

7th Annual Emerging
African Researcher
Training Academy
2026



Data Visualisation: Innovations in Research Presentation

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29th July 2026

14:00-16:00

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*African Research Voices in
the Age of Artificial
Intelligence*



Lesson plan outline

- Introduction to data visualisation
- Representing quantitative and qualitative data
- Demonstration of developing a 1-page data story
- Tips for effective PowerPoint slides
- Creating infographics
- Using AI
- Wrap-Up and Q&A

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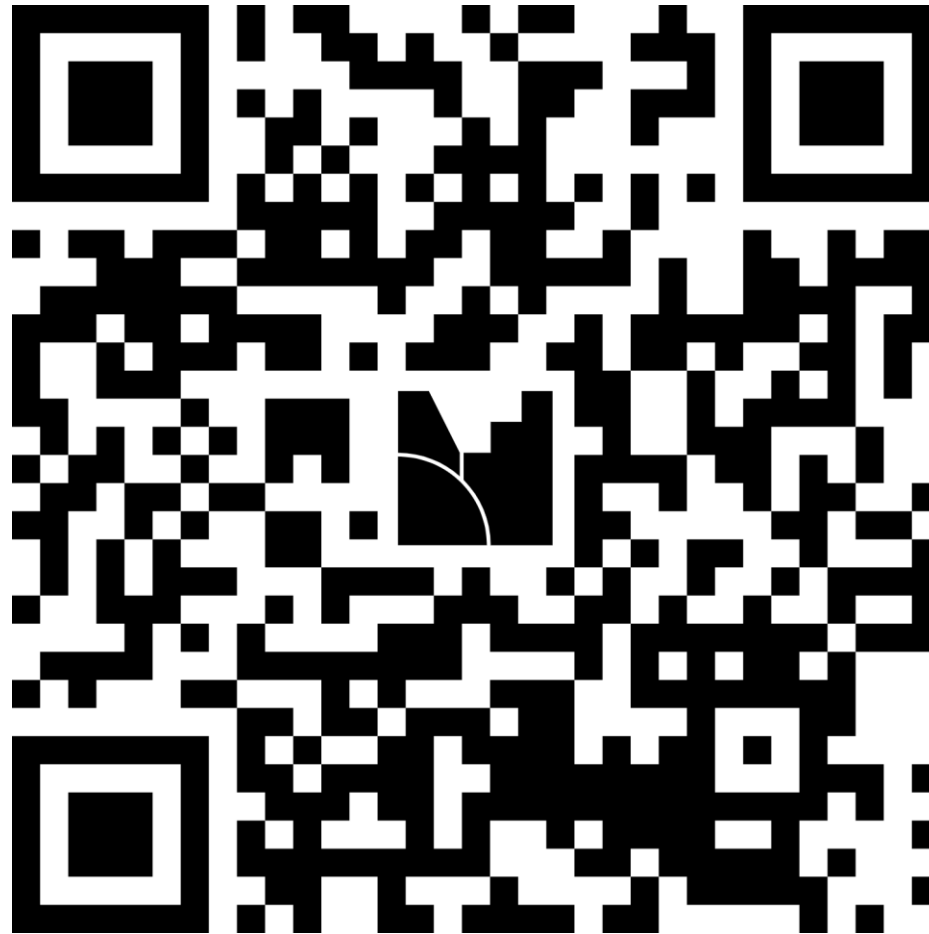


Communicating your research

*African Research Voices in
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Communication

- Communicating research is key
 - Inform, educate, raise awareness
 - Presenting research that is engaging and easily understandable
- Why is it important to communicate research?
 - Share findings with others in your field
 - Learn from others' expertise and experience
 - Improve public awareness and understanding
 - Inform decision makers and promote change

Your identity as a scholar and your academic citizenship is greatly enhanced by sharing your research.



Presenting information

- Consumption of information has changed
 - Snappy, succinct
- Research must still be
 - High quality
 - Evidence-based (data)
- Why?
 - More accessible for funders, policymakers, non-experts
 - Bridge the gap between science and society



Tools for dissemination



Reports



**Journal
articles**



**Books/book
chapters**



Highlights



**Review/
opinion pieces**



**Newspaper
articles**



Policy briefs



Newsletters



Videos



PowerPoint



Infographics



Social media



Tools for dissemination

The most appropriate tool for communication will depend on the purpose of the research, your message, and your target audience



Visual representations have become increasingly popular



Presenting data visually

Creating visualisations that communicate research effectively

- **Story:** What story do you want to tell?
- **Data:** What data will you be using?
- **Aim:** What is the aim of sharing your data?
- **Audience:** Who is your target audience?



What is data visualisation?

Data visualisation is storytelling with a purpose

- Graphical representation of information and data
- Uses visual elements like charts, graphs, maps, and infographics
- Helps people understand complex data quickly and clearly
- Transforms raw data into meaningful insights
- Effective data communication - grabs our interest!



Why is data visualisation important?

Improves understanding

- Makes complex data easier to understand

Reveals patterns and trends

- Identifies insights not immediately obvious in raw data

Supports decision-making

- Facilitates evidence-based actions and strategies

Enhances communication

- Makes data accessible to broader audiences, including non-experts



What to consider

- **Purpose:** What are you trying to show or explain?
- **Context:** What background is needed to understand the visual?
- **Audience:** Who is the data for? What do they need to know?
 - Scholarly vs policy vs public audiences
- **Effective communication:** What visualisations are appropriate?
 - E.g. Graphs, charts, infographics
- **Type of data:** Categorical, numerical, temporal, etc.
 - Qualitative vs quantitative, mixed methods
- **Tool or platform:** What software or medium will be used?

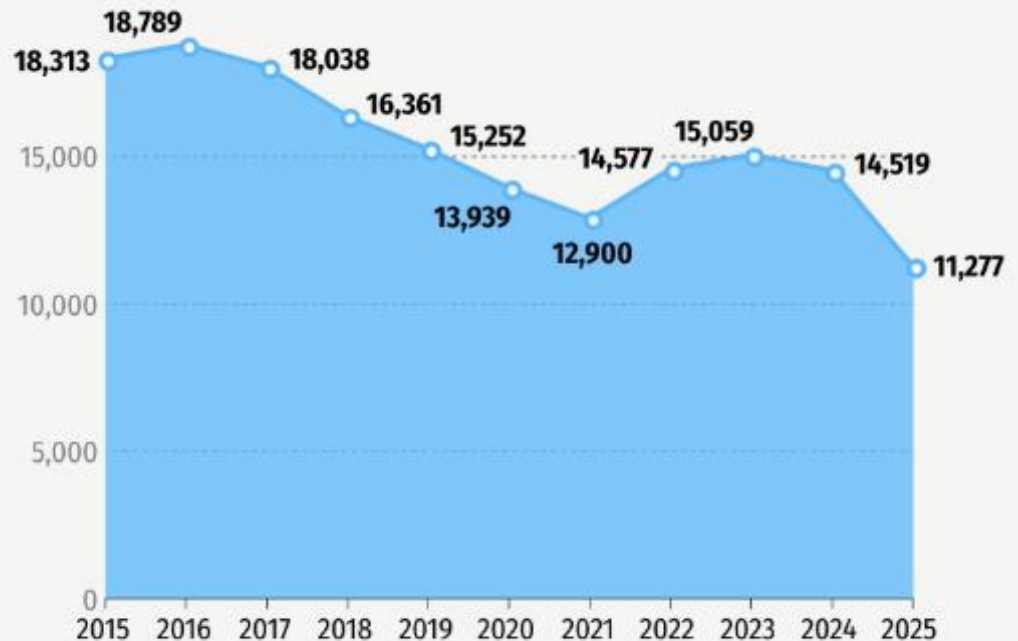


Presenting data visually

South Africa has lost over 7,000 diamond mining jobs in the past decade. As demand shifts to lab-grown diamonds, production and revenues have fallen, leaving mining companies and workers facing an uncertain future.

Over 7,000 jobs lost in 10 years in SA's diamond mines

Number of employees in the diamond sector per year



Source: Minerals Council South Africa: Facts and Figures Pocketbooks via the Department of Mineral and Petroleum Resources

theoutlier.co.za

<https://theoutlier.co.za/charts/chart/a11140d8-724c-4a20-a509-881c6910fb21>



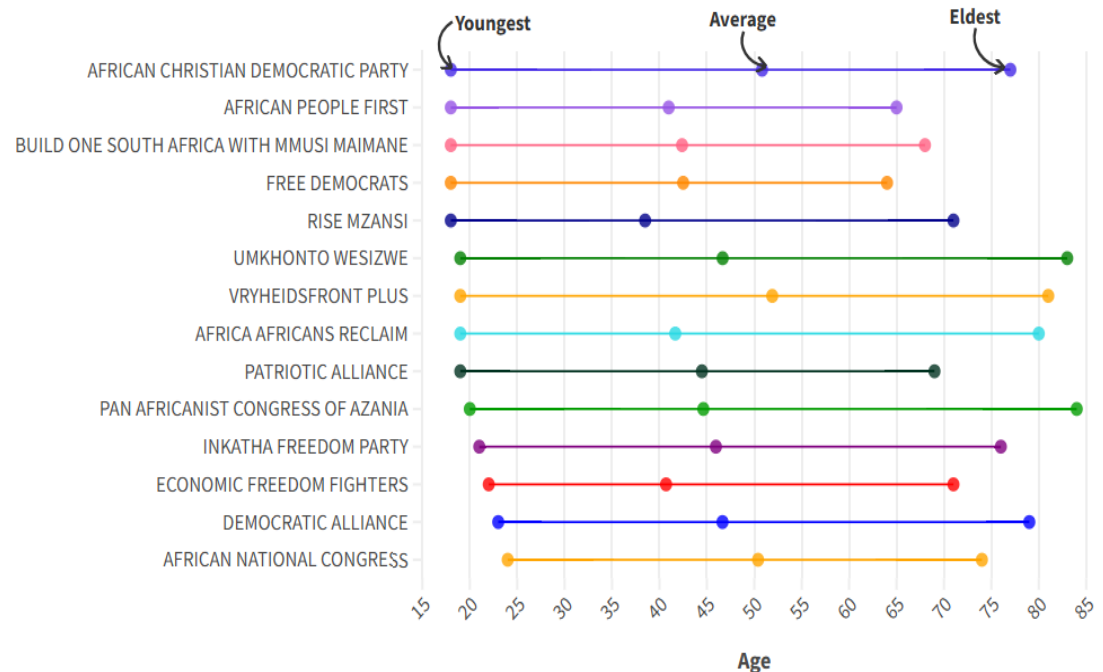
Visualisation for impact

Data is at the heart of telling the story of an election, looking at the age of candidates standing for election, if communicated factually and correctly can be interesting and engaging for readers and influence their decision making.

Candidate ages, South African Elections 2024

A selection of parties from the first submission, including those with the youngest and eldest candidates

openup:



<https://elections.sanef.org.za/2024/04/12/how-to-calculate-and-visualise-the-age-of-party-candidates/>



Types of visualisation

- Charts that help communicate the differences or similarities between values in a dataset.
- Often, these charts are used to make comparisons across categories, over time and/or for communicating the ranking between categories.





Types of visualisation

- **Bar charts** and **Line charts** are used when comparing trends.
- Bar charts display differences in quantities and can adapt multiple variables and groupings.

Spending of Capital Budget July 2018 - June 2019

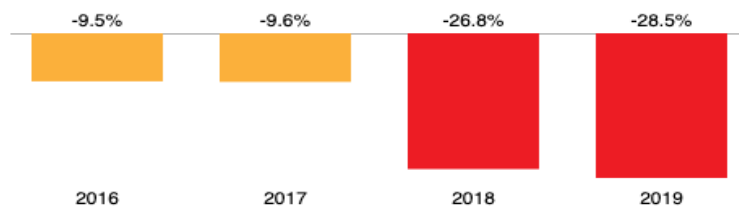
28.5% underspent 😞

Difference between budgeted capital expenditure and what was actually spent.

About 1.5 times the underspending or overspending for similar municipalities nationally: -18.36%

good 😊 Up to 5%
average 😐 Between 5% and 15%
bad 😞 More than 15%

[+ Show calculation](#)



Bullet Graph



Column Chart



Grouped Bar Chart



Bar Chart



Side by Side Bar Chart



Stacked Bar Chart

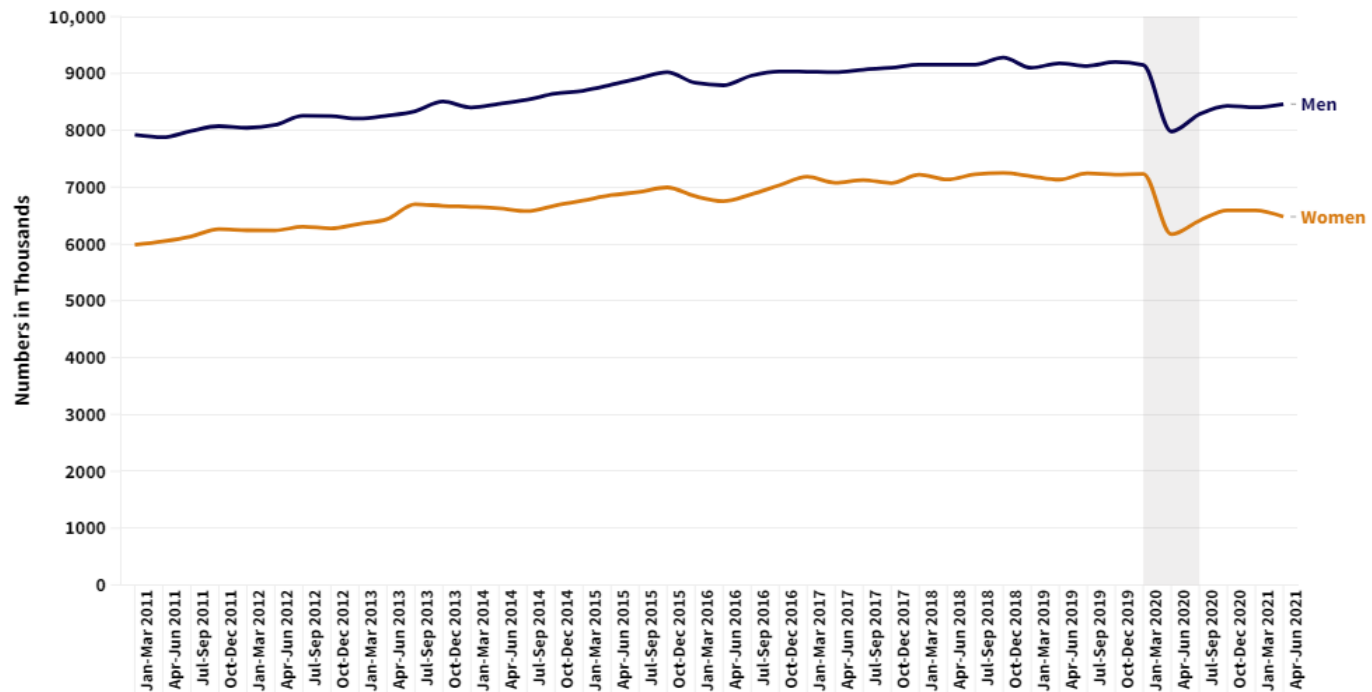


Types of visualisation

Line charts display change over time, units of time, and plot values for multiple variables at once.

Changes in Employment By Gender

The number of employed people drastically decreased in the 1st quarter of 2020 by -13.6% due to job loss because of strict national lockdown restrictions introduced in South Africa on 26th March 2020 as a preventative measure in response to the COVID-19 pandemic.

