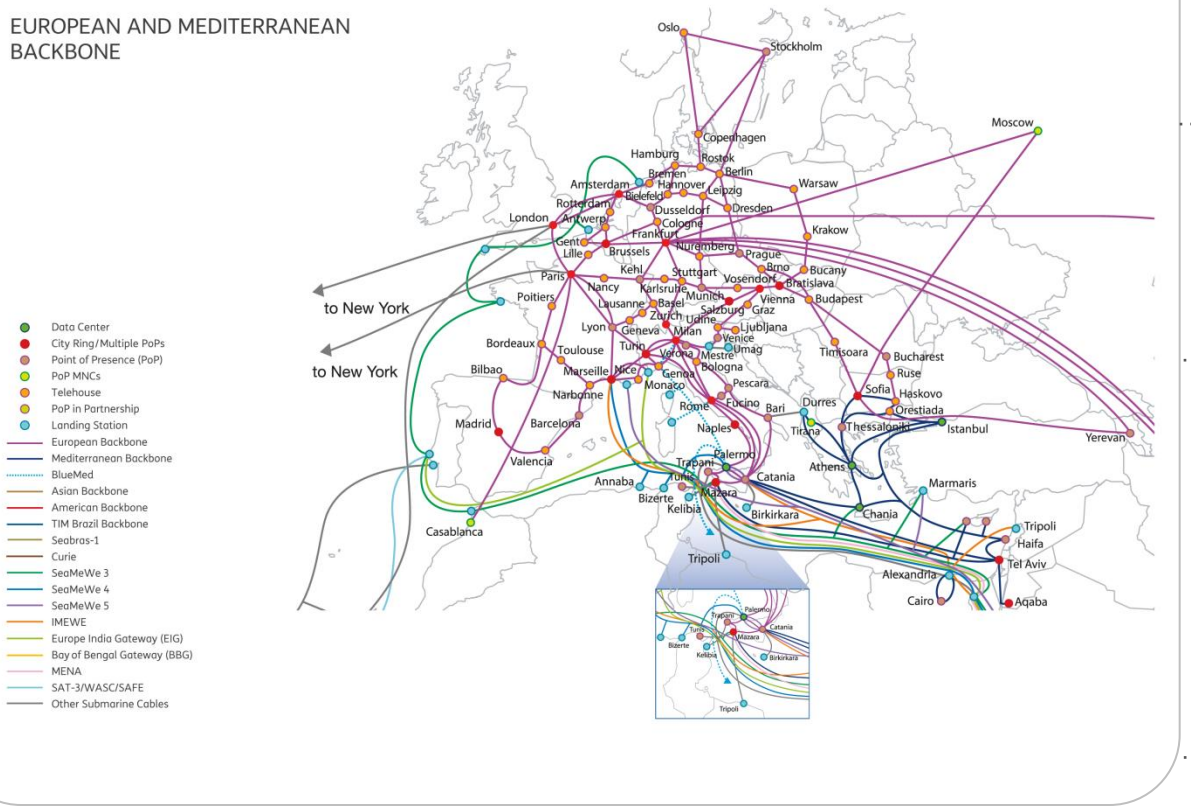
Sicily Hub as Top Mediterranean Gateway to the Global Internet

The leading IP gravity center in the Mediterranean where Content meets ISPs is in Palermo



