



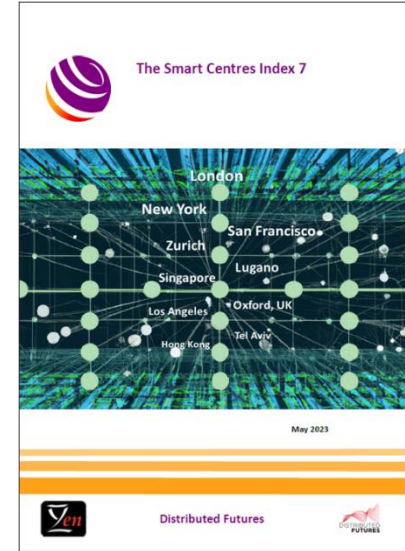
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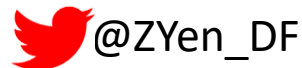
*"Zest for Enlightenment"*

# SMART CENTRES INDEX 7 GLOBAL LAUNCH

25 May 2023



**Z/Yen Group Limited**  
Risk/Reward Managers  
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tel: +44 (20) 7562-9562  
[www.zyen.com](http://www.zyen.com)





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# Welcome & Introduction



Ian Harris  
Director  
Z/Yen Group





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# Programme



09:00	Welcome & Introduction <i>Ian Harris, Director, Z/Yen Group</i>
09:05	Promoting Technology In Astana <i>Bekzhan Mutanov, Director Of The Tech Hub, AIFC Authority</i>
09:15	Smart Centres Index 7 Results <i>Mike Wardle, Chief Executive Officer &amp; Head Of Indices, Z/Yen Group</i>
09:30	Observations, <i>Ian Harris, Director, Z/Yen Group</i>
09:35	Questions, Comments & Answers
09:45	Close



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# Promoting Technology In Astana



Bekzhan Mutanov  
Director Of The Tech Hub  
AIFC Authority





 **Tech**

# AIFC is a regional competence centre on Fintech



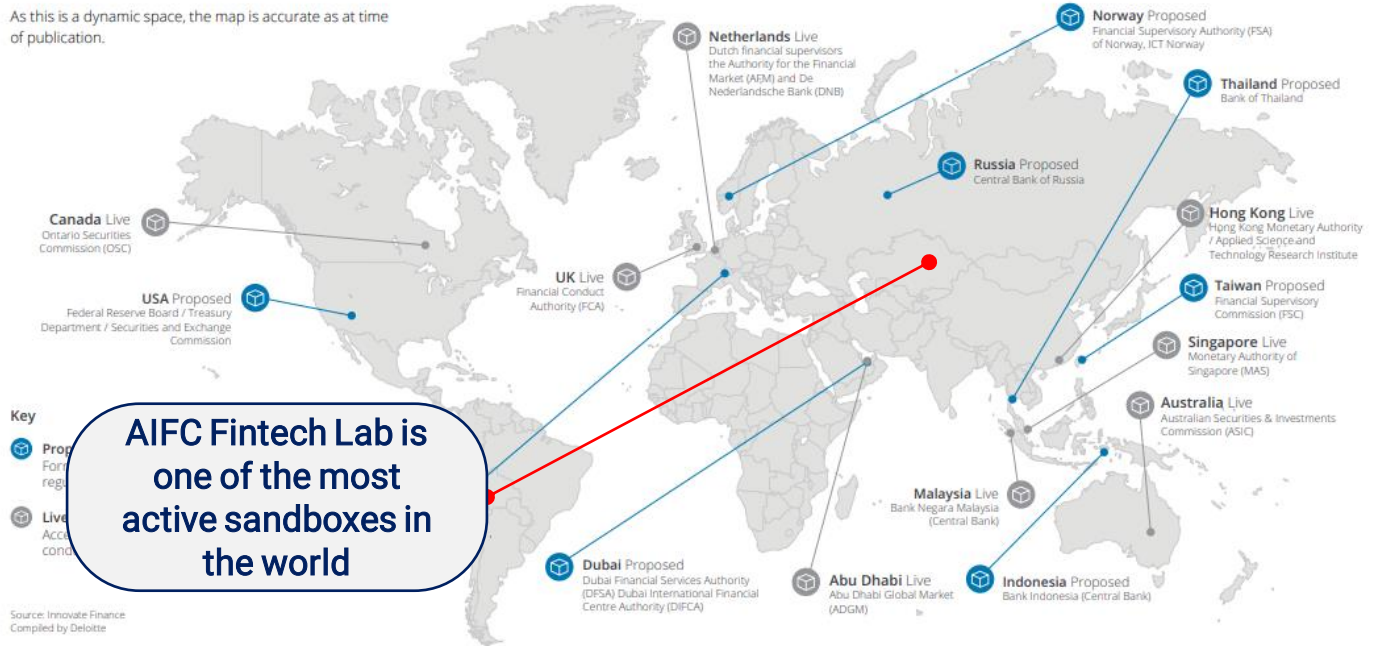
# Fintech Lab (a.k.a Sandbox)

The FinTech Lab is a dedicated productive environment where firms can offer innovative financial and regulatory technology (RegTech) services without being immediately subject to a full set of regulatory requirements. AFSA is one of the founding members of Global Financial Innovation Network (GFIN)



The map below shows all live and proposed regulatory sandboxes (and similar regulatory initiatives). Proposed sandboxes are ones on which a formal statement has been made by a regulatory or government body. Live sandboxes are ones which have already begun accepting applications or conducting trials.