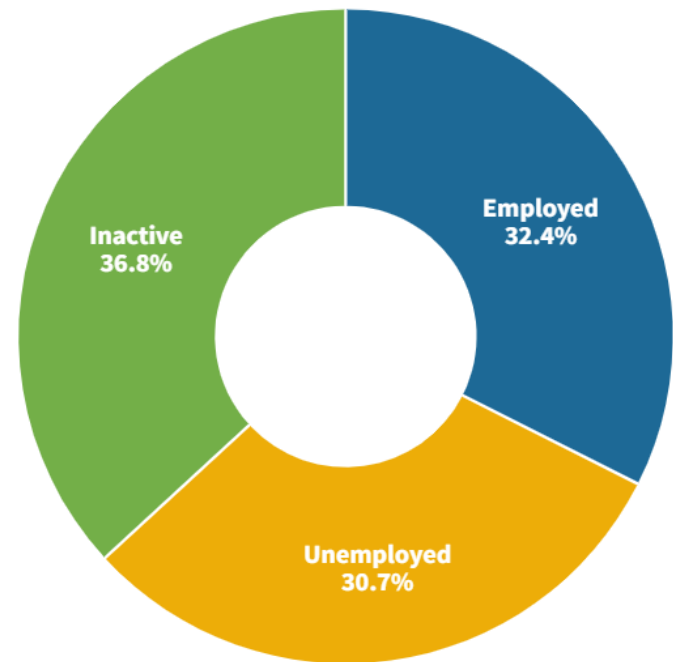




Types of visualisation

Pie charts are used when exploring composition, they represent parts of a whole, visualise components with respect to a given total, and show relative proportions of those components.

How many women were employed in South Africa between April and June 2021?
Take a look at the economic status during this quarter



Source: QLFS Q2 2021



Types of visualisation

Maps are used to communicate data related to geographical regions, such as places, location etc.



Bubble Map



Cartogram



Choropleth Map



Connection
Map



Demer
Cartogram



Dorling Map



Dot Map



Flow Map



Isochrone Map



Non-contiguous
Cartogram



Tile Grid Map

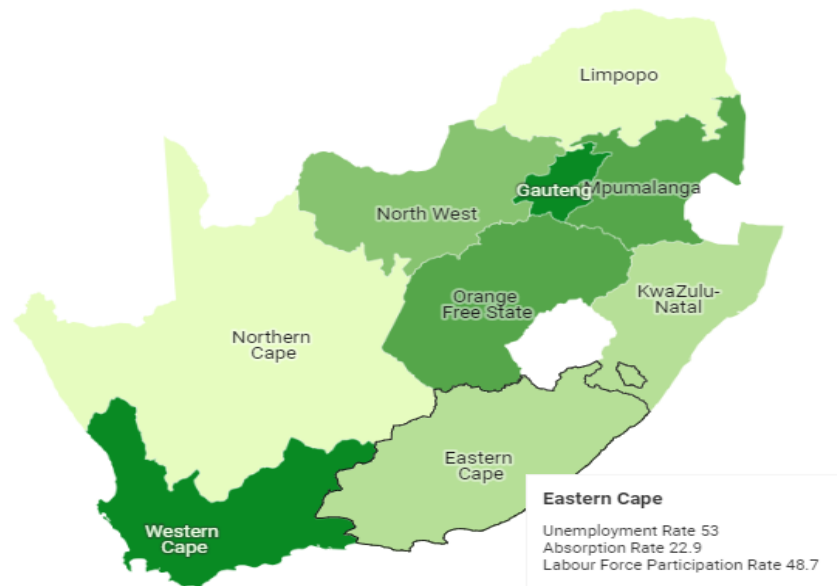


Types of visualisation

Maps are used to communicate data related to geographical regions, such as places, location etc.

South African Labour Force

The Labour Force Participation Rate measures the proportion of the working-age population that engages in the labour market either by working or as work seekers. This rate is an indication of the availability of labour. According to this employment rate, Gauteng had the highest Labour force participation rate of 66.1% followed by Western Cape with 63%. The ability of the labour market to absorb the population into employment was the highest in Western Cape at 46.8%. Although Northern Cape had the lowest Labour Participation Rate of 43.6%, it had the lowest rate of unemployment at 28.1% in the second quarter of 2021.





Types of visualisation

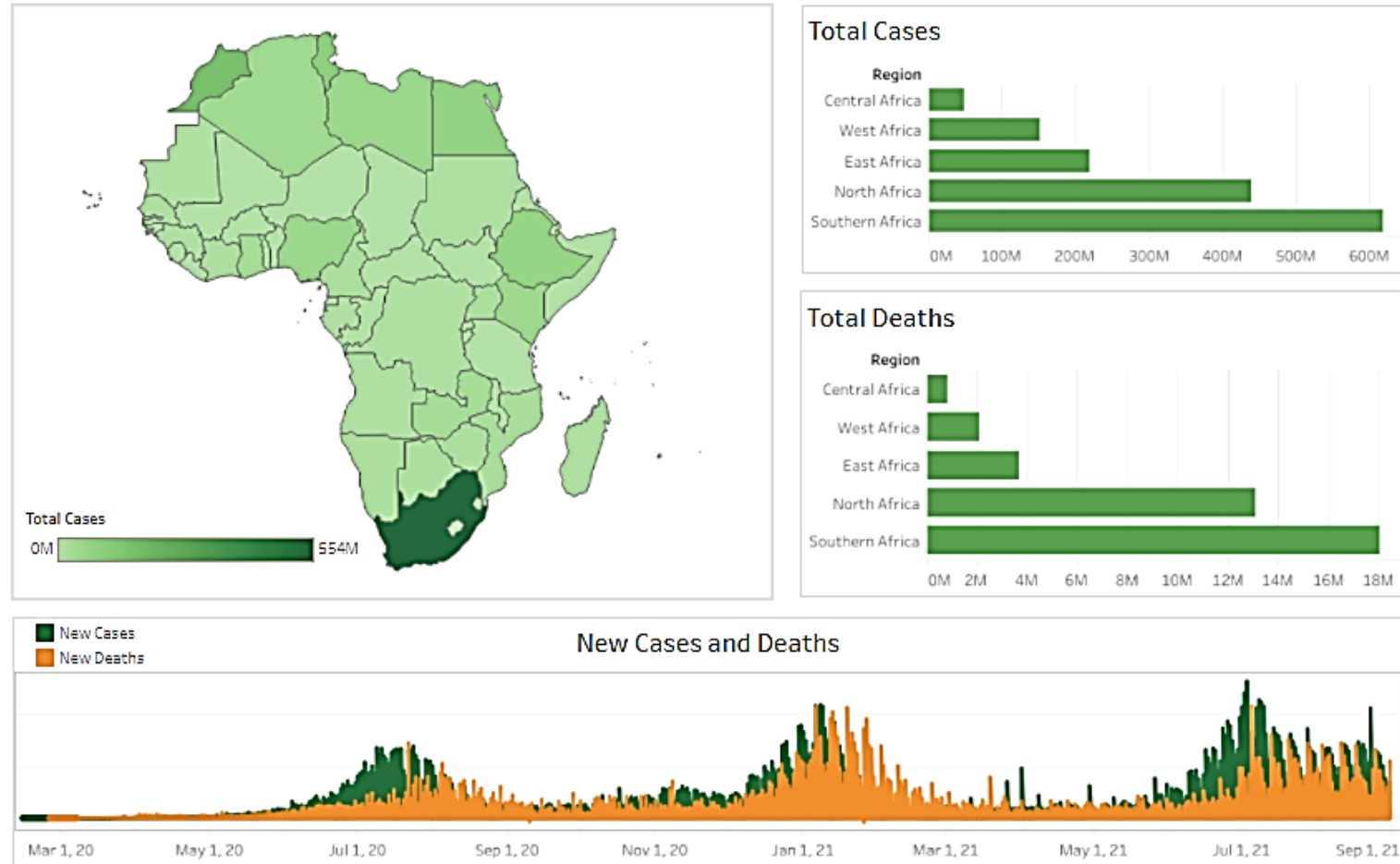
Dashboards are an information management tools that use a collection of charts to organise, store, display and analyse information from multiple data sources into one easy-access place. Dashboard data visually tracks, analyses and displays key performance indicators.



Types of visualisation

The Emergence of COVID-19 In Africa

The first COVID-19 case on the continent, was reported in Egypt on 14 February 2020. It was a contact of a person with a history of travel to China. By the end of the first week of March, nine African countries: Algeria, Cameroon, Egypt, Morocco, Nigeria, Senegal, South Africa, Togo and Tunisia, reported over 40 cases. The most affected region was Southern Africa.





Types of visualisation

Data tables are a display of information in tabular form, with rows and/or columns are used when comparing quantities, they allow the view of entire data set, they present numerical and contextual information.

Municipal Capital Expenditure

As of 30 November 2023*

Municipality	Province	Cumulative capex	Source	Page	Municipality comment
eThekweni	KwaZulu-Natal		Nov 2023	pg. 64 & 116	pg. 20: "The reported capital expenditure is 54% of the YTD budget with a variance of -46%. The capital year to date spend is 15,1%."
Msunduzi	KwaZulu-Natal		Nov 2023	SC71 charts	SC1: "This will self correct during the year"
Sol Plaatje	Northern Cape		Nov 2023	pg. 55	pg. 56: " capital expenditure is extremely poor compared to prior years... Urgent intervention from management is required to remedy the situation."
Bergrivier	Western Cape		Nov 2023	pg. 20 & 73	pg. 12: "Total year to date capital expenditure as at 30 November 2023 amounts to R17.827 million."
City of Cape Town	Western Cape		Nov 2023	pg. 40	pg. 26: "year-to-date spend represents 20.20% (R1 741 million) on internally-funded projects and 31.58% (R879 million) on externally-funded projects."
Swartland	Western Cape		Nov 2023	pg. 22	pg. 6: "Capital expenditure for the month of November 2023 amounts to R10 715 269 and stands at 63% below the projected YTD budget which is not aligned to the SDBIP and budget plan..."

*For 2023/24 financial year which runs from 01 July 2023 - 30 June 2024. Numbers in thousands.



Types of visualisation

Infographics are graphic visual representations of information, data, or knowledge intended to present information quickly and clearly. They can improve cognition by utilizing graphics to enhance the human visual system's ability to see patterns and trends.



Getting started

In order to begin producing a data visualisation, we need to be able to answer these questions:

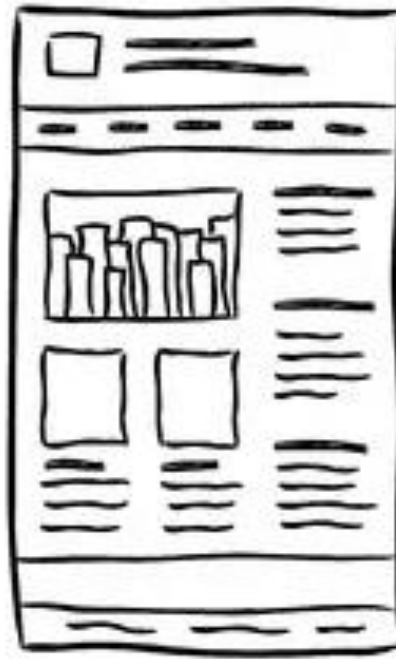
- **What does the visualisation need to communicate?**
- **What does the data look like?**
- **And what portion of the data do we need to present?**
- **Visually, what can we do with this data?**



Where to start?

Wireframing is the process of sketching graphics that display, and describe, the functional elements and overarching structure of a visualisation.

**Data visual
e.g. column
chart**



Headline



**Narrative
Text**



Creating a data visualisation

Using Flourish and Medium (free tools)

Medium

Search

Write

Sign up

Sign in



A Profile of South African Women In The Labour Force



Exploring Data Viz With Nonku · Follow
5 min read · Sep 15, 2021



2

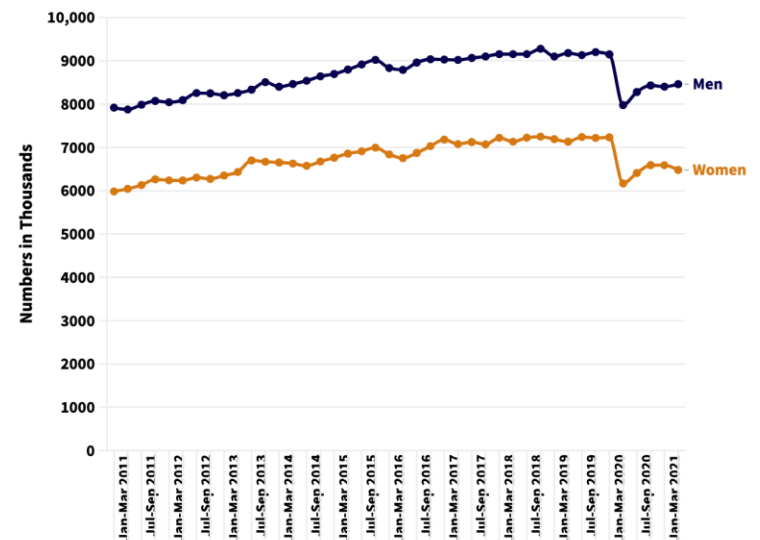


1



In this article, I attempt to portray the profile of South African women in the labour force through a method referred to as data storytelling. [The Quarterly Labour Force Survey \(QLFS\) 2008 to 2021](#) dataset is utilised for this piece. The QLFS is a household-based sample survey conducted by Statistics South Africa that captures a snapshot of labour market activities of the working population, aged 15 to 64 years.

