





162 Colo Data Centers



DE CIX



19 Internet Exchange Point

*Data Source: https://www.datacentermap.com/india



Influencing Factor





Influencing Factor – Investments



Influencing Factor – Policy



Budget 20222-23 by Honourable of Finance Minister of India Mrs. Nirmala Sitharaman on Feberuary'2022

Data is the new oil—and it is true that analytics, fintech, and internet of things (IoT) are changing the way we deal with our lives



UP CM Yogi Adityanath inaugurates North India's first hyperscale data centre Yotta D1 in Greater Noida

UP Policy Leading to greater Ease of Doing Business

- Capital Subsidy
- Interest Subsidy
- Land Subsidy
- Stamp duty
- Electricity duty
- Dual power grid
- Transmission & Wheeling



Key Findings

- Over the period of 2019–2025, cumulative investments of \$1.3 trillion are anticipated.
- IT infrastructure accounts for 77% of total datacenter investments; the remaining sum is invested in electrical and mechanical infrastructure and general construction.

• Over the period 2019-2025, a total investment of \$28 billion is expected.

• India is expected to grow at a CAGR of 5% between 2019 and 2025, which is twice as fast as the global average.

India's Competitive Advantage

India Datacentre Market

- 1. The majority of investments are concentrated in Tier IV datacenters.
- 2. Cost advantage in operations and development
- 3. Engineering skill availability
- 4. Increased utilization of existing outsourced datacenter capacity
- 5. Service providers have accelerated planned expansions.

 Mumbai, Chennai, Bengaluru, Hyderabad, and Delhi (NCR) because they have good fiber connectivity, are close to customers, have a skilled workforce, and have submarine cable connectivity.

Locations and ection

Major Datacenter Site Sele

- Geographic location, power, fiber connectivity, and general construction & operations remain the primary selection criteria for establishing a datacenter.
- India is clearly looking at sustainability in Data Center construction and operation, including the use of renewable resources, a level playing field for all players, deemed regulatory approvals, and the digitization of RFPs.

<u>Global</u> Datacentre Market

DE CIX

Challenges of Enterprise Customers



To Increase the Performance and Strengthen the Security and Resilience of their connectivity,

- a) To ensure their flexibility by Avoiding Vendor Lock-in,
- b) To **Reduce the Complexity** of their connections to partners, and
- c) To increase their **Control of Compliance** within their ecosystem of partners



New Set of 3 must-have KPIs for Data Center



Greater Geographical Coverage of Carrier and Data-Center Neutral Interconnection Infrastructure



Local Access to a greater Density and Diversity of Networks



A variety of **Scalable and Customizable Interconnection Services** to support enterprise digital transformation.



4 Steps to Increase Data Center Competitiveness

10.1

Step 1: To increase data center competitiveness: Increase Network Density

Step 2: To increase data center competitiveness: <u>Think Beyond The Cross-</u> <u>Connect</u>

Step 3: To increase data center competitiveness: <u>Offer enterprise</u> <u>Customers Flexibility</u>

Step 4: To increase Data Center Competitiveness: <u>Close the Skills Gap</u>

DE-CIX Corporate Presentation

Digital Applications and Content closer to People and Business



Solving Interconnection challenges and needs of Enterprises – Controllability of their Infrastructure and Data flows

Conventional enterprise approach*: many to many





(*): Corporations create an MPLS network, use an IP upstream provider, and have a (multi-) cloud strategy

Solving Interconnection challenges and needs of Enterprises – Controllability of their Infrastructure and Data flows

Multi-services interconnection fabric (DE-CIX approach)





DE-CIX Interconnected Networks - Data Traffic





DE-CIX catalyst, regardless of Data Center size, we become more significant in "Edge Data Center"



SIZE from 1 rack upwards, incl. cooling, network technology, etc. ≈ 1 shipping container

> POWER ±100 kW

TASK Processing of IoT data close to the source

Micro

Data Center



SIZE ±500 m² ≈ 1 cottage + garden or 1 basketball court

21 MW

TASK Company-owned data center for critical data, production data, etc.

> Small Data Center



SIZE ±10,000 m² ≈ 1 Manhattan city block or 2 football fields

> POWER ±10 MW

TASK Provision of data center space to multiple tenants (possibly incl. Managed Services)

Medium Colocation Data Center Large Colocation Data Center

50.000 m²

≈ Windsor Castle

or 12 football fields

POWER

±50 MW

TASK

Provision of data cen-

ter space to multiple

tenants; multiple com-

panies & networks as

added value for digital

ecosystems



SIZE +100,000 m² ≈ the largest currently being built is approx. as big as Vatican City or 57 football fields

> **POWER** +100 MW

TASK Colocation; computing capacity for the major global networks (e.g. cloud providers, CDNs, social media networks). Enough capacity to be highly scalable with demand

> Hyperscaler Data Center



So, where is the data centre heading now? Well, probably in as many different directions as there are data centre concepts today.

"The Edge of the Data Center is a whole New Territory to be explored. Data Centers are being designed to Operate in Climatically Opportune, but unexpected places. DE-CIX will be there, together with our many Data Center and Connectivity Partners, providing the portal to the Next Generations of Interconnection."

Launching Soon "MAPS"

Microsoft Azure Peering Service – the fastest connection to Microsoft







DE-CIX at a glance



DE-CIX Global:

40
Exchanges3000+
Connected Networks500+
Data CentersDE-CIX India:
World's Fastest Growing Interconnection Platform
4
Exchanges580+
S00+
Data Centers

DE-CIX Mumbai:

Asia Pacific's Largest Internet Exchange Point amongst 153 Exchanges in 29 Countries. **DE-CIX Service Offering**





Our Presence

	DECIX MUMBAI		DE-CIX DELHI		DE-CIX CHENNAI		DE-CIX KOLKATA
	 Sify Rabale Web Werks DC2 Netmagic DC5 Netmgaic DC6 GPX Mumbai ST Telemedia DC Netmagic DC7 GPX Mumbai 2 Yotta NM1 		 ST Telemedia Banglasahib ST Telemedia G K1 Sify Greenfort - Noida Web Werks - Noida 		 Bharti Airtel Santhome ST Telemedia Chennai 	2	• ST Telemedia Kolkata
	Access to an additional 22 DC through a partnership with Lightstrom.						
	 IBM NIXI ESDS STT LVSB STT BKC NTT Netmagic DC2 		 Spectra Netmagic STT DC2 GK1 STT 2 VSNL CTRLS Sify IDC 		 ACT VEL ACT IYL ACT KLR Netmagic SIFY Tidel Park VSNL Anna Salai 		
67	WTT Netindgie Dez		• Nxtra		 Nextra Siruseri ACT-TNG STT Ambattur 		

Awards











Solve your Interconnection Requirements For Tomorrow, Today.

DE-CIX India offers a comprehensive interconnection solution. As a comprehensive solution for Peering, Cloud Connectivity, and Private Network Interconnects with a Single Contract and Complete Flexibility.

CONNECT with Us at



Single Access Number +91 08067788888/ / marketing@de-cix.in

Sudhir Kunder Country Director – India Mobile +91 9867591722/ Email id: sudhir@de-cix.in

