

Strategic DataCommunications forClimate Action

Outline

Communicating data for impact

Identifying issues that matter

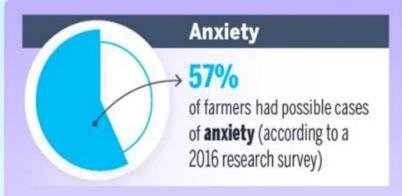
Defining the target audience

Developing a communication product from data

Review and feedback



The Mental Health of Canadian Farmers



Stress

High levels of perceived stress affect:



45% 20.4% of the general population (2020)

Depression

Possible cases of **depression** affect:



(2016)





There is **1** psychologist for every **28,500** people in rural areas

53.4% of households in rural areas have access to high-speed broadband Internet



Compared to 89.5% of households in Canada as a whole (2022)



Compared to 1 psychologist for every 3,848 people in urban areas (2015)









Communication for data use

"We can improve the value of statistics by putting users of statistics truly at the center.

However expertly and professionally produced, official statistical products are of no use unless they meet someone's needs."

- UN Economic Commission for Europe 2018





Importance of data use for development

Data is crucial to achieving:

2. Effective mobilization and use of resources

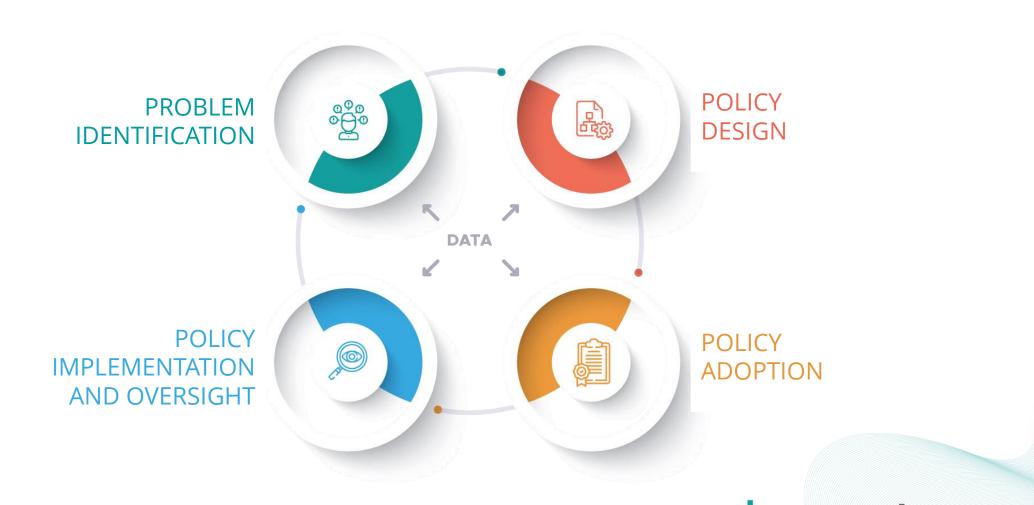
- Data serves to scrutinize government's spending during the review and approval of budgets
- Inform resource mobilization to support development programs

3. Efficient public service delivery

 Data helps ensure that plans are being implemented and allocated funds are being used for the right purposes

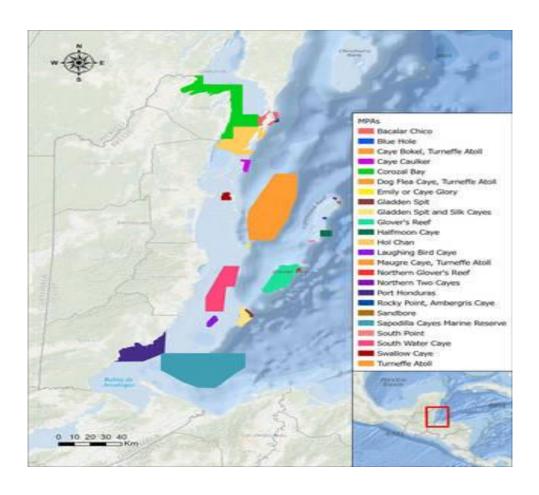


Data in national development planning process



Example: Data for impact

Coral reef risk in Belize



NASA Satellite data used to determine the risks to coral reefs, such as development, overfishing, pollution, and climate change.

Creation of a vulnerability index

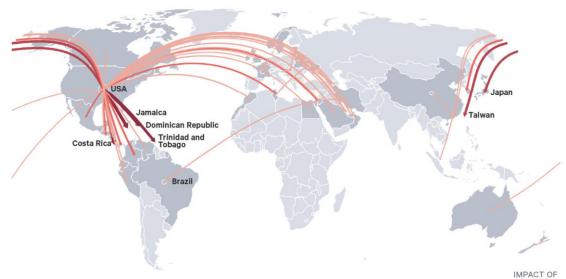
Used to inform Belize's Coastal Zone Management Plan



Example: Data for impact Jamaica food supply and US drought

Top 5 High Risk Bilateral Trade Relationships for Maize

Visualising the top exporters and importers of climate change risk for global maize trade.