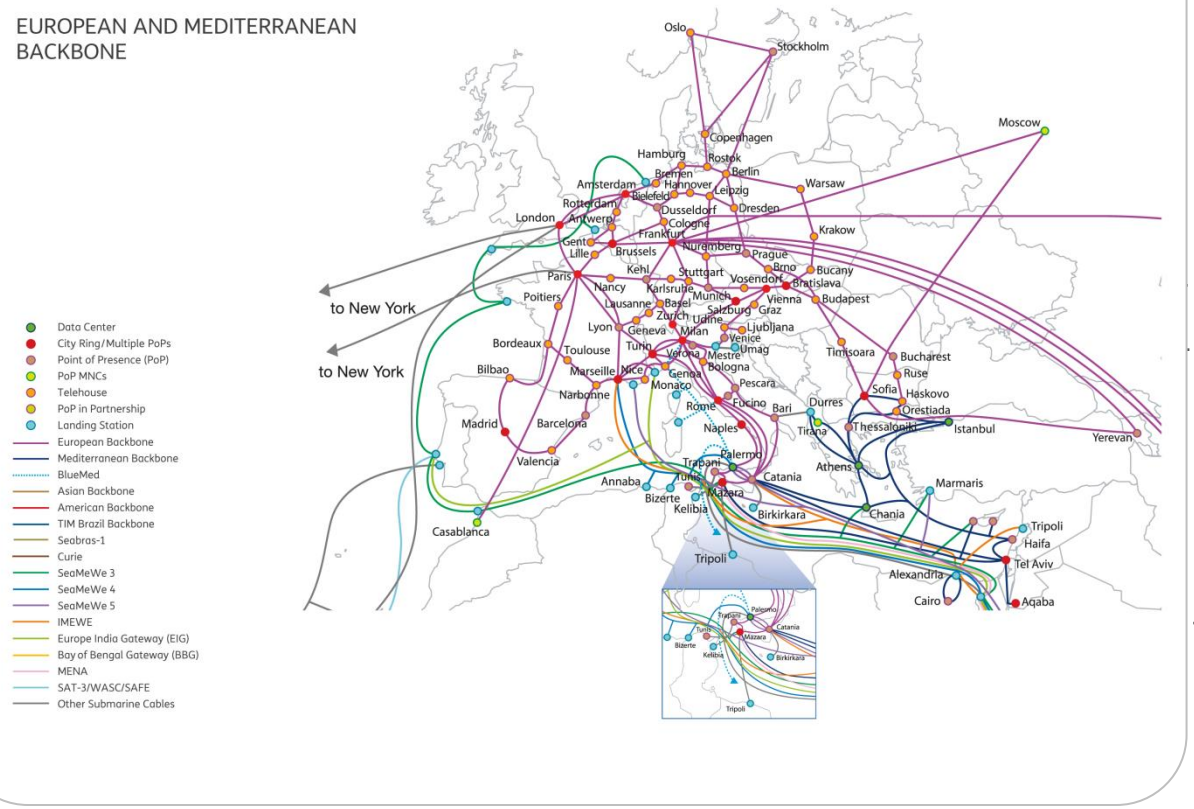
- **Neutral colocation facility**
- **Connected to all landing stations in Sicily, including SeaMeWe-5**
- **Private or Public Peering through DE-CIX**, the world largest neutral IX
- **Content**, the most important players have chosen Sicily Hub to interconnect with ISPs
- **Quality & Competitiveness**, improved latency and lower costs than any other European location
- **Flexibility**, to efficiently manage submarine and terrestrial capacity with enhanced resilience
- **Marketplace** of multi-breed interconnected players to trade any telecommunication and cloud solutions

Focus on Key Regional Backbones: Europe & Mediterranean



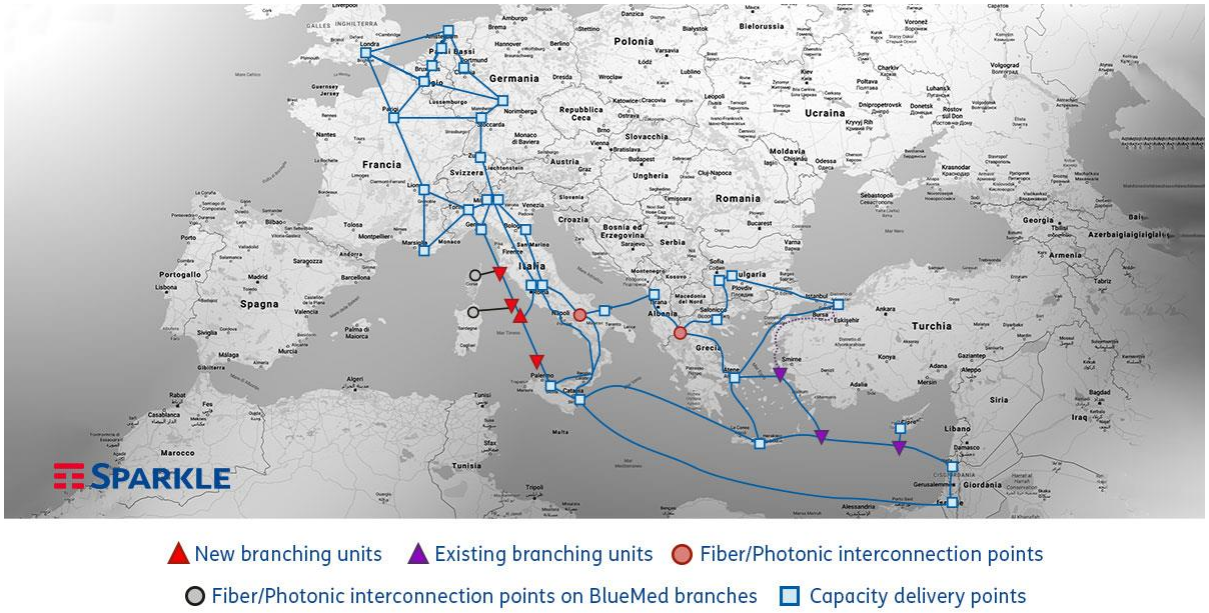
- Increased network capillarity in Europe
- Unique protection from Istanbul to Europe through terrestrial and submarine networks
- New diversified and protected backbone links in the Balkans as alternative route to connect Europe to Africa, Middle and Far East
- New POPs in Moscow and Casablanca for Corporate Solutions

Reinforcing Leadership in the Mediterranean through BlueMed….