As this is a dynamic space, the map is accurate as at time of publication.



**AIFC Fintech Lab is one of the most active sandboxes in the world**

Source: Innovate Finance  
Compiled by Deloitte



# Affiliated Centre for 4IR (C4IR)

In accordance with the Agreement between the Government of the Republic of Kazakhstan and the World Economic Forum (hereinafter referred to as the WEF) regarding accession and cooperation between the Center for the Fourth Industrial Revolution in Kazakhstan and the World Economic Forum.



The C4IR was launched on July 1, 2021, by the Astana International Financial Center (AIFC), MDAI and the World Economic Forum (WEF)

#### Main directions:

- Internet of Things
- Policy and data management
- Digital trade
- Connection
- Regulatory Sandbox (non-fin)

#### Main purpose: creation and development of new industries

- Empowers the innovation ecosystem to influence international policies, principles and rules in the field of new technology management.
- Forms a policy for the implementation and development of Industry 4.0.
- Helps attract industry partners in the region, investors and solution providers using the AIFC privileges, the ability to develop regulatory standards, a database of local and international partners in business and industry.



- Smart Industry Readiness Index - determines the level of technology adoption among industrial enterprises.

- Identifies end states and intermediate steps needed for continuous improvement

# AIFC VC Hub

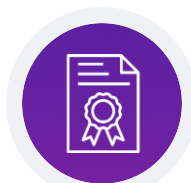
The AIFC is the **ONLY jurisdiction** among the CIS countries that allows accredited professional investors to invest in proven technology start-ups through convertible loan, KISS, SAFE, CARE mechanisms according to the canons of the international jurisdictions.



Flexible jurisdiction



VC Investment mechanisms



AFSA and AIFC Court/IAC



Global recognition of AIFC based startups



VC Funds and business angels



VC Deal Structuring

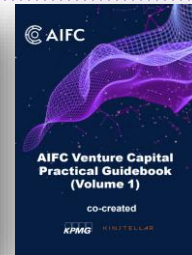


30% of startups of our venture ecosystem successfully close the pre-seed/seed round

>115 projects processed by the team

Deals > \$86 million  
*(for the period of 2018 -2022)*

40+ deals for the last 2 years





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# Smart Centres Index 7 Results



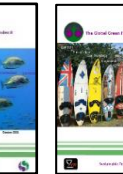
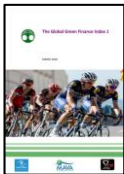
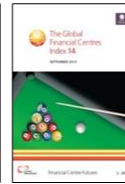
Mike Wardle  
Chief Executive Officer & Head Of Indices  
Z/Yen Group





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# Z/Yen Research





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# Smart Centres Index



- ◆ The Smart Centres Index is designed to track commercial centres' ability to create, develop, and deploy technology
- ◆ Aims to help investors, governments, and regulators view the attractiveness of centres for new technologies and products by measuring how attuned centres and their regulatory systems are to attracting innovation and growth in innovation and technology





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# Factor Assessment Index



- ◆ Combine perception data with quantitative data using advanced statistical modelling
- ◆ Individual assessments of commercial centres are associated with the quantitative data for that centre
- ◆ We can then predict how an individual would rate other cities based on their profile



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# SCI Dimensions



- ◆ The SCI measures three equally weighted dimensions:
  - Innovation Support – the approach taken to regulation and support for the innovation and technology industry provided by the commercial ecosystem
  - Creative Intensity - the extent to which technology and innovative industries are embedded in the economy of the centre
  - Delivery Capability - the quality of the work being undertaken in the field in the centre



