Agricultura y género Estadísticas internacionales

Lunes 16 de octubre 2023

Daniela Benavente, Consultora



Mi experiencia con índices



TOBACCO TRANSFOR INDEX





TRANSITIONS PERFORMANCE **INDEX 2021** Towards fair and prosperous sustainability



The Global Youtl Index 2018

> An asses youth deve



The Global Innovation Index 2013





The Global Innovation Index 2012 Stronger Innovation Linkages for Global Growth

The Global Innovation Index 2011 Accelerating Growth and Development









JOINT RESEARCH CENTRE Institute for the Protection and Security of the C G03: Econometrics and Applied Statistics



Race to Resilience **Metrics Framework**





innovative new tool for assessing, understanding

User's Guide

The Multidimensional

Poverty Assessment Tool:



A do-it-yourself guide in Excel for composite indicator development











Thick Plants

TANKET IMD





SME COMPETITIVENESS OUTLOOK

Connect, compete and change for inclusive growth



European Investment Bank





Recursos en línea

- OCDE/EU Manual para la construcción de indicadores compuestos (2008)
- Competence Centre on Composite Indicators and Scoreboards del Joint Research Centre de la Unión Europea: https://knowledge4policy.ec.europa.eu/composite-indicators en
- 111 índices incluyen a Chile, ordenados por agenda EU y ODS, con foco en Chile: https://composite-indicators.jrc.ec.europa.eu/explorer/explorer/countries-and-territories/cl/chile
- Auditorías estadísticas: <u>https://knowledge4policy.ec.europa.eu/composite-indicators/statistical-audits_en</u>
- Coint Tool en Excel in COINr package: https://knowledge4policy.ec.europa.eu/composite-indicators/toolkit_en





Qué es un índice? Retroalimentación con políticas públicas

SONAMOS, MUCHACHOS!; RESULTA QUE SI UNO NO SE APURA A CAMBIAR EL MUNDO, DESPUÉS ES EL MUNDO EL QUE LO CAMBIA A UNO!

Definición

- Un índice, ó indicador compuesto, es una estadística única que mide un concepto multidimensional
- Resulta de la agregación ponderada de indicadores diversos sobre la base de un marco conceptual y un modelo estadístico.

Uso en políticas públicas



OCDE/EU Manual para la construcción de indicadores compuestos (2008)



Etapas en la construcción de un índice

Participación de partes interesadas (stakeholders)

Fuentes de incertidumbre

- 1. Marco conceptual / teórico
 - 2. Compilación y tratamiento de datos
 - 3. Análisis multivariante
 - 4. Imputación de datos faltantes
 - 5. Normalización / estandarización
- 6. Ponderación
- 7. Agregación
 - 8. Análisis de sensibilidad
- 9. Relación con otros indicadores
- 10. Visualización de resultados

https://composite-indicators.jrc.ec.europa.eu/?q=content/overview Actualización 5 octubre 2017 de Nardo M. & Saisana M. (JRC, 2009)



Realidad práctica (disponibilidad y calidad de datos, bottom up)



Etapa 1: Marco conceptual Debe ser coherente con el conocimiento experto

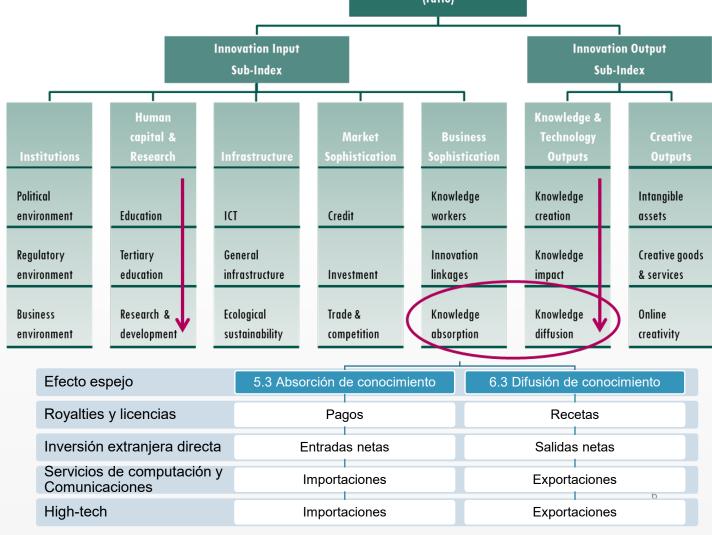
Innovation Efficiency Ratio (ratio)

Global Innovation Index

(average)

