The Birth of an International Internet Hub
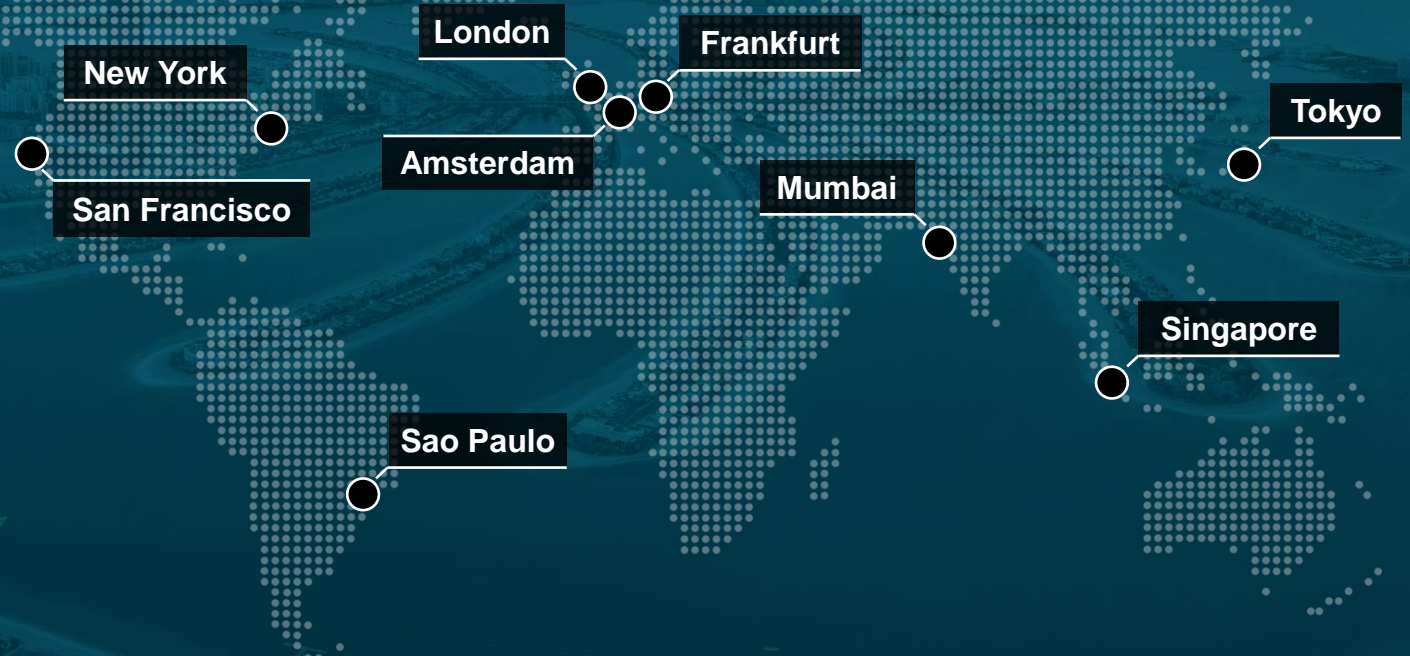
Transforming a national Internet exchange into
the heart of the largest interconnection ecosystem in the Middle East

Profile of the Leading International Internet Hubs

New York

London

Frankfurt

Tokyo

San Francisco

Amsterdam

Mumbai

Singapore

Sao Paulo

World leading Infrastructure

Home of leading global businesses & organizations

Highly attractive for people & talents

Favorable regulatory environment

Access & presence of investors & capital

UAE-IX –
An International Internet Hub?

10 YEARS
UAE·IX
powered by DE CIX

World leading Infrastructure

Home of leading global businesses & organizations

Highly attractive for people & talents

Favorable regulatory environment

Access & presence of investors & capital

BACK IN 2012?

The voice of our partners and friends

UAE-IX –
An International Internet Hub?

10 YEARS
UAE·IX
powered by DE CIX

World leading
Infrastructure

Home of
leading global
businesses
& organizations

Highly attractive for
people & talents

Favorable regulatory
environment

Access & presence
of investors
& capital

UAE-IX –
An International Internet Hub?

World leading Infrastructure

	2012	2022
DXB airport (international traffic - global)	10th	1st
Cargo shipping (global)	12th	11th
Electricity production per capita (global)	10th	8th
Fixed broadband sub./100 inhabitant (GCC)	2nd	1st
Mobile sub./ 100 inhabitants (GCC)	5th	1st
Sea cables	13	21*
Data centers	5	17
UAE-IX connected ASNs & Peak traffic (Gbps)	10 / 20	90 / 370

UAE-IX – An International Internet Hub?

