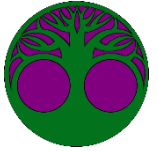


Global Green Finance Index Global Launch



Tuesday, 27 October 2020
09:00 to 10:00 GMT
Webinar



Agenda



09:00 Welcome and Introduction

Professor Michael Mainelli, Executive Chairman, Z/Yen Group

09:05 GGFI 6 Results

Mike Wardle, Head Of Indices, Z/Yen Group

09:30 Commentary

Professor Michael Mainelli, Executive Chairman, Z/Yen Group

09:40 Questions

09:55 Concluding Remarks

10:00 Close

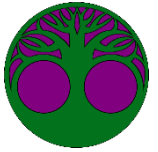




Welcome And Introduction

Professor Michael Mainelli
Executive Chairman
Z/Yen Group



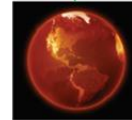


The 'City' Story So Far

City of London Corporation passes local Clean Air directive in 1953 leading to Clean Air Act of 1956.



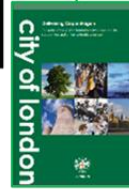
"The London Principles: The Role Of The UK Financial Services In Sustainable Development", Johannesburg Earth Summit. 2002



2007

London Accord – Sharing Investment Research For The Sake Of The Planet

Policy Performance Bonds



2009



2017



2018



2019



1991



World Business Council for Sustainable Development
1992



2007



2008



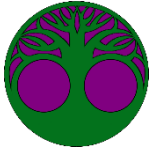
2006



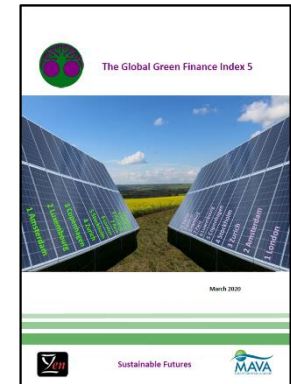
Following COP3 Kyoto (1997), City of London Corporation publishes – "[Trading Emission Permits – A Business Opportunity For The City?](#)" (January 1999). COLC sets up shadow trading scheme, works with DTI, EU Emissions Trading System (ETS) adopts UK framework, launches April 2005.



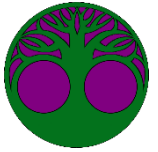
Global Green Finance Index



- ◆ Launched in 2018 to track the development of green finance in financial centres of the world.
- ◆ GGFI 1 included 47 centres. GGFI 6 includes 74 centres.
- ◆ The GGFI is intended to:
 - Encourage financial centres to enhance the range and depth of their green finance offering.
 - Showcase best practice in green finance.
 - Foster a race to the top.

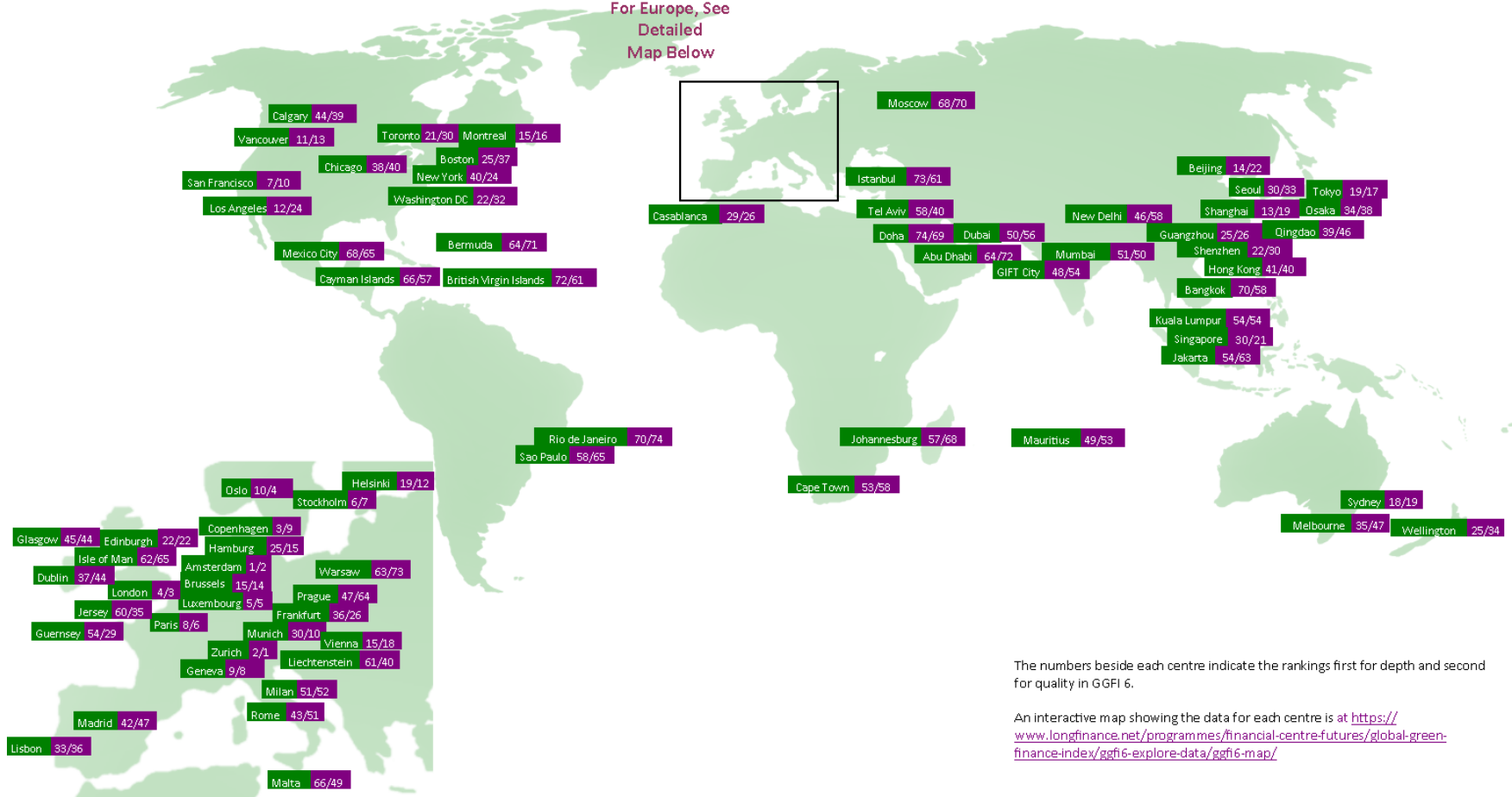


The Global Green Finance Index World



The GGFI 6 World - Centres In The Index

For Europe, See
Detailed
Map Below

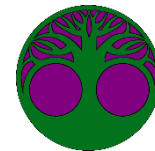


The numbers beside each centre indicate the rankings first for depth and second for quality in GGFI 6.

