

## **Communication Support**

# **Data Viz and Data Stories**Statistics South Africa





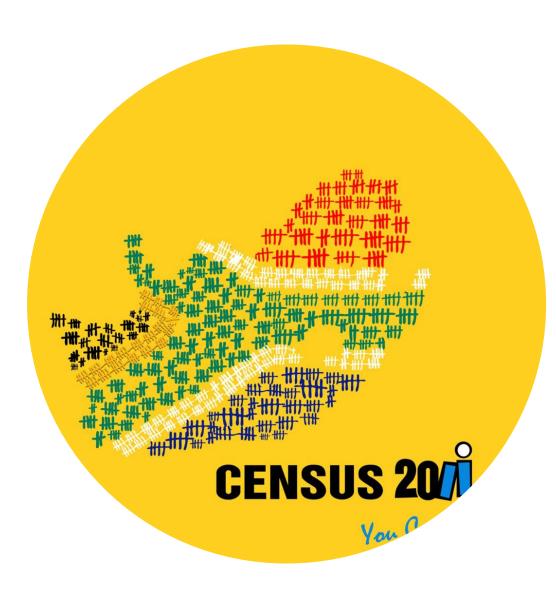


facebook.com/StatsSA

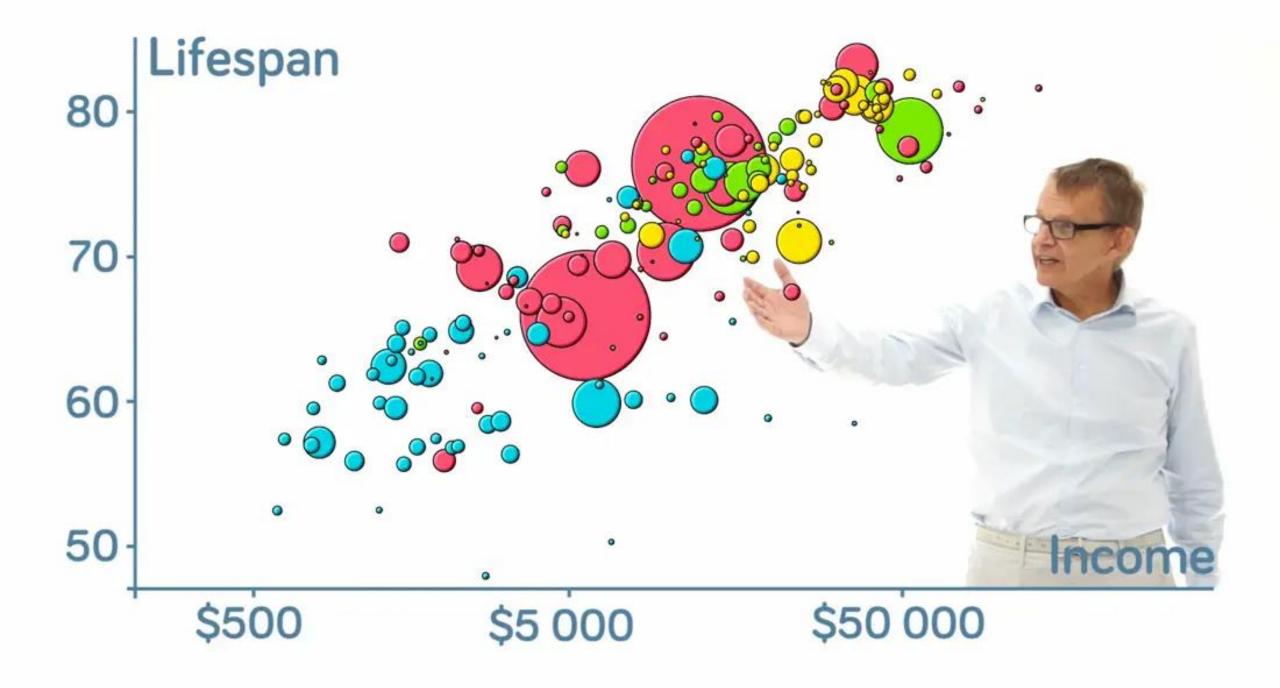


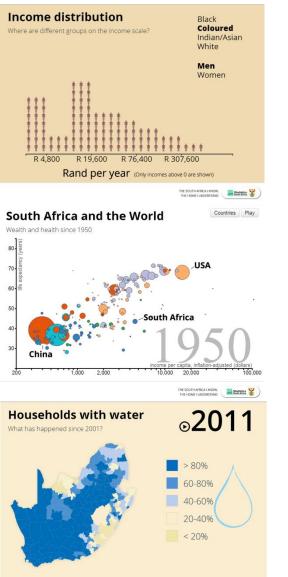


## Origin Story?/Turning Point



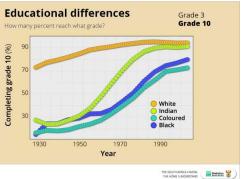








## Electricity 85% of households had access to electricity Population in our cities 9% 7% 7% 6% Ekurhuleni 6% Nelson Mandela Bay 2% **Buffalo City** 1% THE SOUTH AFRICA I KNOW, THE HOME I UNDERSTAND **Educational differences** Grade 3 Grade 10 How many percent reach what grade?