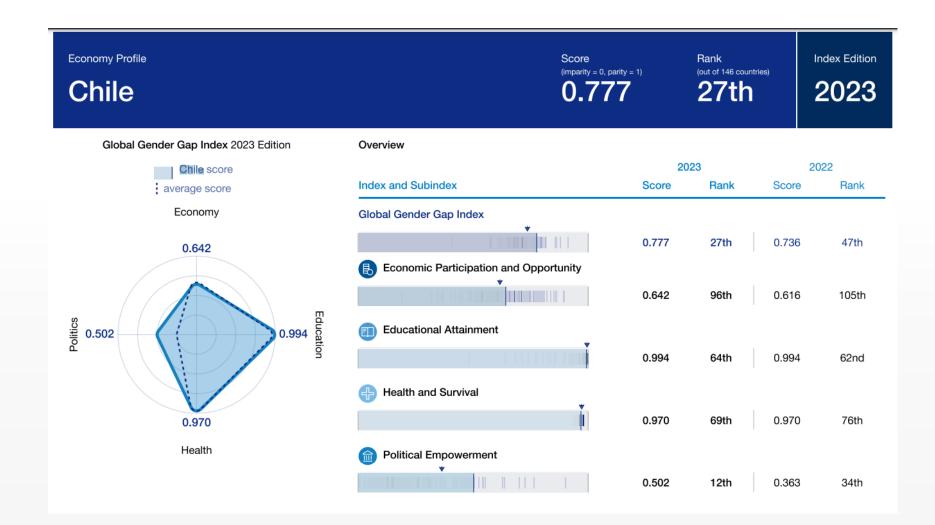
- Criticables y criticados
- Fenómenos multidisciplinarios
 - No hay "1" modelo: existen por ejemplo 23 rankings de universidades (Wikipedia)
 - Mejores practicas, progresión, simetrías.





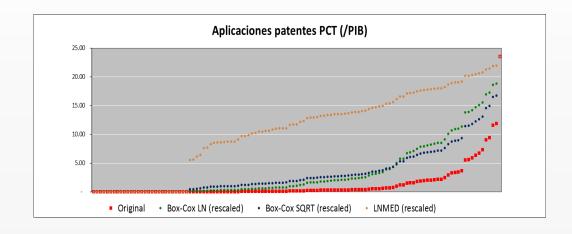
- Gender Gap Report del WEF(brecha de género)
 - Brechas más que niveles: matrícula secundaria mujeres versus hombres, más que calidad de la educación
 - Resultados más que insumos o políticas: mujeres jefes de estado más que duración de duración del postnatal
 - Igualdad de género más que empoderamiento de mujeres: cap de puntaje en 1 cuando hay paridad



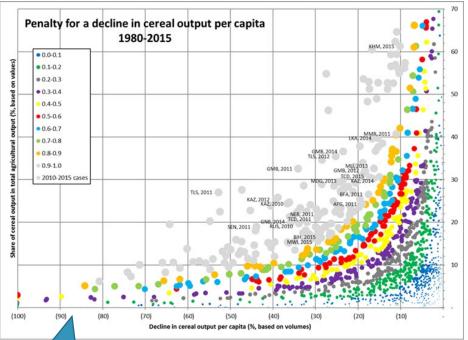


Etapa 2: Selección y tratamiento de datos

- Crítica: "Representación simplista que agrega peras con manzanas."
- Comparabilidad (sesgo?): Ej. Patentes en GII
 - per cápita? USA > CHL > CHN
 - por PIB? CHN > USA > CHL
 - por gasto en I&D? CHL > CHN > USA







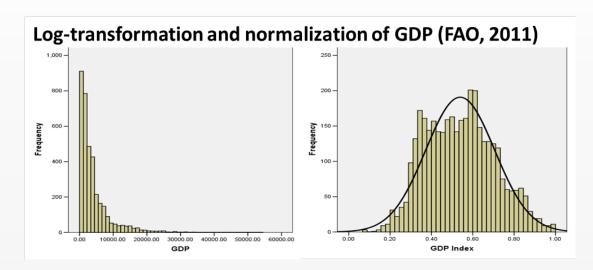
A veces hay que inventar el dato clave FAVIEW de FAO (detalle más adelante)



Etapa 3: Análisis multivariante

Etapa técnica

- Problemas frecuentes:
 - Valores extremos (outliers)
 - Compensaciones no deseadas
 - Distribuciones no-normales
 - Correlaciones negativas
 - ... etc.