Quarterly Changes in Employment Women Vs. Men



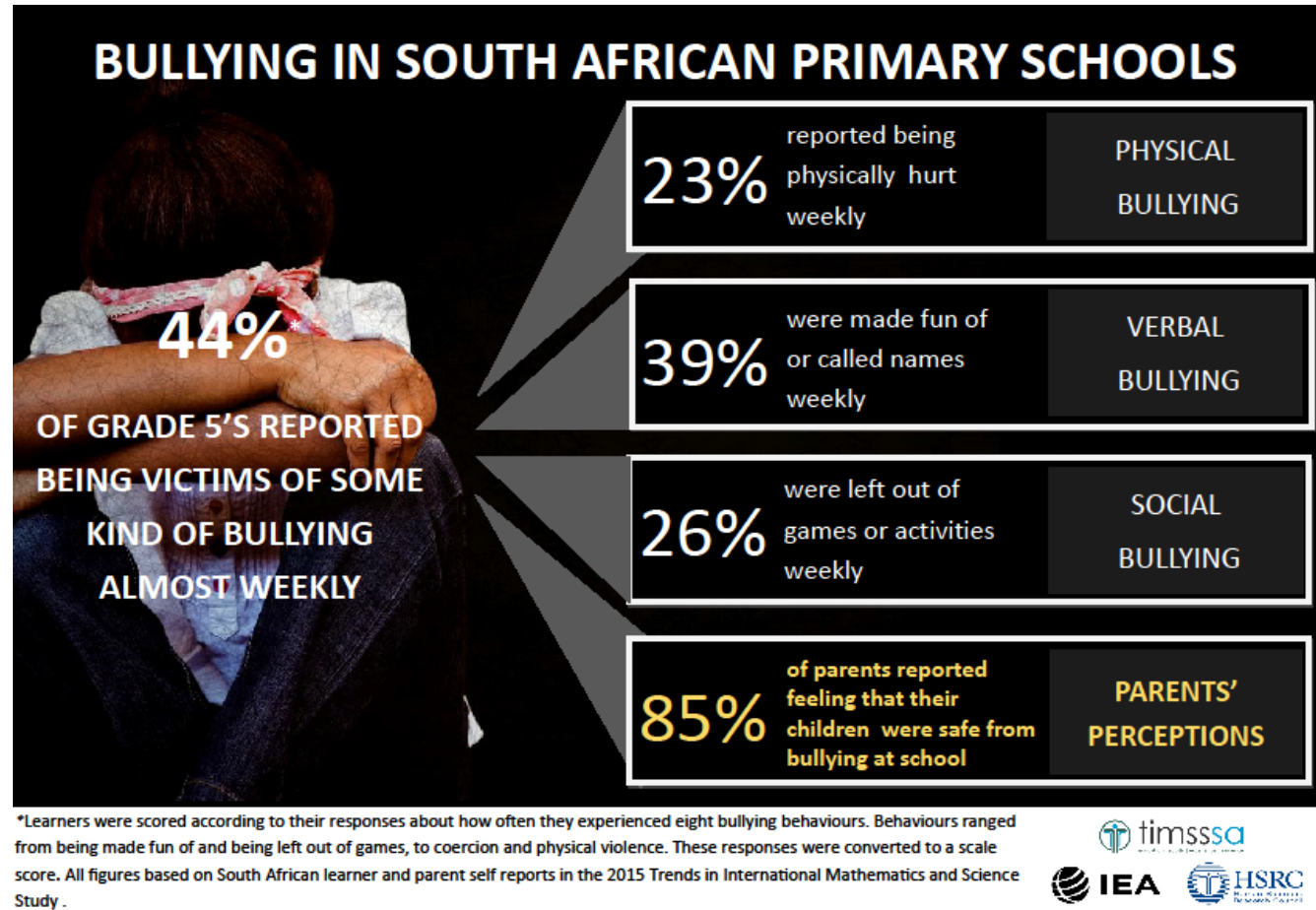
Source: QLFS Q2 2021



Principles of good data visualisation

Telling a story

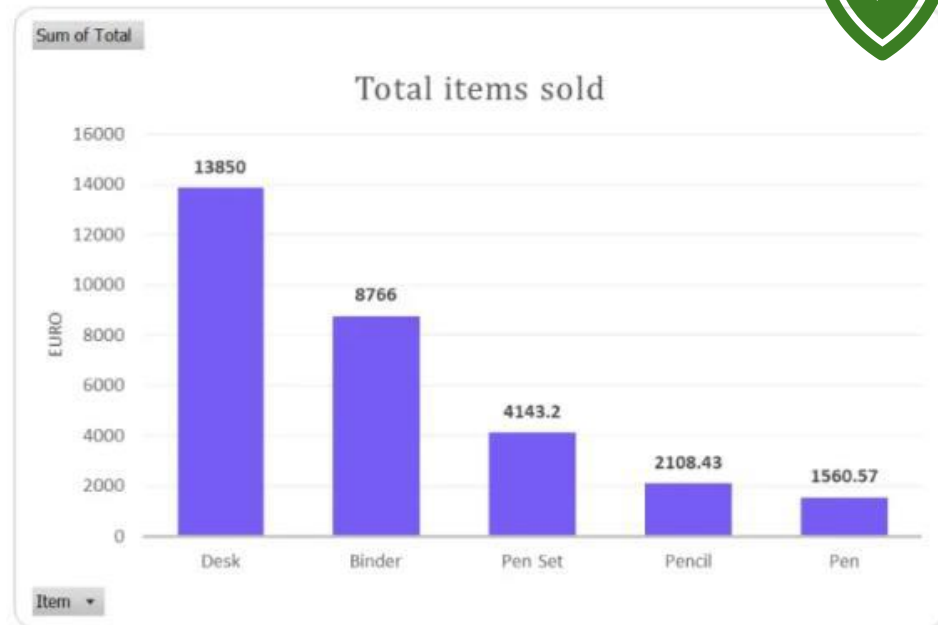
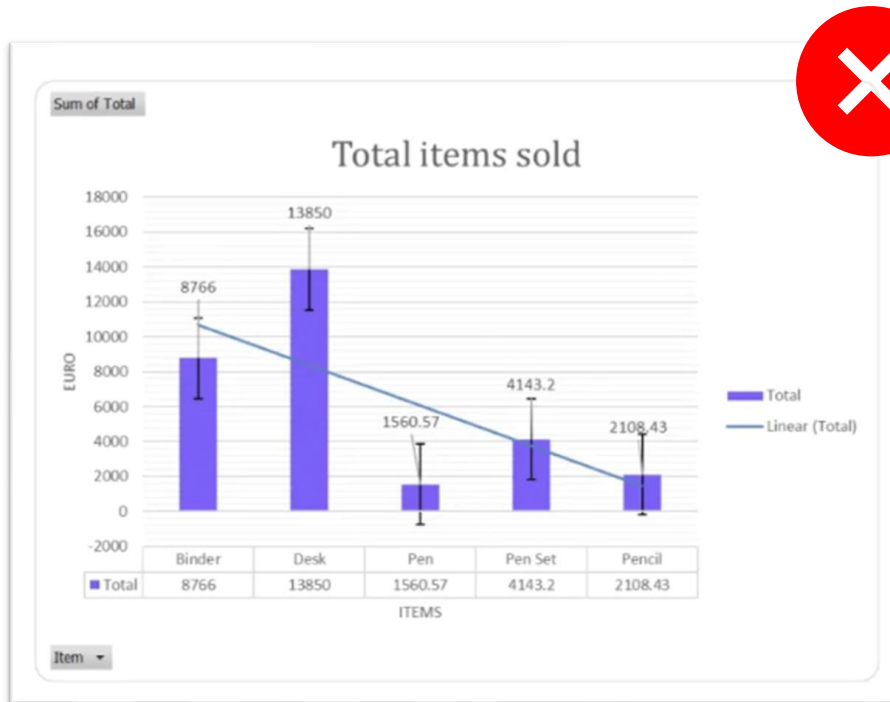
Show only relevant data that supports your message or insight





Principles of good data visualisation

Clarity: Avoid clutter, make visuals easy to read and interpret

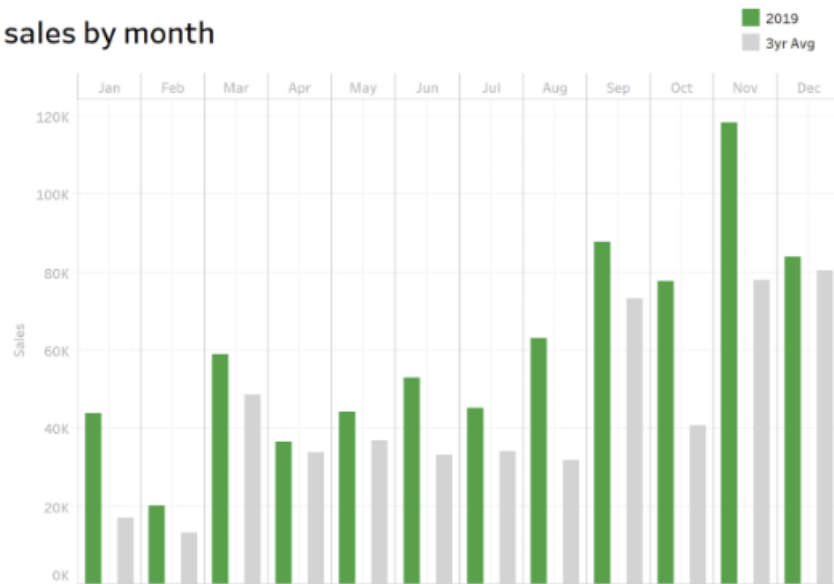




Principles of good data visualisation

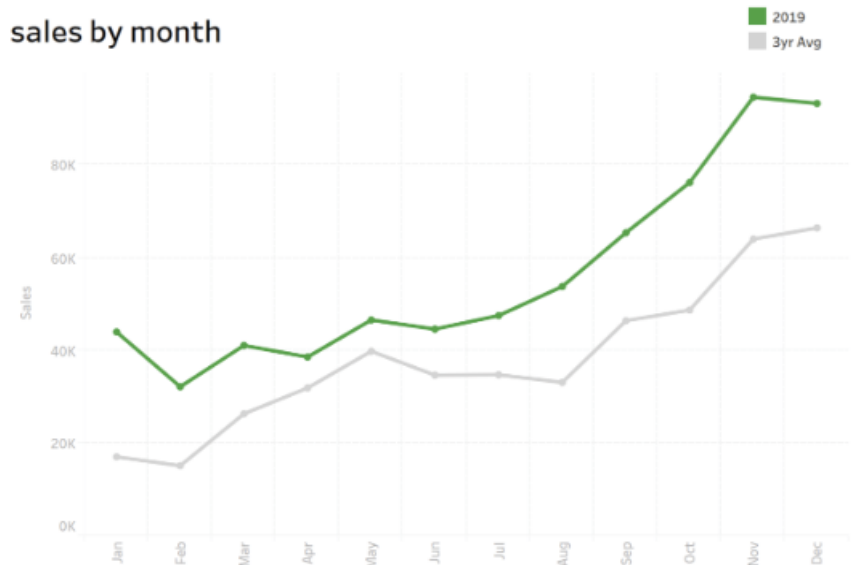
Simplicity: Aim for minimalist design - less is often more