An interactive map showing the data for each centre is at <https://www.longfinance.net/programmes/financial-centre-futures/global-green-finance-index/ggfi6-explore-data/ggfi6-map/>



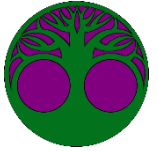
GGFI 6 Results



Mike Wardle
Head Of Indices
Z/Yen Group

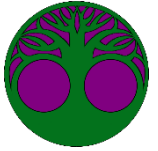


Definitions

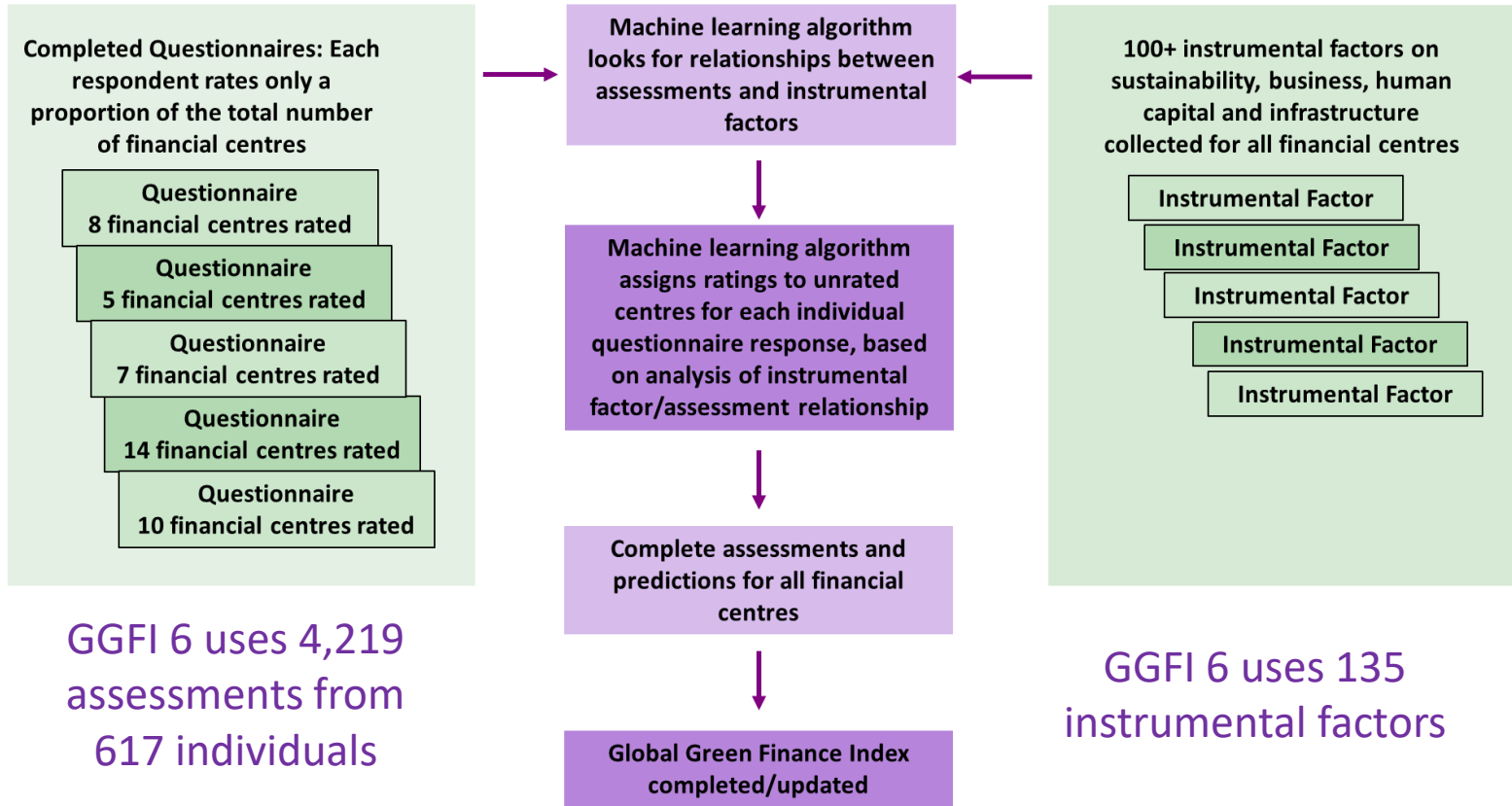


- ◆ **Financial Centres** - UNEP defines financial centres as “cities with an intense concentration of financial activity involving an interlocking set of financial sectors and transactions”.
- ◆ **Green Finance** - refers to any financial instrument or financial services activity – which results in positive change for the environment and society over the long term (sustainability). The most basic “greenness” criterion of a company or project is that it contributes to reducing the emission of Greenhouse Gases.