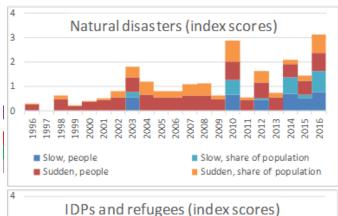


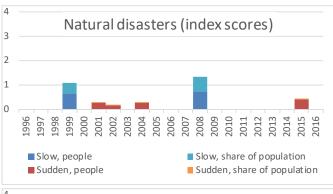
Variance-stabilizing transformations

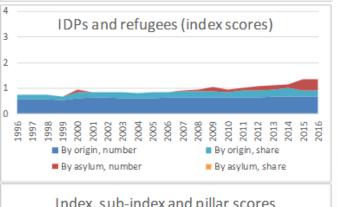
Relationship of σ^2 to $E(y)$	Transformation
$\sigma^2 \propto \text{constant}$	y' = y (no transformation)
$\sigma^2 \propto E(y)$	$y' = \sqrt{y}$ (square root: Poisson data)
$\sigma^2 \propto E(y)(1 - E(y))$	$y' = \sin^{-1}(\sqrt{y})$ (arcsin)
$\sigma^2 \propto (E(y))^2$	$y' = \log y$
$\sigma^2 \propto (E(y))^3$	$y' = y^{-1/2}$ (reciprocal square root)
$\sigma^2 \propto (E(y))^4$	$y' = y^{-1}$ (reciprocal)

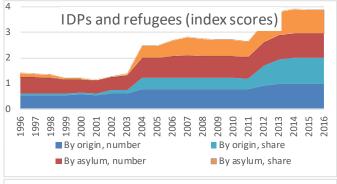
Source: Chen (no date)

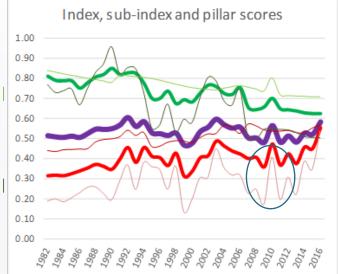
Haití Siria













Etapa 4: Imputación datos faltantes, backcasting

Vulnerabilidad agrícola (FAO)

Uso interno para evaluación de 30 años de ayuda alimentaria

Exposición al riesgo (elementos coyunturales)

Resiliencia (factores estructurales)

Severidad de choques

Factores agravantes

Socia

Económica

Desastres naturales

Personas desplazadas internamente / refugiados



Etapa 5: Normalización y scoring (escala común)

- Métodos más comunes:
 - z-scores (promedio 0, varianza 1)
 - ratios (Cf. mujer/hombre, output/input)
 - min-max en rango ([0, 1], [0, 100], etc.)
- Para ponderar y agregar (index scoring)
- Permite también detectar fortalezas y debilidades



Competitividad PYMEs (ITC)

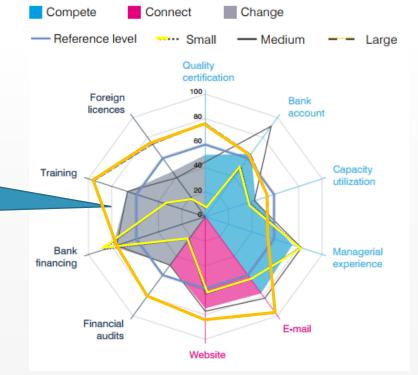
Normalización ad-hoc para efecto visual:
mediana obtiene puntaje 50
Objetivo: visualización de brecha
(pequeñas, medianas y grandes
empresas)

Chile

SME Competitiveness Grid

FIRM CAPABILITIES (Normalized scores)

Compete	Small	Medium	Large	All
International quality certificate	6.8	44.6	76.1	50.4
Bank account	50.0	91.3	62.8	63.6
Capacity utilization	37.8	42.1	53.6	43.2
Managerial experience	81.2	82.2	53.8	74.5
Connect				
E-mail	62.9	82.3	97.1	77.3
Firm website	63.4	77.1	84.4	74.8
Change				
Audited financial statement	22.1	48.8	79.7	48.7
Investment financed by banks	87.3	75.8	76.5	79.0
Formal training programme	34.1	66.5	95.2	66.5
Foreign technology licences	17.3	39.2	73.1	45.5



Etapa 6: Ponderación Contribuciones de indicadores

- Coeficientes: importancia (expertos, encuestas), o definidos con métodos estadísticos
- GII 2013: Análisis envolvente de datos: para detectar estrategias "implícitas" y ventajas comparativas. Cuál es mi mejor ranking si cambio los ponderadores?