sales by month



! ineffective

sales by month



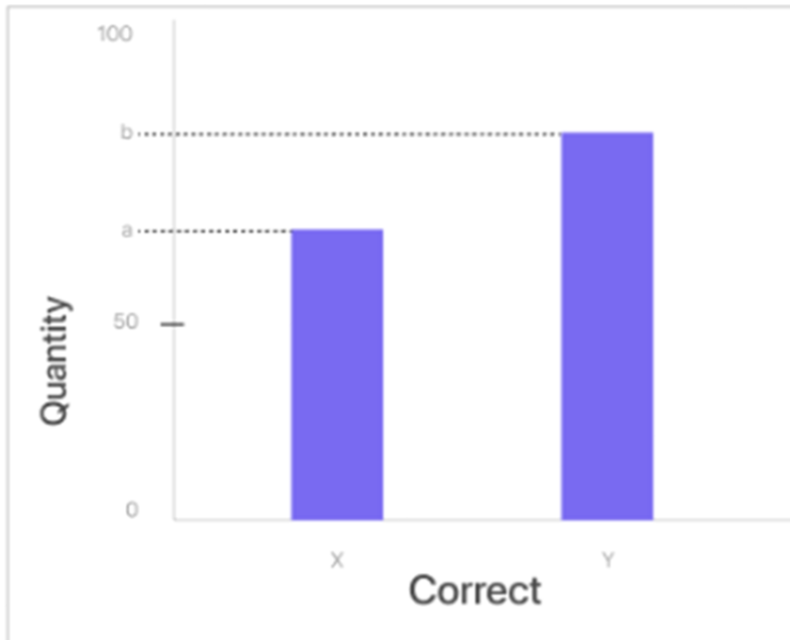
✓ effective



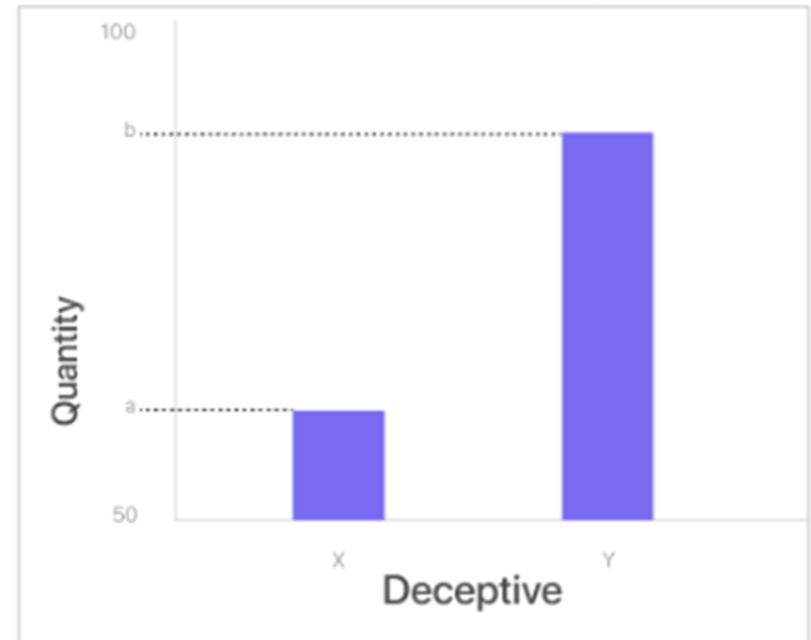
Principles of good data visualisation

Accuracy: Represent data truthfully without distortion

Improper Scaling



VS





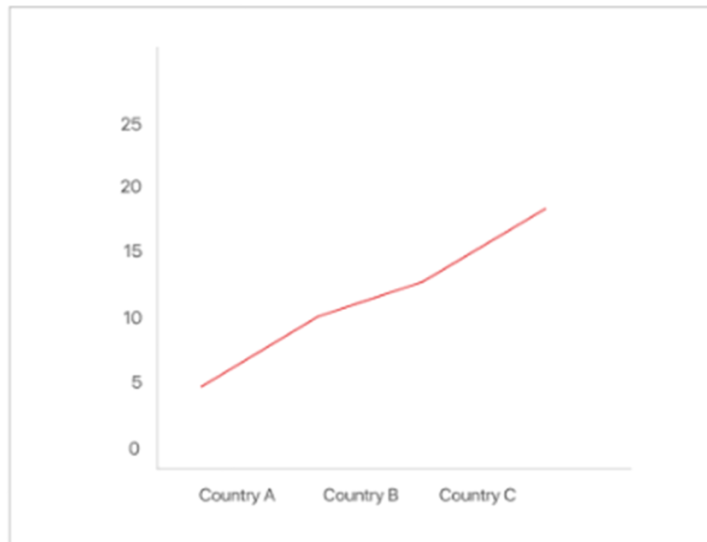
Principles of good data visualisation

Accuracy: Represent data truthfully without distortion

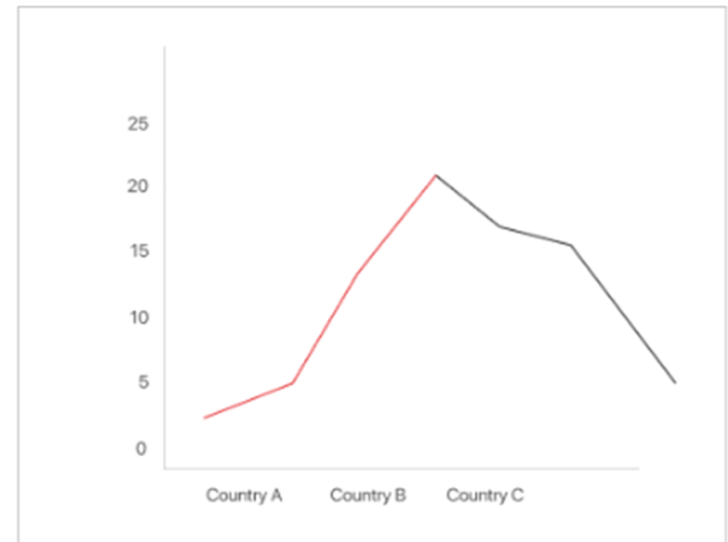
Cherry-picking Data



Misleading



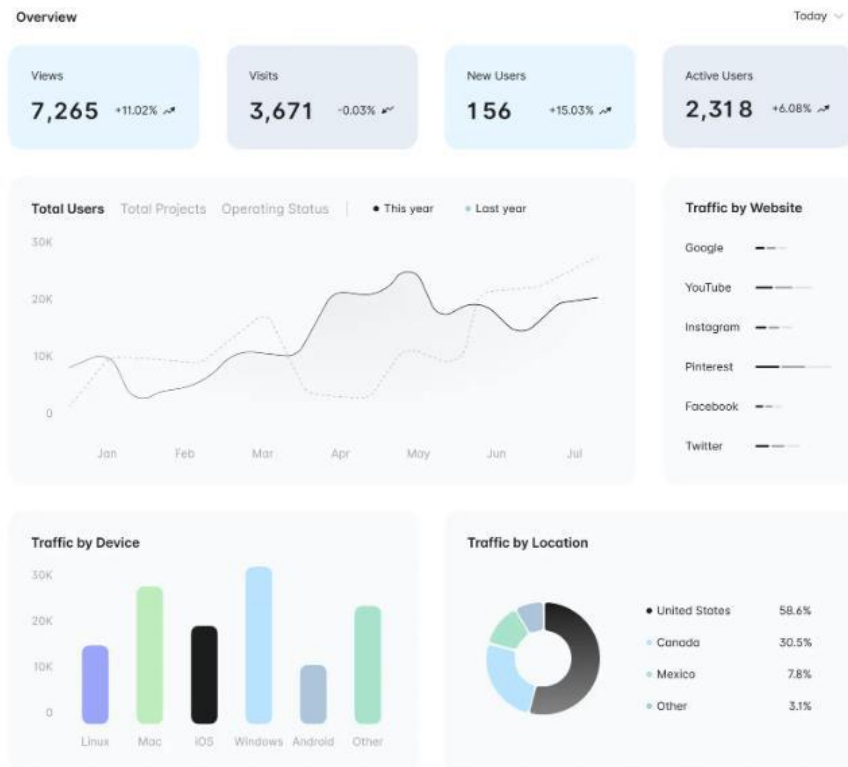
Accurate





Principles of good data visualisation

Consistency: Use consistent scales, colours, and formats across visuals



GROUP RELATED
ELEMENTS

VISUAL ELEMENT

UNITY

VARIETY

DESIGN ELEMENT

USE CONSISTENT
COLOUR SCHEME



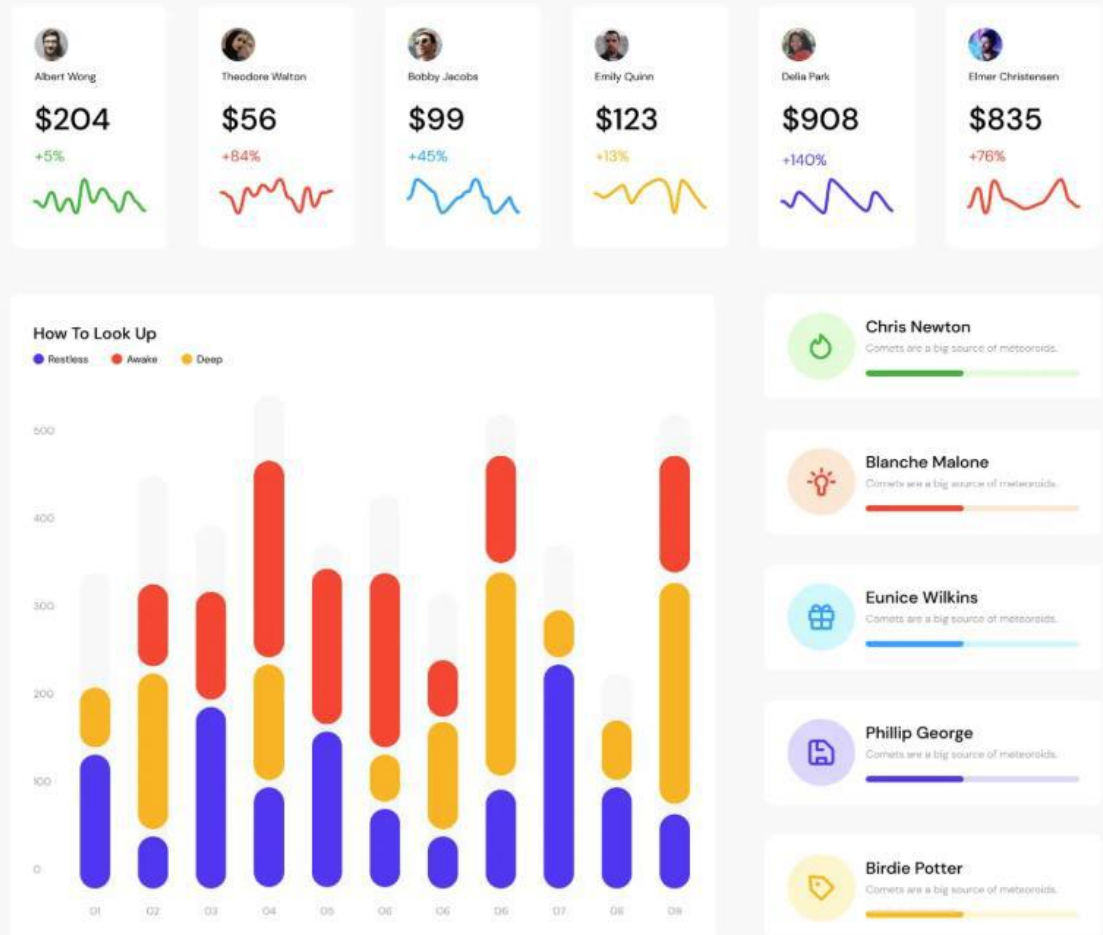
Principles of good data visualisation

Key points

Use colour, contrast, and layout to draw attention to key points

Be single minded

Every large design company whether it's a multi-national branding





Pitfalls to avoid

- Too much data
 - Overloading visuals, too much detail
- Ignoring accessibility
 - Hard-to-read fonts, poor contrast, mismatched colours
- Inappropriate chart types
 - E.g. pie charts for trends, line graphs for discrete variables
- Distorted scales
 - Misleading axes or inconsistent intervals
- Lack of context
 - Missing titles, labels, or source information

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Tips for effective PowerPoint slides

*African Research Voices in
the Age of Artificial
Intelligence*



3 tips

1. Consistent, simple format

2. Less is more

3. Use graphics wisely



3 tips

1. Consistent, simple format

This is the coolest powerpoint that you will ever see

You know it's cool because it's got all the hilarious examples of things you shouldn't do when you're making a PowerPoint. It's important to think about design when you're making any kind of visual argument, a poster or a brochure or even a regular text document. Why is it that we require your formal papers to be in 12 point times new roman with certain margins?

12 point is an appropriate size on paper but not on a projector in front of the class where you have to see it from far away.

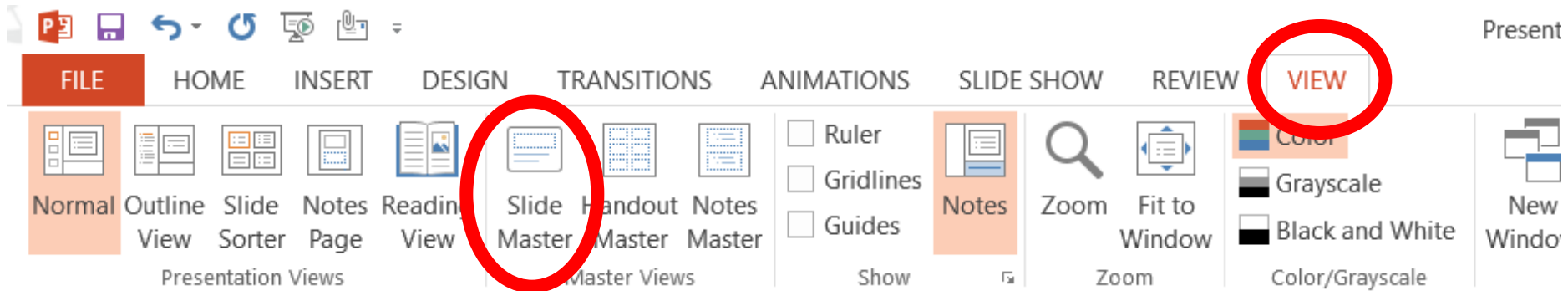


Different guidelines, same intent

- 10/20/30
 - 10 slides, 20 mins, 30 font size
- 1-6-6
 - 1 main idea, a max 6 bullet points, max 6 words per bullet point
- 2.4.8
 - 2 minutes per slide, 4 bullet points per slide, 8 words per bullet point
- 5x5
 - 5 points, 5 words per point
- Try 1 slide per minute, 24 font, pictures rather than words



Slide master function





Slide master function

Presentation1 - PowerPoint

FILE SLIDE MASTER HOME INSERT TRANSITIONS ANIMATIONS REVIEW VIEW

Insert Slide Master Insert Layout Delete Rename Preserve Master Layout Placeholder Title Footers Themes Colors Background Styles Background Slide Size Close Master View Close Hide Background Graphics Effects

1

Click to edit Master title style

- Click to edit Master text styles
 - Second level
 - Third level
 - Fourth level
 - Fifth level

2018/07/10 Footer <#>

Click to edit Master title style

Click to edit Master subtitle style

2018/07/10 Footer <#>

Click to edit Master title style

- Click to edit Master text styles
 - Second level
 - Third level
 - Fourth level
 - Fifth level

2018/07/10 Footer <#>

SLIDE MASTER ENGLISH (SOUTH AFRICA) 78%



Slide master template

- Layout
- Consistent font
 - Color, style, size
- Same graphics on each slide
- Text placeholder sizes
- Background



Fonts

- What does this font say?
- *What does this font say?*
- *Dude check out this font*
- This is a serif font
- This is a sans serif



Fonts

- Choose a single sans-serif font - Arial or Helvetica.
- Avoid serif fonts -Times New Roman or Palatino
- At least 24 point
- Use the same font for all your slides
- Don't use more than two fonts
- Do not use all caps except for titles



Tips

2. Less is more



Text

- Avoid long sentences
- Should your audience read or listen to you?
- The Takahashi method





Tips

Use graphics wisely



Images

- Use 1 or 2 large images rather than several small images
- Prioritise images instead of too many competing for attention
- Use the same style graphical image (e.g., cartoon, photographs)
- Repetition of an image reinforces the message



High res images





Graphs and tables

- Layout simple & uncluttered
- Lines in contrasting colours
- Text size should be large
- Accurate, easy to interpret
- Have impact
- Use the same colour scheme
- Don't cut and paste without formatting



Avoid cluttered tables

Level of education	African 1995 2002		Coloured 1995 2002		Indian 1995 2002		White 1995 2002	
No education								
18-24 years	4.2	1.5	2.2	0.9	0.4	0.3	0.2	0.1
25-35 years	8.0	4.8	4.1	3.8	0.8	0.4	0.2	-
Primary								
18-24 years	21.6	15.8	19.1	18.8	2.2	1.4	0.5	0.9
25-35 years	29.1	21.8	27.8	27.9	5.1	1.9	0.3	0.3
Incomplete secondary								
18-24 years	56.3	55.0	50.1	45.2	31.9	18.5	23.6	19.0
25-35 years	38.6	38.1	45.6	37.4	42.0	22.7	23.8	15.6
Matric								
18-24 years	15.7	23.9	25.5	31.1	57.3	69.1	59.0	61.0
25-35 years	17.2	25.3	17.1	22.7	39.5	53.6	44.4	44.5
Tertiary								
18-24 years	2.2	3.8	3.3	4.0	8.3	10.7	16.0	19.0
25-35 years	7.1	10.0	5.4	8.2	12.5	21.2	31.5	39.7

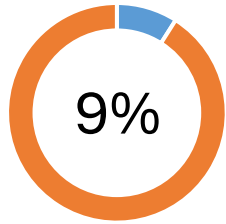


Use simple tables

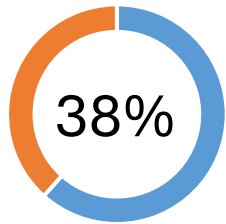
	Male	Female	Total
Smoking	44	55	99
Alcohol	50	35	85
Drug use	25	10	35



PowerPoint infographics



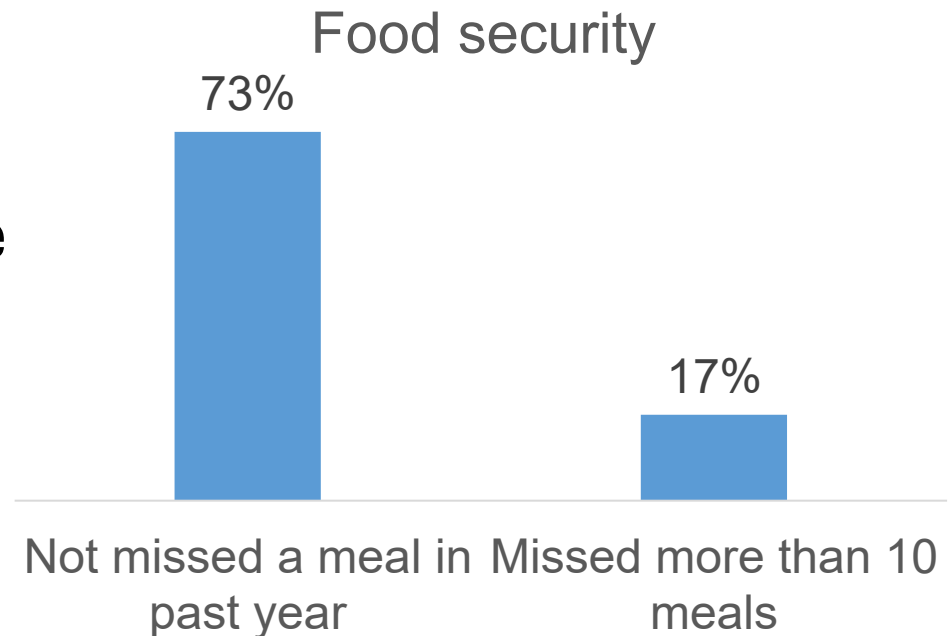
had post-school qualifications



had post-graduate qualifications

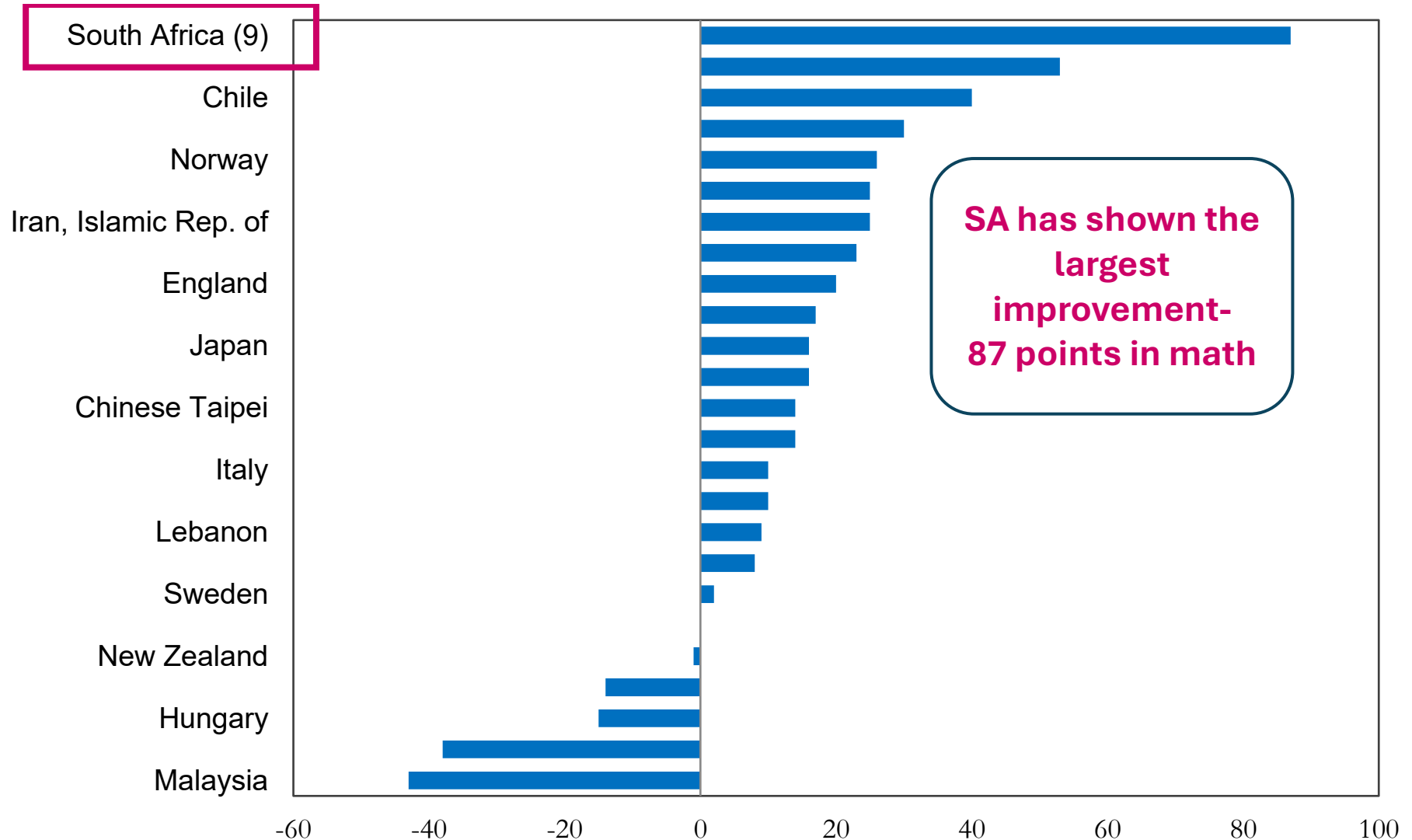


99,9% live in Africa





Animation to emphasise key points





A few other tips to remember

- Avoid slide transitions or sound effects
- Avoid abbreviations and acronyms
- Use animations in moderation
- You (and what you say) should be the focus of attention
- Don't trust technology