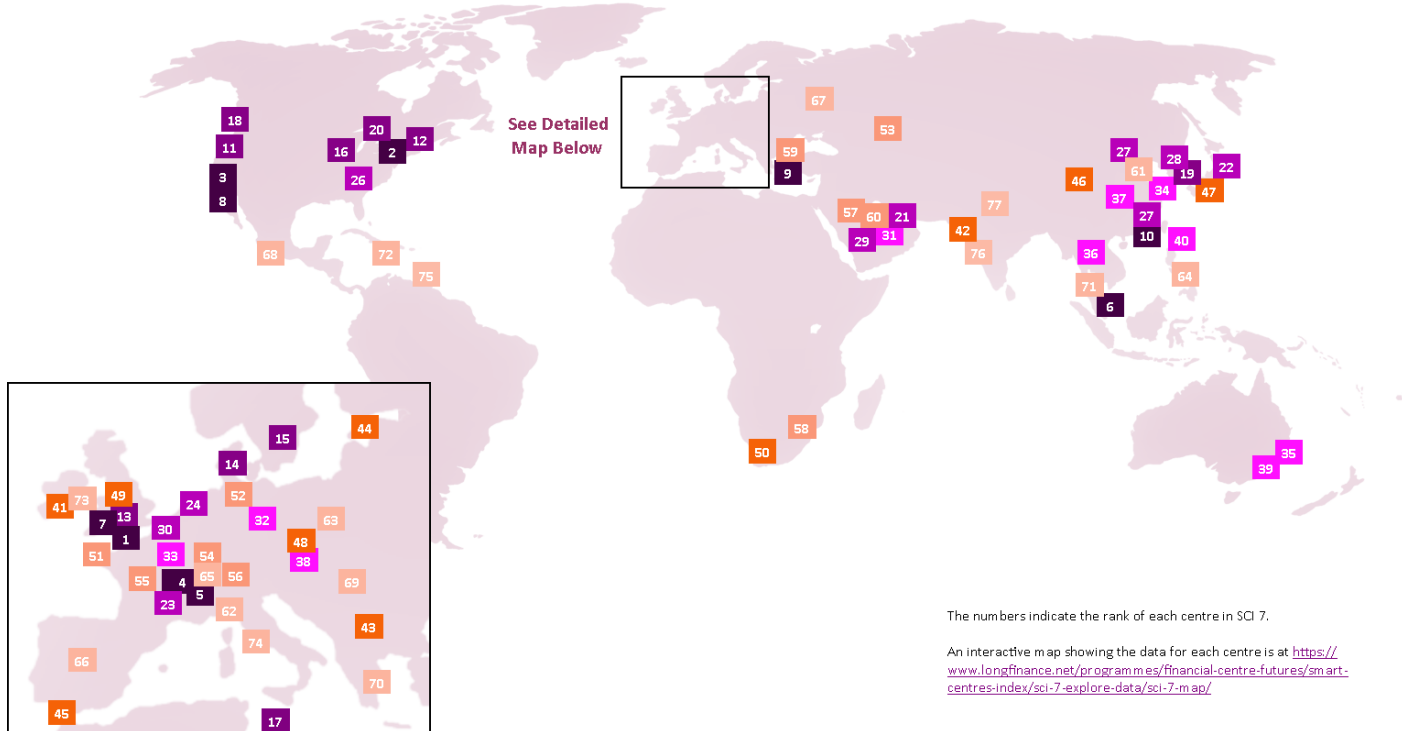
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# The SCI World

## 77 Centres Featured In SCI 7

The SCI 7 World - Centres In The Index



The numbers indicate the rank of each centre in SCI 7.

An interactive map showing the data for each centre is at <https://www.longfinance.net/programmes/financial-centre-futures/smart-centres-index/sci-7-explore-data/sci-7-map/>







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## SCI 7 Headlines



- ◆ Western European and US centres show continued strong performance, but Asia/Pacific centres have fallen back a little.
- ◆ London took first place in the index, with New York and San Francisco in second and third.
- ◆ Four Western European centres feature in the top 10, and three from the US. Singapore and Hong Kong feature in the top 10 among Asia/Pacific centres. Tel Aviv enters the top 10 for the first time.
- ◆ Five centres rose 10 or more places in the rankings in SCI 7, while six centres fell 10 or more places.
- ◆ Following a fall in the average ratings in SCI 6, the average rating in SCI 7 rose by 6.28% with all centres rising in the ratings. This may show increased confidence in the quality and depth of technology and innovation development across the world.