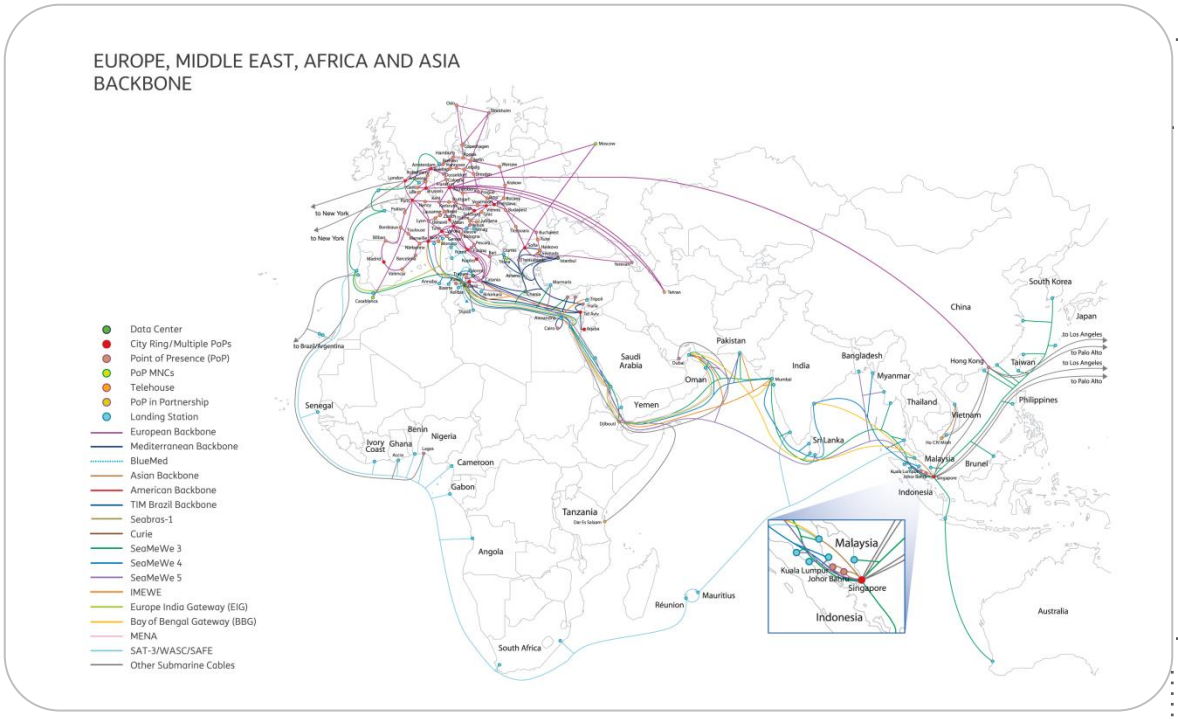
- **New cable to connect Palermo with Genoa's new open landing station, directly connected to Milan's rich digital ecosystem**
- **Multiple branches within the Tyrrhenian Sea to support further extensions southbound of Sicily**
- **Capacity up to 240 Tbps, Total length of 1,000 km**
- **Expected RFS 2020**
- BlueMed will provide **advanced connectivity between Middle East, Africa, Asia and the Europe** with up to **50% latency reduction** than existing terrestrial cables connecting Sicily with Milan
- Sparkle's new open landing station in **Genoa is set to become the alternative priority access for other upcoming submarine cables** looking for a diversified entry way to Europe, thus **strengthening Italy's role as digital gateway between Africa, Middle East, Asia and Europe**

....and Nibble, the new Pan-Mediterranean Network



- **New ultra-long-haul photonic backbone digitally linking Sicily with the major Points of Presence and datacenters in Europe**
- **Built upon new express fibers, Nibble will provide industry-leading speeds, low-latency, high-performance, scalable and guaranteed connectivity services between the most important European locations, meeting carriers and enterprises' rapidly increasing network capacity requirements**
- Based on: **DWDM & Instant Network technologies, Software-Defined Bandwidth solution and Instant Network**
- Nibble will progressively be **integrated with Sparkle's existing Mediterranean and Balkans Network and with BlueMed**
- First link connecting Sparkle's Sicily Hub in Palermo with Milan Caldera open datacenter
- **RFS: EoY 2020**

Strategic Focus on Med, ME, Africa & APAC Corridors



- **IMEWE reinforces Italy's role as main infrastructural Hub in the Mediterranean** connecting Middle East and South-East Asia to Europe
- Through Sparkle's global network, operators in fast-growing markets of Middle East and Asia have access to worldwide contents with unrivalled performance through a **2-way path connecting Sparkle's Asian network to Europe and US, both East and Westbound**