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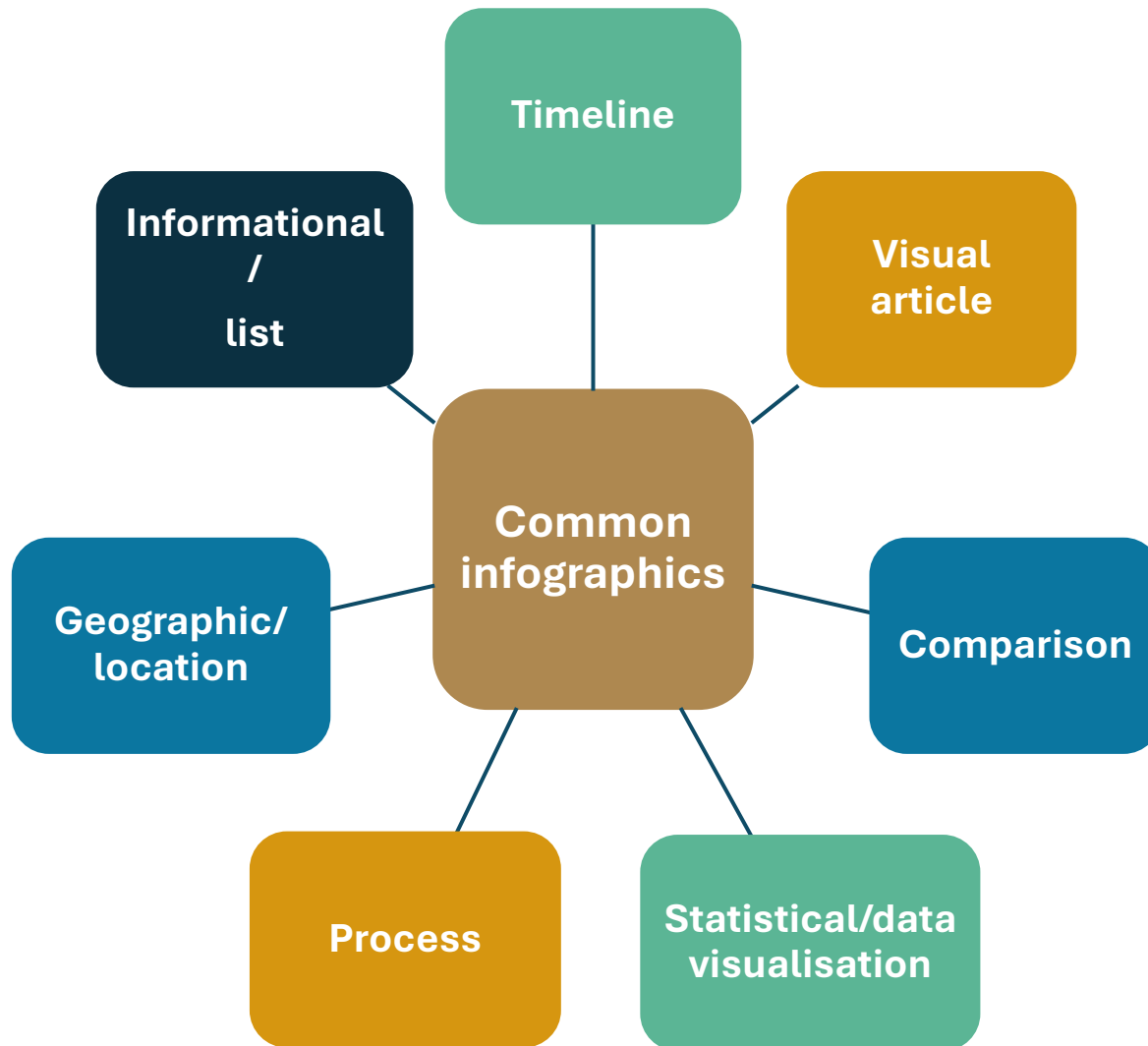


Using infographics

*African Research Voices in
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What is an infographic?



“Visual representation of information or data”



- Simple and eye-catching
- Communicate large-scale datasets more easily
- Accessible to various audiences
 - Researchers, policymakers, government, public
- Focus on/highlight a particular issue
- Combine data sources to tell a story



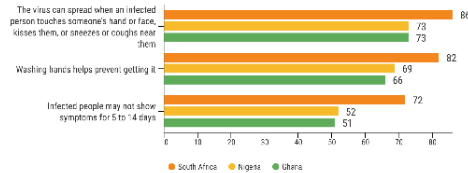
Newsletters

Public Understanding and Experiences of Covid-19 in South Africa and around the World

The Covid-19 pandemic has ravaged the health systems, economies and social well-being of citizens around the globe. This has prompted the need to understand the views of the public in relation to their understanding and experience of this pandemic. Many countries, including South Africa, have therefore conducted surveys with the public to elicit their views on different dimensions of Covid-19. This infographic presents findings from some of these studies.

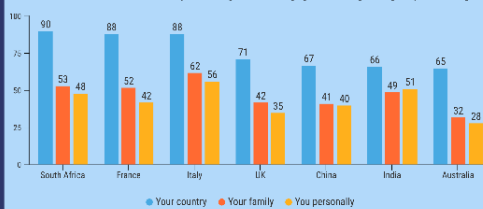


Percentage of respondents that felt statements are definitely true¹



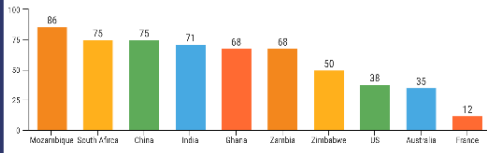
KNOWLEDGE ABOUT COVID-19

Level of threat Coronavirus poses to your country, your family and you personally²



RISK PERCEPTION

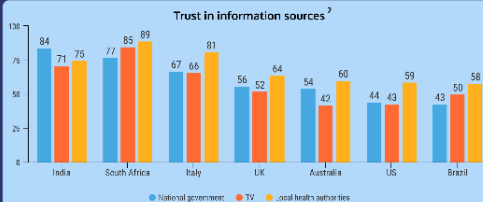
If you were infected by coronavirus or Covid-19, how seriously do you think it would affect your health? (Extremely or very seriously)^{1,3}



HEALTH IMPACT PERCEPTION

Trust in information sources²

TRUST IN INFORMATION SOURCES



I feel like I belong at my school!

Sense of school belonging relates to the extent to which learners enjoy and feel comfortable in their learning environment. Sense of belonging is important as it is related to learner achievement as well as levels of bullying in schools.

More learners in independent schools reported a high sense of belonging, compared to learners in public no-fee and fee paying schools



No-fee schools



Fee-paying schools



Independent schools

68%

of Grade 5 South African learners reported having a **high** sense of school belonging



These learners scored on average

35 TIMSS points higher

than those with **some** sense of school belonging and

61 TIMSS points higher

than those with **little** sense of school belonging

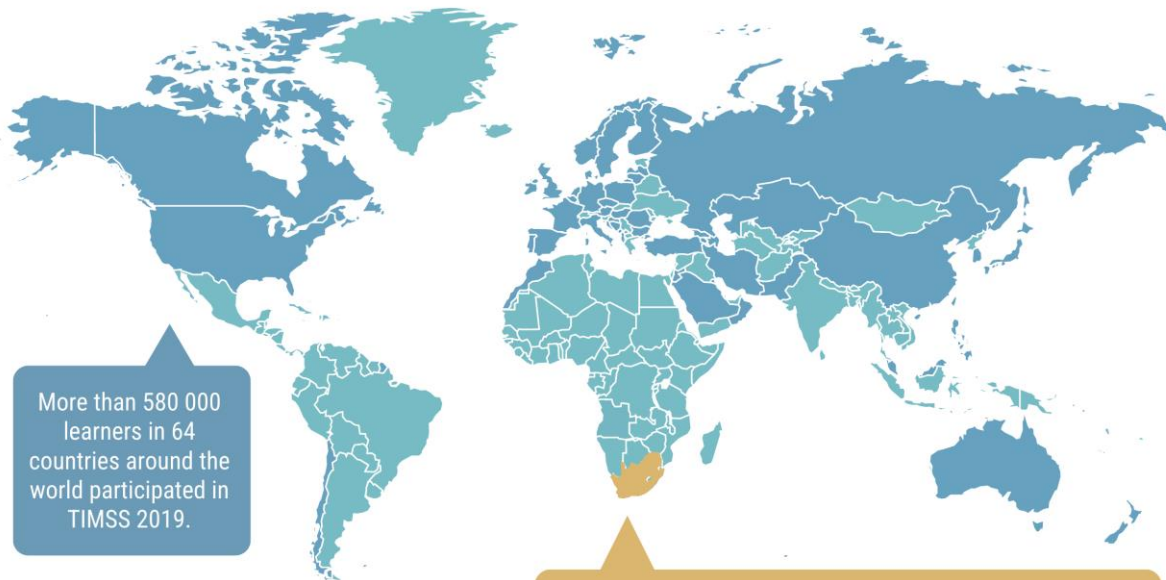
* Data is from the Trends in International Mathematics and Science Study (TIMSS) Grade 5 learner questionnaire





Website

TIMSS 2019 participating countries



More than 580 000 learners in 64 countries around the world participated in TIMSS 2019.

In TIMSS 2019, 297 schools and 11 900 learners participated in South Africa for Grade 5, and 520 schools and 20 800 learners took part for Grade 9.

Two provinces, Gauteng and Western Cape, were included as benchmarking participants for Grade 9, with their school samples boosted from 30 to 150 each.

■ Countries that participated in TIMSS 2019

■ South Africa

TIMSS 2019 South Africa

What can we learn from TIMSS?



Learner achievement |

- How are South African learners performing in mathematics and science across the country, and in comparison with learners in other countries?
- Have our learners reached the minimum competency levels in mathematics and science?

Home context |

- How do the home environments of our learners differ across contexts?
- How does home context relate to learner achievement?



School context |

- How do our schools differ by school fee-status (no-fee, fee-paying)?
- How does the school context relate to learner achievement?

Classroom context |

- How do classroom and teaching practices differ across our schools?
- How do differences in classroom contexts relate to learner achievement?



Learner characteristics |

- What are learners' attitudes towards mathematics and science at school?
- How do individual learner characteristics, such as gender, age and attitudes, relate to learner achievement?

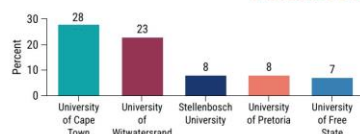


Reports

2020 Cohort: Enrolled at a University in 2022

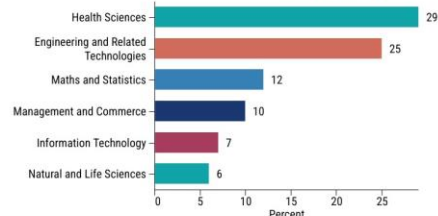
96% of the 2020 cohort were enrolled at a University or University of Technology in 2022

Institutions attended



The highest number of TDP respondents were attending the University of Cape Town and the University of the Witwatersrand, followed by Stellenbosch University and the University of Pretoria. These are 4 of the top 5 universities in the country.

Field of study



Almost 80% of respondents were studying STEM fields, with Health Sciences, Engineering and Related Technologies, and Mathematics and Statistics being the most popular fields.

The TDP participants are pursuing tertiary studies in STEM fields, which is one of the goals of the programme.

Qualifications

A high percentage of learners were studying **medicine and surgery**, as well as different strands of **Engineering**. Other specialisations included areas such as **Chemistry**; **Information Technology** and **Computer Science**; **Mathematics**, **Accounting** and **Actuarial Science**, and **Biology**.

The TDP participants are likely to enter high profile STEM professions and occupations.

University progression



In 2022, 89% of respondents were studying the same qualification as in 2021, while 10% were studying a different qualification.

At the end of 2022, 85% of learners met the requirements to proceed to the next year of study.

Funding

- Funds provided cover some of the expenses, which is especially important for those organisations that do not have enough budget for NSW participation.
- NSW is a platform to reach far more people than with existing budgets.

Organisational learning

- Organisations learn from participation in the NSW
- Provided with experiential learning contexts which they can reinforce their own knowledge.

Reach

- Increase reach to a wider audience, including more schools and the public.
- Opportunity to engage with audiences that are not normally reached for such events.

Increase impact

- Plans to increase impact through extending the number of events and their reach, and partnering with other organisations.
- NSW builds bridges between science and society.

Science awareness and literacy

- Enhance science understanding in communities.
- Create awareness among communities about science in their everyday lives and science based solutions.
- Promoting a culture of science.

Responsibility

- Organisations have a responsibility to develop the next generation of innovators and scientists, and to exchange knowledge and creative ideas around STEM.

Highlight/flagship event

- NSW is a highlight or flagship event for some organisations.
- One of the most relevant vehicles for raising science awareness and literacy levels

Collaboration

- Collaboration with SAASTA is critical in achieving DSI's objectives, and strengthening community engagement.
- Collaboration increases impact.

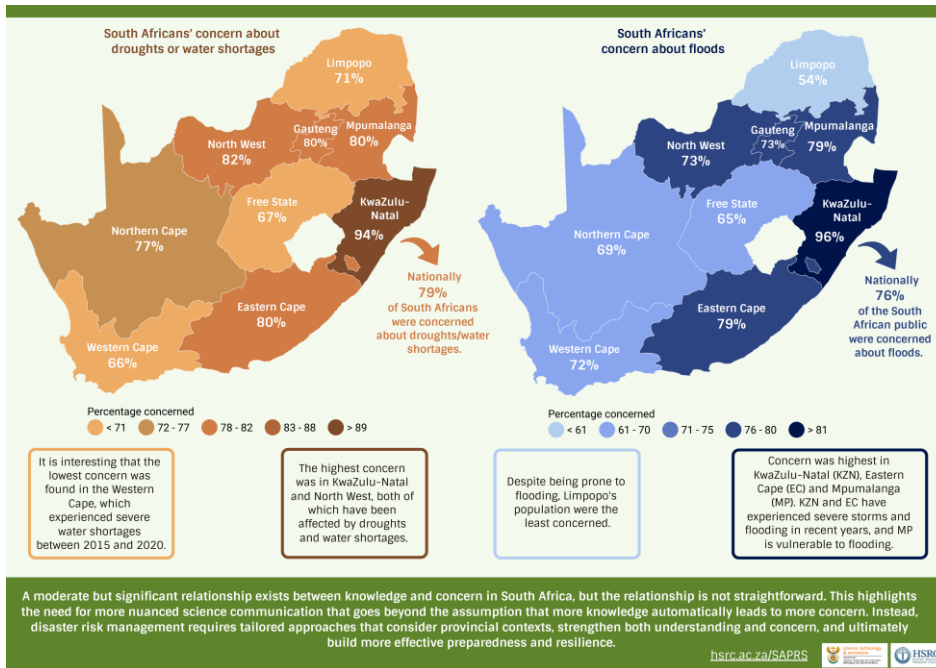
Learners

- NSW has a large impact on learners.
- Expose learners to science, the relevance and value of science, and highlight STEM careers.
- This is particularly important in rural communities where learners have limited resources and exposure.