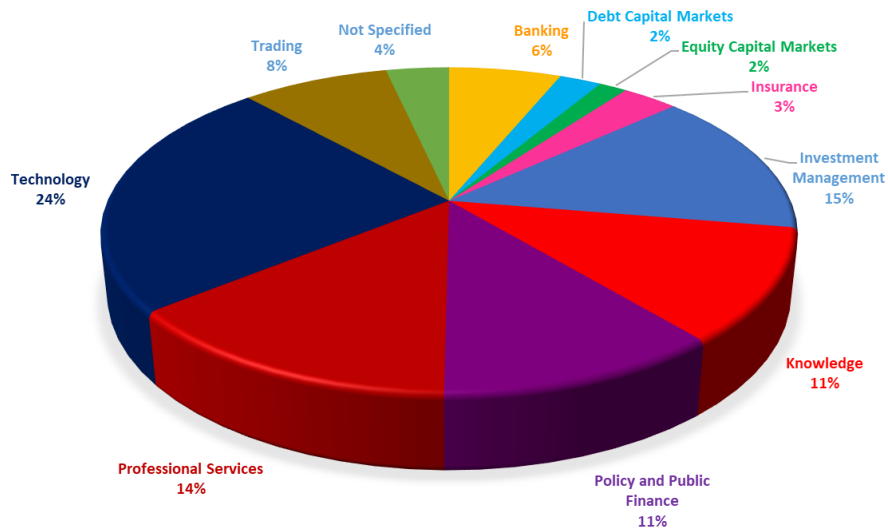


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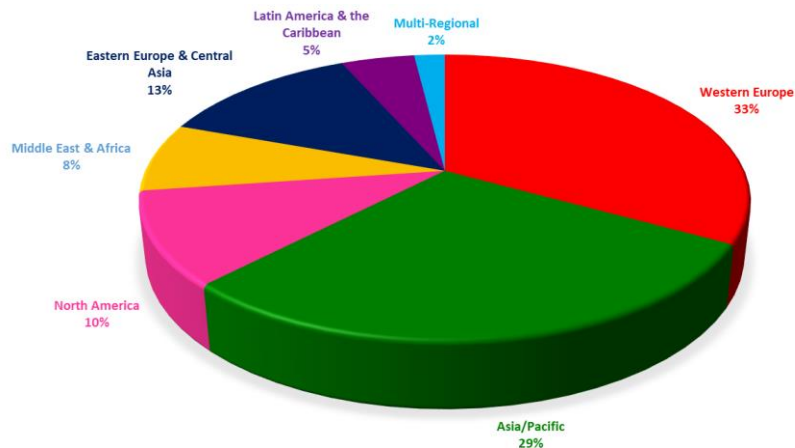
# SCI 7 Respondents



## Respondents By Sector



## Respondents By Region





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# SCI 7 Top Twenty Centres



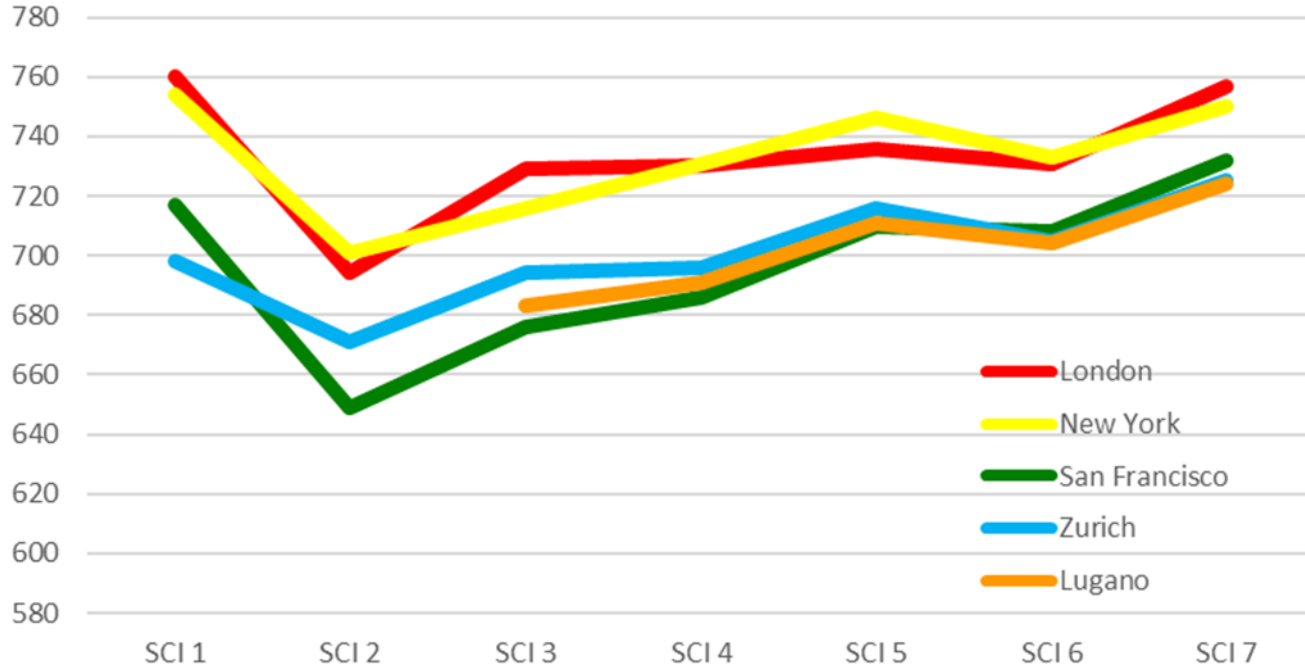
Centre	SCI 7		SCI 6		Change In	Change In
	Rank	Rating	Rank	Rating	Rank	Rating
London	1	757	2	731	▲1	▲26
New York	2	750	1	733	▼1	▲17
San Francisco	3	732	4	708	▲1	▲24
Zurich	4	725	6	705	▲2	▲20
Lugano	5	724	7	704	▲2	▲20
Singapore	6	721	8	703	▲2	▲18
Oxford, UK	7	719	10	701	▲3	▲18
Los Angeles	8	718	3	714	▼5	▲4
Tel Aviv	9	717	14	692	▲5	▲25
Hong Kong	10	716	5	706	▼5	▲10
Seattle	11	715	15	691	▲4	▲24
Boston	12	714	16	689	▲4	▲25
Cambridge, UK	13	713	9	702	▼4	▲11
Copenhagen	14	712	13	693	▼1	▲19
Stockholm	15	711	23	671	▲8	▲40
Chicago	16	710	11	697	▼5	▲13
Malta	17	709	12	696	▼5	▲13
Vancouver	18	708	30	654	▲12	▲54
Busan	19	707	22	672	▲3	▲35
Toronto	20	706	19	675	▼1	▲31