GII weights	Institu	utions 0.10	Human capital and research 0.10 Country-sp	Infrastructure 0.10 pecific weights ar	0.10	Business sophistication 0.10 ier (min 0.05 an	0.25	Creative outputs	Efficient frontier rank	GII rank	Diff.	GII 2013 Con mis reg gano yo
Switzerland	0	0.06					0.19	0.19	1	1	-	
Hong Kong (China)	0	0.20	0.05	0.20	0.20	0.19	0.05	0.12	1	7	6	
Singapore	0	0.12	0.19	0.19	0.10	0.20	0.14	0.05	1	8	7	FAID OUT CEDE
Sweden	0	0.20	0.20	0.20	0.17	0.05	0.13	0.05	2	2	-	SÓLO QUE SERÍA
United States of America	0	0.12	0.20	0.05	0.20	0.18	0.20	0.05	2	5	3	Y ENCONTRARSE
United Kingdom	0	0.20	0.20	0.20	0.20	0.05	0.06	0.09	3	3	-	FIN LA VIDA
Finland	0	0.20	0.20	0.20	0.05	0.11	0.19	0.05	4	6	2	DE UNO DEPEN-)
Netherlands	0	0.20	0.12	0.20	0.05	0.20	0.05	0.18	7	4	(3)	DE DE UNO
Ireland	0	0.20	0.20	0.05	0.20	0.12	0.18	0.05	7	10	3	- E
Denmark	0	0.20	0.20	0.20	0.20	0.05	0.06	0.09	8	9	1	
Canada	0	0.20	0.20	0.19	0.20	0.05	0.05	0.10	9	11	2	18
Norway	0	0.20	0.20	0.20	0.05	0.10	0.05	0.20	9	16	7	69m
Luxembourg	0	0.20	0.20	0.11	0.05	0.19	0.05	0.20	10	12	2	
Israel	0	0.05	0.20	0.08	0.20	0.20	0.20	0.07	10	14	4	

eglas



Etapa 7: Agregación Índice v. tablero de bordo (scoreboard)

- Promedios geométricos son menos "compensatorios" que los aritméticos: 2 y 8 promedian 4, no 5.
- Son preferibles los perfiles "equilibrados"



Índice de Desarrollo Humano (promedio **geométrico**)

Vida larga y saludable

Conocimiento (promedio **aritmético**)

Estándar de vida decente

Esperanza de vida [20, 85 años]

Años de escolarización – esperados [0, 18 años]

Años de escolarización – promedio [0, 15 años]

LN PNB per capita (PPP\$) [100, 75'000]

El problema con la agregación de promedios Índice de desarrollo humano ajustado por inequidad (2015)

2021	Valor	Valor	Ranking	Caída en valor	Caída en ranking	
Very high human development						
Panama	0,805	0,640	61	20,5	-19	
Costa Rica	0,809	0,664	58	17,9	-17	
Mauritius	0,802	0,666	63	17,0	-11	
Chile	0,855	0,722	42	15,6	-8	
Argentina	0,842	0,720	47	14,5	-6	
Türkiye	0,838	0,717	48	14,4	-7	
Thailand	0,800	0,686	66	14,3	-2	
Oman	0,816	0,708	54	13,2	-7	
Hong Kong, China (SAR)	0,952	0,828	4	13,0	-19	
Singapore	0,939	0,817	12	13,0	-15	
Spain	0,905	0,788	27	12,9	-12	
Uruguay	0,809	0,710	58	12,2	-3	
World	0,732	0,590		19,4	<u> </u>	
OECD	0,899	0,800		11,0	_	
Developing countries	0,685	0,538		21,5	_	
Latin America and the Caribbean	0,754	0,601		20,3	_	
Very high human development	0,896	0,805		10,2	_	
High human development	0,754	0,627		16,8	_	
Medium human development	0,636	0,481		24,4	_	
Low human development	0,518	0,359		30,7	_	

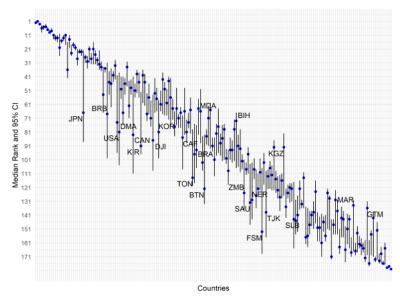
Caída de Chile (entre países de "muy alto" desarrollo humano)



Etapa 8: Análisis de sensibilidad Auditoria estadística

- Objetivo: evaluar qué tan robusto es el índice obtenido, matizar resultados
- La auditoría es a menudo externa e independiente
- O no se hace... o no se publica...

Figure 1. Median ranking of countries and 95% CI across simulations of alternative EPI methodologies.



Auditoría del JRC, Indice de protección ambiental 2022 (universidades de Yale y Columbia)



Índice Mundial de Innovación									
Rankings publicados	Auditoría								
Datos faltantes	Datos imputados								
Promedios aritméticos	Promedios geométricos								
Ponderadores fijos	Ponderadores aleatorios								
Un cómputo	4,000 simulaciones Monte Carlo								
Un ranking	Intervalos de confianza de 90% para rankings								

Source: European Commission's Joint Research Centre, 2022

Notes: Countries with a Q95-Q5 confidence interval of greater than 36 positions are labelled on the plot.