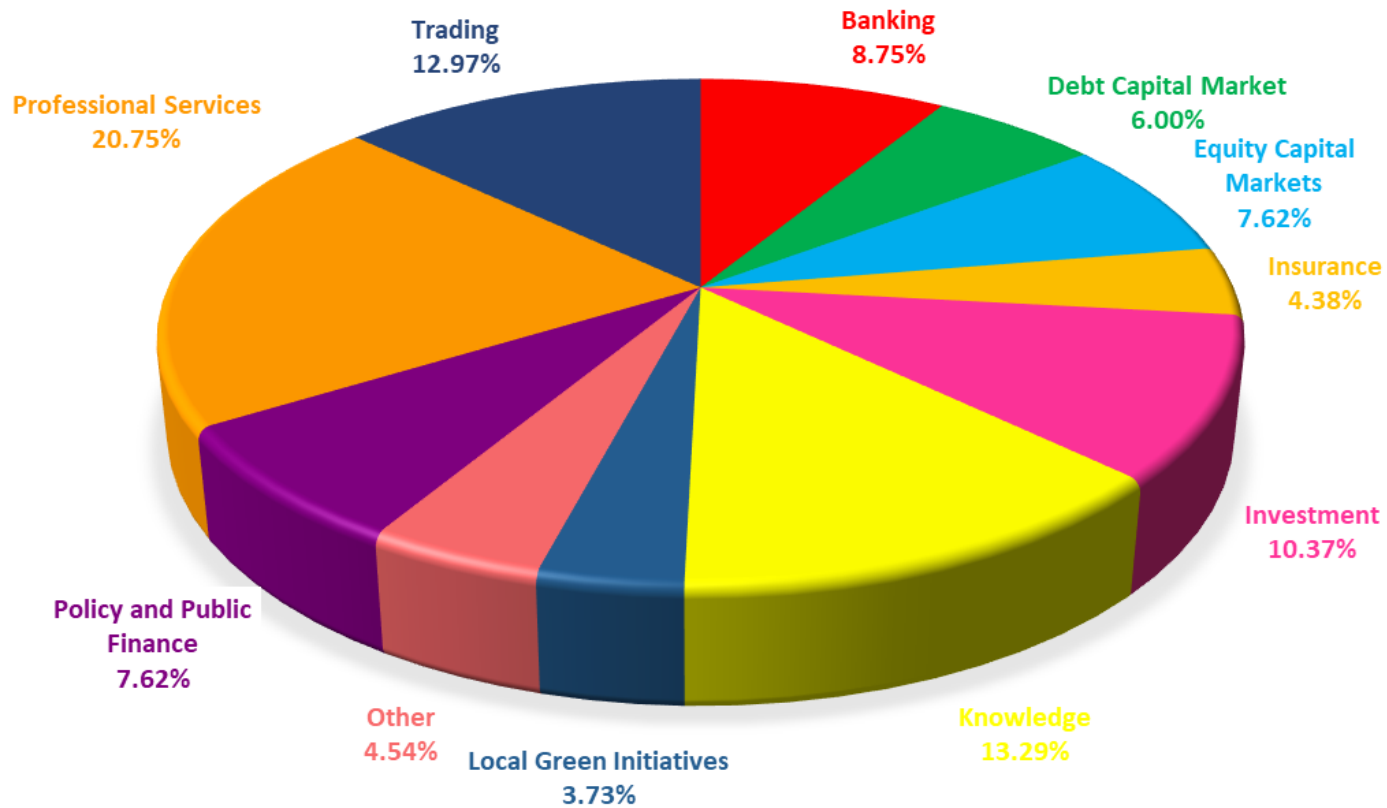


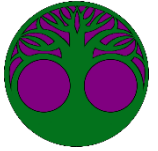


Factor Assessment Index

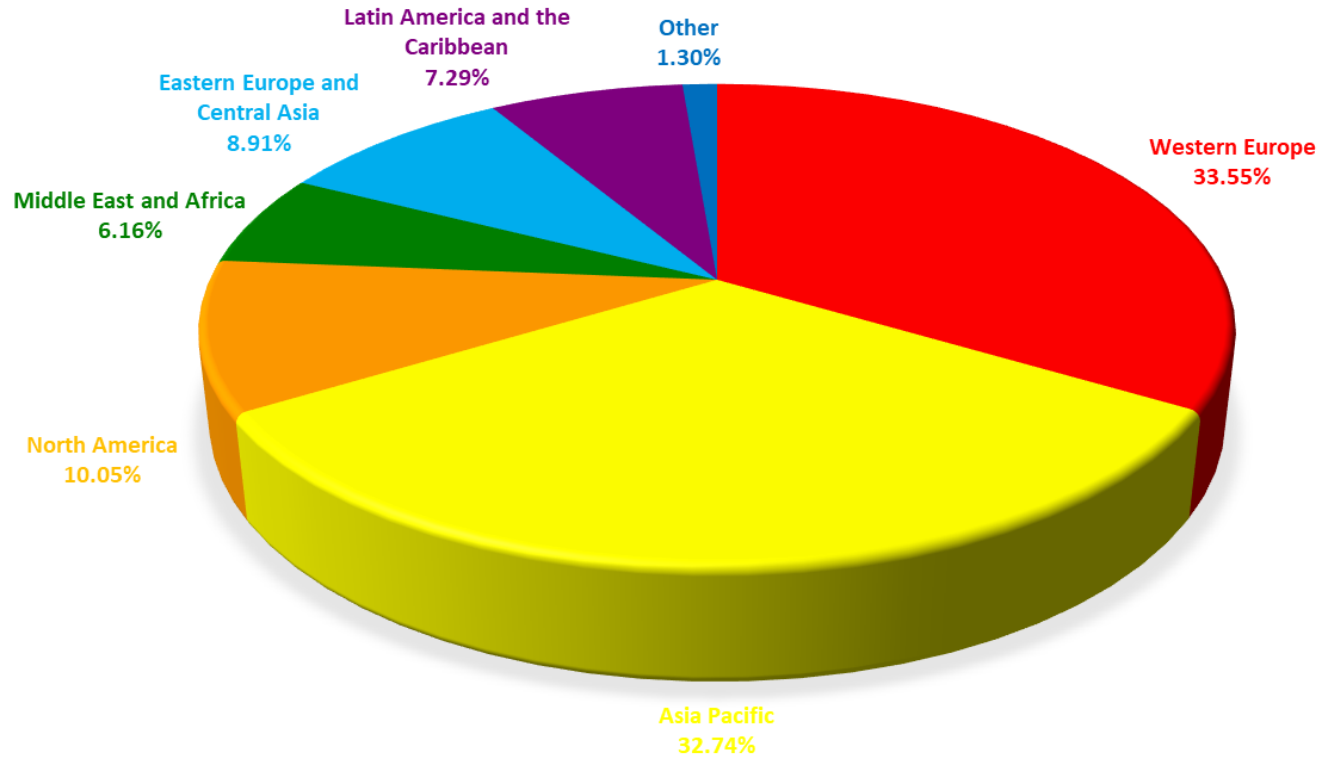


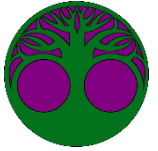
Respondents By Sector



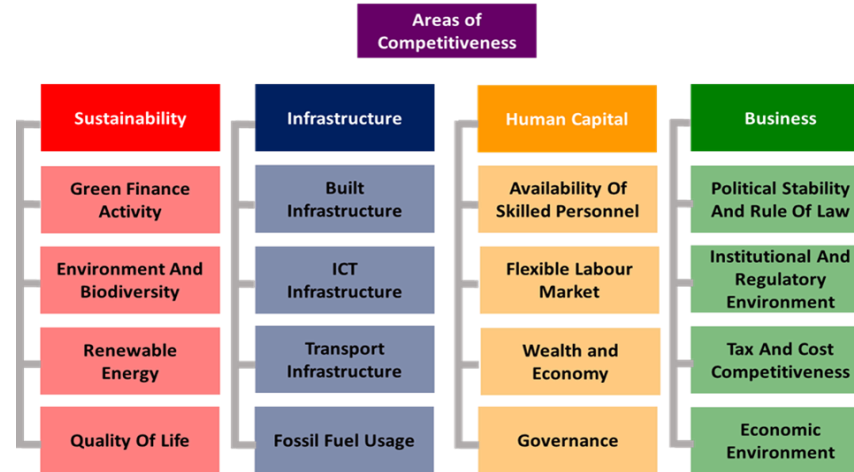


Respondents By Region





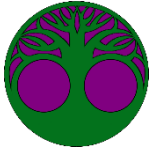
Instrumental Factors



Depth	R Squared	Quality	R Squared
Water Quality	0.574	Global Innovation Index	0.566
Global Innovation Index	0.534	World Talent Rankings	0.502
World Talent Rankings	0.439	Wage Comparison Index	0.488
IESE Cities In Motion Index	0.434	Water Quality	0.474
Quality of Living City Rankings	0.428	Networked Society Index	0.468
Wage Comparison Index	0.420	IESE Cities In Motion Index	0.466
The Global Financial Centres Index	0.417	Sustainable Cities Index	0.458
Corruption Perception Index	0.411	OECD Country Risk Classification	0.440
Sustainable Cities Index	0.411	Corruption Perception Index	0.438
Legatum Prosperity Index	0.396	Legatum Prosperity Index	0.437

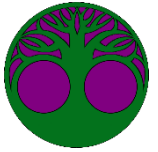


Headlines



- ◆ Amsterdam retained its leading position in the depth index. Zurich has risen to second place.
- ◆ In the quality index, these positions are reversed, with Zurich leading and Amsterdam second.
- ◆ San Francisco was the leading centre outside Western Europe, ranking seventh for depth and equal 10th for quality.
- ◆ New entrant, Helsinki, ranked 19th equal for depth and 12th for quality.
- ◆ Narrow margins separate centres at top of the tables. Among the top 10 centres the spread of ratings is 31 out of 1,000 for depth (44 in GGFI 5) and 43 for quality (44 in GGFI 5).