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# Leading Centres Over Time



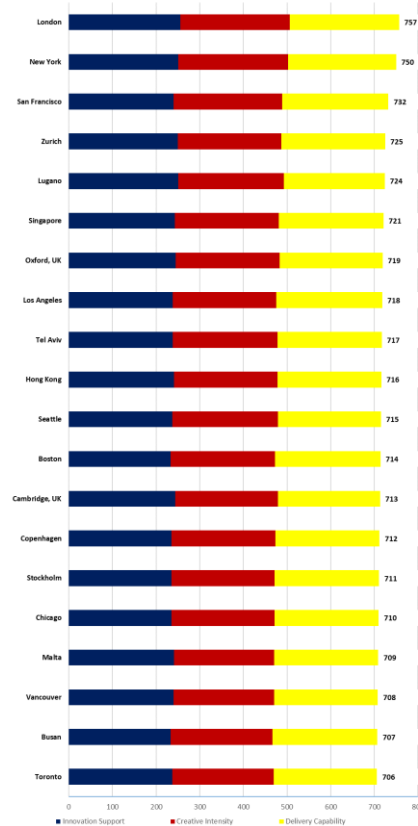


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# SCI 7 Top Twenty Centres By Dimension



- ◆ The SCI Dimensions
  - Innovation Support
  - Creative Intensity
  - Delivery Capability





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## Western Europe – Top 15



Centre	SCI 7		SCI 6		Change In	Change In
	Rank	Rating	Rank	Rating	Rank	Rating
London	1	757	2	731	▲1	▲26
Zurich	4	725	6	705	▲2	▲20
Lugano	5	724	7	704	▲2	▲20
Oxford, UK	7	719	10	701	▲3	▲18
Cambridge, UK	13	713	9	702	▼4	▲11
Copenhagen	14	712	13	693	▼1	▲19
Stockholm	15	711	23	671	▲8	▲40
Malta	17	709	12	696	▼5	▲13
Geneva	23	703	21	673	▼2	▲30
Amsterdam	24	698	18	676	▼6	▲22
Brussels	30	688	25	664	▼5	▲24
Berlin	32	686	34	650	▲2	▲36
Luxembourg	33	685	28	656	▼5	▲29
Vienna	38	673	38	638	0	▲35
Dublin	41	669	31	653	▼10	▲16

- ◆ 10 centres in the region maintained or improved their rank position.
- ◆ Dublin, Frankfurt, Milan, and Madrid all fell 10 rank places in SCI 7.



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# North America



Centre	SCI 7		SCI 6		Change In	Change In
	Rank	Rating	Rank	Rating	Rank	Rating
New York	2	750	1	733	▼1	▲17
San Francisco	3	732	4	708	▲1	▲24
Los Angeles	8	718	3	714	▼5	▲4
Seattle	11	715	15	691	▲4	▲24
Boston	12	714	16	689	▲4	▲25
Chicago	16	710	11	697	▼5	▲13
Vancouver	18	708	30	654	▲12	▲54
Toronto	20	706	19	675	▼1	▲31
Washington DC	26	694	33	651	▲7	▲43

- ◆ Nine North American centres feature in SCI 7 and three are in the world top 10. San Francisco moved up into 3rd place globally.
- ◆ Five centres in the region maintained or improved their rank position compared with SCI 6, with Vancouver improving 12 rank places.