Herramienta Excel y R "Hágalo Ud. Mismo"

- Se puede auditar un índice "a ciegas"?
- Ejemplo: Índice de competitividad de Turquía
 - Marco conceptual: OCDE
 - Datos: Turquía
 - Modelización: analista (yo)
 - Auditoría: piloto de la herramienta "hágalo Ud. mismo" (yo para JRC)



Scores: variable continua, aquí "plana" Rankings: cambios discretos, poca "robustez"

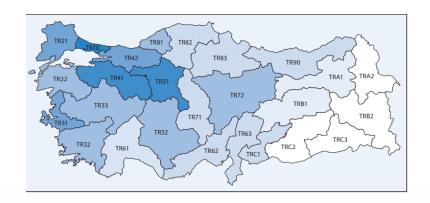
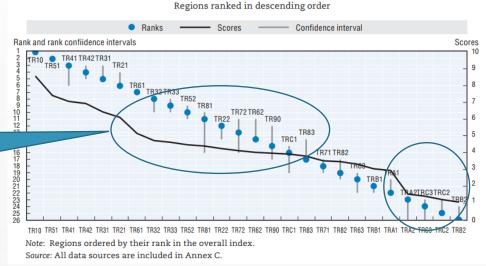


Figure 5. Robustness analysis of rankings in the regional competitiveness index



Etapa 9: Relación con otros indicadores

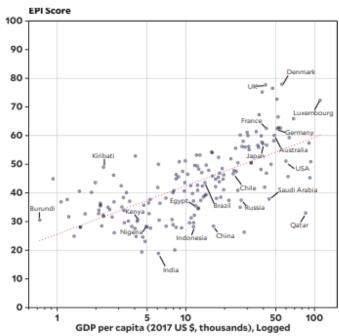
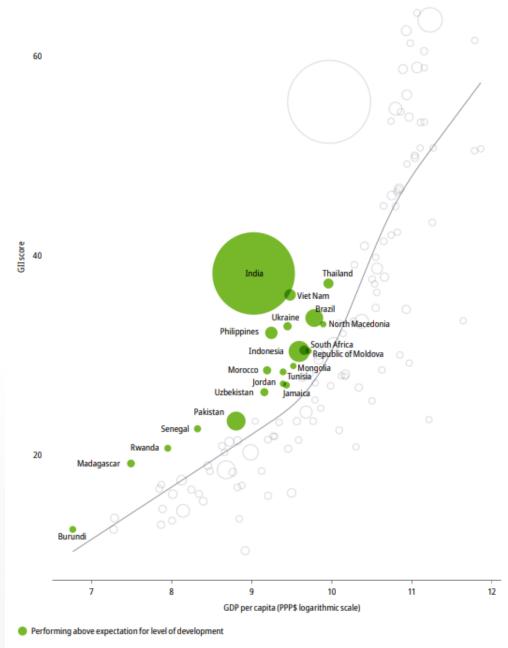


Figure ES-1. EPI scores are correlated with country wealth, although some countries outperform their economic peers while others lag.



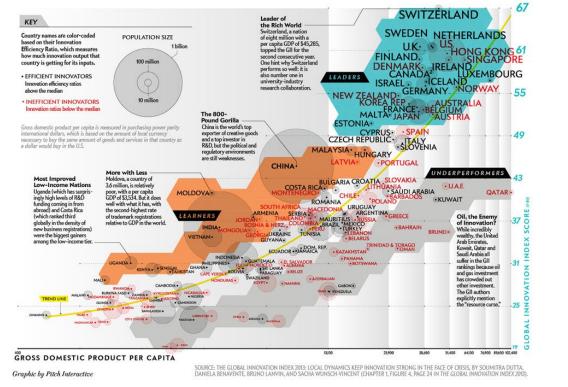
- PIB per cápita (PPP) suele ser muy buen "predictor"
 - Environmental Performance Index
 - Global Innovation Index

Figure 12 Innovation overperformers, relative to their economic development



Source: Global Innovation Index Database, WIPO, 2023.

Note: Bubbles sized according to population. The cubic spline trendline shows the expected level of innovation performance at different levels of GDP per capita for all economies covered in the GII 2023.