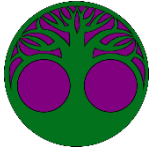


Headlines – Depth Top 10

Centre	GGFI 6		GGFI 5		Change In		Change In	
	Rank	Rating	Rank	Rating	Rank	Rating	Rank	Rating
Amsterdam	1	574	1	496	▶	0	▲	78
Zurich	2	571	4	483	▲	2	▲	88
Copenhagen	3	558	3	484	▶	0	▲	74
London	4	554	6	470	▲	2	▲	84
Luxembourg	5	553	2	488	▼	-3	▲	65
Stockholm	6	550	5	474	▼	-1	▲	76
San Francisco	7	549	16	442	▲	9	▲	107
Paris	8	545	7	460	▼	-1	▲	85
Geneva	9	544	10	452	▲	1	▲	92
Oslo	10	543	12	447	▲	2	▲	96

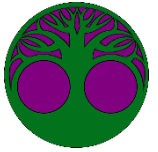


Headlines – Quality Top 10

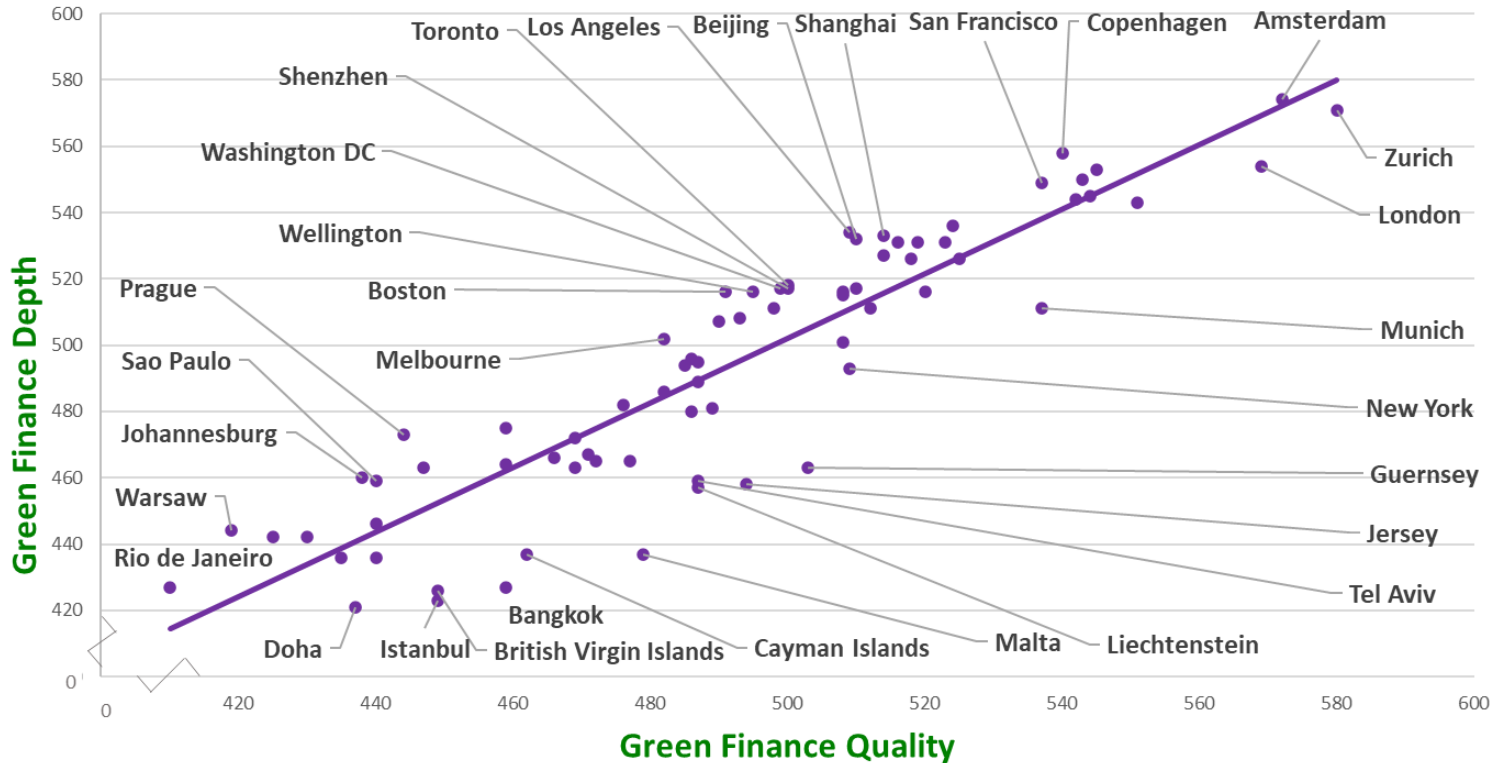


Centre	GGFI 6		GGFI 5		Change In Rank		Change In Rating	
	Rank	Rating	Rank	Rating				
Zurich	1	580	3	507	▲	2	▲	73
Amsterdam	2	572	2	510	▶	0	▲	62
London	3	569	1	516	▼	-2	▲	53
Oslo	4	551	13	466	▲	9	▲	85
Luxembourg	5	545	6	489	▲	1	▲	56
Paris	6	544	7	487	▲	1	▲	57
Stockholm	7	543	4	496	▼	-3	▲	47
Geneva	8	542	9	476	▲	1	▲	66
Copenhagen	9	540	5	491	▼	-4	▲	49
Munich	10=	537	11	471	▲	1	▲	66
San Francisco	10=	537	13	466	▲	3	▲	71



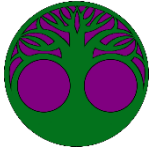


Depth And Quality



- ◆ Close correlation between the assessments of each factor by respondents.
- ◆ However, some major, long-established centres such as New York, and London, score higher for quality than depth.