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## Asia/Pacific – Top 15



Centre	SCI 7		SCI 6		Change In	Change In
	Rank	Rating	Rank	Rating	Rank	Rating
Singapore	6	721	8	703	▲2	▲18
Hong Kong	10	716	5	706	▼5	▲10
Busan	19	707	22	672	▲3	▲35
Tokyo	22	704	17	677	▼5	▲27
Shenzhen	25	696	32	652	▲7	▲44
Shanghai	27	692	20	674	▼7	▲18
Seoul	28	691	24	669	▼4	▲22
Beijing	34	683	27	657	▼7	▲26
Sydney	35	682	36	646	▲1	▲36
Bangkok	36	680	29	655	▼7	▲25
Guangzhou	37	679	43	616	▲6	▲63
Melbourne	39	672	40	635	▲1	▲37
Taipei	40	671	61	574	▲21	▲97
GIFT City-Gujarat	42	668	47	607	▲5	▲61
Chengdu	46	661	39	636	▼7	▲25

- ◆ Hong Kong, Singapore, and Busan rank in the top 20 in the world.
- ◆ Eight centres in the region rose in the rankings in SCI 7, with Taipei improving more than 10 places.





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# Eastern Europe & Central Asia



Centre	SCI 7		SCI 6		Change In	Change In
	Rank	Rating	Rank	Rating	Rank	Rating
Sofia	43	667	41	622	▼2	▲45
Tallinn	44	666	New	New	New	New
Prague	48	657	45	613	▼3	▲44
Astana	53	652	64	569	▲11	▲83
Istanbul	59	639	50	599	▼9	▲40
Budapest	63	630	57	583	▼6	▲47
Moscow	67	618	68	562	▲1	▲56
Warsaw	69	614	67	563	▼2	▲51
Athens	70	612	72	537	▲2	▲75

- ◆ Sofia maintained its status as the leading centre in the region, although it lost a little ground, dropping 2 rank places overall.
- ◆ Tallinn entered the index in 44th position.
- ◆ Astana moved up 11 rank places in its second entry in the SCI.



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## Middle East & Africa



Centre	SCI 7		SCI 6		Change In	Change In
	Rank	Rating	Rank	Rating	Rank	Rating
Tel Aviv	9	717	14	692	▲ 5	▲ 25
Dubai	21	705	26	661	▲ 5	▲ 44
Doha	29	690	New	New	New	New
Abu Dhabi	31	687	37	641	▲ 6	▲ 46
Cape Town	50	655	53	587	▲ 3	▲ 68
Riyadh	57	645	69	561	▲ 12	▲ 84
Johannesburg	58	640	54	586	▼ 4	▲ 54
Bahrain	60	636	70	557	▲ 10	▲ 79

- ◆ Tel Aviv leads this region and moved into 9th position overall, with Dubai in second place at 21st in the world.
- ◆ Doha entered the index in 29th position.
- ◆ All centres in the region, other than Johannesburg, improved their position in the index, with Riyadh and Bahrain improving 10 or more places in the ranking.



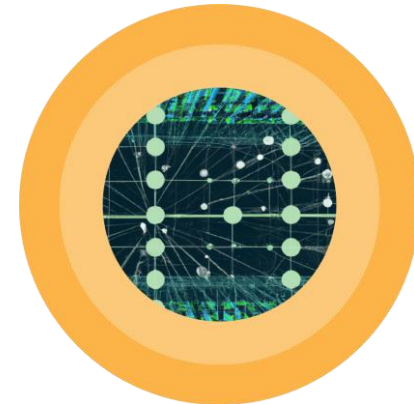
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# Latin America & The Caribbean



Centre	SCI 7		SCI 6		Change In	Change In
	Rank	Rating	Rank	Rating	Rank	Rating
Mexico City	68	617	59	577	▼9	▲40
Cayman Islands	72	609	66	564	▼6	▲45
Trinidad & Tobago	75	574	71	550	▼4	▲24

- ◆ Mexico City leads the region, but is only four rank places ahead of the Cayman Islands.
- ◆ Mexico City fell nine rank places in SCI 7, and Cayman Islands and Trinidad & Tobago also fell in the rankings.





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# SCI Taxonomy





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# Areas Of Competitiveness



Rank	Technology	Business Environment	Human Capital	Infrastructure	Financial Sector Development	Reputational & General
1	New York	London	London	London	London	London
2	London	New York	New York	New York	New York	New York
3	Singapore	San Francisco	Singapore	Singapore	San Francisco	Lugano
4	San Francisco	Singapore	San Francisco	San Francisco	Zurich	Oxford, UK
5	Los Angeles	Zurich	Zurich	Cambridge, UK	Los Angeles	Cambridge, UK
6	Lugano	Hong Kong	Los Angeles	Zurich	Singapore	Zurich
7	Washington DC	Lugano	Chicago	Los Angeles	Chicago	Singapore
8	Chicago	Los Angeles	Oxford, UK	Hong Kong	Boston	Geneva
9	Boston	Tel Aviv	Toronto	Oxford, UK	Geneva	San Francisco
10	Hong Kong	Copenhagen	Tel Aviv	Tel Aviv	Lugano	Los Angeles
11	Zurich	Oxford, UK	Hong Kong	Seattle	Hong Kong	Tel Aviv
12	Amsterdam	Geneva	Seattle	Chicago	Seoul	Boston
13	Busan	Chicago	Boston	Stockholm	Seattle	Hong Kong
14	Luxembourg	Dubai	Vancouver	Toronto	Busan	Chicago
15	Seattle	Amsterdam	Dubai	Lugano	Oxford, UK	Stockholm