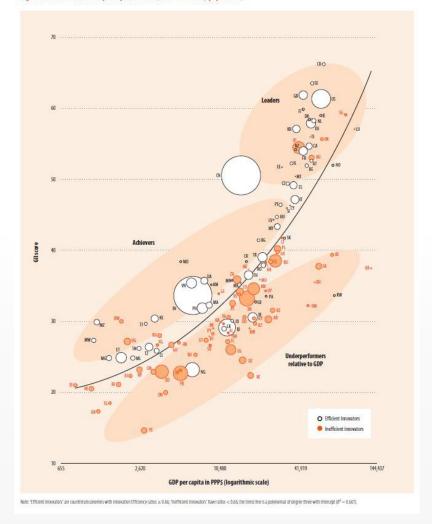
GII original (2015) ↘

←Scientific American

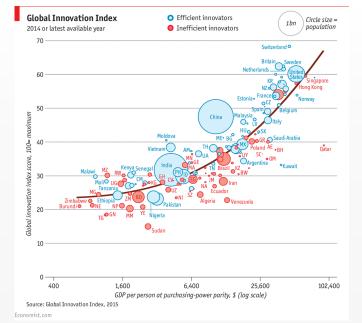
The Economist↓







Etapa 10: Visualización





Preguntas y receso

1/3: Instrumento de comunicación y divulgación con fuerte impacto mediático

SDG Gender Index Score by goal for 2015 and 2020 If historic trends continue, the world won't achieve gender equality until 2108. How is Chile performing on gender equality in the SDGs? The SDG Gender Index covers 144 countries, 98% of the world's girls and women, and 14 of 17 Sustainable Development Goals. It includes 56 indicators capturing gender-related measures across the 2030 Agenda. 2020 Index score Regional Rank out of 144 countries out of 21 countries If current trends continue, a girl born this year will before there are reasonable laws in Chile to protect gender equality at work Find out how old you will be! **Explore the Index Report Explore the Index Data** Follow us on twitter **Best and worst performing indicators since 2015** Extent to which the delegation representing the country at the COP meeting is gender balanced Proportion of women (15+ years) who report Fast progress: Increase by >3 points they are satisfied with efforts to preserve the Some progress: Increased by <3 The extent to which there are legal grounds for Proportion of women (15+ years) who report that points and >1 point they feel safe walking alone at night in the city or area where they live No progress: Less than +1 or -1 change in Proportion of women who have made or received Proportion of women (15+ years) who report they digital payments in the past year are satisfied with the quality of water in the city or Decline or Wrong direction: Decline by more than -1 point

- Los índices permiten:
 - Ordenar marcos conceptuales,
 - Desarrollar estadísticas,
 - Establecer agendas multilaterales,
 - Detectar mejores prácticas,
 - Etc





Gender Gap Report 2023

Indicator	Rank	Score*	Compare with Global average	Difference F-M	♦ Female vs ♦ Male	Min Max
Economic Participation and Opportunity	96th	0.642	0 1	-	Min Max -	-
Labour-force participation rate %	98th	0.677		-22.23	46.67 ◆ ◆ 68.90	0-100
Wage equality for similar work 1-7 (best)	72nd	0.624	1111	-	-	-
Estimated earned income int'l \$ 1,000	101st	0.576		-13.73	18.64♦ ♦ 32.36	0-150
Legislators, senior officials and managers %	92nd	0.436	•	-39.26	30.37♦ ♦ 69.63	0-100
Professional and technical workers %	1st	1.000		4.94	47.53 ♦ 52.47	0-100
El Educational Attainment	64th	0.994	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-	-	-
Literacy rate %	59th	0.999	111111111	-	-	-
Enrolment in primary education %	84th	0.992	1111	-0.82	99.12 ◆ 99.94	0-100
Enrolment in secondary education %	89th	0.991	111111	-0.95	103.16♦ 104.11	0-200
Enrolment in tertiary education %	1st	1.000		15.38	84.10♦♦ 99.48	0-200
Health and Survival	69th	0.970	•	-	-	-
Sex ratio at birth** %	1st	0.944	•	-	-	-
Healthy life expectancy** years	83rd	1.030	•	-	-	-
Political Empowerment	12th	0.502	• • • • • • • • • • • • • • • • • • • •	-	-	-
Women in parliament %	38th	0.550	→	-29.00	35.50♦ ♦ 64.50	0-100
Women in ministerial positions %	1st	1.000		16.67	41.67♦ ♦ 58.33	0-100
Years with female/male head of state (last 50)	18th	0.191	••••	-33.99	8.01♦ ♦ 42.00	0-50





2/3: Oportunidad de colaboración entre partes interesadas (stakeholders)

- Informes emblemáticos (flagships) de los organismos que los desarrollan
 - Organismos internacionales
 - ONGs / think tanks
 - Institutos académicos
 - Firmas patrocinantes
 - Agencias estadísticas
 - Crecientemente fuentes privadas de datos (Google, Scopus, Thomson Reuters, Clarivate Analytics, SCImago, ZookNIC, etc.)



