





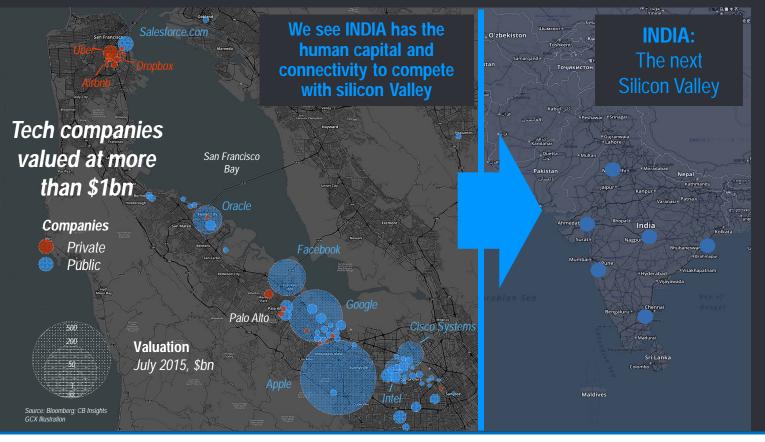
"We're going to use our cables to shift the digital universe from Silicon Valley to Central India over the next decade"

Wilfred Kwan
Chief Operating Officer
RCOM & GCX





The outsourcing and driving of Clouds will nestle itself in India over the next decade in a similar way as software development, call centers and BPOs did in the last decade...



- PCs in the 1990s: 90% of the PC/microcomputer manufacturing was moved to Asia
- Software
 Development: Moved to India in the late
 1990s
- Customer Support was almost 80% moved to India for Fortune 500 companies between 2002 and 2010
- Cloud Application
 Development has started to move to low cost production centers







As in 2000 when infrastructure was at the center of the ecosystem, Data Centers and fiber are again emerging as the key building blocks

Cloud Space

facebook.





- 4 billion people will use it by 2020
- 15 to 20 trillion devices will connect to it
- It will consume more power than Western Europe in a year by 2020
- All video media will ride through at speeds over 1 gig
- The Telecom/Computer industry will be once again fused as we are seeing with high valuations of Zayo,
 Level-3 and Cogent









AGENDA

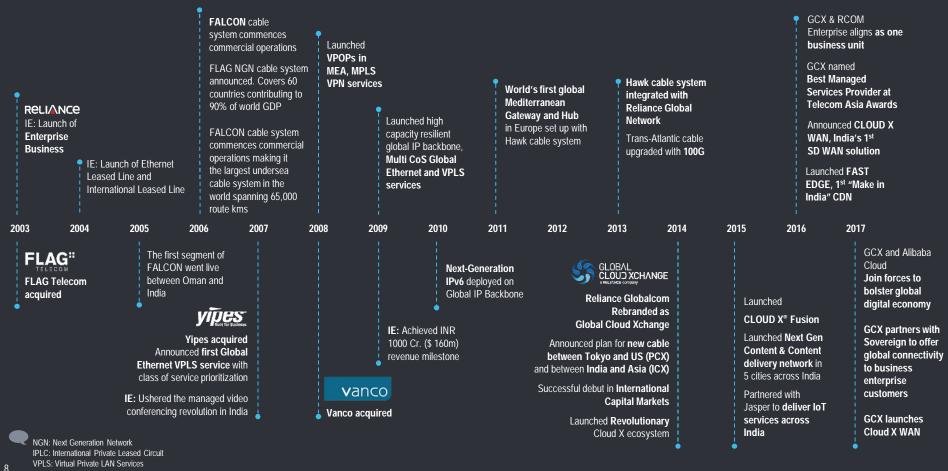
- Market Overview
- Our History and Our Strategy
- Key Market Drivers
- Introducing Eagle
- Cable Specs
- Timeline
- Q&As







We have a solid heritage to build upon going forward







We are the largest owner of submarine cables on the planet and dominate the "Emerging Markets Corridor"



System	Number of cities connected	Length (rkm)
FEA	16	28,012
FA-1	4	14,491
FNAL	4	9,504
FALCON	19	12,357
HAWK	3	4,334
Total	46	68,698