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# Technology Effect



Rank	All Factors	Technology Factors
1	London	New York (+1)
2	New York	London (-1)
3	San Francisco	Singapore (+3)
4	Zurich	San Francisco (-1)
5	Lugano	Los Angeles (+3)
6	Singapore	Lugano (-1)
7	Oxford, UK	Washington DC (+19)
8	Los Angeles	Chicago (+8)
9	Tel Aviv	Boston (+3)
10	Hong Kong	Hong Kong
11	Seattle	Zurich (-7)
12	Boston	Amsterdam (+12)
13	Cambridge, UK	Busan (+6)
14	Copenhagen	Luxembourg (+19)
15	Stockholm	Seattle (-4)



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# Reputation Advantage



Centre - Top 15	Weighted Average Assessment	SCI7 Rating	SCI7 Reputational Advantage
Busan	851	707	144
GIFT City-Gujarat	801	668	133
San Francisco	856	732	124
Stockholm	813	711	102
Copenhagen	810	712	98
Tel Aviv	803	717	86
London	842	757	85
New York	832	750	82
Chicago	792	710	82
Singapore	794	721	73
Geneva	776	703	73
Los Angeles	785	718	67
Frankfurt	716	650	66
Toronto	771	706	65
Oxford, UK	782	719	63



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# Reputational Disadvantage



Centre - Bottom 15	Weighted Average Assessment	SCI7 Rating	SCI7 Reputational Advantage
Johannesburg	556	640	-84
Guernsey	559	654	-95
Osaka	564	660	-96
Melbourne	576	672	-96
Guangzhou	583	679	-96
Tianjin	529	635	-106
Taipei	562	671	-109
Athens	491	612	-121
Dublin	542	669	-127
Bangkok	551	680	-129
Cape Town	522	655	-133
Stuttgart	485	626	-141
Isle of Man	374	590	-216
New Delhi	176	539	-363
Mumbai	208	571	-363





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# Observations



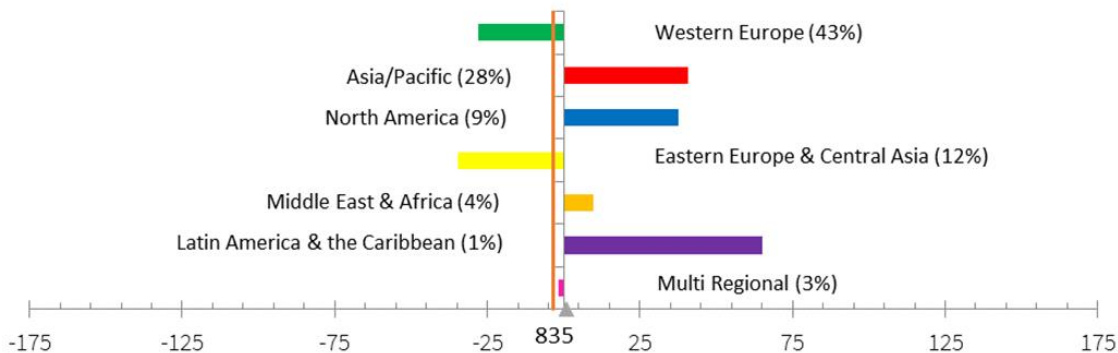
Ian Harris  
Director  
Z/Yen Group



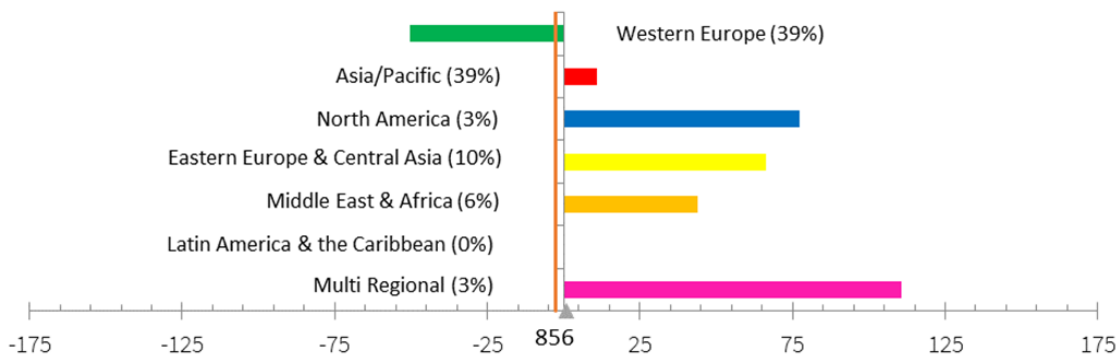


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# Regional Difference In Assessments