3/3: Herramienta destinada a la acción pública

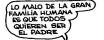
- Punto de partida de un diálogo técnico
- Promoción de una agenda normativa implícita
- Señalar: señalan las ramificaciones multidisciplinarias
- Perfiles: permiten detectar fortalezas y debilidades
- Sub-índices, cuadros, infografías: elementos para comparar desempeño absoluto, en el tiempo, relativo a otros países (regiones, universidades, etc.)



Table 9: FAVIEW treatment of indicators

Code	Weight	Direction of effect	Conceptual framework	Source, scaling, imputation of missing data	Bounds [lower, upper]	Transformation and scores Weighted arithmetic average (WAA) of sub-dimension scores, unless specified
Index			The Food and Agriculture Vulnerability Index for Early Warning (FAVIEW)			
Sub- index	0.6	1	Exposure to Risk Sub-Index			
1.	0.5	1	Pillar 1: Severity of shocks			
1.1	0.4	1	Severity of natural disasters			
1.1.1	0.75	1	People affected by natural disasters		[0, 1]	Average of slow and sudden disaster scores
	2/3	1	Severity of slow disasters (biological, climatological)		[0, 1]	Average of number and share scores
	1/3	1	Severity of sudden disasters (geophysical, hydrological, meteorological, extra-terrestrial)		[0, 1]	Average of number and share scores
	0.5		Total (people)	CRED EM-DAT, blanks replaced by 0 if positive numbers in 1980-2015	[1, 300 million]	$f(x) = \ln(x)$, and 0 scores 0
	0.5	1	Share (per thousand population)	Total divided by population * 1000	[0, 1'000] ‰	$f(x) = \ln(x+1)$
1.1.2	0.25	1	Penalty for a decline in cereal output per capita		[0, 1]	$Penalty = \frac{share \frac{decline}{20}}{20}, \text{ and growth scores 0}$
			Decline in cereal output per capita (%)			$Decline = \left(\frac{Output \ po_t}{Av.output \ pc_{t-1,t-2,t-8}} - 1\right) * 100$
			Cereal output per capita (tons)	Cereal output divided by population		
			Cereal output (thousand tons)	CCBS, no imputation of missing data		
			Share of cereal in agriculture output (%)			$Share = Cereal \ output/Agric. \ output*100$
			Cereals, total gross production value (constant 2004-2006 1000 I\$)	FAOSTAT, imputation for 2014-15		
			Agriculture (PIN), gross production value (constant 2004-2006 1000 I\$)	FAOSTAT, imputation for 2014-15		
1.2	0.6	1	Severity of man-made disasters			
1.2.1	0.8	1	Severity of conflicts		[0, 1]	Average of scores by origin and by asylum/residence
	0.5		IDPs and refugees by country of origin		[0, 1]	Average of number and share scores
	0.5		IDPs and refugees by country of asylum/residence		[0, 1]	Average of number and share scores
	0.5	1	Total (people)	UNHCR ("*" replaced by 2.5 in 2015)	[1, 12 million]	$f = \ln(x)$, and 0 scores 0
	0.5	1	Share (per thousand population)	Total divided by population * 1000	[0, 650] ‰	$f = \ln(x+1)$
1.2.2	0.2	1	Inflation (%)	IMF WEO, no imputation of missing data	[-149, 152] %	1) Inflation of 0 to 3% scores 0 2) $x > 3$: $f = \ln(x - 2)$ 3) $x < 0$: $f = \ln(abs(x) + 1)$
2.	0.5	1	Pillar 2: Aggravating factors			
2.1	1/3	1	Import dependency			
2.1.1	0.5	1	Cereal import dependency ratio (%),	CCBS, no imputation of missing data	[0, 100] %	Import dependency = $\frac{imports\ I-exports\ X}{output\ P+I-X}$, three-year average (t, t-1, t-2)