EUROPE & MEDITERRANEAN

- **Fully resilient Pan European backbone** covering 13 countries
- **State-of-the-art regional proprietary fiber optic backbone** covering: Italy, Turkey, Israel, Greece, Cyprus
- **Proprietary submarine cable Athens-Istanbul**
- **Bilateral cables with Monaco, Albania, Croatia, Slovenia, Cyprus, Malta, Israel and Libya**

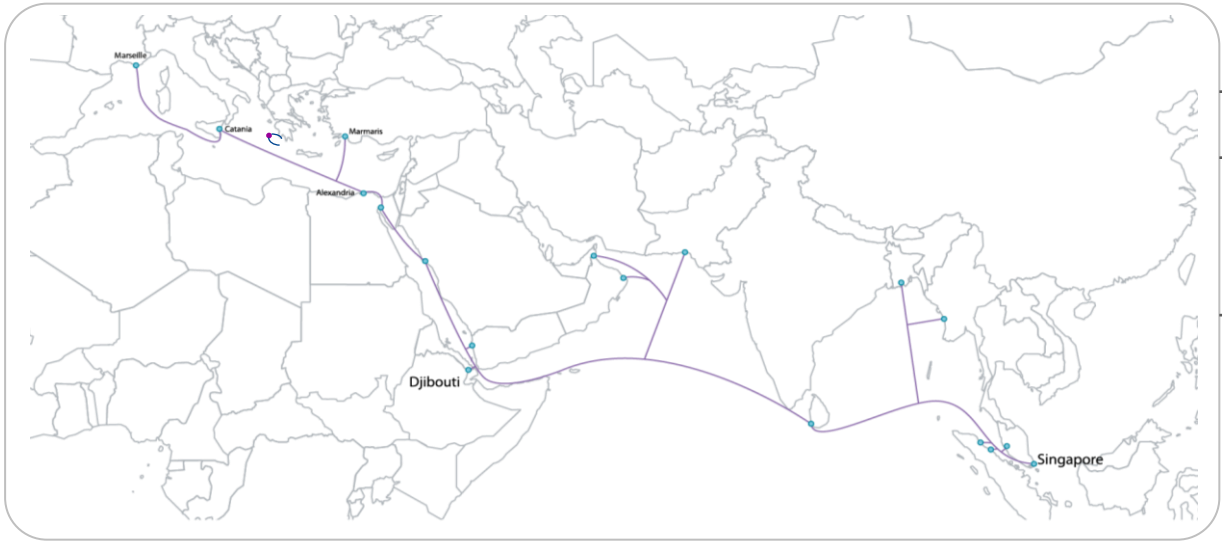
EUROPE TO AFRICA, ME & ASIA

- **SeaMeWe-4** cable: France, Algeria, Tunisia, Italy, Egypt, Saudi Arabia, India, South-East Asia
- **IMEWE** cable: France, Italy, Lebanon, Egypt, Saudi Arabia, United Arab Emirates, Pakistan, India
- Other Submarine Cables: **SeaMeWe-3, EIG, BBG** and **MENA** (Europe, Africa, Middle East, Far East)
- **SeaMeWe-5** cable: Europe to Asia with a main landing in Catania, Sicily

EUROPE TO WEST AFRICA & SOUTH AMERICA

- **SAT-3** (Europe, West Africa), **ATLANTIS-2** (Europe, West Africa, South America)

