Visualizing Progress Towards the SDGs



Making progress visible



Luis Gonzalez Morales

"Our job is to set the stage to help users get to know the data in front of them to the point they can formulate and respond questions that help them achieve their goals"

Nathan Yau

Vision



Luis Gonzalez Morales

To make more and better data open, accessible, and used to the fullest extent possible in improving people's lives



UNITED NATIONS





Luis Gonzalez Morales

STATISTICAL YEARBOOK ANNUAIRE STATISTIQUE

FIRST ISSUE-PREMIERE ANNEE

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LAKE SUCCESS, NEW YORK, 1949

POPULATION

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4. Infant mortality rates: 1932 – 1947 — Taux de mortalité infantile: 1932 – 1947

[Exclusive of stillbirths. Deaths per 1 000 live births in that year.] [Non compris les mort-nés. Décès par 1 000 naissances vivantes au cours de l'année.]

Deces par visco instances vitalines de cors de l'uninees																
Country — Pays	1932	1933	1934	1935	1936	1937	1938	1939	1940	1941	1942	1943	1944	1945	1946	1947
AFRICA AFRIQUE																
Egypt — Egypte Union of South Africa ¹ — Union Sud-Africaine ¹ .	173.5 68.6	162.5 61.0	166.0 60.8	160.6 62.8	163.8 59.1	165.5 56.6	163.4 51.7	161.2 49.5	161.8 50.1	150.2 50.9	168.4 47.6	160.2 47.3	152.3 42.5	152.8 40.3	35.9	35.2
OTHER AREAS — AUTRES REGIONS																
Algeria [Fr.] — Algérie [Fr.] Europeans — Européens	120.6 88.9 159.0	113.6 84.5 131.5	119.9 90.6 129.8	108.8 82.4 139.4	107.9 76.5 142.3	125.1 2 88.6 154.4	162.5	94.1 83.3 1 <i>57.5</i>	102.7 97.6 162.0	105.9 88.6 	102.7 84.5 163.4	132.6 99.5 153.6 141.6	107.1 103.5 118.0 141.0	108.5 101.0 93.3 188.0	91.9 68.6 94.8 145.2	58.5 113.9
Northern Rhodesia ¹ [U.K.] — Rhodésia du Nord ¹ [RU.]	54.9 37.3	55.4 37.6	44.8 87.1	48.1 45.8	49.2 32.4	50.5 29.7	28.2 38.8 36.8	18.5 45.4 39.4	28.8 40.6 27.2	26.5 42.5 38.6	30.4 40.0 50.1	33.9 39.9 29.3	42.7 44.9 56.1	34.9 35.3 41.2	38.5 30.3 39.4	48.6 38.3 28.6
AMERICA, NORTH — AMERIQUE DU NORD			:												_	
Canada ⁵ Costa Rica Dominican Republic — République Dominicaine El Salvador	73.3 155.1 134.0 83.7	73.1 163.7 141.0 106.8	71.7 135.6 136.2 107.9	71.0 157.0 140.3 100.2	66.1 152.9 48.1 120.3 91.1	75.8 141.7 47.2 133.4 98.7	63.3 121.7 49.8 117.2 101.1	60.7 140.1 49.7 115.6 128.1	56.4 132.4 61.3 120.8 108.9	59.7 123.5 59.8 105.3 107.8	53.8 157.3 51.8 117.5 140.8	53.7 116.8 72.5 110.0 122.5	54.7 125.0 108.6 117.9 115.6	51.3 110.1 90.1 108.0 103.5	46.7 101.6 89.4 113.0 114.5	45.5 84.4 98.9 96.4 109.9
Honduras ⁷ Mexico — Mexique Nicaragua Panama ⁸ United States — Etats-Unis	137.5 9 57.6	92.4 139.3 102.6 58.1	105.8 130.3 107.9	87.4 125.7 105.6 55.7	108.6 130.8 98.6 	101.6 130.8 93.9 54.4	102.4 128.0 92.4 51.0	106.1 122.6 93.5 	108.8 125.7 108.8 47.0	106.2 123.0 103.2 65.3 45.3	110.2 118.2 129.7 76.6 40.4	127.3 117.2 100.4 72.0 40.4	109.0 113.5 112.6 * 66.5 39.8	107.9 92.6 * 68.5 38.3	110.6 101.2 * 60.2 33.8	96.7 101.7 * 51.8 * 32.0
OTHER AREAS — AUTRES REGIONS																
Netherlands West Indies — Indes Öccidentales Néerlandaises							67.6	72.9	89.2	68.1	82.6	41.9	56,1	40.6	41.7	35.9
British West Indies — Indes Occidentales Britanniques Barbados — Barbade	198 141.0 95.6 108.9 96.3	235 149.8 144.9 131.3 94.2	256 131.6 116.2 127.4 105.4	219.9 137.6 101.2 99.4 100.0	198.0 130.8 102.7 96.8 105.7	216.6 118.5 145.3 120.5 112.2	220.9 129.2 132.5 98.4 112.2	193.0 120.6 158.0 103.6 107.7	180.0 111.7 160.8 106.2 112.1	103.9 162.0 108.9 110.9	98.3 120.2 119.0 132.4	93.3 90.5 93.2 107.2	98.8 119.4 80.2 107.7	102.3 102.7 83.9 95.2	89.5 151.0 78.1 103.7	163.4 91.9 97.9 81.5 116.8
Panama Canal Zoné [U.S.] — Zone du Canal de Panama [EU.] Puerto Rico [U.S.] — Porto-Rico [EU.] Virgin Islands [U.S.] — lles Vierges [EU.]	71.0 132.3 133.8	75.8 139.6 157.4	60.5 113.7 97.4	50.4 114.8 170.7	54.4 128.2 105.4	65.8 137.8 124.1	36.7 121.0 132.3	65.3 112.6 101.7	54.5 113.6 136.2	56.0 116.2 112.2	37.9 103.3 101.2	37.8 96.4 83.8	31.2 99.3 101.0	33.7 93.0 124.0	34.7 83.8 91.6	32.1 71.2