New York



San Francisco





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# Correlation Between SCI 7 & Instrumental Factors



Instrumental Factor	R Squared
Fintech Activity Index	0.524
Urban Mobility Readiness Index	0.457
The Global Financial Centres Index	0.448
Safe Cities Index	0.445
Global Innovation Index	0.438
Adjusted Net National Income Per Capita	0.430
Government Effectiveness	0.423
Telecommunication Infrastructure Index	0.412
Smart City Index	0.390
World Talent Rankings	0.377



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# Correlation With Technology Factors



Technology Factors	R Squared
Fintech Activity Index	0.524
Telecommunication Infrastructure Index	0.412
Smart City Index	0.390
E-Government Development Index	0.340
GFCI FinTech Index	0.262
E-Participation Index	0.248
Global AI Index	0.205
The Global Fintech Index	0.146
Worldwide Broadband Speed League	0.126
Global Cybersecurity Index	0.091

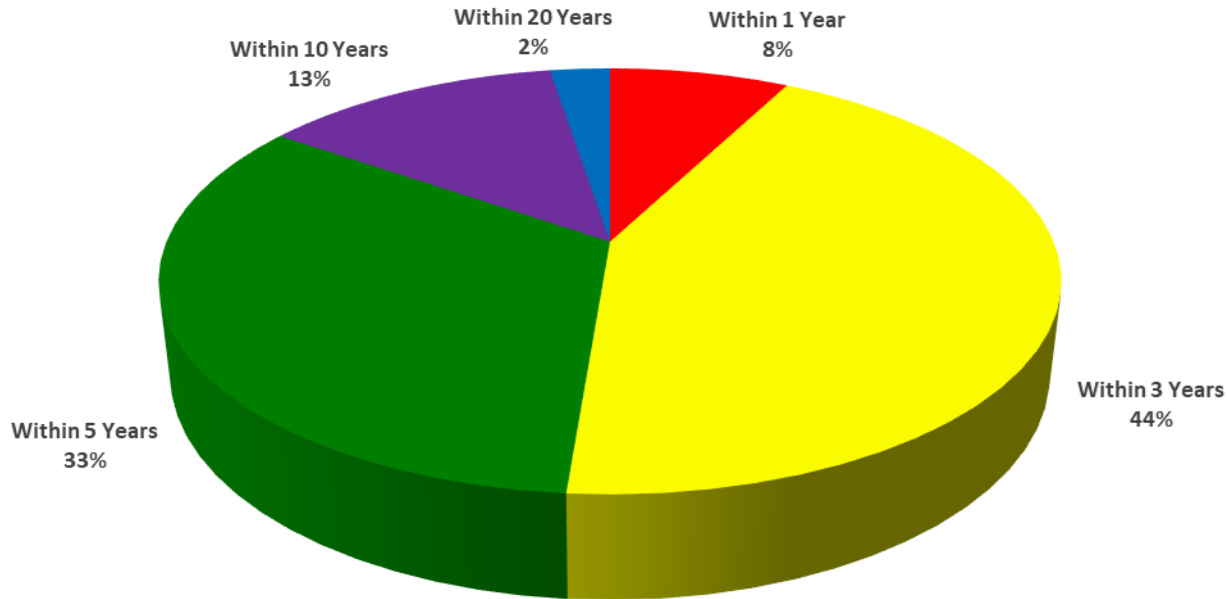


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# Pace Of Technological Change



How quickly will quantum computers be able to break current public key encryption?





# Comments, Questions & Answers

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# Smart Centres Index 8



**Smart Centres Index 8:** November 2023

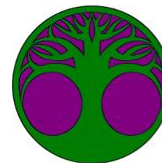


Take the SCI survey at:

[www.smartcentresindex.net/survey/](http://www.smartcentresindex.net/survey/)

**Global Financial Centres Index 34:** September 2023

**Global Green Finance Index 12:** October 2023



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# Thank You For Participating

## Forthcoming Events

- Tue, 30 May (11:00-11:45) Closing The Savings Gap: Empowering A New Breed Of Financial Advisers
- Wed, 31 May (15:00-15:45) Digital Innovation In Financial Services With Low-Code No-Code (LCNC)
- Wed, 31 May (17:30-18:30) Intelligence Forums Roundtable

Visit <https://fsclub.zyen.com/events/forthcoming-events/>

Watch past webinars <https://www.youtube.com/zyengroup>