#	EXPORTER	IMPORTER	RISK TO BILATERAL TRADE	EMBEDDED TRADE FLOW (TONNES)	IMPORTER'S TOTAL STOCK	CLIMATE CHANGE ON PRODUCTION
1	USA	Jamaica		0.28mn	0.32mn	-45.5%
2	USA	Costa Rica		0.42mn	0.53mn	-45.5%
3	USA	Dominican Republic		0.83mn	1.13mn	-45.5%
4	USA	Trinidad and Tobago		0.09mn	0.13mn	-45.5%
5	USA	Taiwan		2.85mn	4.62mn	-45.5%

Supply chain and trade data can highlight potential vulnerabilities to climate change impacts

Jamaica is highly dependent on US for maize imports.

A drought in the maize-producing US Midwest can pose food risks to food security in Jamaica and other import-dependent countries

This data can shape trade policies, provide insights into the most vulnerable communities, and support adaptation measures

Source: Adams et al. 2020.

SEI

Your experience

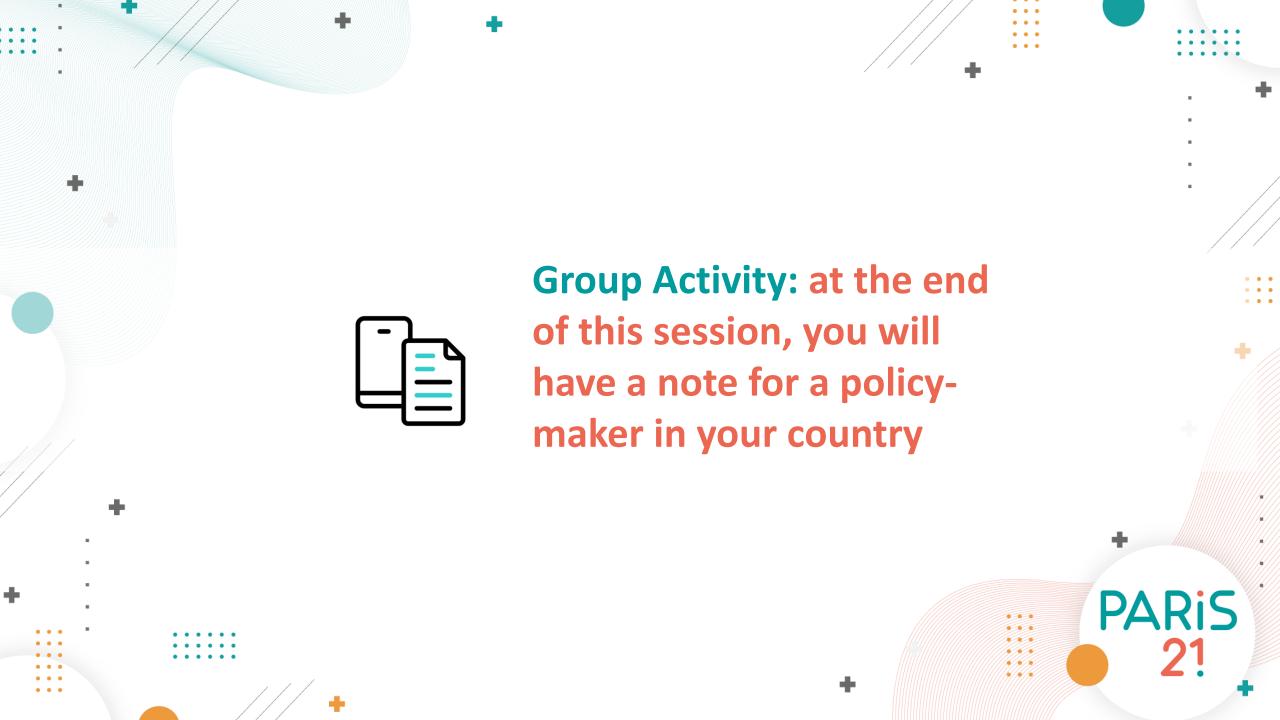


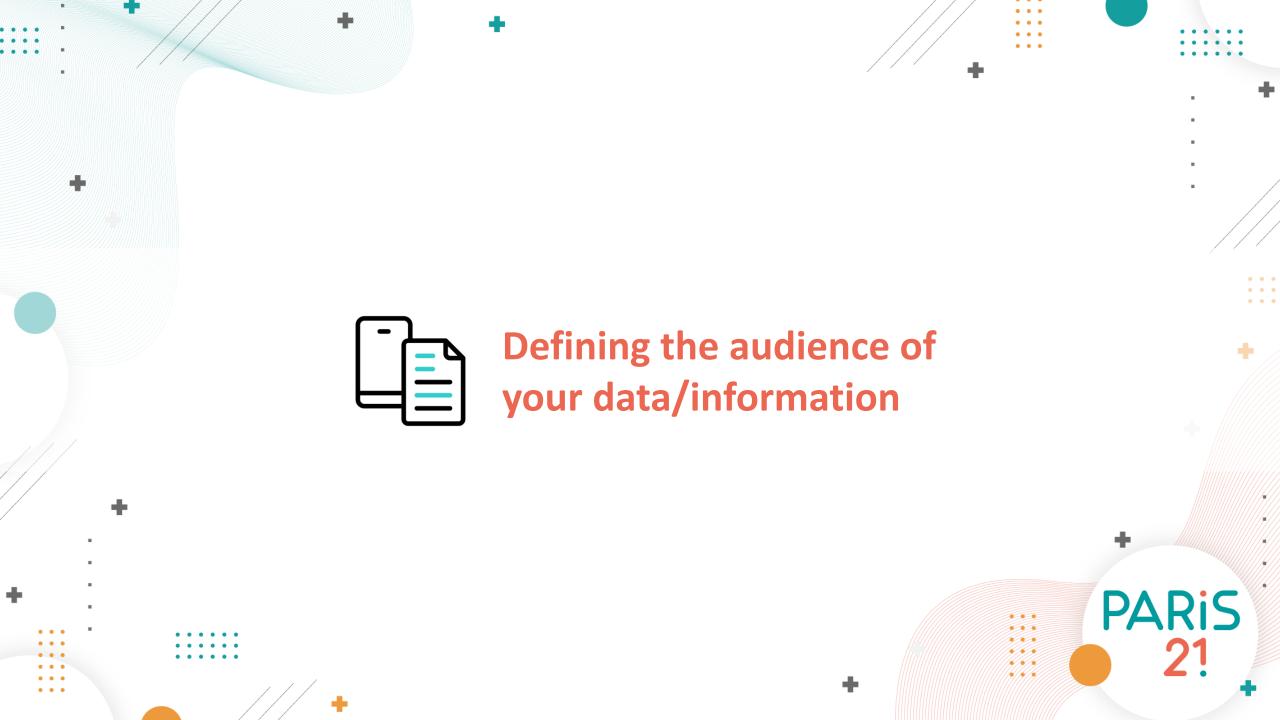
Talk to a neighbor:

In your experience,

Who are main users of climate related statistics?

What works and what doesn't work when communicating data to them?





Strategic communications: a first step

The first step is to identify the purpose of your communications product.

Consider, for example:

Answering a request:

- Do you know why your audience needs this evidence/data?
- How will they use it?
- Which of audience's key functions does it relate to?
- Do they have a preferred format to receive the information?

Proactively developing a product:

- Are you raising awareness about the importance of an issue-'putting it on the radar'?
- Are you aiming to increase knowledge about an issue?
- Are you showing the implications of different possible courses of action?



Understanding your audience's data needs

Figure 1. Users of official statistics and their data needs





PARIS

Reference: UNECE Taskforce on the value of official statistics https://unece.org/DAM/stats/publications/2018/ECECESSTAT20182.pdf

Example: Climate Change

Video: NYC Climate data dashboard



Group Activity: Strategic communication planning



Did they ask for the information?





is it better to approach

written summary?