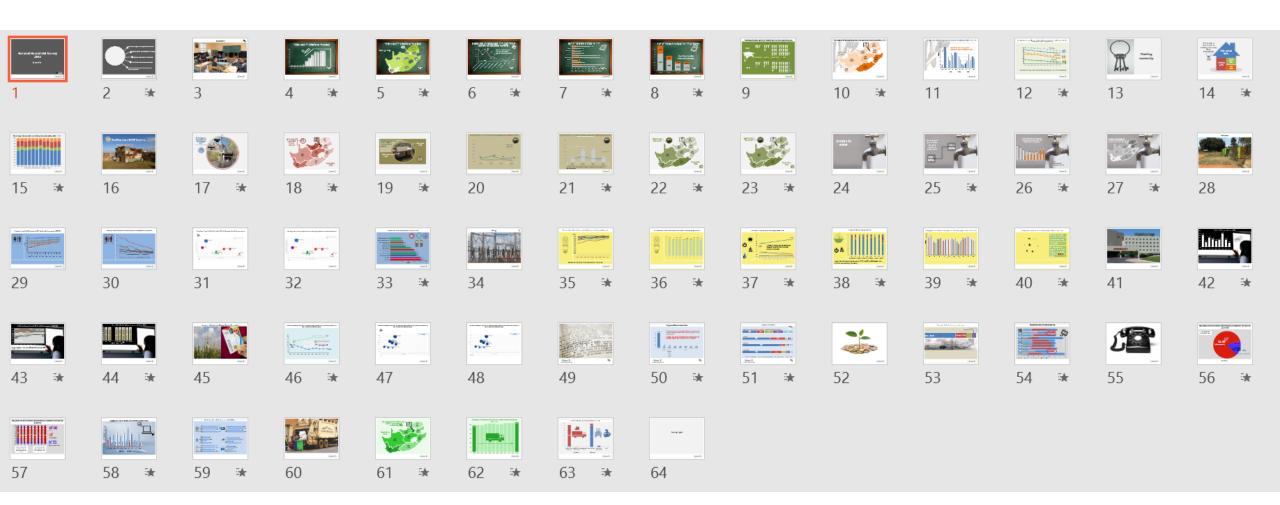
#### IMPROVING LIVES THROUGH DATA ECOSYSTEMS