Reasons for future involvement in NSW

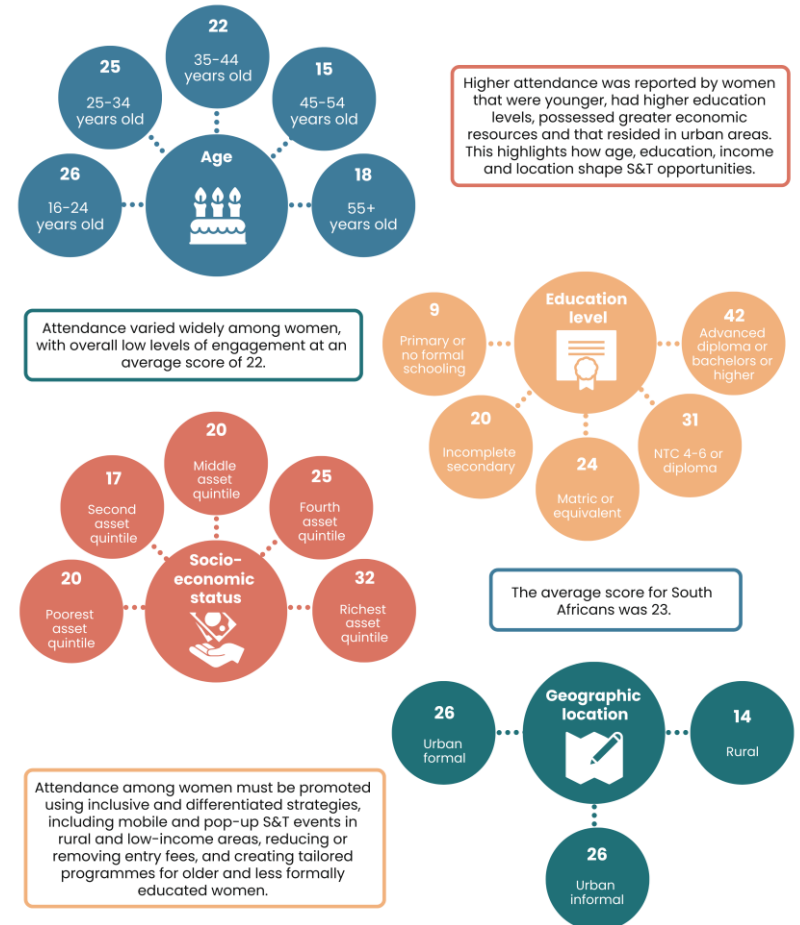


Standalone



South African Women's Engagement with Science and Technology

The 2022 South African Public Relationship with Science (SAPRS) Survey explored the public's science engagement activities and behaviours. Here we present women's attendance at science and technology (S&T) sites and activities as an index on a 0-100 scale, where higher values illustrate greater attendance.

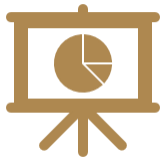




Lessons



Get ideas from different sources



Use reliable data sources



Develop a clear storyline



Collaborate with others



Check for accuracy



Design

Layout

What layout will best tell your story?

Flow

How can you ensure a logical flow?

Representation

What is the best way to represent your data?

Data

How can you represent complex data in a simple way?

Colour

What colours work well together?

Highlights

What do you want to stand out?

BULLYING IN SOUTH AFRICAN PRIMARY SCHOOLS

44%*

**OF GRADE 5'S REPORTED
BEING VICTIMS OF SOME
KIND OF BULLYING
ALMOST WEEKLY**

23%

reported being
physically hurt
weekly

**PHYSICAL
BULLYING**

39%

were made fun of
or called names
weekly

**VERBAL
BULLYING**

26%

were left out of
games or activities
weekly

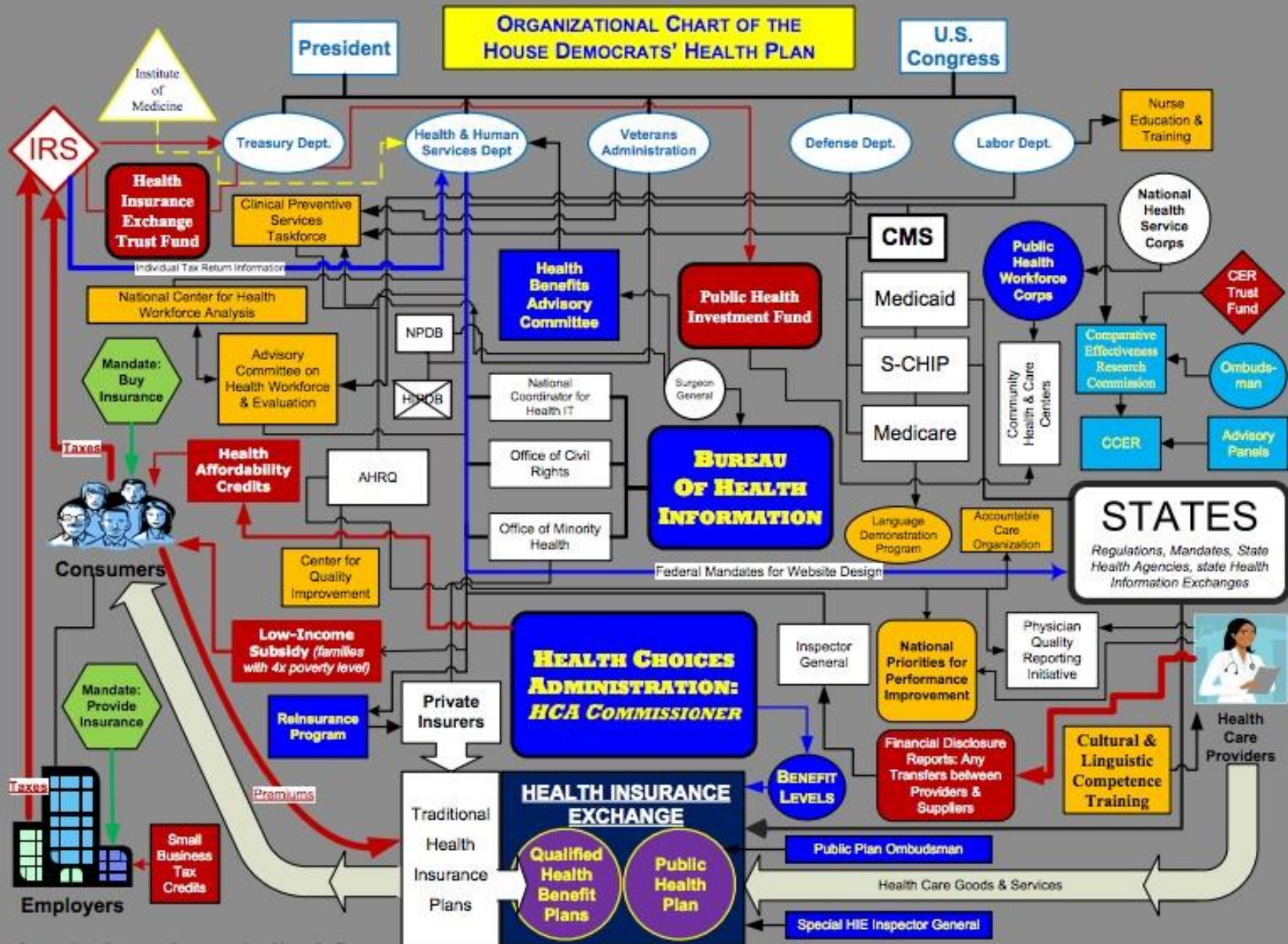
**SOCIAL
BULLYING**

85%

of parents reported
feeling that their
children were safe from
bullying at school

**PARENTS'
PERCEPTIONS**

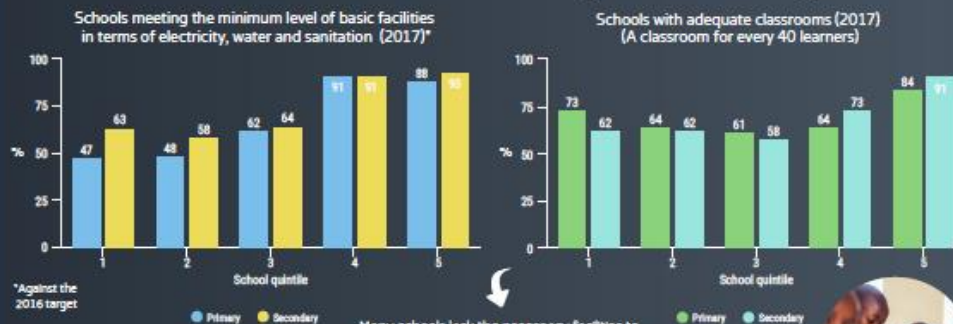
*Learners were scored according to their responses about how often they experienced eight bullying behaviours. Behaviours ranged from being made fun of and being left out of games, to coercion and physical violence. These responses were converted to a scale score. All figures based on South African learner and parent self reports in the 2015 Trends in International Mathematics and Science Study.



Are South African schools ready to re-open and co-exist with Covid-19?

The staggered reopening of schools in South Africa is set to begin in June, starting with the return of Grade 7 and 12 learners. This infographic explores whether our schools are adequately equipped to handle the required precautions against Covid-19. Using data from the August 2019 National Education Infrastructure Management System Standard Report and the 2018 School Monitoring Survey on Public Ordinary Schools, we outline the difficulties some of our schools will face in meeting the challenge of teaching and learning safely during a pandemic. We acknowledge that the Department of Basic Education has implemented a number of interventions to ensure that schools are ready to reopen safely; and many schools have implemented strategies to address these challenges before reopening, such as increasing their water supply and introducing new hygiene measures. Here we report on the best available figures prior to the implementation of these interventions.

Basic Facilities for Teaching and Learning



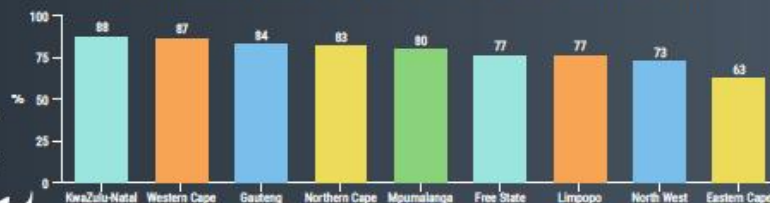
Many schools lack the necessary facilities to function effectively. This will be exacerbated by Covid-19 measures. Learners in lower school quintiles will be most affected.

Teacher Availability

Schools (primary and secondary) where allocated teaching posts were all filled (2017)

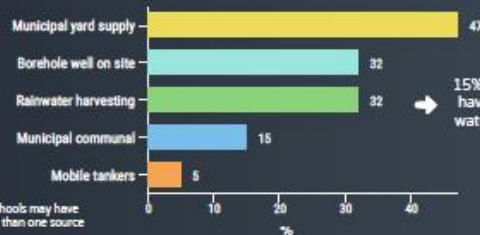


Teacher shortages will be exacerbated by measures, such as social distancing which will require smaller classes; and teachers with comorbidities will not be able to go to school.



Capacity for Maintaining Good Hygiene

Water sources (2019)**



Ablution facilities (2019)

16%

of Public Ordinary Schools only have pit latrines



Some schools lack the facilities required for maintaining good hygiene practices to avoid Covid-19 infections.

1. Department of Basic Education (2018). School Monitoring Survey 2017/2018: Technical Report.
<https://www.education.gov.za/Portals/0/Documents/Reports/S.%2018%20technical%20report%20School%20Monitoring%20Survey%202017-18.pdf?ver=2019-04-08-092847-947>

2. Department of Basic Education (2019). National Education Infrastructure Management System Standard Report: August 2019.
<https://www.education.gov.za/Portals/0/Documents/Reports/NEIMS%20Standard%20Report%202019.pdf?ver=2019-09-27-150623-250>

2008

MARCH 2007



LittleBigPlanet
FIRST UNVEILED
AT GDC 2007

OCTOBER 2008



LittleBigPlanet
RELEASED FOR
PLAYSTATION 3

2009

NOVEMBER 2009



LittleBigPlanet
PSP
RELEASED

2010

JANUARY 2010



LittleBigPlanet 2
RELEASED FOR
PLAYSTATION 3

2011

SEPTEMBER 2011



LittleBigPlanet 2
MOVE PACK
RELEASED ON THE PLAYSTATION STORE

2012

JANUARY 2012



LittleBigPlanet PS VITA
AND
LittleBigPlanet KARTING
COMING TO PLAYSTATION 3

LittleBigPlanet:

The Road to 7 Million Levels

A GENERAL HISTORY OF LBP

MEMORABLE MOMENTS

THE EVOLUTION OF
LBP COMMUNITY TALENT

JUST A FEW OF THE MOST
MEMORABLE LEVELS SO FAR.

2008



Little Big Calculator
BY UPSILAND
lbp.me/v/2008



Roll Over Beethoven
BY DREAMWORK
lbp.me/v/2008

2009



PIGULATION 1.0
BY JACKSACK/999
lbp.me/v/2009



Uncle Fritz's Fabulous
Furnishings
BY THEKILLERMILLER
lbp.me/v/2009



Dinosaurs Island 2
BY FISTYFROG
lbp.me/v/2009



Unhearted: Drakes
Misfortune 2
BY UNHEARTED
lbp.me/v/2009



Spice & CO
BY FOMH
lbp.me/v/2009



Sack and the
Snow Queen
BY GUNA
lbp.me/v/2009



Vietnam
FPS Advanced
BY TTP-KILLER
lbp.me/v/2009



Super Bunnio
BY STEVE_R23_GUNS
lbp.me/v/2009



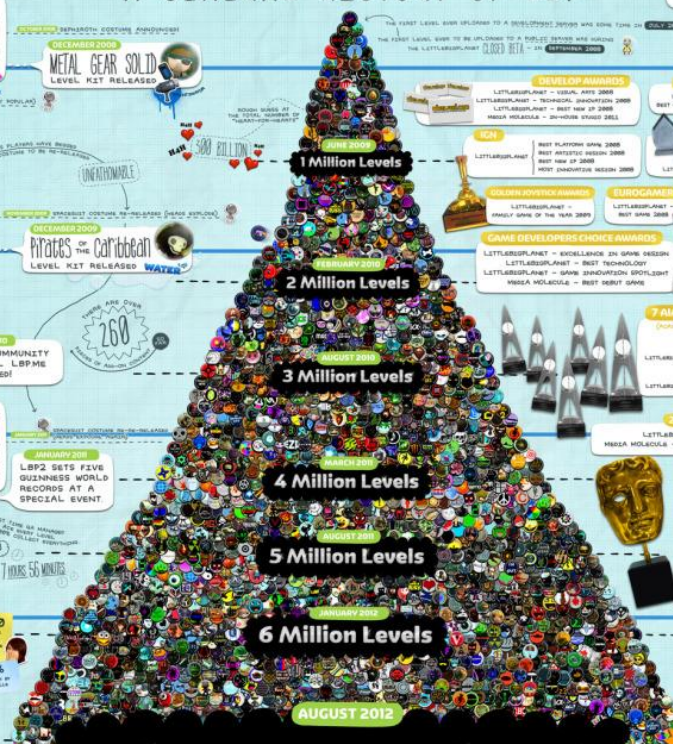
Clockwork 2
BY NUCLEARFISH
lbp.me/v/2009



Cosmicron
BY ROADTO-FLIPFLOP
lbp.me/v/2009



Striker Wings
(Side scroll shooter)
BY HEADMAN-1000
lbp.me/v/2009



7 MILLION LEVELS

AUGUST 2012

Oh! NOM!

