

Mapping probable future using KPI trajectories

Creating a picture of the probable future for a given country/area through broad-based research and forecasting of future outcomes based on trajectories.

Description

This is essential research required to clarify the most likely future outcomes (i.e. forecasting) of a broad cross-section of KPIs relevant to the moonshot, based on historical data and estimated trajectories. (Note: Forecasting is meant to provide a crude but informed barometer of change, rather than a highly accurate scientific analysis of future outcomes.)

Suggested time 20 hrs facilitator prep

Level of difficulty High

Materials needed KPI template, broad base of country specific research materials, ppt

Check how we used this in WFP-X:

<https://drive.google.com/drive/folders/13n0c2Prp3ixWRxbjIPsNw2srn9ngk9tN>

https://docs.google.com/spreadsheets/d/1ZiYUC8AKHgBx8uL8m4aTcEsah4iRQ_nQljjKKElpuA/edit#gid=1770603451

Editable excel template for this tool: KPIs for Falsification Criteria [Shared]

Steps

1

Define your KPIs

2

Conduct KPI research

3

Forecast future outcomes

4

Create a visual synthesis

Tool 3/ Mapping probable future using KPI trajectories

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Steps

STEP 1

Define your KPIs

STEP 2

Conduct KPI research

STEP 3

Forecast future outcomes

STEP 4

Create a visual synthesis

KPI trajectories

Your task in this step

1

Define your KPIs and input into template (note: you may need to iterate/refine KPIs throughout exercise based on available data).

2

Conduct KPI research using reputable and, to the extent possible, primary source data.

3

Forecast future outcome for KPI (based on a specified future date (ex. 10yrs) that you will be innovating toward based on available historical data (i.e. look at data points over last 10-20 yrs and use method such as Compounded Annual Growth Rate to estimate probable outcome by future date).

4

Use KPI Trajectory template to create visual synthesis of relative changes we might anticipate.

Tool template

<https://docs.google.com/spreadsheets/d/1cPpDVF4BBjqe4x-4qmS025sdab7hwhqS2cEGYSTs8IU/edit#gid=1770603451>

General		2020	Probable 2030	% Change	Level	Source
Population	Total population	6,702,000	10,700,000	59.65%	DSM	Dar es Salaam, Tanzania Metro Population 1950-2002
Poverty	Multi-dimensional poverty (% of DSM)	9%	6%	-33.33%	DSM	UNDP Report 2017
Gender Development	Gender Development Index	0.93	0.95	1.95%	National	HDI Tanzania
HDI	HDI	0.767	0.869	13.30%	DSM	HDI Tanzania
GDP	GDP per capita in Mill TSh (based on PPP)	22,577,225	31,816,694	40.92%	DSM	GDP/Capita
Infrastructure	Works transport and communications budget	4.96	4.72	-4.84%	National	Ministry of Construction, Transport & Communication
Technology, Entrepreneurship & Innovation	Smartphones as a percent of total handset subscriptions	30%	100%	233%	National	Smart phone penetration
	Innovation Index	26.6	26	-2.26%	National	
	R&D Expenditure (% of GDP)	0.51	0.8211	61%	National	GlobalEconomy.com
	Patent applications by resident	25	625	2500.00%	National	
Education	Tertial school enrollment (% of eligible children)	4	10.64	266.00%	National	GlobalEconomy.com
Climate	Temperature rise (°C)	25.9	26.9-27.9	4-8%	DSM	Climate data
	Rainfall (mm)	1089	925.65	-15%	DSM	Economic impact of climate cha
	Drought	Most recent 2005/2006	up or down	unknown	National	Economic impact of climate cha
	People at risk of flooding in DSM (100 yr flood)	30,000	200,000	567%	DSM	Economic impact of climate cha
Governance	Voice and Accountability: Worldwide Governance Index (WGI) - Percentile rank 0-100	31	24	-23%	National	
	Political Stability and Absence of Violence & Terrorism: Worldwide Governance Index (WGI) - Percentile rank 0-100	16	8	-50%	National	
	Government Effectiveness: Worldwide Governance Index (WGI) - Percentile rank 0-100	13	9	-31%	National	
	Regulatory Quality: Worldwide Governance Index (WGI) - Percentile rank 0-100	16	9	-44%	National	
	Rule of Law: Worldwide Governance Index (WGI) - Percentile rank 0-100	22	15	-32%	National	
	Control of Corruption: Worldwide Governance Index (WGI) - Percentile rank 0-100	27	44	63%	National	



INNOVATION ACCELERATOR