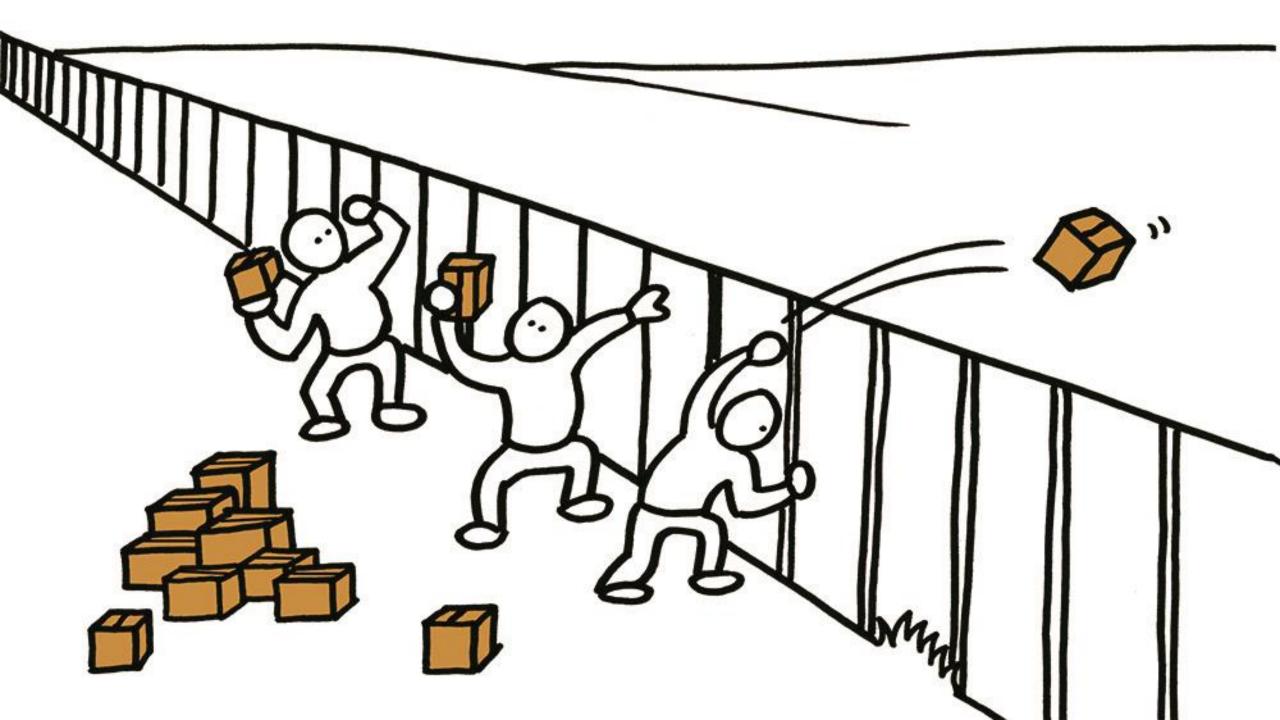
THE SOUTH AFRICA I KNOW,
THE HOME I UNDERSTAND



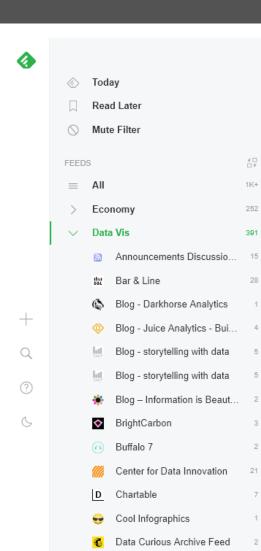


#### Grasshopper you have much to learn!!!!





#### Self Taught /Community Taught

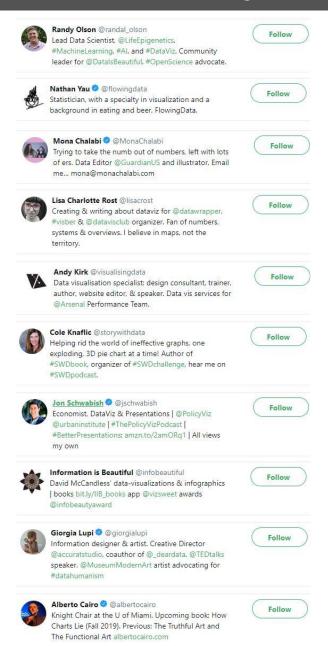


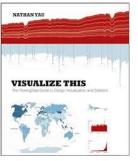
Data Revelations

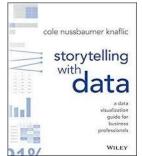
Datawoi

Depict Data Studio

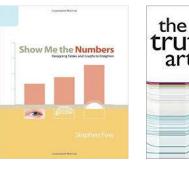
DataPlusScience.com

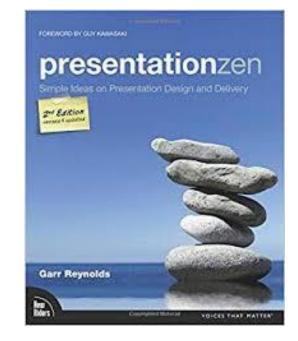






alberto cairo

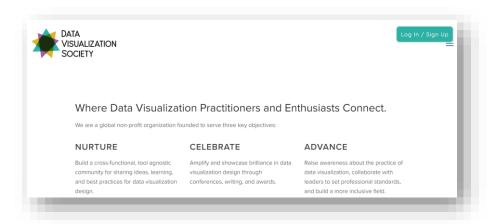


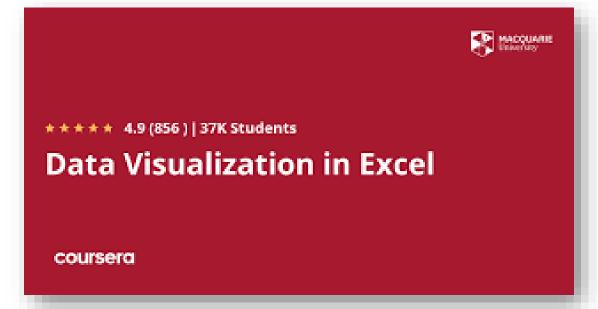




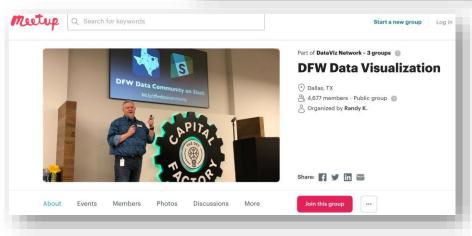


## Self Taught /Community Taught















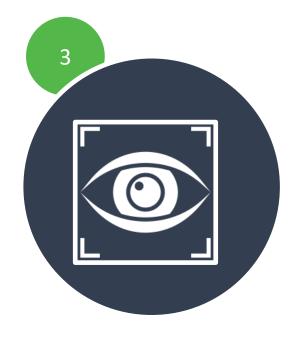
JIMPHICDESIGNS.COM



Correct visual for your data



Less is more: Go minimalistic on your visual

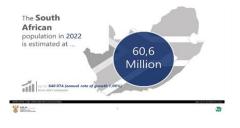


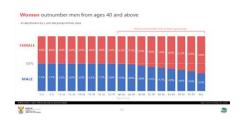
Focus the eye on where your key message is

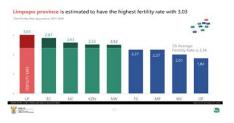


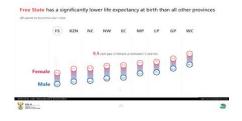
Link text to your visual story

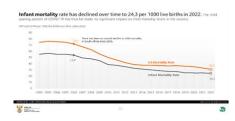
## Keeping up with modern graphical trends

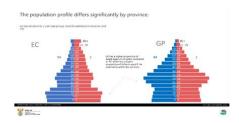


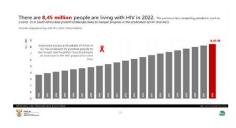


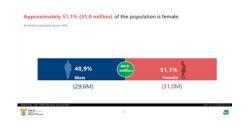


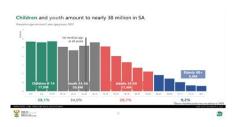




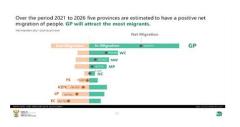


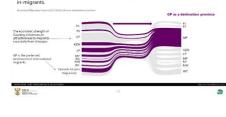




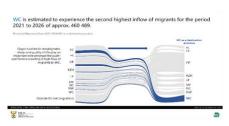








GP is estimated to experience the largest inflow of migrants of approx. 1 443 978





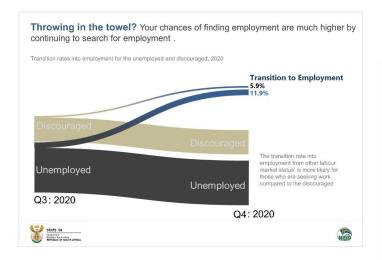


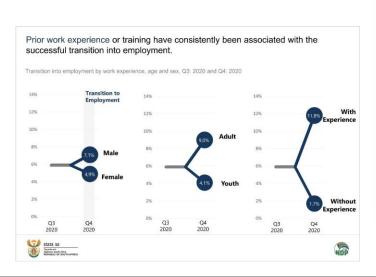


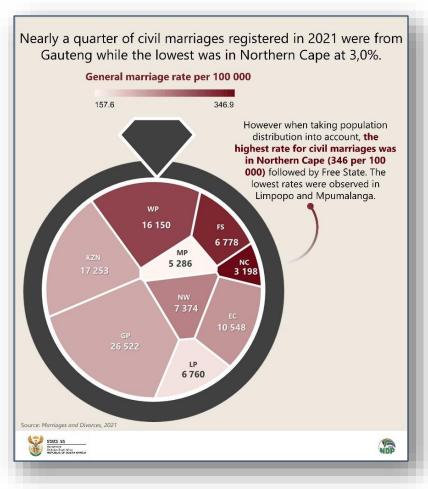


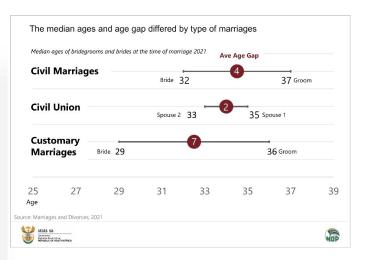
## And sometimes being fun 😌

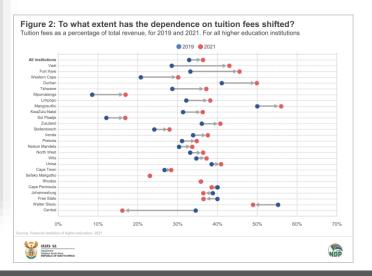
















#### Leveraging the content created

#### **Data Visualisation**

Creation of engaging visuals to support the core statistical message (Presentations etc)