Cable & Terrestrial Coverage



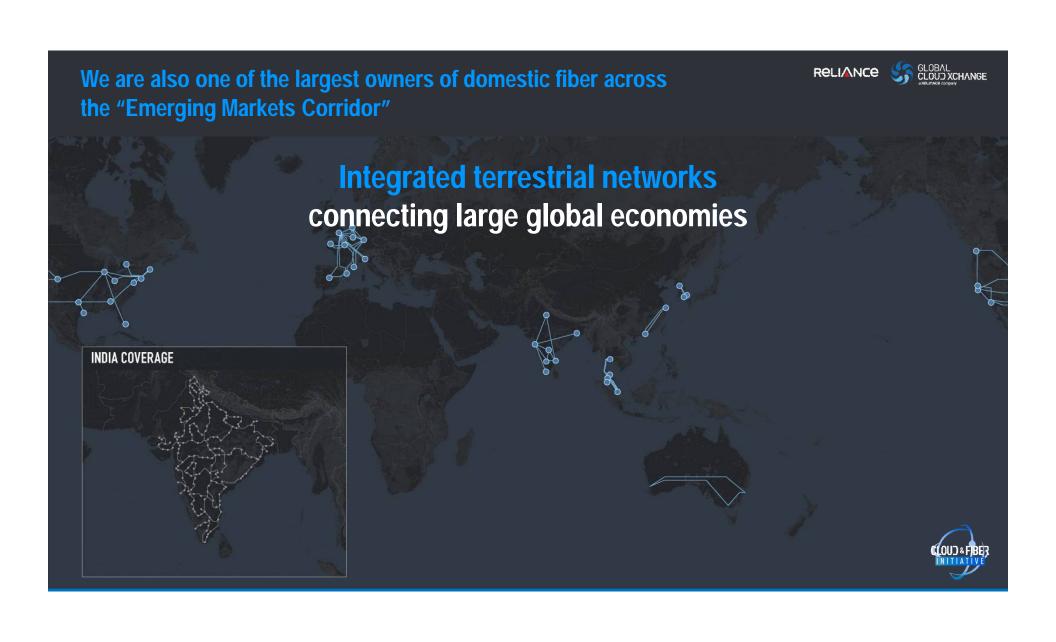
















...and have a significant footprint in the building blocks of the Cloud in India

Highly resilient, scalable, and selfhealing global network with built-in transport and equipment level diversity for improved performance and extended reach

N x 10 Gbps Links

Data Center

N x 40 Gbps / M x 10 Gbps links



- 66,928 route kms of intercity fiber backbone, connecting over 50 cities
 - 23.344 kms of fiber network in the access or last mile in top 44 cities
- Large spread in India serving c.900 of top 1000 enterprises
- Nationwide IP backbone
- Large MPLS enabled Core Data Network
- 9 major data centers with 650,000 square feet of floor space in India
 - Hosting and Cloud-based services
- Backbone, metro and building access ring architecture
 - Highly resilient ring & mesh design
- Direct access implemented to business premises
 - 1.1+ million buildings
 - 70%+ coverage of Indian subscriber base





We are building a technology company sitting at the crossroads of where the future "CLOUDS" will migrate



Global Fiber Network

- The Emerging Market's largest and highest capacity subsea cable system and domestic fiber systems. Capacity: FNAL, FAE, Falcon, Hawk have over 55TB of usable capacity.
- 49,000 Kilometers of domestic Indian fiber and 43,000 towers
- Significant barriers to entry with replacement value of ~\$7.9B;
- Total cable ownership of 155,420km;
- Customers to include Carriers, Enterprise and New Media

Emerging Markets Corridor Presence

- 9 World Class Data centers and 79 smaller micro centers and over 1500 points of presence. Well established data center footprint in 45 countries with 70% of assets in the emerging markets;
- Key markets will include Mumbai, Hong Kong, Shanghai, Bangalore, Tianjin, Kuala Lumpur, Bangkok, San Jose, Dubai. Oman and others:
- Customers from New Media, Carriers and Enterprise Space

New Product Delivery Networks

- Full suite of world-class Cloud services with rollout of 30 nodes in 16 countries in progress;
- Target markets include Enterprises and New Media companies;
- Voice and data interconnections give the company one of the fastest paths to enablement.
- Portal based infrastructure will be first Enterprise-class cloud switching structure that requires zero human intervention.