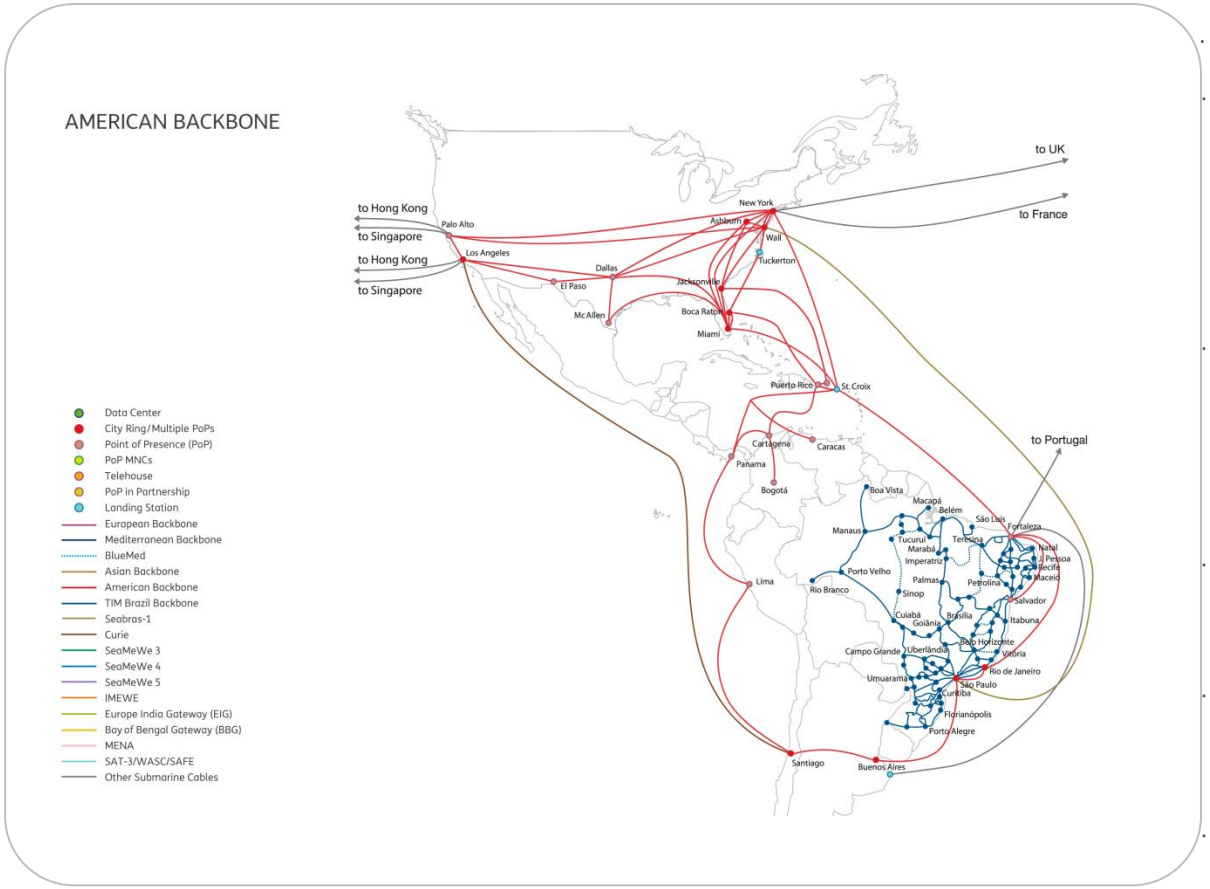
Reinforcing Leadership in the EU-Asia Corridor: SeaMeWe-5



- Total length of **20,000 km**
- 20,000 km of **Core System with 3 fiber pairs**, 4 fiber pairs in the Mediterranean
- Design capacity of 80 waves **at 100 Gb/s per fiber pair**

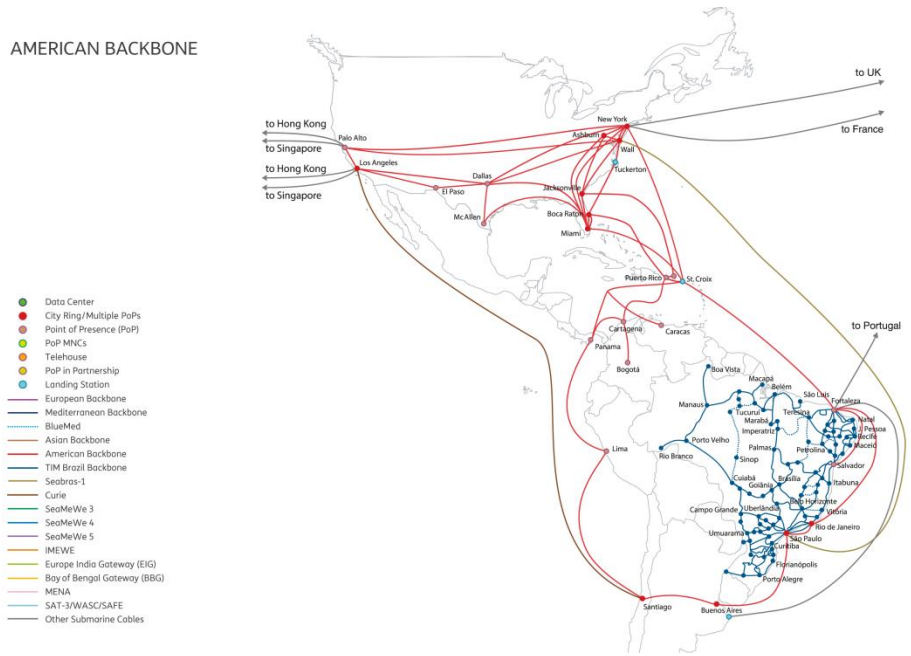
- **Sparkle is among initial investors for the implementation of the new submarine cable system connecting Europe to Singapore**. Participated by 19 global players, **SeaMeWe-5 connects Europe to Asia with main landing in Palermo and Catania, Sicily.**
- **The new cable system reaches 17 countries:** Singapore, Malaysia, Indonesia, Myanmar, Bangladesh, Sri Lanka, Pakistan, Qatar, Oman, UAE, Yemen, Djibouti, Saudi Arabia, Egypt, Turkey, France and Italy
- Devised with the latest **100Gbps technology**, SeaMeWe-5 is a multiregional superhighway that provides lowest latency and **represents an additional network layer of diversity and resilience for the heavily loaded Asia to Europe route**
- Sparkle has been awarded both **Network Administrator (NA)** and **Network Operation Center (NOC)** responsibilities for SeaMeWe-5. Both activities are performed in **Sparkle's Core Landing Station in Catania**, which is also a **main landing point in Europe for SeaMeWe-5** as well as for other major international cable systems
- With the participation to SeaMeWe-5 **Sparkle enhances its customer proposition with a diversified and low latency route to and from Asia**, thus **further strengthening Sparkle's role as major cable landing hub in Europe and the Mediterranean**