#### **Data Stories**

Long Reads (Data Stories) that delve deeper into a particular statistical subject, using journalistic principals for greater engagement with the data

#### **Audio Visual**

Quick Audio (Sound bites) and Video that can be immediately shared on Social Media and internal platforms

#### **Graphical Content**

Creation of graphics that work well on a variety of social media platforms

#### **Extended Usage**

SG Media Engagements

Stakeholder Sessions

**Media Use** 

**Internal Comms** 













#### Data Story Requirements



Articles with less than 700 words

Present
interesting
narratives related
to a topic or
publication

Introduce visitors to statistical data through a non-technical thought-provoking story

As a public organisation, it is important that our content is understandable and accessible to all users.

Research shows that all users want clear, accessible, jargon-free content, written in plain English. This is regardless of their level of knowledge or expertise.

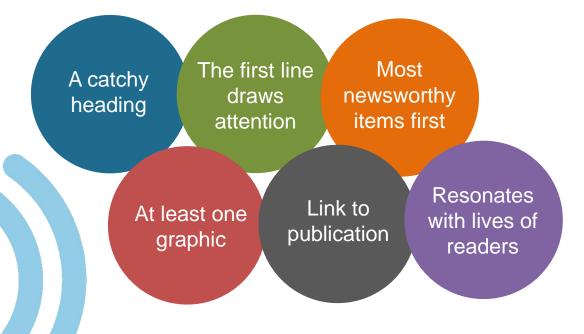
Users want to be able to find the information they need as quickly as possible. The average user on the Stats SA website spent an average of 2 minutes on a page.





A data story is .....

**NOT Key Findings** 



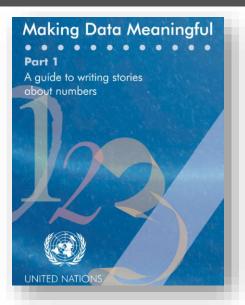
A story tells the reader briefly **what you found and why it is important to the reader.** 

Focus on how the findings affect people. If readers are able to *relate the information to important events* in their life, your article becomes a lot more interesting.





## Draw on old and recent knowledge



#### **Selected tips from the United Nations**

- Provide the story behind the numbers in an easy-tounderstand, interesting and entertaining fashion
- Pretend you are explaining your findings to a friend who is unfamiliar with the subject or statistics
- Focus on one or two findings
- Write for a busy, time-sensitive reader
- Possible themes to focus on:
  - Current interest (policy agenda, media coverage, etc.)
  - Reference to everyday life (food prices, health)
  - Reference to a particular group (teens, women, the elderly, etc.)
  - Personal experiences (transportation, education, etc.)
  - Holidays (Christmas, etc.)
  - Current events (statistics on a topic frequently in the news)
  - Calendar themes (spring, summer, etc.)
  - New or unexpected findings
  - A regular series ("This is the way we live now")



#### The Information Society

An International Journal





Data storytelling is not storytelling with data: A framework for storytelling in science communication and data journalism

Sorin Adam Matei & Lucas Hunter

To cite this article: Sorin Adam Matei & Lucas Hunter (2021) Data storytelling is not storytelling with data: A framework for storytelling in science communication and data journalism, The Information Society, 37:5, 312-322, DOI: 10.1080/01972243.2021.1951415

To link to this article: https://doi.org/10.1080/01972243.2021.1951415

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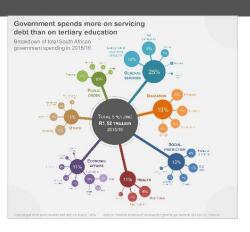
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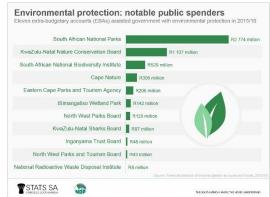


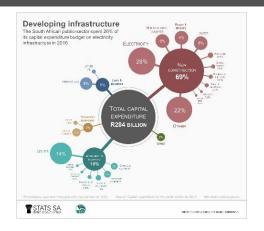


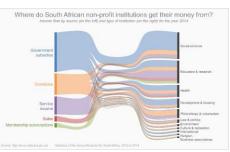
## Data stories are often accompanied by infographics