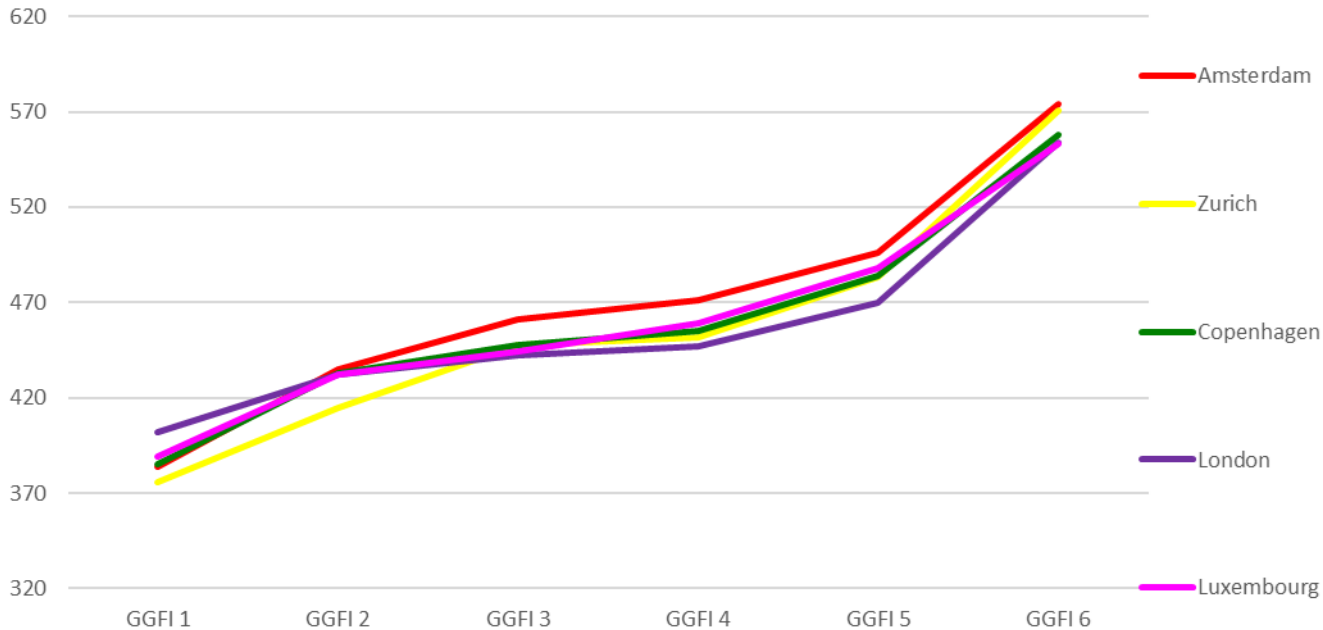
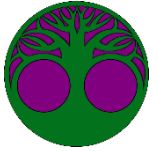
Sustainability Factor Ranking

Rank	All Factors		Sustainability Factors	
	Depth	Quality	Depth	Quality
1	Amsterdam	Zurich	Zurich +1	Zurich
2	Zurich	Amsterdam	Amsterdam -1	Amsterdam
3	Copenhagen	London	London +1	London
4	London	Oslo	Luxembourg +1	Oslo
5	Luxembourg	Luxembourg	Oslo +5	Luxembourg
6	Stockholm	Paris	Copenhagen -3	Geneva +2
7	San Francisco	Stockholm	Paris +1	Paris -1
8	Paris	Geneva	Stockholm -2	Copenhagen +1
9	Geneva	Copenhagen	San Francisco -2	Brussels +5
10	Oslo	Munich	Helsinki +9	Stockholm -3
11	Vancouver	San Francisco	Washington DC +11	Singapore +10
12	Los Angeles	Helsinki	Brussels +3	Hamburg +3
13	Shanghai	Vancouver	Montreal +2	Montreal +3
14	Beijing	Brussels	Vancouver -3	Frankfurt +12
15=	Vienna	Hamburg	Geneva -6	Helsinki -5
15=	Brussels			
15=	Montreal			

- ◆ Where only sustainability factors are included in the analysis, Montreal scores higher for both depth and quality.
- ◆ Oslo, Helsinki, and Washington DC gain five or more places for depth.
- ◆ Brussels, Singapore, and Frankfurt gain five or more places for quality.

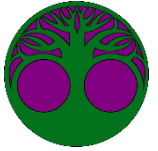


Leading Centres - Depth

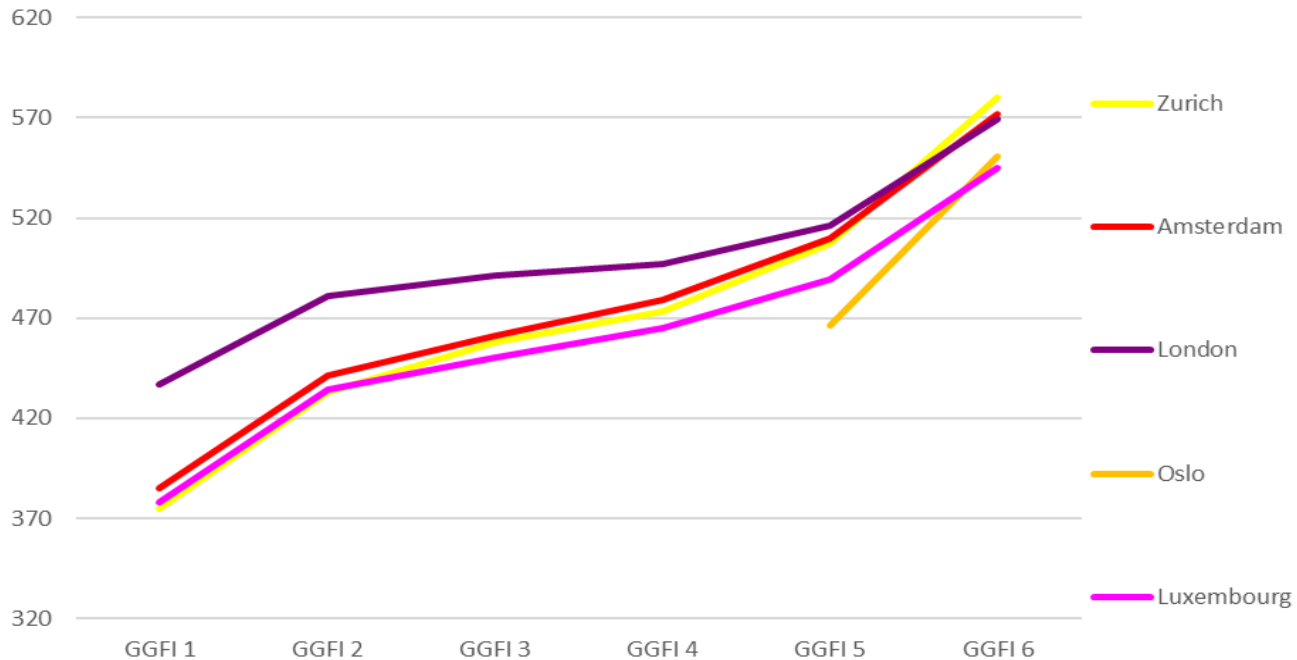


- ◆ The top five centres in the index for depth improved continue to improve their ratings at a steady pace, with only narrow margins separating them.
- ◆ Luxembourg fell back slightly in GGFI 6 against the leading group.