The data revolution for sustainable development is here

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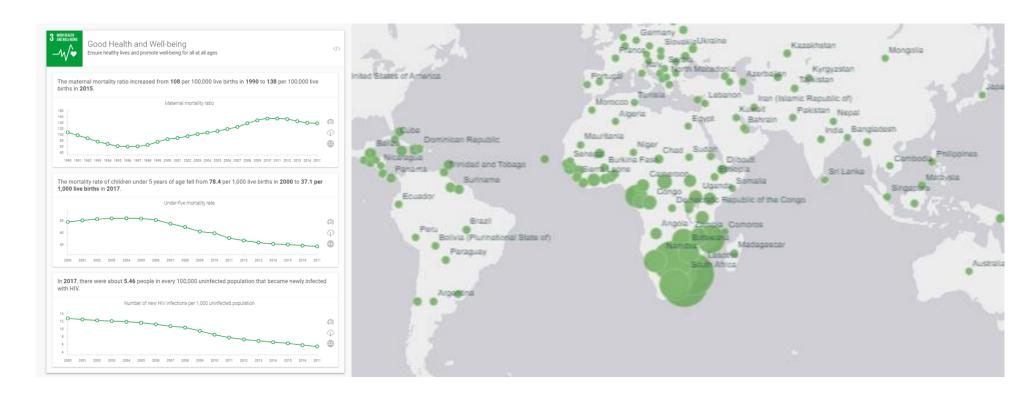
- Today's technology makes huge amounts of SDG data widely and easily accessible
- But data does not have much value in its raw state
- To support effective policy and decision making, what matters are the insights that people derive from it

Seeing is believing



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• Data is much easier to grasp on a visual space







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- Good data visualizations help user identify trends, patterns, and outliers that are not evident from the raw data
- Letting the users' brains find the patterns
 - Understanding changes over time
 - Identifying sub-groups within a population
 - Discovering patterns over geographic regions
 - Finding correlation and plausible causation





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- Exploratory
 - Help us quickly generate multiple views on the same dataset in order to discover significant, meaningful patterns in the data
- Explanatory
 - Help highlight what we've already discovered about the data and to communicate specific insights to a target audience





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- Data visualization is not just about chart and graph design—it also requires explaining the story behind the data
- A standalone chart is not enough to present information to an audience
- The way we design our visualizations will affect how users interpret the underlying information





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- We need to know our source material to build a good visualization
- Only after we know that the data is accurate and reliable, we can move on to story telling and visual representation
- Data checking and verification is one of the most important parts of graph design