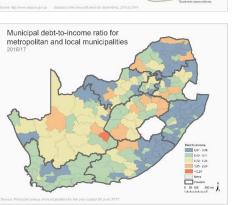


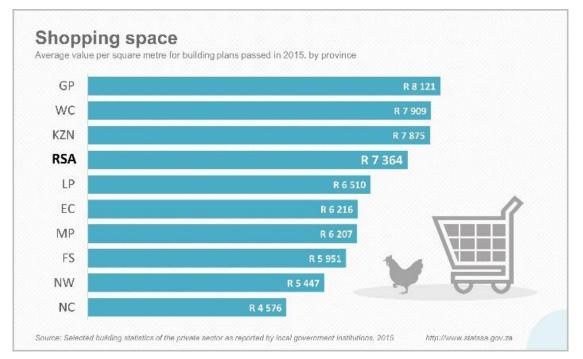




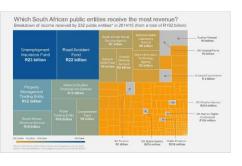








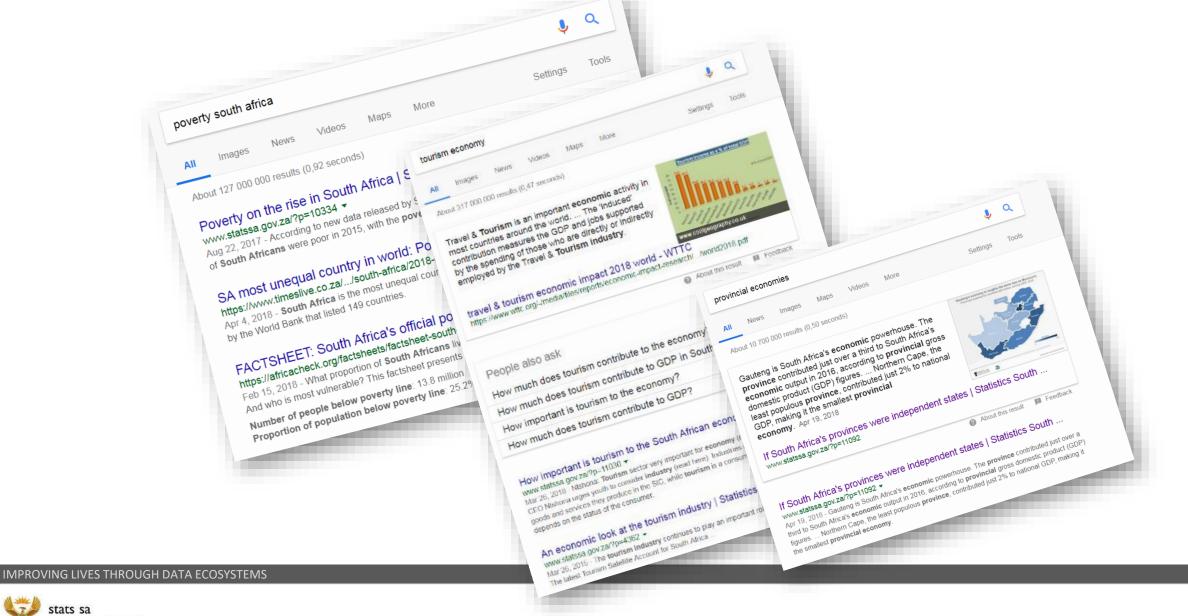








## Search engines: Data Stories obtain top rankings for certain search terms





#### Example: Data story on Chocolate





Data Stories in particular allow an accessible overview of a statistical release, aimed at being easily readable and designed to be picked up by the media for further use

Home Find Statistics Publications Census Suppliers About Us Field Staff

Home / Articles / The secret life of a slab of chocolate

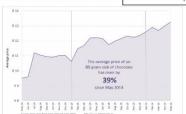


#### The secret life of a slab of chocolate

You might celebrate World Chocolate Day today (7 July) by sitting back and feasting on your favourite slab of sugary goodness. At Stats SA, we love our chocolate. But we also love data and all things statistical. So, to honour today, we've teased out a few facts about the price of chocolate that you, as a chocoholic, may find interesting.

Stats SA has already delved deep into the data to give you insight into the price behaviour of beer and cake. Now, we turn our attention to an 80-gram slab of chocolate.

Ready for the bad news? The average price of an 80-gram slab has risen by 39% over the last two years. You would have paid an average price of R9,52 for a slab in May 2014. Now, in May 2016, a 1 Desk 22 Sept.docx ck R13,27.



Our humble 80-gram slab has risen in price faster than sugar, sweets and dessert products in general (+21%), meat (+12%), bread and cereals (+19%), fruit (+16%), vegetables (+20%) and hot beverages (+23%)<sup>1</sup>.

#### Publication Schedule Updated

13 Jun, Mining: Production and sales14 Jun, Retail trade sales

15 Jun, Statistics of civil cases for

#### THE

Manufacturing: Production and s.. Residential Property Price Inde... Gross Domestic Product (GDP)

#### more »

#### Recent Articles/Stories

Stats Biz - May 2023

Recently Published

South African economy expands by

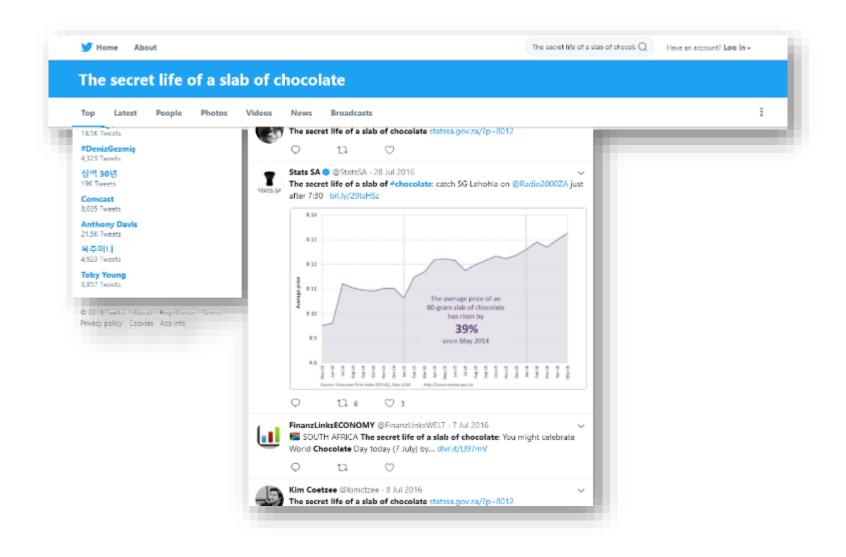
Economic wrap-up for May 2023

Statistics South Africa to release the Gross Domestic Product (GDP Q:1 of 2023





## Works well with our growing social media audience









# PE the sweetest bar none

#### East Cape offers chocoholics biggest bang for their buck

Lee-Anne Butler and Roxanne Henderson butled in timesmed account

HE Eastern Capo has proved it the baz - A chocolare bor, that is and in this case,

Although you cannot sugar coor the fact that South Africa's chocolate priess have pone through the root in the past two years, chocoholics in the province still get a lot more. bar for their back, with chooslate prices so low they can buy enough of the treat to be worthy of the portmanteen.

That is according to data released by Statistics South Africa this month, detailing the secret life of your 80g slab of chocolate.

But with major monutacturers blo Nestle South Africa producing its chocolate and confectionery products in East Londoe and Mondelez South Africa producing Cadbury chocolates and confectionery products at its North End factory in Port Elizabeth - transportation costs in the province are minimal.