Focus on Key Regional Backbones: Americas



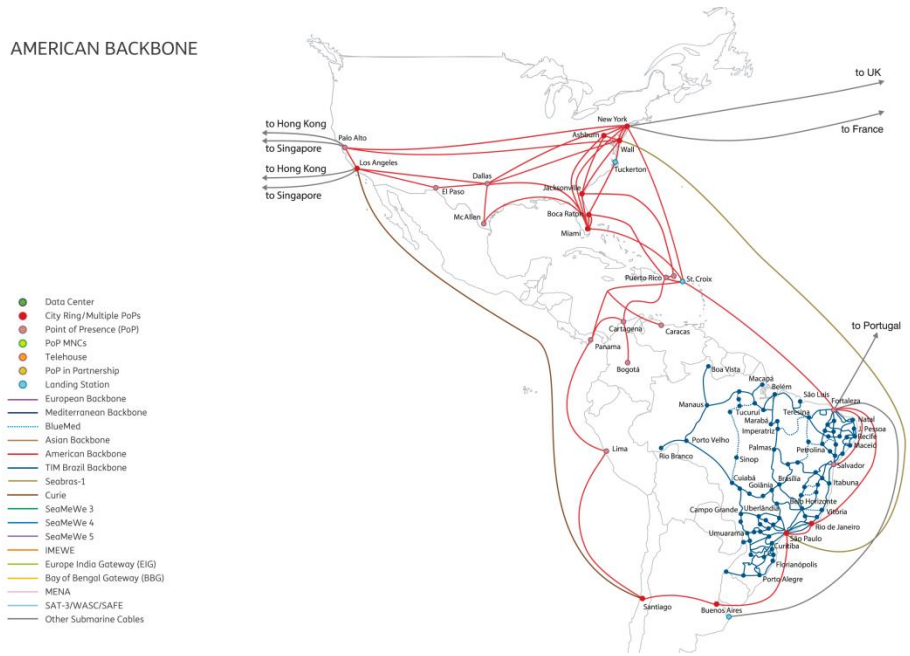
- Full IP network in the Americas
- **New Seabras-1 cable connecting New York and Sao Paulo and new Fiber Pair on Google's Curie Submarine Cable to directly connect Chile to US**
- **State-of-the-art proprietary fiber optic backbone in 8 countries**: US, Argentina, Brazil, Chile, Colombia, Panama, Peru, Venezuela
- New proprietary redundant backbone links from North to South America
- **TIM Brazil Backbone fully integrated with Sparkle's global network**
- Capacity across the Atlantic and the Pacific

Reinforcing Leadership in the Americas through Seabras-1….



- **First cable to connect Sao Paulo to New York**
- **Based on six fiber pairs and with initial design capacity of 72 Terabytes**
- **Sparkle owns 3 out of the 6 pairs**
- **Investment in a Branch Unit in Fortaleza, Brazil, and a protected backhaul between New York and Miami**
- **Full network resiliency with top service quality**
- With Seabras-1 Sparkle supports the fast growing demand of capacity originating in South America, especially Brazil, along the South to North America route, one of the most relevant IP traffic streams globally which records yearly growth rates of over 35% and contributes over 30% of the global market value
- With the backhaul extensions from cable landing points to main PoPs in New York and Sao Paulo, Sparkle provides easy onward connectivity to rest of world

....and Curie Submarine Cable



- Sparkle Adds a **new fiber pair on Curie submarine cable system connecting Chile to US**
- The Google-owned subsea cable Curie is the **first direct new generation US-Chile cable connecting Los Angeles to Valparaiso**
- Sparkle's new fiber pair on Curie will be **fully integrated with Sparkle's global backbone, increasing redundancy and offering a fourth diversified route** to directly connect South and North America
- Thanks to these newest highways, Curie in the Pacific and Seabras-1 in the Atlantic, Sparkle offers **the best performance in terms of latency and robustness** through its pillar connectivity service City2City and its global Tier-1 IP transit service Seabone
- With this latest investment Sparkle is even more able to cater to the huge data demand driven by new technologies, media platforms and cloud-based services, requiring omnipresent internet connectivity

Our Plan: Assets and Priorities

3 Core Asset defining our competitive advantage

CUSTOMERS | **INFRASTRUCTURES** | **PEOPLE**

3 major priorities to be put in place to act upon

1. **Reposition the Core Business** igniting Customer Experience to go back to sustainable growth
2. **Develop Sustainable Digital smart infrastructures** and capillary new PoPs
3. **Develop People engagement** creating and spreading a culture of Execution and Innovation