Infographics: combining text, pictures and data visualizations

"Converting complex bodies of knowledge into visual form is a high art." Sandra Rendgen

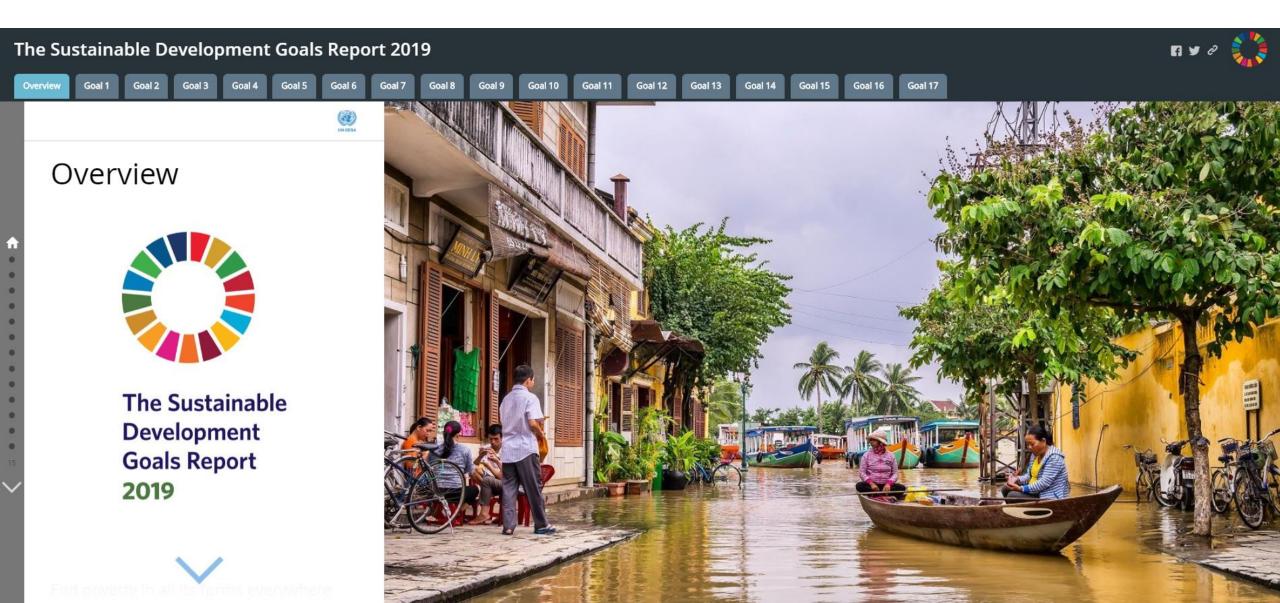
Some examples ...



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SDG Country Profiles

Q Select a Country

Colombia

- 1 No Poverty
- Zero Hunger
- 3 Good Health and Well-being
- 4 Quality Education
- 5 Gender Equality
- 6 Clean Water and Sanitation
- 7 Affordable and Clean Energy
- 8 Decent Jobs and Economic Growth
- Industry, Innovation and Infrastructure
- 10 Reduced Inequalities
- 11 Sustainable Cities and Communities
- Responsible Consumption and Production
- 13 Climate Action
- 14 Life Below Water
- 15 Life on Land
- Peace and Justice Strong Institutions
- 17 Partnerships for the Goals





Today's national statistical systems are shifting towards a platform model of value creation

Modern data visualization platforms



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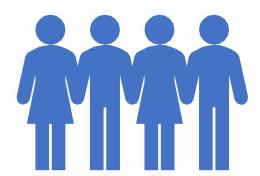
- Interactive engagement with all SDG data stakeholders
- Leveraging web-based technologies to help users
 - Discover
 - Access
 - Explore
 - Share
 - Use

Collaborative data visualization

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 Bringing together ideas contributed by many independent participants







Welcome to the Open SDG Data Hub

To fully implement and monitor progress on the Sustainable Development Goals, decision makers everywhere need data and statistics that are accurate, timely, sufficiently disaggregated, relevant, accessible and easy to use. The Open SDG Data Hub promotes the exploration, analysis, and use of authoritative SDG data sources for evidence-based decision-making and advocacy. Its goal is to enable data providers, managers and users to discover, understand, and communicate patterns and interrelationships in the wealth of SDG data and statistics that are now available.