The data shows that, on average, chocolate prices have risen by 39% over the past two years - ahead of sugar, sweets and desport products in general, which were up 21%.



SWEET TREATS: Kyle Jones, 19, at Ganache Patisserie and Checelatier in Baywest Mall Picture: FREDLIN ADRIAAN

price of an 80g slab was R9.52. compared with R13.27 in May this year. This means it has ri- beverages, up by 23%. sen in price faster than meat.

May 2014, the average up 12%; bread and cereals, up by 19% fruit, op by 16%; vegetables, up by 29%; and hot

The average price of a slab of tor comment before deadline.

Chocobolics in Moumalanga were not so lucky. They were paying R13.58 for an 80g slab. In most other provinces in May, prices were above R13:

In KwaZulu/Natal, the aw orageptice was R12.87;

. In the Free State, the av erage price was R13.15: In the North West, the av-

orage price was R13.32; . In the Northern Cape, the

average price was RE3.32. . In the Western Cape, the

verage price was R13.49, and . In Gauteng, the average

rice was R13 50. No data was available to

Thomas Marais, co-owner or anache Patisserie and Choro latter at Paywest Mall, said the avernor price of an 80e slab ould be lower in the Eastern Cape became Codbury products were produced in Port Elizabeth and Nestle in East London.

"I think that I lower transpor outs] would be the major conributing factor," he said.

But 80g slabs and own 60 labs could cost up to 800 each more exclusive artisonal chocolatiers, because of the amount of cocoa butter used.

"The more cocoa butter, the better the texture and more expensive the chocolate.

Nostle 5A and Mondolog 5A could not respond to requests

The Herald 28 July 2016

## EC sweetens cost of chocolate bar

By LEE-ANNE BUTLER and ROXANNE HENDERSON

THE Eastern Cape has proved it knows how to set the hur - a chocolate bar, that is - and in this case, the lower, the sweeter.

Although you can't sugar enat the fact SA's chocolate prices have gone through the mof in the past two years, chocoholics in the province still get a lot more bar for

their buck with chocolate prices so low they can buy enough of the treat to be worthy of the title.

That's according to data released by Statistics South Africa, detailing the secret life of your 80g slab of chocolate.

But with major manufacturers like Nestle South Africa producing their chocolate and confectionery products in East London and Mondelez South Africa pro-

ducing their Cadbury chocolates and confeetionery products in Port Elizabeth - transportation costs in the province are minimal.

The data shows that on average chocolate prices have rusen by 39% over the past two years ahead of sugar, sweets and dessert products in general, which were up 21% in the same period.

In May 2014, the average price of a 80g slab

was R952, compared sitting above the R13 with an average price of R13.27 in May this year

This means the chocolate bar has risen in price faster than meat, which was up 12%; bread and cereals, up by 19%; fruit, up by 16%; vegetables, up by 20%; and hot beverages, up by 23%.

The average price of a slab in the Eastern Cape in May was R11.55.

In most other provinces in May, prices were mark

Artisanal chocolaties Ela van Coillie Vosloo who makes fine Belgian chocolates through her business, Stukia, sald she believed Eastern Cape prices were lower due to transport costs being kept to a minimum.

Vosloo said artisan chocolatters use higher percentages of cocoa butter which would also impact the price.

Daily Dispatch 28 July 2016





## Beyond traditional dissemination methods?

I just put our long statistical report up on a buried web page in a format that requires it to be downloaded. Yet for some reason, nobody is reading it.