Market Driver #1: The Rise of the Clouds

Global Cloud Services Spending growing significantly



This year, we will have 4.9 billion connected things....some predict that by 2020, the number of Internet-connected things will reach or even exceed 50 billion.



In 2015, over 1.4 billion smart phones will be shipped and by 2020 we will have a staggering 6.1 billion smartphone users.



By 2020, a quarter of a billion vehicles will be connected to the Internet, giving us completely new possibilities for in-vehicle services and automated driving.



Today, the market for Radio Frequency Identification (RFID) tags, used for transmitting data to identify and track objects, is worth \$11.1 billion. This is predicted to rise to \$21.9 billion in 2020.



Machine-to-machine (M2M) connections will grow from 5 billion at the beginning of this year to 27 billion by 2024, with China taking a 21% share and the U.S. 20%.



CISCO believes the IoT could generate \$4.6 trillion over the next ten years for the public sector, and \$14.4 trillion for the private sector.







Market Driver #1: The Rise of the Clouds

Cloud is no longer just a way to create cheap enterprise computing – it is revolutionizing how people use data!

Evolution

Data Bottleneck

FIRST WAVE

Constrained Data...
Monolithic Systems, Expensive Storage,
Data for Targeted Use Cases

BUSINESS INTELLIGENCE (BI)

Business Objects, Cognos, Micro Strategy

DATA INTEGRATION Informatica

DATA INTEGRITYMicrosoft, Oracle

Age of Oracle, Sybase

SECOND WAVE

Data Explosion / Chaos...
Decentralized Systems,
Cheap Storage, Big Data Everywhere

VISUALIZATION

CLOUD BI

CACHING

PREP / WRANGLING

ETL

Revolution

Data Integrated

into Everything

INFRASTRUCTURE-CENTRIC SECURITY & MANAGEMENT Palo Alto Networks, FireEye

Age of Big Data Hadoop, Teradata, Netezza, NetApp, EMC, Greenplum

THIRD WAVE

Mass Data Intelligence...
Pervasive Systems, Big/Fast Storage,
Data Instruments the Business

DEPARTMENTAL APPLICATIONS

Gainsight, Datadog, InsideSales

ORGANIZATION-WIDE ANALYTICS PLATFORMS

Looker, Domo, Anaplan

DATA-CENTRIC SECURITY & MANAGEMENT

Ionic Security, Tanium

Age of Big/Fast Redshift, BigQuery, Spark, Presto





Security

Infrastructure



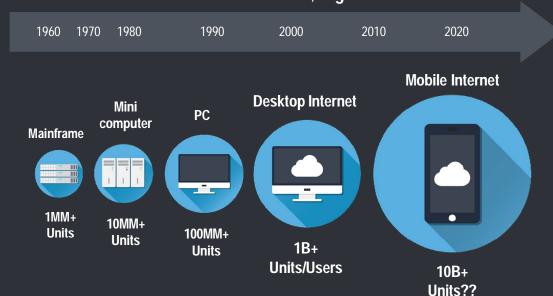


Market Driver #2: There will be "new" New Media Companies

The rising tide of next generation tech companies will continue to drive growth in foreseeable future

Each New Computing Cycle = 10x > Installed Base than Previous Cycle

Devices or users in millions; logarithmic scale



More than just Phones...

Smartphones
Feature Phones
Tablets
eReaders
MP3 Players
In-dash Car Electronics
Cameras
Portable Consoles
Home Entertainment
Appliances

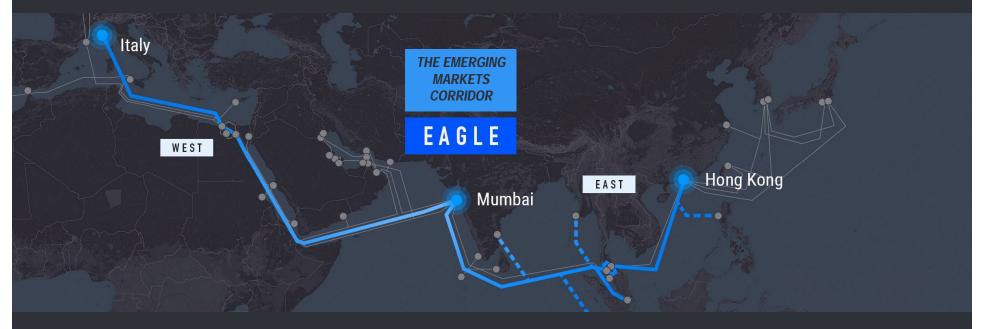






Market Driver #3: The Emerging Markets Corridor

At the Heart of where Enterprises and OTTs will focus in the next decade



The Emerging Market corridor connects over 2.0bn internet subscribers currently and is expected to account for over 70% of the world's smart phone growth and over 80% of the world's GDP growth over the next 5 years