Code	Weight	Direction of effect	Conceptual framework	Source, scaling, imputation of missing data	Bounds [lower, upper]	Transformation and scores Weighted arithmetic average (WAA) of sub-dimension scores, unless specified
2.1.2	0.5	-1	Energy self-sufficiency (ratio)	IEA, imputation for 2014-15	[0, 2]	Three-year average (t, t-1, t-2), also note that self- sufficiency + import dependency = 1
2.2	1/3	1	Economic diversification			
2.2.1	0.5	1	Ecosystem health [0, 100]	Yale EPI, linear interpolation for 2013, last available data for 2015	[0, 100]	
2.2.2	0.5	1	Agriculture value added (% of GDP)	UNSD, imputation for 2015	[0, 65] %	
2.3	1/3	1	Market access			WAA of 2.2.1 and 1.2.2, multiplied by 1.2 for LLDCs
2.3.1	0.5	-1	Logistics Performance Index (1-5)	WB LPI, linear interpolation	[1, 5]	
2.3.2	0.5	-1	Political stability and absence of violence (std)	WB WGI, linear interpolation	[-3.3, 1.7]	
2.3.3	n/a	1	Penalty for landlocked countries	UNSD, LLDC 1, otherwise 0 (dummy)		
	0.4	1	Resilience Sub-Index			
3.	0.6	1	Pillar 3: Social coping capacity			
3.1	0.5	1	Health and undernourishment			
3.1.1	0.5	1	Under five mortality rate (per thousand live births)	WHO, no imputation of missing data	[0, 330] ‰	$f = \sqrt{x}$
3.1.2	0.5	1	Prevalence of undernourishment (%)	FAOSTAT, no imputation of missing data	[5, 80] %	$f = \sqrt{x}$
3.2	0.5	1	Education			
3.2.1	0.5	-1	Adult literacy rate (%)	UNESCO, linear interpolation	[10, 100] %	$f = x^2$
3.2.2	0.5	-1	Secondary gross enrolment ratio (%)	UNESCO, linear interpolation	[5, 100] %	$f = x^2$
4.	0.4	1	Pillar 4: Economic coping capacity			
4.1	1/3		Economic performance			
4.1.1	1	-1	GDP per capita (current PPP\$)	IMF WEO, no imputation of missing data	[700, 80'000] PPP\$	$f = \ln(x)$
4.2	2/3	1	Resource mobilisation			
4.2.1	0.6	1	Short term debt (% of total reserves)	WB WDI, imputation for 2014-15 only	[0, 1'000] (%)	$f = \ln(x+1)$
4.2.2	0.4		Remittances (index)	Imputation at the index level, only for 2014-15		$MIN\left(\frac{share}{20}, 0.6\right) * \left(1 + MAX\left(-1, \frac{30-growth}{60}\right)\right)$
4.2.2	0.5	1	Personal remittances, received (% of GDP)	WB, no imputation of missing data		
			Growth (decline) in remittances (%)			$Growth = \left(\frac{Remittances_t}{Av. remittances_{t-1, t-2, t-3}} - 1\right) * 100$
			Remittances (current US\$)	WB, no imputation of missing data		
			Total population (both sexes combined)	UNPD, no imputation of missing data		





Recursos en línea - Género

- SDG Gender Index (Equal Measures 2030), 49 de 144: https://www.equalmeasures2030.org/wp-content/uploads/2023/06/Country Profile Chile.pdf
- Gender Inequality Index (UNDP): https://hdr.undp.org/data-center/thematic-composite-indices/gender-inequality-index#/indicies/GII
- Gender Social Norms Index (UNDP): https://hdr.undp.org/system/files/documents/hdp-document/gsni202303pdf.pdf
- Social Institutions and Gender Index (OECD): https://www.oecd.org/stories/gender/social-norms-and-gender-discrimination/sigi/dashboard?country=CHL
- Gender Gap Report, 27 de 146 países: https://widgets.weforum.org/GGGR/edition-23-ranking/pdf/2023/gggr_index_2023_031_CHL.pdf
- Female Opportunity Index, 28 de 100: https://n26.com/en-eu/female-opportunity-index
- Gender Equality Strategy monitoring portal (sólo EU): https://composite-indicators.jrc.ec.europa.eu/ges-monitor



Recursos en línea – Agricultura

- Environmental Performance Index (Yale University), 65 de 180, https://epi.yale.edu/epi-results/2022/country/chl
- Global Food Security Index (The Economist): https://impact.economist.com/sustainability/project/food-security-index/explore-countries/chile
- Notre Dame-Global Adaptation Country Index, 33 de 185 (5 en Vulnerability Food): https://gain.nd.edu/our-work/country-index/rankings/
- Planetary pressures—adjusted Human Development Index (UNDP), Chile -9,4% respect a HDI: https://hdr.undp.org/planetary-pressures-adjusted-human-development-index#/indicies/PHDI
- Green Growth Index (Global Green Growth Institute): https://ggindex-simtool.gggi.org/SimulationDashBoard/country-profile

Conclusión





- Visibilizar tema multi-disciplinario
- Organizar y resumir información
- Fomentar diálogo y colaboración
- Orientar políticas públicas
- Comparar desempeño
- Fomentar compilación de estadísticas
- Difusión y comunicación

- Modelos teóricos a menudo débiles
- Arbitrariedad indicadores y parámetros
- Compensaciones (tradeoffs) discutibles
- Rankings poco "robustos"
- Índices mal diseñados pueden llevar a conclusions equivocadas
- Opacidad



Gracias!