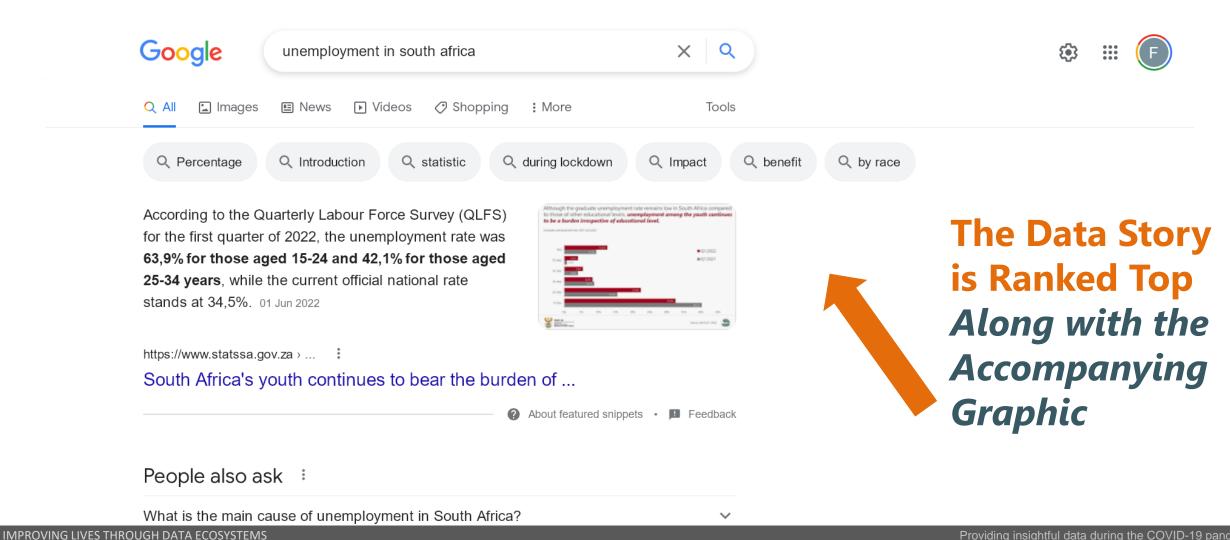








## Data Stories and Visualisation rank highly on search engines

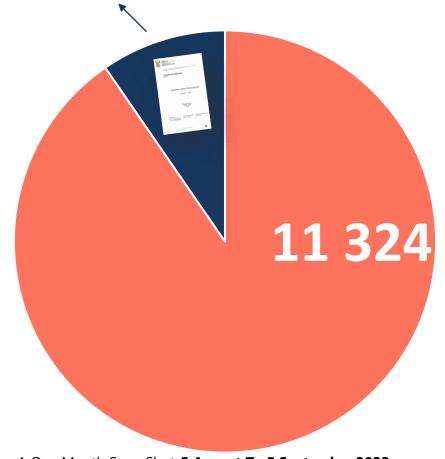






#### QLFS Q1 2022 Data Story vs PDF Downloads

#### **1202 PDF Downloads**



11 324 Unique Page Views
For the Data Story



A One Month Snap Shot 5 August To 5 September 2022

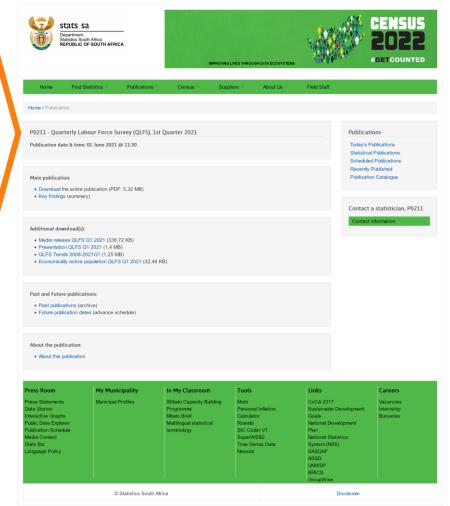




#### QLFS Q1 2022 Data Story vs Release Page

# 51,76% of pageviews (internal traffic) to the release page came from the data story

#### QLFS Q1 2022 Release Page



A One Month Snap Shot 5 August To 5 September 2022





## Creativity and Numbers/ MINDSHIFT

#### What goes into this

Statistical Objectivity

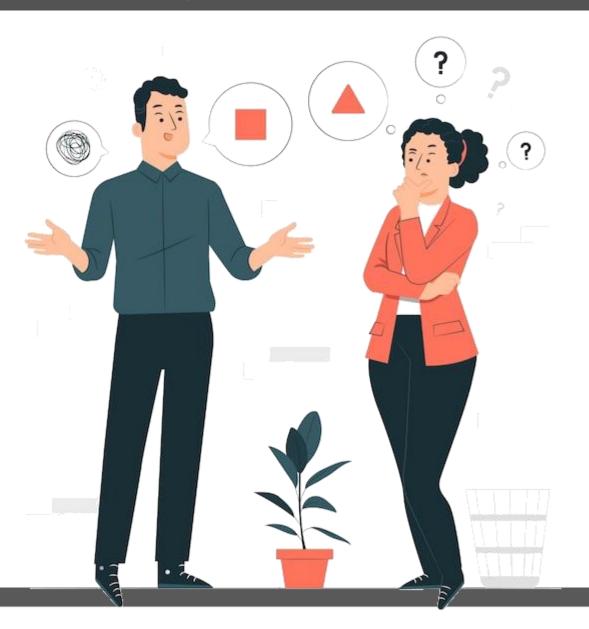
Data Analysis and Exploration

Journalistic principals

Design (Human Centric)

Research (Contextual)

Novelty



# What *some* people see and believe we do

mmm " Pretty Pictures? "







Data Visualisation

Presentation Design

**Content/Story** 

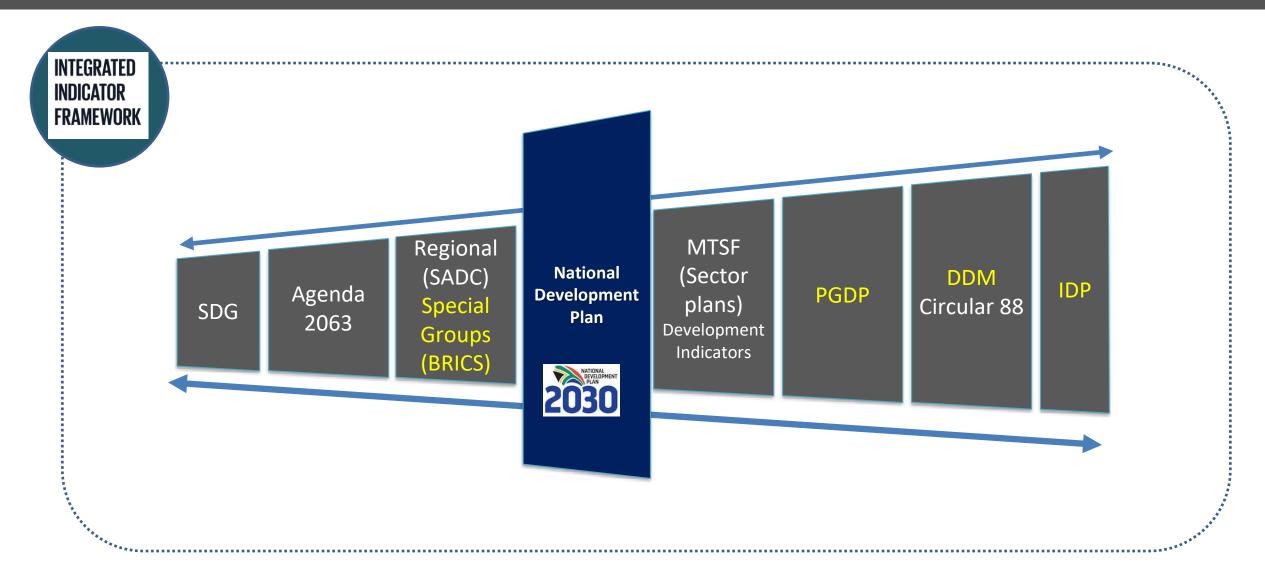
## Pivoting to the SDG and other development frameworks







