

# GLOBAL POWER

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# HACKATHON

## 2022

## WELCOME!!



## Judges



**Fatos Ismaili**

Microsoft



**Klisman murati**

Pareto Economics



**Emanuel Vila**

EY

# Proceedings

- Informed of the challenges
- Pick team mates (team representative, team name)
- Pick Innovation Challenge
- Hack

How will the world be changed and challenged over the next 100 years?

# Centres of Power

Countries are ranked on our six sub-indices which correspond to our 6 Centres of Power.

The six rankings are then put together to create the Global Power Index.



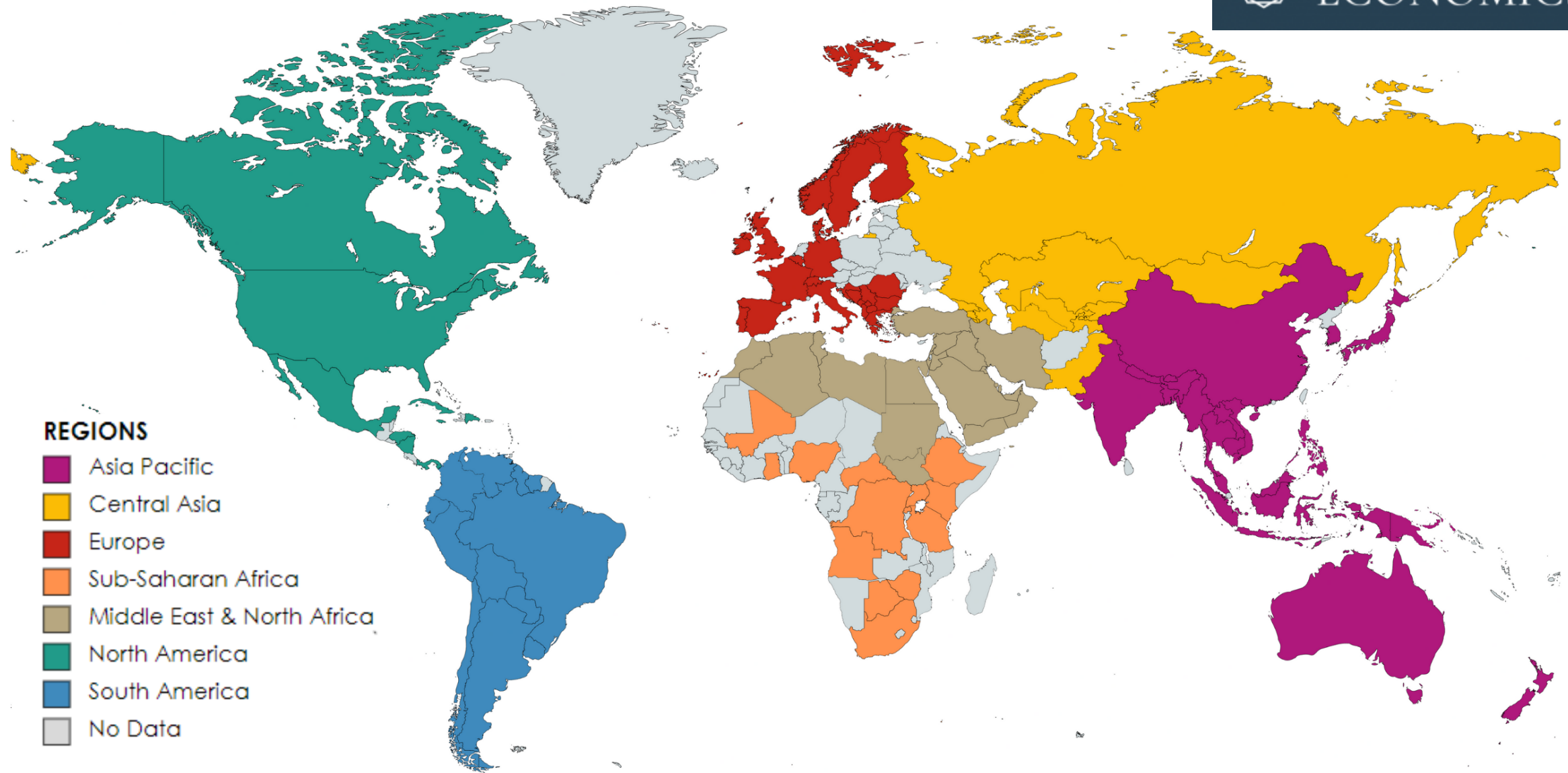
Global Power Index  
(super index)



Sub-Indices



Variables/Indicators



**113 Countries ranked**

		REGIONS							
		Asia Pacific	Central Asia	Europe	Sub-Saharan Africa	Middle East & North Africa	North America	South America	ALL
INDICES	Global Power Index	AP-GPI	CA-GPI	E-GPI	SSA-GPI	MENA-GPI	NA-GPI	SA-GPI	GPI-ALL
	Active Consumer Market Index	AP-ACMI	CA-ACMI	E-ACMI	SSA-ACMI	MENA-ACMI	NA-ACMI	SA-ACMI	ACMI-ALL
	Military Balance Index	AP-MBI	CA-MBI	E-MBI	SSA-MBI	MENA-MBI	NA-MBI	SA-MBI	MBI-ALL
	Technological Leadership Index	AP-TLI	CA-TLI	E-TLI	SSA-TLI	MENA-TLI	NA-TLI	SA-TLI	TLI-ALL
	Geo-Strategic Positioning Index	AP-GSPI	CA-GSPI	E-GSPI	SSA-GSPI	MENA-GSPI	NA-GSPI	SA-GSPI	GSPI-ALL
	Systemically Important Commodities Index	AP-SICI	CA-SICI	E-SICI	SSA-SICI	MENA-SICI	NA-SICI	SA-SICI	SICI-ALL
	Financial Strength Index	AP-FSI	CA-FSI	E-FSI	SSA-FSI	MENA-FSI	NA-FSI	SA-FSI	FSI-ALL
	ALL	AP-ALL	CA-ALL	E-ALL	SSA-ALL	MENA-ALL	NA-FSI	SA-ALL	