NOM!

NOM!

NOM!

NOM!

NOM!

NOM!

NOM!

NOM!



IF YOU WERE TO PLACE ALL
COMMUNITY LEVELS
END TO END, THEY WOULD
CIRCLE THE EARTH.

6 TIMES

OR STRETCH
OVER HALFWAY TO THE MOON!

21 YEARS

THE AMOUNT OF TIME
IT WOULD TAKE SACKBOY
TO RUN THROUGH
ALL COMMUNITY LEVELS!

OVER 5,000
NEW LEVELS
EVERY DAY

200
AN HOUR!

100%
OF LITTLEBIGPLANET
COMMUNITY MANAGERS
HAVE BEEN HONORED FROM
THE COMMUNITY
(IT'S A TOTAL OF FIVE)

THE TOTAL NUMBER
OF PEOPLE HONORED FROM
THE LBP COMMUNITY
WHO ARE NOW WORKING
ON LITTLEBIGPLANET
FULL TIME

DEVELOPMENTS
OUTSIDE THE MOLECULE.

14 WEDDINGS

21,327,498
PAGES INDEXED IN GOOGLE

534,559
PAGES CRAWLED BY
GOOGLE EVERY DAY

facebook

970,298
FACEBOOK LIKES

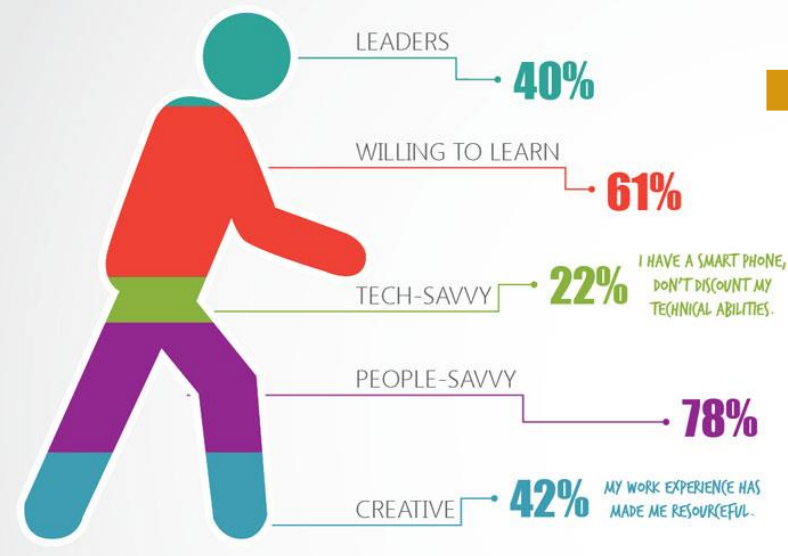
448,925
EMAILS FROM FANS

346
EMAILS FROM
UNDER-18S
ASKING FOR
A JOB

Mm

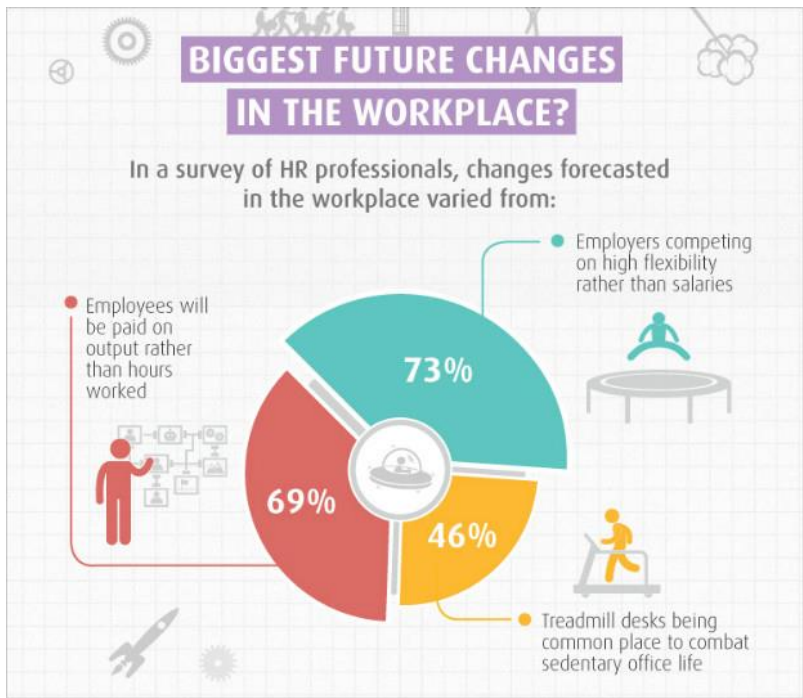
mediamolecule.com @mediamolecule

HOW **BOOMERS** DESCRIBE THEMSELVES

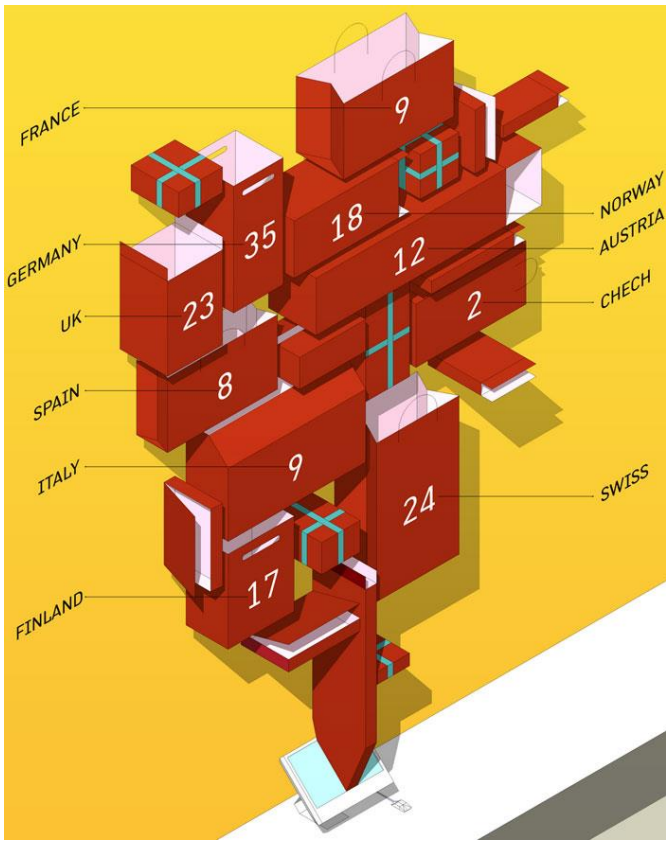


➡ Clarity?

➡ Logic?



➡ Percentages?



➡ Visual appeal?

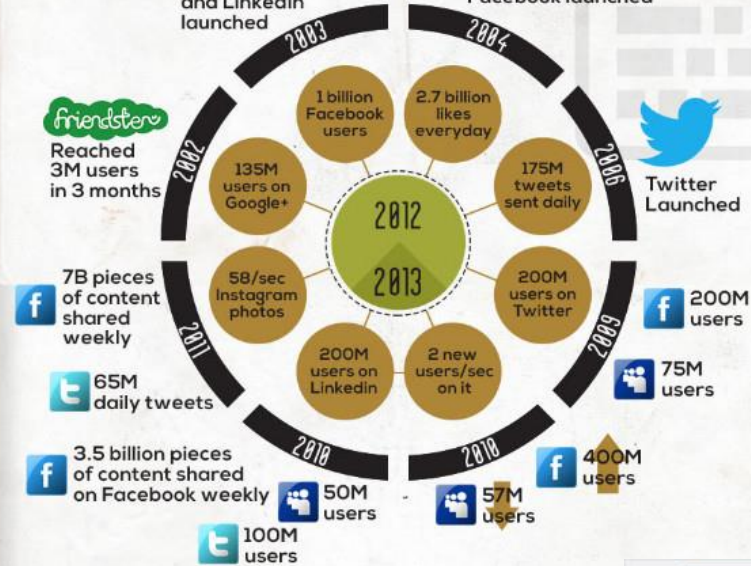
SOCIAL MEDIA USAGE



LinkedIn
myspace

Myspace and LinkedIn launched

facebook
Facebook launched



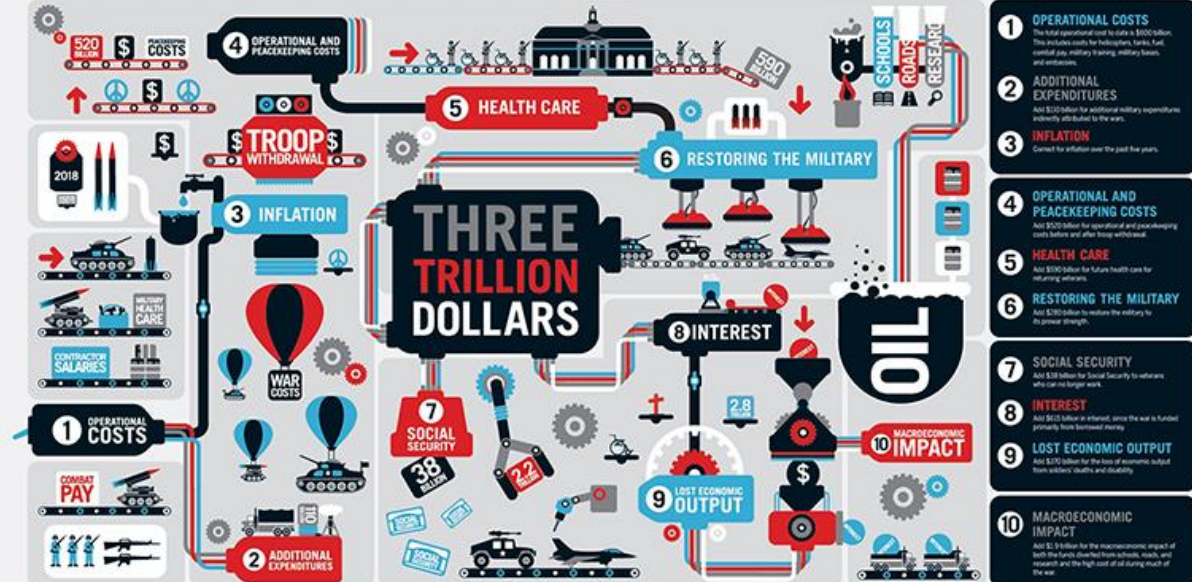
Clear story?

Too much information?



THE THREE-TRILLION-DOLLAR WAR ITS COST IN TEN STEPS

In 2003, Secretary of Defense Donald Rumsfeld estimated that a war with Iraq would cost \$60 billion. Five years later, the cost of Iraq War operations is more than 10 times that figure. By the time the United States leaves Iraq, the estimated cost of war will be more than \$3 trillion.





Good infographics

- Tell a clear story
 - Provide a new angle where possible
- Use reliable data sources and combinations
 - Different sources of data
- Make it easy to follow
 - Flow
- Use simple language
- Target specific audiences
 - How is it useful to them?
- Well designed

7th Annual Emerging
African Researcher
Training Academy
2026



Using social media

*African Research Voices in
the Age of Artificial
Intelligence*



Why use social media?

- Increase visibility and impact of your research
- Reach a broader audience (academics, policymakers, media, public)
- Foster collaboration and feedback
- Build your professional identity online
- Grow your research network
- Track engagement (likes, shares, reads)



Social media platforms

Platform	Best for	Key features
X (Twitter)	Sharing papers, live updates from conferences	Hashtags (#AcademicTwitter), threads, visuals
LinkedIn	Professional networking, career development	Articles, professional visibility, connections
YouTube	Explainers, lectures, visual storytelling	Video abstracts, recorded talks
Instagram	Visual summaries, highlights	Infographics, short videos, “behind-the-scenes”
TikTok	Short, creative science communication	Reaching younger or non-specialist audiences
Blogs etc	In-depth reflections, storytelling	Narrative style



Social media pros and cons

Pros

- Wide, rapid reach
- Builds personal brand
- Enhances accessibility
- Networking and collaboration
- Provides metrics

Cons

- Time-consuming
- Risk of misinterpretation/oversimplification
- Exposure to criticism/trolling
- Data privacy/copyright concerns



Effective use

- Share **key findings**
- Use **plain language**
- Use **visuals**
- **Cite** your work and others'
- **Tag** collaborators and institutions
- Use relevant **hashtags** to reach communities
- **Post** regularly but avoid spamming
- **Engage** with posts - comment, share, build connections
- Maintain research **ethics and confidentiality**



Getting started

- Choose 1 or 2 platforms to begin
- Develop a simple content plan (1–2 posts/week)
- Repurpose conference posters, abstracts, infographics
- Follow relevant hashtags, institutions and thought leaders
- Be careful not to share confidential or unpublished data
- Personal vs professional accounts



LinkedIn



Sylvia Hannan 

Chief Researcher at Human Sciences Research Council

Durban, KwaZulu-Natal

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Post impressions **19**



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1mo • Edited • 

za Our knowledge, our stories. za

South Africans' connection with traditional science and technology: insights gained from the first South African Public Relationship with Science Survey. [#SAPRSurvey](#) [#HeritageDay](#) [#SouthAfrica](#)

<https://loom.ly/TRUDHAY>

Department of Science, Technology and Innovation

OUR KNOWLEDGE, OUR STORIES. SOUTH AFRICANS' CONNECTION WITH TRADITIONAL SCIENCE AND TECHNOLOGY

For the first time, a national survey of South Africans' attitudes towards traditional science and technology has been conducted. The survey, which was part of the HSRC's first South African Public Relationship with Science Survey, found that 57% of South Africans trust science and technology news. The survey also found that 60% of South Africans access science information via television, 51% via radio, and 57% via social media. The survey was conducted by the HSRC and the Department of Science, Technology and Innovation.

DIFFERENCES IN ATTITUDES RELATED TO THE PROMISE OF TRADITIONAL SET

Public attitudes by different socio-demographic characteristics

When it comes to the promise of traditional science and technology, South Africans have different attitudes depending on their socio-demographic characteristics. The survey found that 57% of South Africans trust science and technology news, while 43% do not. The survey also found that 60% of South Africans access science information via television, 51% via radio, and 57% via social media. The survey was conducted by the HSRC and the Department of Science, Technology and Innovation.



Sylvia Hannan

Chief Researcher at Human Sciences Research Council

Sylvia Hannan reposted this



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The HSRC's [#SAPRS](#) survey found that only 57% of South Africans trust science and technology news.

... more

17 JULY

PROMOTING SCIENCE AND TECHNOLOGY INFORMATION

The SAPRS Survey found the following among the South African public:

- Access to science information via Television: **60%** at least weekly
- Radio: **51%** at least weekly
- Trust in science and technology news: **57%**

National Science Month (NSM) in South Africa's Republic science engagement event highlighting the importance of science in people's daily lives.