Global Satiro Training Program

- With a history of experience and know-how in a multitude of markets, Sparkle launched **Global Satiro Training Program that provide the key competencies required to recognize, strategize and respond quickly and successfully to the ever-changing environment of the international telecommunications market** , through a comprehensive range of learning and networking opportunity
- **Global Satiro consists of two unique and far reaching in-class programs in collaboration with the TIM Group's HR Service**. The program offers the knowledge required for an in-depth comprehension of the international telecoms market and of its dynamics, as well as all the skills to maximize the value of technology and optimize its overall contribution to the business
- **The program features two different in-class training sessions** to choose from, depending on the participant's area of interest, whether it be technical or commercial:
  - **Technical Courses** focus on advanced fixed and mobile Network Technologies, Services and New Applications
  - **Commercial Courses** focus on Business and Marketing Management of TLC Services

Global Partner

GP is a new line of business that offers structured capabilities to share TIM Group's key assets and competences with partners worldwide. Unlike traditional consulting firms, GP offers its extensive «hands on» know-how directly through highly skilled line managers and experts

PEOPLE	Extensive **market, business and technical expertise**, with **multi-cultural approach**
PROCESSES	**Solid business processes throughout the value chain**, constantly updated with best practices
PLATFORMS	**In-house development & customization capabilities**, leading to **cost effectiveness**
PORTFOLIO	**Wide portfolio** covering all customer segments

Our ICT line managers and experts:

- **adopt a highly pragmatic approach, based on field experience**
- **are focused on delivering quick results allowing partners to resume work promptly**
- **deeply understand our partners' needs and speak their same "language"**

Best option for explored topics

Benefits

- **Revenue increase**
- **Lower time-to-market**
- **Improved efficiency**
- **Better quality of service**
- **Innovation**

Sparkle Winner at the Global Carrier Awards 2019

Sparkle wins the **Best European Project** and **Best Social Media Campaign** prizes at the Global Carrier Awards. The awards follow the recognitions achieved by Sparkle **in 2016, 2015 and 2013** for **Best Marketing Campaign** and in **2014** for **Best OTT Partnership** and **Best Latin American project**



The **Best European Project** award recognizes Sparkle's top-notch offer providing disaster recovery as-a-service (DRaaS) out of its data center in Catania, Sicily, in collaboration with Nutanix, world leader in enterprise cloud computing



The **Best Social Media Campaign** award acknowledges the effectiveness of the company's digital corporate identity deployment and its renewed digital communication strategy resulting in a remarkable increase of the follower base and engagement rate

Sparkle Winner at the InfoCom World Conference 2019

- Sparkle received the **“Cloud Service of the Year” award at the InfoCom World Conference**, the largest event for Telecom, IT and Media players in South East Europe
- The win follows the awards received by InfoCom **in 2018 as Data Center of the Year and in 2017 as Best Cloud Service Provider** as well as the prizes **"Data Center of the Year" received at the Cloud and Green Awards in 2014 and 2013**, recognizing Sparkle’s leadership in the Cloud and Data Center business
- Sparkle operates in Greece through **three proprietary data centers** - two in the Athens area (Metamorphosis and Koropi) and one in Crete – providing a **full range of integrated ICT solutions**
- Sparkle plans to expand its Cloud and Data Center business in Greece building new facilities and implementing the latest technology infrastructure: we are investing on the construction of a **fourth data center in the area of Metamorphosis in Attica**. The new building will offer 5500 sq. m. of colocation space and features the **latest energy efficient technologies** to provide customers with the most **secure, sustainable and state-of-the-art technological environment** for their mission-critical IT systems

Sparkle Winner at the Proof of Concept Showcases at MEF 2019

- **Sparkle has been awarded with MEF PoC Award for the Service Assurance Implementation project "Dynamic Connectivity and Commerce Enabled by MEF 3.0 and Blockchain" at MEF19**
- This win follow the recognitions achieved in the past years and confirm Sparkle's commitment and excellence in deploying forward-looking technologies and contributing to the definition of industry standards
- **Sparkle won "Best MEF 3.0 Implementation Project 2018" and "Silver Proof of Concept" at MEF18**
- **The awards recognized Sparkle's ability to implement platforms for the automation and network programming, for the services orchestration and the commercial iterations management, using blockchain technology**
- **Best MEF 3.0 Implementation project 2018** awarded the longstanding project on **"Fulfilment and Activation of an Intercontinental MEF 3.0 Service Spanning Four Operators"** developed by Sparkle together with Amartus, ECI Telecom, Equinix, Liquid Telecom, Spirent, and Tata Communications with the objective to implement LSO (Lifecycle Service Orchestration) architecture and LSO APIs across multiple domains, testing processes and automation and virtualization platforms, for automated MEF 3.0 services in an intercontinental network context
- **The Silver PoC Award** has been assigned to Sparkle, as well as to service providers CBCcom, PCCW Global, Tata Communications and technology vendors Clear Blockchain Technologies and Cataworx, for the Proof of Concept on **"MEF 3.0 LSO Federated Inter-carrier Data-on-demand Services through Automated Discovery and Blockchain Settlement"** that showcased how telcos can introduce next-generation services in record speed, thanks to innovations in blockchain technology, artificial intelligence and intent-based customer interfaces