World leading Infrastructure

	2012	2022
DXB airport (international traffic - global)	10th	1st
Cargo shipping (global)	12th	11th
Electricity production per capita (global)	10th	8th
Fixed broadband sub./100 inhabitant (GCC)	2nd	1st
Mobile sub./ 100 inhabitants (GCC)	5th	1st
Sea cables	13	21*
Data centers	5	17
UAE-IX connected ASNs & Peak traffic (Gbps)	10 / 20	90 / 370

UAE-IX –
An International Internet Hub?

**World leading
Infrastructure**

	2012	2022
DXB airport (international traffic - global)	10th	1st
Cargo shipping (global)	12th	11th
Electricity production per capita (global)	10th	8th
Fixed broadband sub./100 inhabitant (GCC)	2nd	1st
Mobile sub./ 100 inhabitants (GCC)	5th	1st
Sea cables	13	21*
Data centers	5	17
UAE-IX connected ASNs & Peak traffic (Gbps)	10 / 20	90 / 370

UAE-IX –
An International Internet Hub?

**Home of
leading global
businesses
& organizations**

	2012	2022
Regional HQ of global companies	18	132
Conferences focused on Internet administration held in UAE (cumulative since 2012)	-	38
Non-oil GDP at constant price (bln AED)	803k	1,087k
UAE economy within Middle East	5th	3rd

+35%

UAE-IX –
An International Internet Hub?

	2012	2022
Visa free entry to UAE (# countries)	38	75
# of international universities	5	10
# of students	140,000	1,000,000	+600%
Total R&D expenditure (% of GDP)	0,69%	1,45%	+110%

Highly attractive for people & talents

UAE-IX –
An International Internet Hub?

Favorable regulatory environment

Heritage

- Modern, agile & forward-thinking regulatory framework
- Early adopter of public & private sector engagement
- Focused on collaboration rather than enforcement
- Heavy investment in infrastructure (fiber, mobile 4G and 5G)

Today

- Strategizing incentives to attract foreign enterprises & talents
- Ongoing investment in infrastructure, early adopter of technologies
- Digital transformation – Dubai as smart city leader
- Ranked 12th globally for Knowledge, Technology & Future Readiness (IMD world competitive ranking)

UAE-IX –
An International Internet Hub?

	2012	2022
Investor community (# of investors)	65	444
Banking presence (# of banks)	55	80
Sovereign UAE Wealth Funds by total assets (# ranking in top 20)	2	5

**Access & presence
of investors
& capital**

UAE-IX – A Leading International Internet Hub!

New York

London

Frankfurt

Tokyo

San Francisco

Amsterdam

Mumbai

Dubai - Digital Pearl of the Middle East

Singapore

Sao Paulo

10 YEARS
UAE·IX
powered by DE-CIX

World leading Infrastructure ✓

Home of leading global businesses & organizations ✓

Highly attractive for people & talents ✓
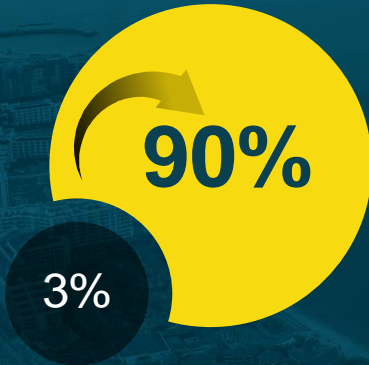
Favorable regulatory environment ✓

Access & presence of investors & capital ✓

Impact on People, Institution & Business' Life in Dubai & Beyond
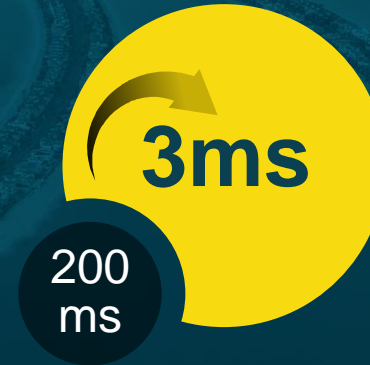
● 2012 ● 2022

90%
3%
Internet traffic routing
(% local designated remaining in UAE)

1$
70-80$
Price of International transit
(US$ / Mb / month)

3ms
200 ms
Enhanced latency for same query
(~ Round Trip Time in ms)

Digital infrastructure as an enabler & multiplier of Dubai's domestic & international growth

Impact on today's People, Institution & Business' life in Dubai & Beyond

Selection of initiatives launched by Dubai & enabled by an advanced interconnection infrastructure:

'Police without Policemen' project

Impact on today's People, Institution & Business' life in Dubai & Beyond

Selection of initiatives launched by Dubai & enabled by an advanced interconnection infrastructure:

Dubai Water & Electricity Authority's Digital project

world's first automated renewable energy digital utility powered by AI

'Police without Policemen' project

Impact on today's People, Institution & Business' life in Dubai & Beyond

Selection of initiatives launched by Dubai & enabled by an advanced interconnection infrastructure:

Dubai Water & Electricity Authority's Digital project

world's first automated renewable energy digital utility powered by AI

'Police without Policemen' project

Dubai Health Authority's Genome project

a genomic database of the citizens & residents to provide personalized medicine

Impact on today's People, Institution & Business' life in Dubai & Beyond

Selection of initiatives launched by Dubai & enabled by an advanced interconnection infrastructure:

Dubai Water & Electricity Authority's Digital project

world's first automated renewable energy digital utility powered by AI

'Police without Policemen' project

Dubai Health Authority's Genome project

a genomic database of the citizens & residents to provide personalized medicine

Smart Dubai Global Network

Connects smart cities over the world and shares Dubai's knowledge and expertise in digital transformation

Impact on today's People, Institution & Business' life in Dubai & Beyond

Selection of initiatives launched by Dubai & enabled by an advanced interconnection infrastructure:

Dubai Airport Free Zone Authority's Digital Intelligence Plan 2018-2020

Dubai Water & Electricity Authority's Digital project

world's first automated renewable energy digital utility powered by AI

Smart Dubai Global Network

Connects smart cities over the world and shares Dubai's knowledge and expertise in digital transformation

'Police without Policemen' project

Dubai Health Authority's Genome project

a genomic database of the citizens & residents to provide personalized medicine

Impact on today's People, Institution & Business' life in Dubai & Beyond

Selection of initiatives launched by Dubai & enabled by an advanced interconnection infrastructure:

Dubai IoT Strategy and UAE Strategy for Artificial Intelligence

UAE Centennial 2071 project

Dubai Water & Electricity Authority's Digital project

world's first automated renewable energy digital utility powered by AI

Smart Dubai Global Network

Connects smart cities over the world and shares Dubai's knowledge and expertise in digital transformation

'Police without Policemen' project

Dubai Health Authority's Genome project

a genomic database of the citizens & residents to provide personalized medicine

Dubai Airport Free Zone Authority's Digital Intelligence Plan 2018-2020

Impact on today's People, Institution & Business' life in Dubai & Beyond

Selection of initiatives launched by Dubai & enabled by an advanced interconnection infrastructure:

Dubai Water & Electricity Authority's Digital project

world's first automated renewable energy digital utility powered by AI

'Police without Policemen' project

Dubai Health Authority's Genome project

a genomic database of the citizens & residents to provide personalized medicine

Smart Dubai Global Network

Connects smart cities over the world and shares Dubai's knowledge and expertise in digital transformation

Dubai Airport Free Zone Authority's Digital Intelligence Plan 2018-2020

Dubai IoT Strategy and UAE Strategy for Artificial Intelligence

UAE Centennial 2071 project

TODAY?

The voice of our partners and friends

Key Learnings from 10 Years of UAE-IX – Building and developing an International Internet Hub

Fundaments

World leading Infrastructure ✓

Home of leading global businesses & organizations ✓

Highly attractive for people & talents ✓

Favorable regulatory environment ✓

Access & presence of investors & capital ✓

How to

Money | Brains | Community
secure, stable, sustainable, open, diversity/equity/inclusion

Impact

Enable | Amplify | Improve
attractiveness, offering, competitiveness, performance, resilience, sovereignty, user experience

FUTURE?

FUTURE?

More open, accessible, controllable & flexible interconnection services for new target groups

Neutral & distributed

Self-service & Inter-connection-as-a-Service

Shared & mutual knowledge

Union of Internet Exchanges initiative

FUTURE?

FUTURE?

New services & business models integrating multiple technologies, all running at the speed of human perception

Edge – IoT / 5G / AI

Cloud

LEO Satellite

Augmented & Virtual Reality

Metaverse

FUTURE?

New services & business models integrating multiple technologies, all running at the speed of human perception

Edge – IoT / 5G / AI

Cloud

LEO Satellite

Augmented & Virtual Reality

Metaverse

20ms

FUTURE?

New services & business models integrating multiple technologies, all running at the speed of human perception

Edge – IoT / 5G / AI

Cloud

LEO Satellite

Augmented & Virtual Reality

Metaverse

20ms

13ms

FUTURE?

New services & business models integrating multiple technologies, all running at the speed of human perception

Edge – IoT / 5G / AI

Cloud

LEO Satellite

Augmented & Virtual Reality

Metaverse

20ms

13ms

0,5ms

FUTURE?

New services & business models integrating multiple technologies, all running at the speed of human perception
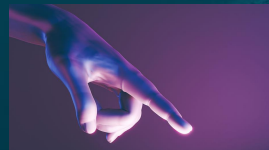

Edge – IoT / 5G / AI

Cloud

LEO Satellite

Augmented & Virtual Reality

Metaverse

FUTURE?

New services &
business models
integrating multiple
technologies, all
running at the speed
of human perception

Edge – IoT / 5G / AI	Cloud	LEO Satellite	Augmented & Virtual Reality	Metaverse
20ms	13ms	0,5ms		

BREAKING NEWS

DE-CIX now in the Metaverse

10 YEARS
2012-2022

THANK YOU