Findings from the South African Public Relationship with Science (SAPRS) Survey



Search

Home My Network Jobs Messaging Notifications



Sylvia Hannan 

Chief Researcher at Human Sciences Research Council

Durban, KwaZulu-Natal

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Sylvia Hannan • You

Chief Researcher at Human Sciences Research Council

Natural hazards such as droughts and floods can trigger disasters when coupled with vulnerability and inadequate measures to mitigate their impacts. Disasters hit hardest at the local level, causing loss of life and major social and economic disruption. Many are worsened by climate change, undermining progress toward sustainable development.

UNESCO champions a proactive approach — shifting from reacting after disasters to acting before they strike. Established in 1989 by the United Nations General Assembly, the International Day for Disaster Risk Reduction (13th October) promotes a global culture of risk awareness and disaster reduction. Through prevention, preparedness, and capacity-building, communities worldwide can reduce their exposure to hazards and strengthen their resilience to disaster related impacts.

Department of Science, Technology and Innovation



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SAPRS infographic for International Day for Disaster Risk Reduction





X

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27-31 July 2026 || 09:00-16:00 daily|| Online via Zoom

Show Up. Skill Up. Lead the Future of Research.

Click the link to **express your interest** in participating



The Language of Skills - a new chapter examining how power and policy shape what counts as skills for African youth.
#YouthEmployment
#Africa #Skills



Bullying in SA schools is still devastating young lives. A new HSRC study shows over half of primary learners have had something stolen, 47% were mocked, and cyberbullying is rising. Every child deserves safety, dignity, and belonging. We must act. #EndBullying





Facebook/Instagram

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Leading with African knowledge. *Advancing with AI.*



27-31 July 2026
09:00-16:00 daily
Online via Zoom

Are You Ready to Amplify Your Research Voice?
The future of research is being shaped by Artificial Intelligence—and Africa must be part of the conversation. Designed for researchers, Master's and PhD students, postdoctoral fellows, lecturers, and research interns.

Show Up. Skill Up. Lead the Future of Research.

Click the link to **express your interest** in participating



Women's Trust in the Work of Scientists in South Africa

The **2022 South African Public Relationship with Science (SAPRS) Survey** examined public attitudes towards several science and technology (S&T) related aspects, including trust in the work of scientists. Here we report on differences in patterns of trust among women, based on an index scaled from 0-100, with higher values indicating greater trust.



hsrcza The 2022 South African Public Relationship with Science (SAPRS) survey revealed that the experiences of women in science and technology (S&T) are far from uniform.





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Human Sciences Research Council

@HSRC_za · 319 subscribers · 225 videos

Social science that makes a difference ...[more](#)

hsrc.ac.za

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Videos



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Minister Blade Nzimande | Engaged Research...
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1 unavailable video is hidden

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SAPRS Survey | Trust in Science
Human Sciences Research Council · 9 views · 3 months ago



SAPRS Survey | S&T Information & Engagements
Human Sciences Research Council · No views · 3 months ago



SAPRS Survey | Promise & Reservation
Human Sciences Research Council · No views · 3 months ago



Role of AI

- Summarise research for different audiences
- Draft PowerPoint slides
- Create social media content for different platforms
- Generate images and infographics
- Turn your research into video or audio
- Repurpose one piece of research across different formats
- Support long-term engagement



Role of AI

BUT REMEMBER!

- YOU are the researcher, AI is a tool to enhance your work
- Carefully check anything AI generated
- Use it as a start, but make it your own



Slide decks



Bridging the Divide: Science Engagement and Inequality in South Africa

An analysis of information access, trust, and public participation based on the 2022 South African Public Relationship with Science (SAPRS) survey.

© NotebookLM

SAPRS Survey • HSRC • 2022

Science Starts Young

Youth Engagement with Science & Technology in South Africa

Sylvia Hannan & Benjamin Roberts | Human Sciences Research Council

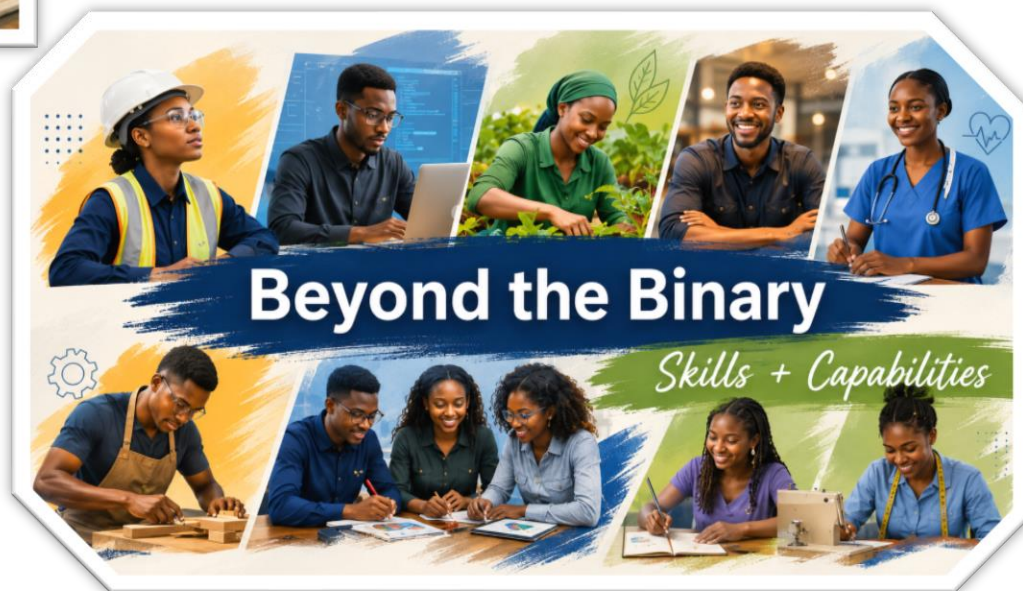
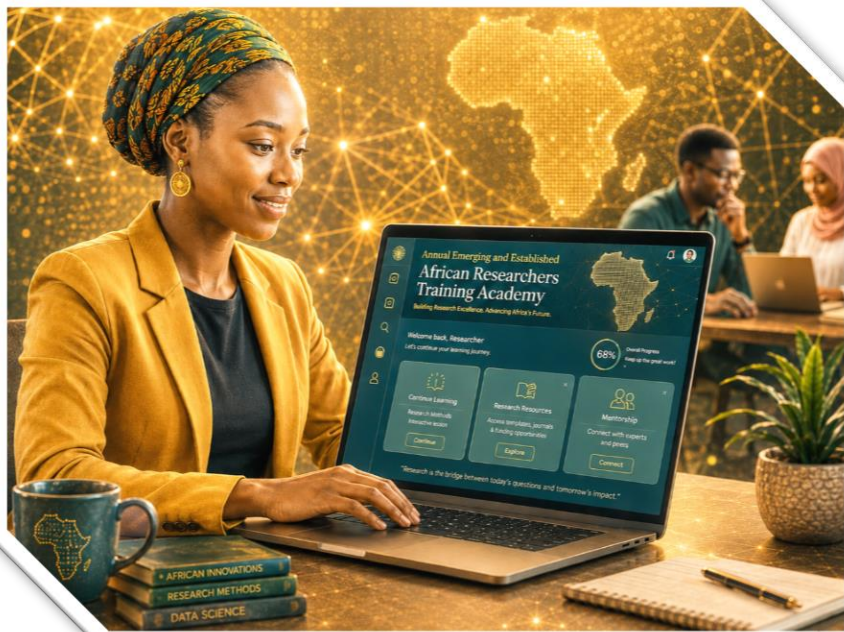
3 KEY
STATS

3 types
of engagement

15-24
youth cohort



Images





Social media cards



11 JULY

PROTECTING OUR ENVIRONMENT FOR THE FUTURE

The SAPRS Survey found the following
among the South African public:



Water
pollution

54%
very
concerned

39%
very
knowledgeable



Air
pollution

47%
very
concerned

35%
very
knowledgeable



Soil
erosion

37%
very
concerned

27%
very
knowledgeable

National Science Month (NSM) is South Africa's flagship science engagement
event highlighting the importance of science in people's daily lives.

Findings from the South African Public
Relationship with Science (SAPRS) Survey



hsrc.ac.za/SAPRS



science, technology
& innovation

Department:
Science, Technology and Innovation
REPUBLIC OF SOUTH AFRICA



HSRC
Human Sciences
Research Council

WOMEN'S MONTH

Women in STEM

EMPOWERING MINDS.
SHAPING TOMORROWS.

The 2022 South African Public
Relationship with Science (SAPRS)
Survey investigated public knowledge,
attitudes and engagement with
science and technology.

64%

of South Africans
agreed
that S&T are
careers suitable
for women.



This indicates a **shift away** from traditional views of science, technology, engineering
and mathematics (STEM) as career pathways that are better suited for men.



science, technology
& innovation
Department:
Science, Technology and Innovation
REPUBLIC OF SOUTH AFRICA



HSRC
Human Sciences
Research Council

Scan the QR code to
learn more about the
SAPRS Survey.





Infographics

INTERCONNECTED

Skills work together, not in isolation.



CONTEXT-DEPENDENT

The value of a skill changes with context.



With infrastructure & market access, digital skills thrive.



Without infrastructure & supportive norms, same skills have limited value.



Context shapes which skills are recognised, valued and rewarded.

BUNDLED CAPABILITIES

Livelihoods are built on combinations of skills.



Technical Skills



Business & Market Knowledge



Adaptability & Risk Taking



Relationships & Social Capital

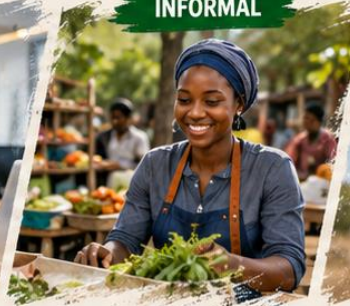


Young people combine, adapt and redeploy skills as opportunities and circumstances change.

FORMAL



INFORMAL



HYBRID



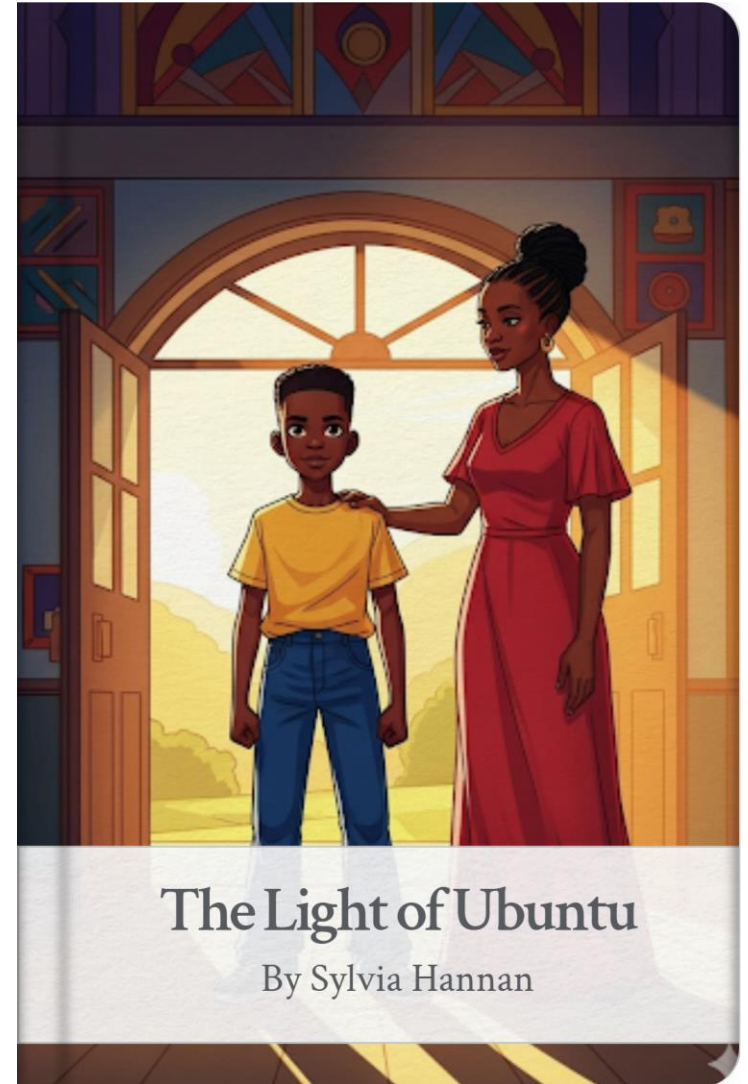
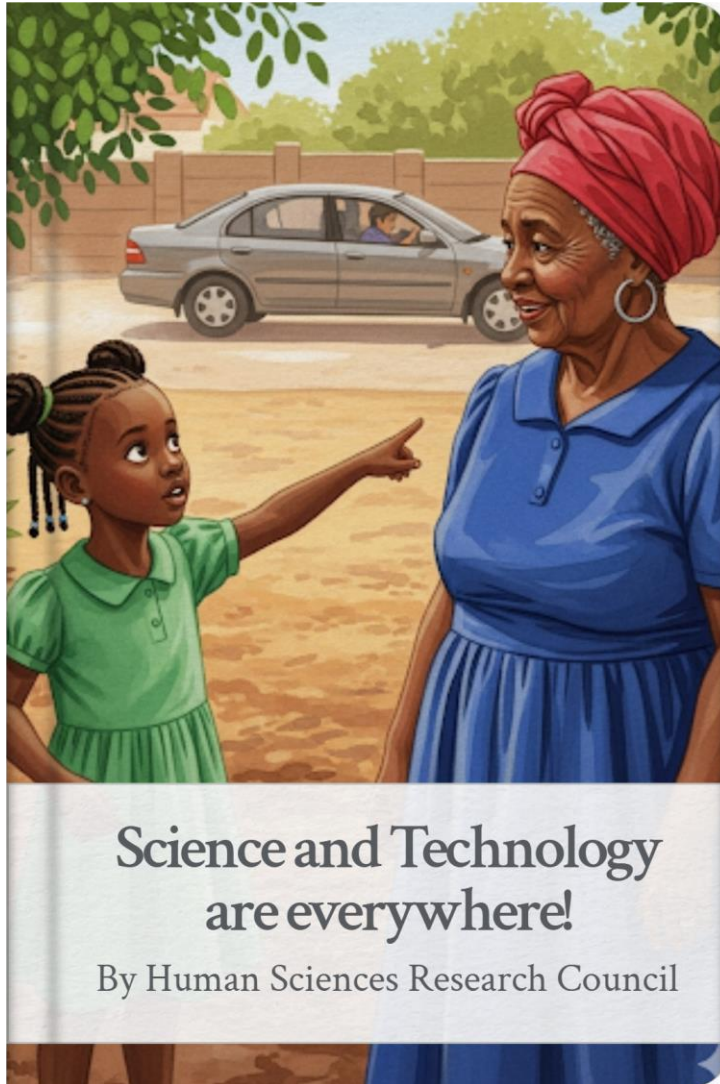
Across Multiple Livelihood Pathways



It's not just about which skills you have—it's about the bundle and the context that turns skills into a sustained livelihood.



Storybooks





Data visualisation platforms

Platform	Website	Platform	Website
Tableau Public	tableau.com	ChatGPT	chatgpt.com
Power BI	powerbi.microsoft.com	Claude	claude.ai
Flourish	flourish.studio	Gemini	gemini.google.com
RAWGraphs	rawgraphs.io	NotebookLM	notebooklm.google
Datawrapper	datawrapper.de	Qwen	qwen.ai
Canva	canva.com	Reve	reve.com
Venngage	venngage.com	Pictory	pictory.ai
Infogram	infogram.com		
Piktochart	piktochart.com		
ChartBlocks	chartblocks.com		
Plotly	plotly.com		
Observable	observablehq.com		

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Thank you

Any questions?

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