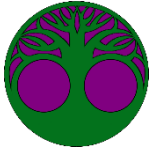
Leading Centres - Quality



- ◆ The top five centres in the index for quality improved continue to improve their ratings. Zurich and Amsterdam overtook London, as predicted in GGFI 5.
- ◆ Oslo, as a relatively new entrant to the index, performed strongly.



Headlines – Western Europe

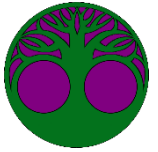


Depth GGFI 6			Quality GGFI 6		
Centre	Rank	Rating	Centre	Rank	Rating
Amsterdam	1	574	Zurich	1	580
Zurich	2	571	Amsterdam	2	572
Copenhagen	3	558	London	3	569
London	4	554	Oslo	4	551
Luxembourg	5	553	Luxembourg	5	545
Stockholm	6	550	Paris	6	544
Paris	8	545	Stockholm	7	543
Geneva	9	544	Geneva	8	542
Oslo	10	543	Copenhagen	9	540
Vienna	15=	531	Munich	10=	537

- ◆ Western European centres continue to dominate the top of the index, with nine centres ranked in the top 10 for both for depth and quality.



Headlines – Asia/Pacific

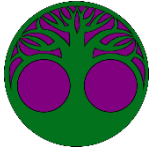


Depth			Quality		
Centre	GGFI 6		Centre	GGFI 6	
	Rank	Rating		Rank	Rating
Shanghai	13	533	Tokyo	17	518
Beijing	14	532	Shanghai	19=	514
Sydney	18	527	Sydney	19=	514
Tokyo	19	526	Singapore	21	512
Shenzhen	22=	517	Beijing	22=	510
Wellington	25=	516	Guangzhou	26=	508
Guangzhou	25=	516	Shenzhen	30=	500
Singapore	30=	511	Seoul	33	498
Seoul	30=	511	Wellington	34	495
Osaka	34	507	Osaka	38	490

- ◆ Nineteen Asia/Pacific centres now feature in the GGFI, with the addition of Wellington, Osaka, Qingdao, and GIFT City-Gujarat in this edition.
- ◆ Sydney has fallen from first to third in the region for both depth and quality, with Shanghai now leading for depth and Tokyo leading for quality in the region.



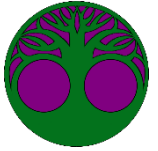
Headlines – North America



Centre	Depth GGFI 6		Centre	Quality GGFI 6	
	Rank	Rating		Rank	Rating
San Francisco	7	549	San Francisco	10=	537
Vancouver	11	536	Vancouver	13	524
Los Angeles	12	534	Montreal	16	519
Montreal	15	531	New York	24=	509
Toronto	21	518	Los Angeles	24=	509
Washington DC	22=	517	Toronto	30=	500
Boston	25=	516	Washington DC	32	499
Chicago	38	495	Boston	37	491
New York	40	493	Calgary	39	489
Calgary	44	481	Chicago	40=	487

- ◆ USA centres have gained ground on Canadian centres in GGFI 6.
- ◆ San Francisco replaced Montreal as the top ranking centre for depth and continued to lead the region for quality, now featuring in the top 10 globally in both rankings.





Headlines – Eastern Europe & Central Asia

Centre	Depth GGFI 6		Centre	Quality GGFI 6	
	Rank	Rating		Rank	Rating
Prague	47	473	Istanbul	61=	449
Warsaw	63	444	Prague	64	444
Moscow	68=	436	Moscow	70	435
Istanbul	73	423	Warsaw	73	419

- ◆ All centres in the region fell in the rankings for both depth and quality.
- ◆ Prague continued to lead the region for depth, but fell substantially in the quality measure, with Istanbul taking the leading place for quality in the region.



Headlines – Latin America & The Caribbean



Centre	Depth GGFI 6		Centre	Quality GGFI 6	
	Rank	Rating		Rank	Rating
Sao Paulo	58=	459	Cayman Islands	57	462
Bermuda	64=	442	British Virgin Islands	61=	449
Cayman Islands	66=	437	Sao Paulo	65=	440
Mexico City	68=	436	Mexico City	65=	440
Rio de Janeiro	70=	427	Bermuda	71	430
British Virgin Islands	72	426	Rio de Janeiro	74	410

- ◆ All centres in Latin America & The Caribbean fell in the rankings of both depth and quality.
- ◆ Sao Paulo retained its leading position in the region for depth, but has been overtaken by Cayman Islands and the British Virgin Islands in the quality measure.



Headlines – Middle East & Africa

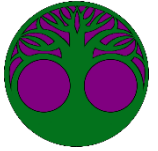


Depth			Quality		
Centre	GGFI 6		Centre	GGFI 6	
	Rank	Rating		Rank	Rating
Casablanca	29	515	Casablanca	26=	508
Mauritius	49	467	Tel Aviv	40=	487
Dubai	50	466	Mauritius	53	471
Cape Town	53	464	Dubai	56	466
Johannesburg	57	460	Cape Town	58=	459
Tel Aviv	58=	459	Johannesburg	68	438
Abu Dhabi	64=	442	Doha	69	437
Doha	74	421	Abu Dhabi	72	425

- ◆ Casablanca maintained its position as the leading centre in the region, although its overall ranking dropped.
- ◆ Tel Aviv held onto second place in the region for quality, but Mauritius has taken second place for depth.



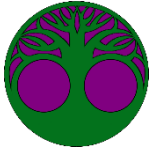
GGFI 6 Conclusions



- ◆ Green finance remains a policy-led field - policy & regulatory frameworks continue to be cited as the most important driver of green finance
- ◆ There is growing confidence in the development of green finance across all regions shown by the increase in ratings across all centres.
- ◆ Green cities do well – where a centre is focused on sustainability across the board, green finance is strong.
- ◆ Long-established centres with a history of fossil-fuel financing tend to fare worse for depth than quality.



Commentary



Professor Michael Mainelli Executive Chairman Z/Yen Group



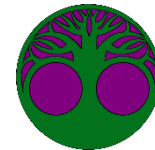


Leading Financial Centres

Centre	Green Finance Depth	Green Finance Quality	Financial Centre Competitiveness
New York	40	24	1
London	4	3	2
Shanghai	13	19	3
Tokyo	19	17	4
Hong Kong	41	40	5
Singapore	30	21	6
Beijing	14	22	7
San Francisco	7	10	8
Shenzhen	22	30	9
Zurich	2	1	10
Source	GGFI 6 Depth Rank	GGFI 6 Quality Rank	GFCI 28 Rank