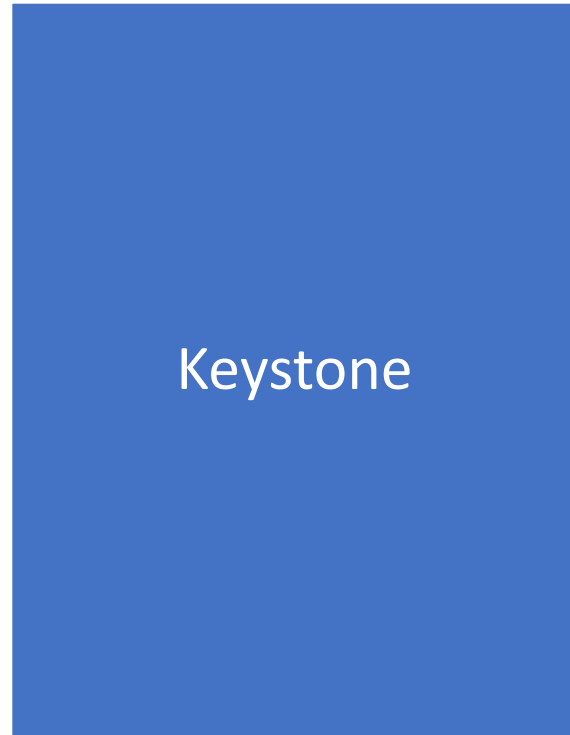
## Index Analytics

Our Index Analytics have 63 cross referenced 'cells' (in blue) to choose from, offering an entirely customisable product experience, which allows you to see the full analytics of 113 countries across our 7 regions and 7 indices.

Each of our cells offers targeted insights to suit your needs.

Explore what each cell offers and purchase only what you find useful and relevant.

# Tasks



Client Facing

Innovation

Innovation

Innovation

Innovation

Developer/back office facing



# Keystone Challenge

## What you are trying to create:

- A client facing dashboard which incorporates features which showcases functionality of the user, (e.g., data sets they want to use to create visualisations)

These should

- include; mock tabs,
- a professional appearance to the dashboard and
- functionality you think a client in the government, corporate and investment sector would like to see.

- visualisations and cross index/cross regional analysis that you as the hacker can create.

These can include

- cross regional/cross index trends
- intra-regional trends and
- forecasting assumptions on the data.

# Innovation Tasks

## Friends & Adversaries

### **What you are trying to create:**

A high-level assessment of the economic, political and social relationships between a target country and their neighbors.

### **Your task:**

Your task is to create a useable interactive ranking framework which is able to measure and calculate a countries relationship with its neighbors. This should incorporate an interactive map and an associated rating system which allows an analyst to incorporate a rating which can assess the relationships between a target country and its radius of neighbors. (Please request an example of a rating system which we can provide as a basis for the creation of your own one).

## Oil/Gas pipeline map

### ***What you are trying to create:***

A measure which reflects the importance of oil & gas suppliers, buyers and transit countries (especially as it relates to pipelines)

### ***Your task:***

Your task is to create a visualisation/metric which identifies only-cross border oil and gas pipelines with insights as to whether the pipeline is dual directional or not and to identify where the pipeline begins, ends and the countries it goes through and to assign a value on a source nation, transit nation and customer nation.



# Commodities mix

## ***What you are trying to create:***

A catalogue of a number of hard & soft commodities which all the countries produce

## ***Your task:***

Your task is to create a commodities map which tracks the production of a number of hard and soft commodities in a country denominated in the commodities type. E.G., bpd for oil.

## ***The commodities include:***

Oil, Gas, Gold, Iron, Copper, Aluminum, Zinc, Manganese, Lead, Nickel, Silver, Graphite, Titanium, Platinum, Tin, Palladium, Molybdenum, Rare Earths, Uranium, Lithium, Sugar, Corn (Maize), Soybeans, Coffee, Cocoa, Cotton, Wheat

## 5G Reediness analysis

### ***What you are trying to create:***

An assessment of the 5G reediness of a country including current 5g infrastructure.

### ***Your Task:***

Your task is to create a mini-index which analysis the wholistic efforts of a country in regards to its current 5G infrastructure.

- Current measures already exist but are limited to analysis a limited number of countries.
- You will have the opportunity to see how other organisations measure the 5G reediness of a country and improve upon this measure and extend it to all 190 countries.
- You will be assessed on the relevance of your variables, the weighting of the variables and the overall accuracy of creating a mini-index which reflects the aims of this task

***Bonus Points:***

As well as completing the task you will receive bonus points if you go the extra mile and create an adjacent innovation which complements the aims of the task. This bonus task will give you the opportunity to get creative with the aim of extracting more value for the analyst.

We have provided a number of complimentary datasets for this bonus task, but feel free to generate your own data or use other data sources.