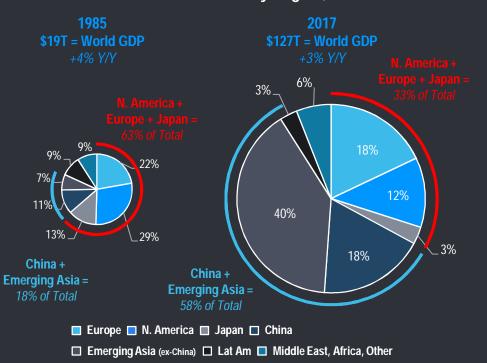




Market Driver #3: The Emerging Market Corridor

The Emerging Markets will dominate GDP and Internet growth in the next decade...

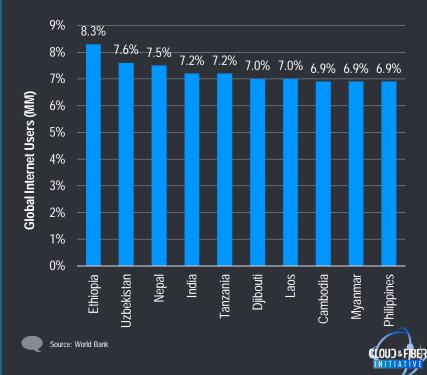
Real GDP Growth Contribution by Region, 1985 / 2017





The world's fastest growing economies

Forecast GDP growth, 2017



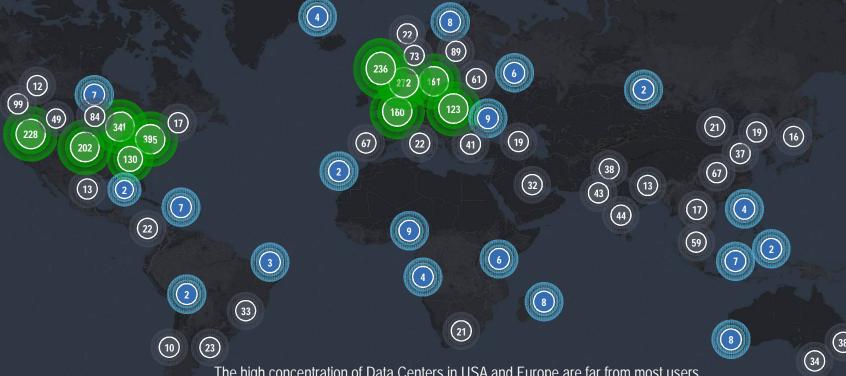




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Market Driver #4: Infrastructure and Bandwidth Demands

Challenges are compounded by the fact that that new technologies are needed in Emerging Markets where infrastructure is limited...



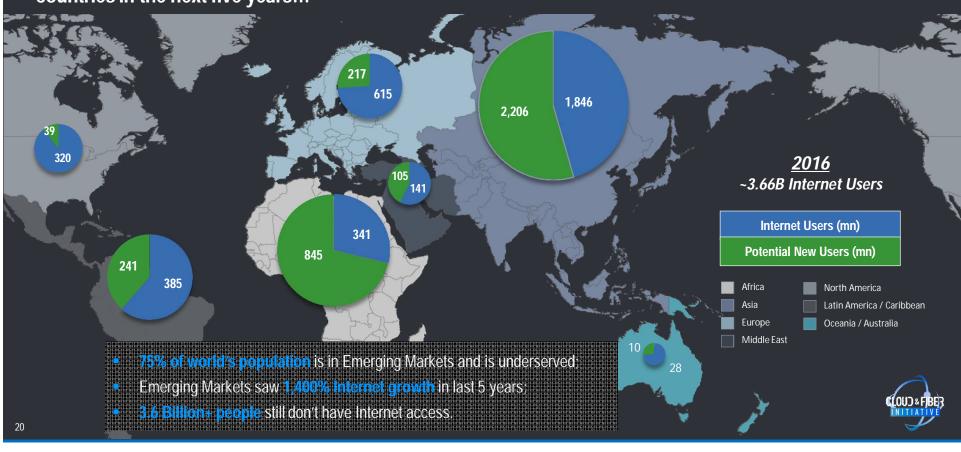
The high concentration of Data Centers in USA and Europe are far from most users in the Emerging Markets. Regulatory compliance, user experience, reliability and cost factors will mandate significant movement of data closer to users.