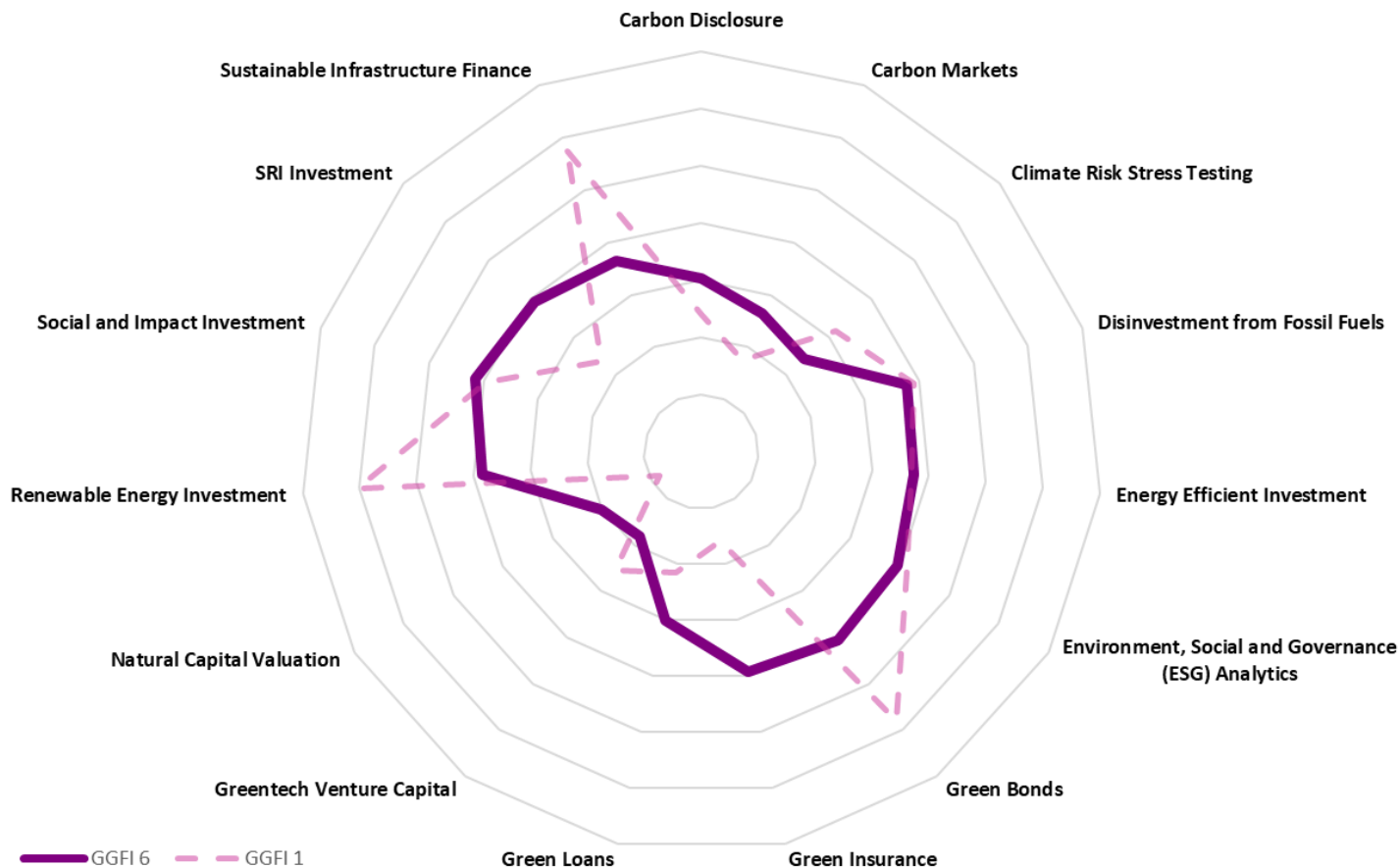
- ◆ Some leading financial centres perform significantly less well than expected in the GGFI.
- ◆ Three centres now feature in the top ten in both the GGFI and GFCI, up from one centre in GGFI 5.





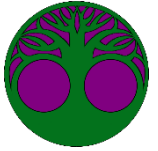
What Is On Practitioners' Minds?

Most Impact on Green Finance



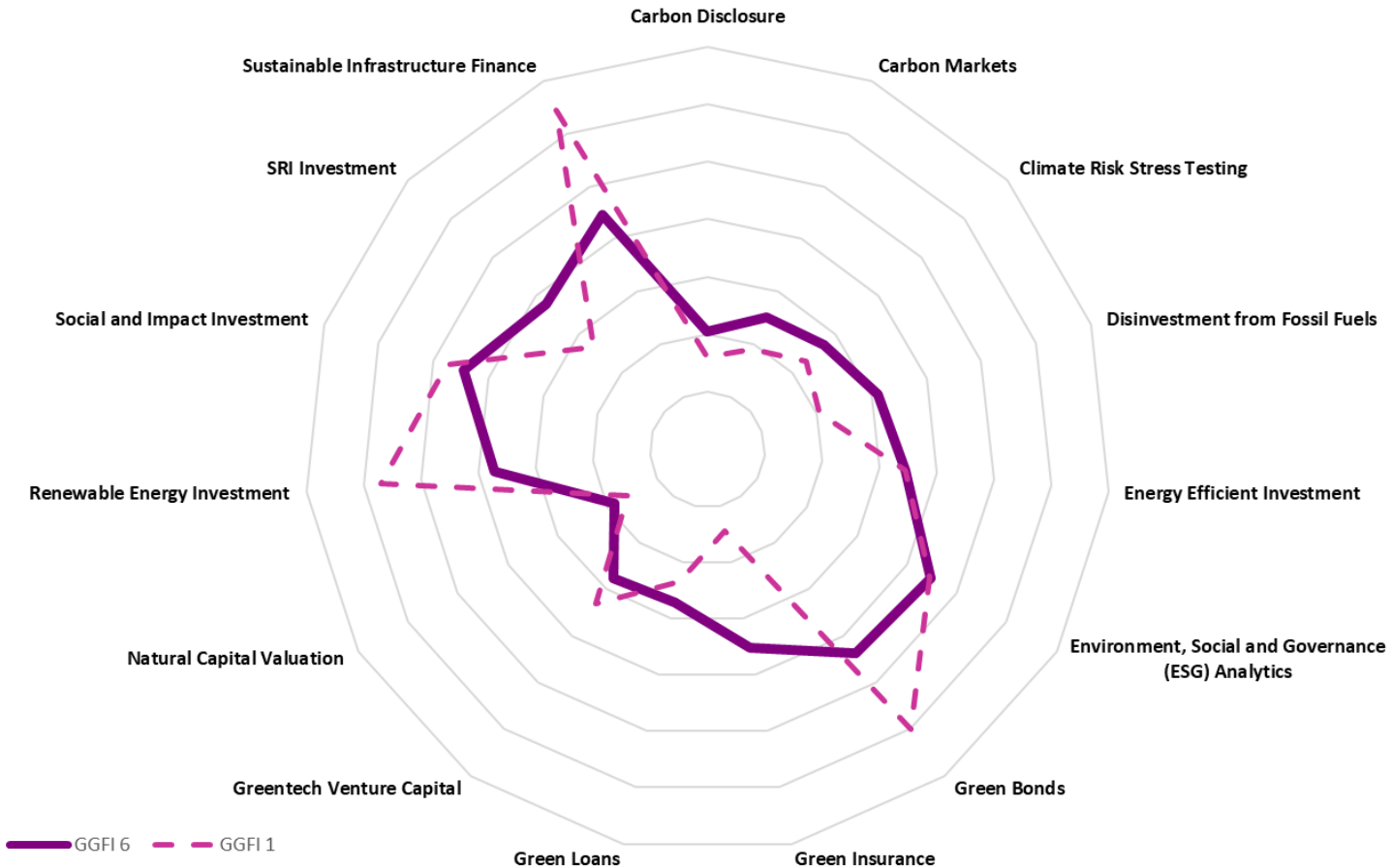
— GGF6 - - GGF1

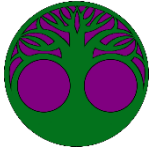




What Is On Practitioners' Minds?