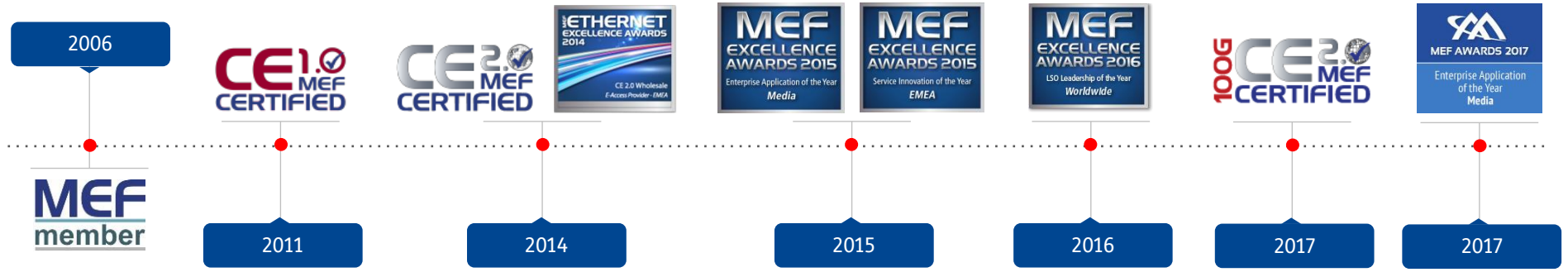




Sparkle Winner at the MEF Excellence Award 2017

Sparkle awarded with Best Enterprise Application of the year for Media

- The award recognizes the innovation of a new proposition developed in partnership with Aldea Solutions that provides **high performance end-to-end permanent and occasional video services to Broadcasters, Content Providers and Final Diffusion Networks ensuring top performance and global coverage**
- **In 2016 Sparkle** won the **LSO leadership Worldwide awards.** The award recognized the leading role of Sparkle in adopting MEF's concept of Lifecycle Service Orchestration (LSO) and implementing a **new architecture** that enables customers with an end-to-end management of the connectivity solutions purchased
- The first two innovative digital solutions introduced, **Data Center Interconnect** and **Secure Cloud Interconnect**, provide customers looking for more scalable bandwidth, capacity and intelligence, with the ability to distribute more efficiently the volume of traffic and transactional data among their own data centers and/or Cloud Provider premises
- These award follow the recognition as **Best Service Innovation-EMEA** and **Best Enterprise Application-Media** in 2015 and the recognition as **Best CE 2.0 Wholesale E-Access Provider EMEA of the year** and the **Carrier Ethernet CE 2.0** Certification obtained in 2014 by Sparkle and Telecom Italia Group, the first Service Providers in Europe to achieve this Certification
- As further recognition of Sparkle's commitment in providing customers with best performing advanced connectivity solutions, in January 2017, Sparkle has obtained the **MEF 100G Carrier Ethernet 2.0 Certification For E-Line (EPL & EVPL) Services.** It is the first Service Providers in Europe to achieve this certification and the first worldwide Service Providers to become MEF 100G CE 2.0 certified for E-Line Services on a submarine cable system



Sparkle Winner at the Global Wholesale Excellence Voice Award 2017



Sparkle wins the Global Wholesale Excellence Voice Award at PTC 2017

- Sparkle has been awarded the **Global Wholesale Service Provider Excellence award for Voice Value in the Midsized category**. Sparkle received the important recognition from industry research and analysis firm Atlantic-ACM as a result of their Global Wholesale Report Card market research
- Sparkle has obtained the highest voice value score calculated by combining respondents' **Quality and Price Competitiveness** perceptions and considering international Wholesale Voice Services such as guaranteed **quality Voice Termination, best efforts Voice Termination, Global Mobile Interconnection and IPX Services**
- The awards follow the recognitions achieved by Sparkle in **2014 and 2013 as Best in Class in the Large Global Wholesale Service Provider category** and the **highest Global Wholesale Customer Experience touch points average among major carriers in 2010**
- The ATLANTIC-ACM Global Wholesale Report Card is an independent, market-wide customer survey study of leading global wholesale providers. Nearly 400 respondents supplied around 1,400 individual carrier ratings, grading global wholesale service providers in categories that include numerous quality and price competitiveness categories for voice and data services in addition to provisioning, network performance, billing, customer service among others

Thank You

SPARKLE