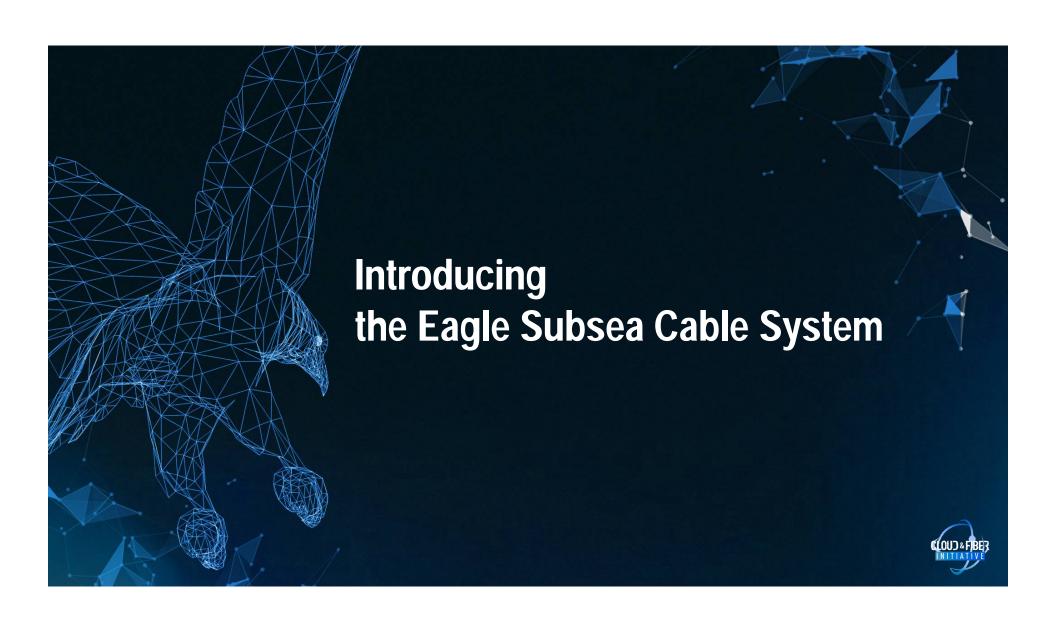




Market Driver #4: Infrastructure and Bandwidth Demands

Demand should continue as most new Internet users will be in India or its neighboring countries in the next five years...



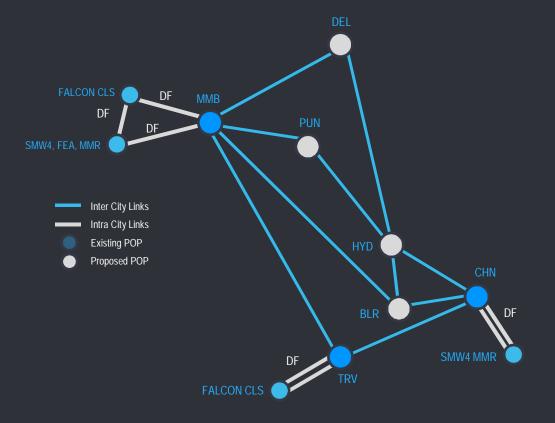








Eagle will connect into our Domestic India Network to deliver diverse connectivity to all major hubs and GCX Submarine CLS and PoPs



Route -1	Mumbai-Bangaluru	
	Bangaluru - Chennai	
Route-2	Mumbai-Pune	
	Pune-Hyderabad	
	Hyderabad- Chennai	
Route-3	Hyderabad-Bangalore	
Route-4	Mumbai-Trivandrum	
Route-5	Chennai-Trivandrum	
Route-6	Mumbai- Delhi	
Route-7	Delhi - Hyderabad	