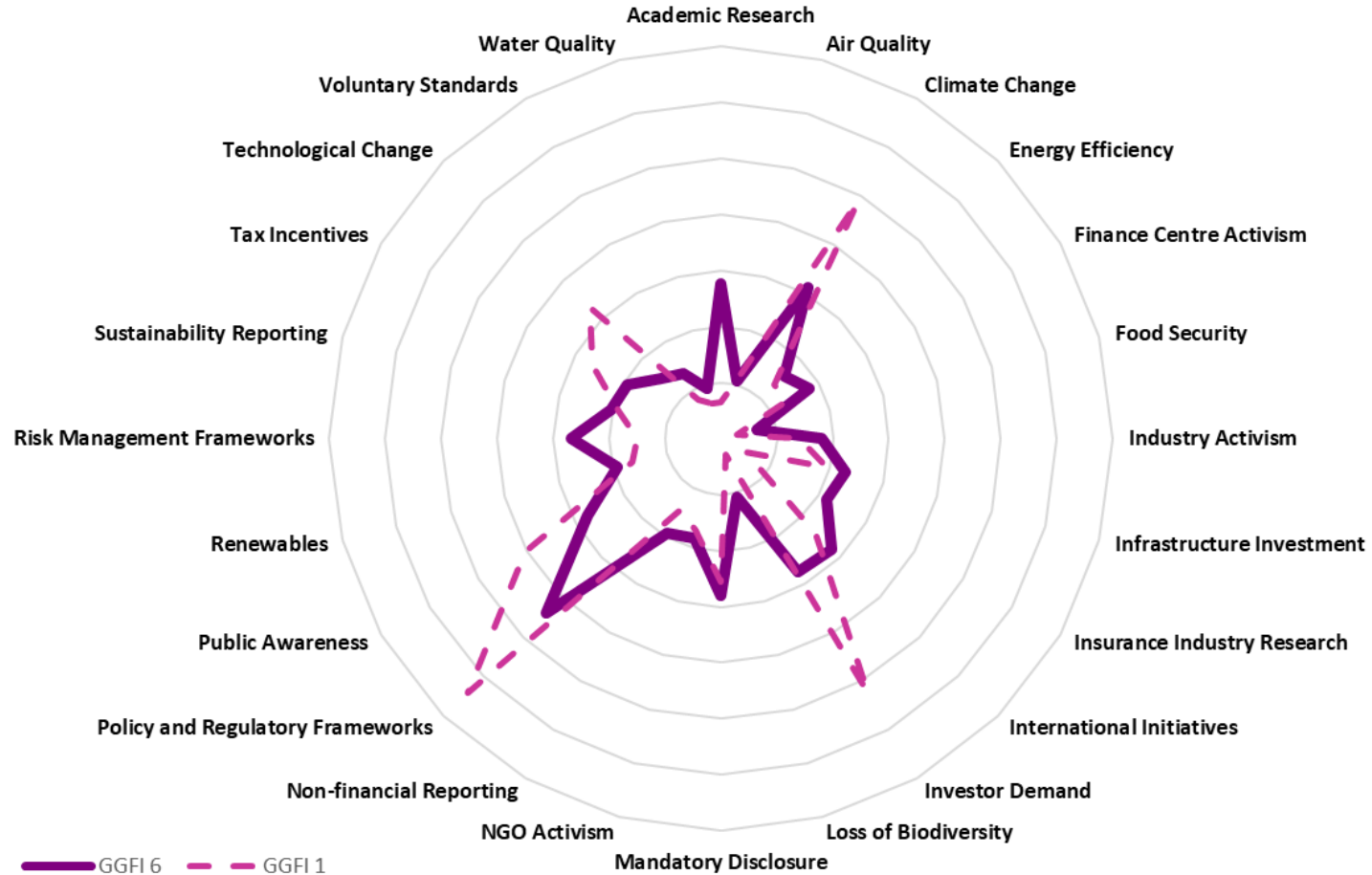
Most Interesting Areas Of Green Finance





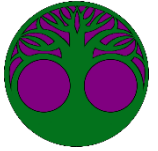
What Is On Practitioners' Minds?

Drivers Of Green Finance



— GGFI 6 - - GGFI 1





Covid-19 And The SDGs

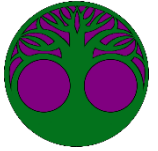
Financial Services Threats And Opportunities To The Sustainable Development Goals



Interconnectivity of goals



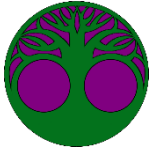
Financial Centre Response To Recovery



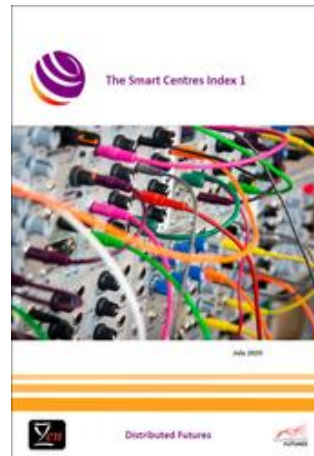
- ◆ **Regulation** – a supportive regulatory environment, which mandates consideration of social and environmental issues in reporting and decision making provides a strong platform for responsible finance.
- ◆ **Innovation** – a framework that supports experimentation and innovation in new products and services which deliver inclusive outcomes.
- ◆ **Leadership and Collaboration** – dialogue between financial centres, between regulators and innovators, and between financial service providers assists in the developments of standards and benchmarks which improve the delivery of inclusive sustainable financial services.



Smart Centres Index



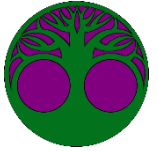
- ◆ Financial centres are looking to the future through investment in sustainability, and in technology.
- ◆ The covid-19 pandemic has brought technology and innovation to the fore across all areas of the economy.
- ◆ We will continue to track green finance and are also tracking the development of technology and innovation through our Smart Centres Index.



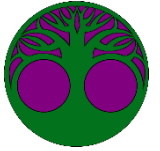
www.smartcentresindex.net



Questions, Comments, Answers



GGFI 7 – April 2021



Global Green Finance Index Ranking The World's Green Financial Centres

Take Part At:

www.greenfinanceindex.net/survey/