## Over 800 indicators required to meet all the development frameworks

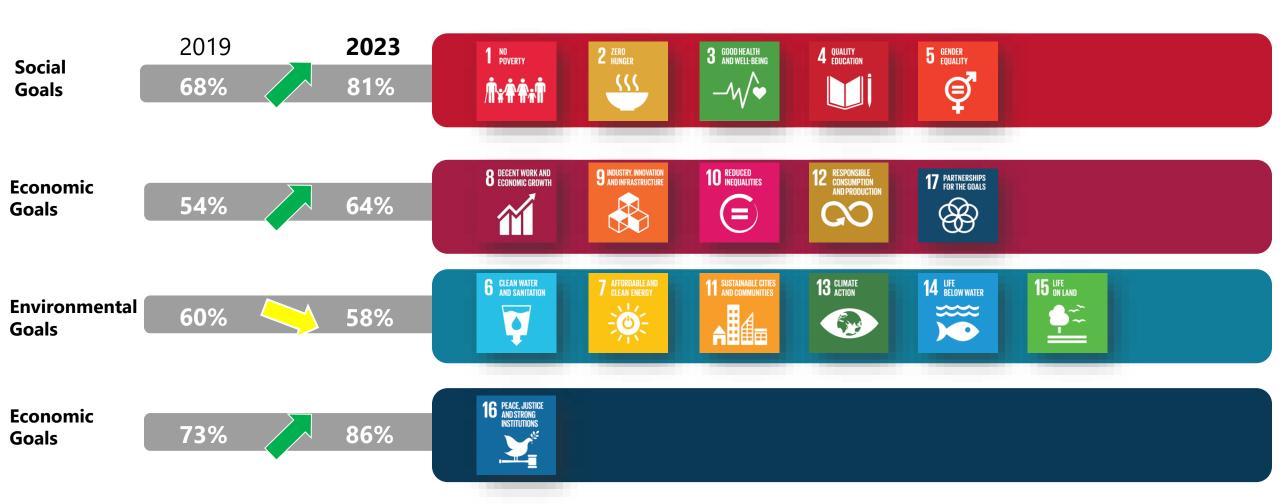






## Data Availability

## SA can report on







## Benefits of the Integrated Indicator Framework (IIF)

Give effect to SG's coordination mandate

Tool for SG to **rationalise duplication** (saves resources)

Identify the **strategic measurement priorities** for South Africa Inform Statistical Plans for Entities of the NSS & Stats SA

**Identify gaps** (deficiencies) in the statistical system (NSS)

**Prioritise** User Paid surveys that respond to statistics of national Importance?

Target	Indicator No.	National Development Plan Integrated Indicators	Indicato r type (Nation al)	SDG	NDP Indicato			Agenda 2063 indicato r No.		RISDP indicato rs No.		Circular no. 88 Indicator No.	Data source (1.Publication/D atabase 2. Responsible data provider)	Frequen y
Target 5.2	By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and girls and those in vulnerable situations				 								 	
	6.2.1	Proportion of population using safely managed sanitation services, including a hand- washing facility with soap and water	SDG <sup>2</sup>	Y	Y	N_8.8.1. 2			Υ	5.1.48	Y	ENV3.1	General Household Survey (GHS), Stats SA	Annual
Target 6.3	By 2030, improve water quality eliminating dumping and minir chemicals and materials, halvir wastewater and substantially in reuse globally	nizing release of hazardous ng the proportion of untreated	 		1 1 1 1 1 1						 		 	
	6.3.1	Percentage of wastewater safely treated	SDG <sup>2</sup>	Y					Y	5.1.35	Y	WS4.22	Green Drop System (GDS), Department of Water Affairs (DWS) and Stats	?
arget	By 2030, ensure access for all t housing and basic services and	o adequate, safe and affordable									! ! !		I I	
	11.1.1	Proportion of urban population living in slums, informal settlements or inadequate housing	SDG <sup>1</sup>	Υ							 			
	11.1.1D1	Percentage of urban population living in informal dwellings	Domesti cated	Y	Y	N_11.5.1					 		General Household Survey (GHS), Stats SA	Annual
	11.1.1D2	Percentage of urban residents having access to basic services within informal dwellings by type of service	Domesti cated	Υ			. Y	A1 – G1 – T4 – I5			Y	ENV3.11	General Household Survey (GHS), Stats SA	Annual





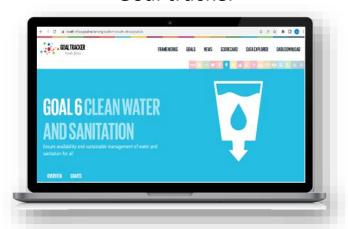
## SDG Dissemination

Dissemination on Stats SA's various platforms

#### On Stats SA Website



#### Goal tracker



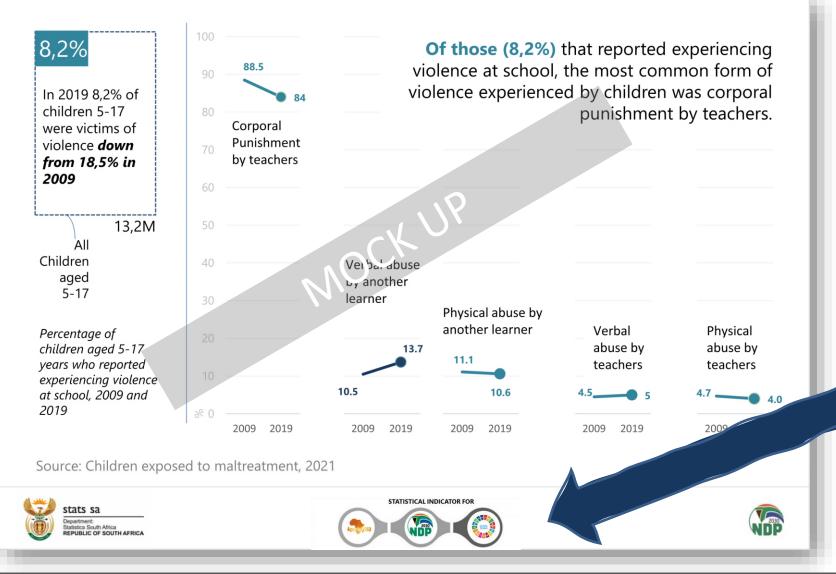


**New IIF Portal** 





#### Low hanging fruit



Leverage existing graphics with indication that it is part of greater development frameworks







## statssa.gov.za is the key dissemination point







# Thank You

faizelm@statssa.gov.za