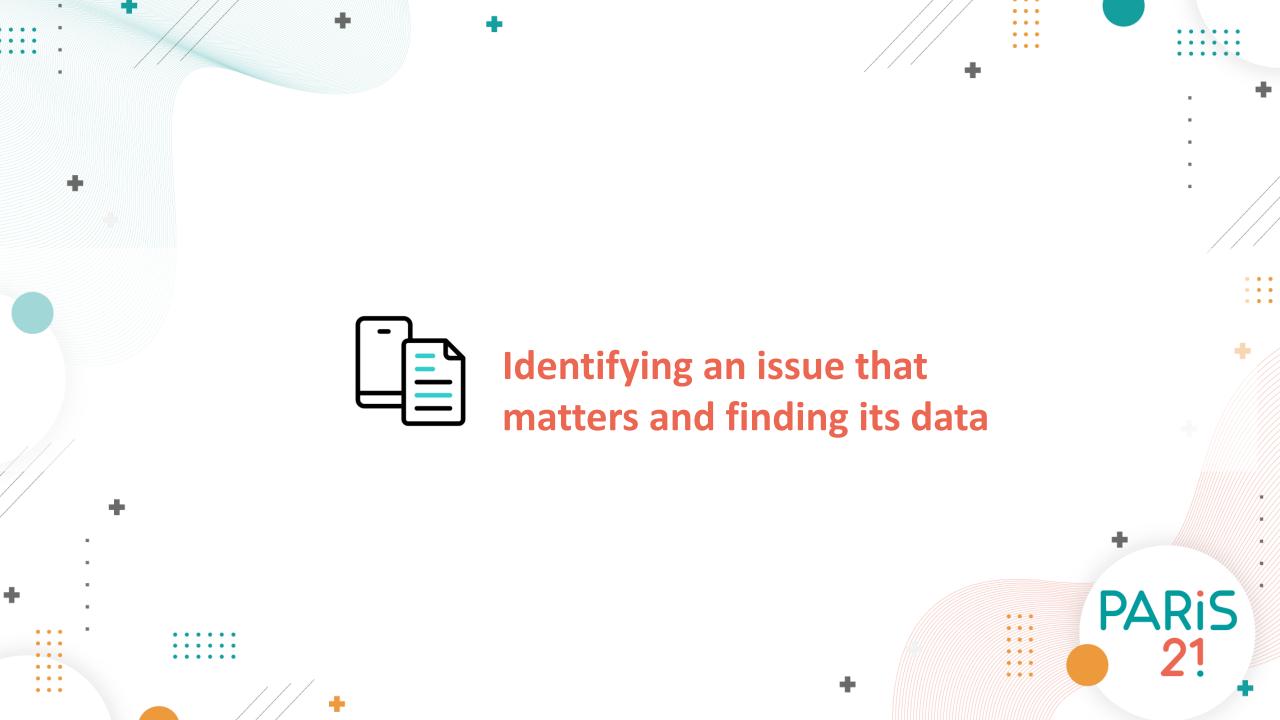
them for a meeting or develop a

CHANNEL AUDIENCE MESSAGE What role do they play? What is the most important thing the How and where can you reach your audience needs to know? audience? Are they specialists in the topic or are How does this audience best receive Why is this issue or information they non-technical? important/urgent right now? information? What might they need to know? What Do you know how they tend to prefer How does this issue affect your target audience? Why should they care? communications? are they currently working on? What has worked well in the 'So what'?: what are the implications for your audience and/or what action past, and what has not? For example, How can they use your information? can they take based on the situation?

What background/contextual

information is needed

to support the messages?



Explaining issues through causes andconsequences: Youth marriage



Underlying causes

Poverty

Tradition and attitudes

Protection

Issue

Girls getting married at a young age

Consequences/effects

Health risks at childbirth

Lack of education

Domestic violence

Without doing complicated statistical analysis, you can provide a holistic picture!



Example: Mozambique



Source: UN Photo/ASCHA/Diolene Gime

48% poverty rate

Cultural acceptance

48% of girls married before 18

46% of girls aged 15-19 were pregnant or already mothers

49% of girls completed primary education

Sources: Ministry of Health Mozambique 2015, Household Budget Survey 2015, UNESCO 2018



Explaining issues through causes andconsequences: Food insecurity



Underlying causes

Poverty

Import dependence

Climate change

Issue

People not having access to food (food insecurity)

Consequences/effects

Hunger / malnutrition

Conflict

Migration

Without doing complicated statistical analysis, you can provide a holistic picture!



Example: Jamaica



19% poverty rate

Sources Statistical Institute of <u>Jamaica</u>, The Planning Institute of Jamaica

20% food imported

41% of population is food insecure

40% of children are malnourished

Group Activity

- 1. Choose your topic
- 2. Identify causes and consequences
- 3. Start looking for data on what you identified

When to use proxy indicators

- 1. When data on the required indicator is not available
- 2. When data relevant to the required indicator is available but incomplete (e.g. different classification or coverage)
- 3. When you are seeking a quantitative measurement of a contextual issue such as socioeconomic wellbeing

Proxy indicators: Examples



Socio-economic wellbeing

- The possession of household assets (e.g. a television, computer etc.,) can be good proxy indicators for household income than just earnings from a job.
- The replacement of thatched roofs with corrugated iron roofs may be an indication that the economic situation of a household has improved.
- The payback rate in a micro-credit programme gives some indication of the quality of the project management (preliminary clarifications with the borrowers, customer care, etc.)



Governance

- A proxy measure of improved governance could be, in some cases, the number of political parties and voter turnout.
- The number of female members of a chamber of commerce, for example, is a proxy indicator of the percentage of female business owners or executives.

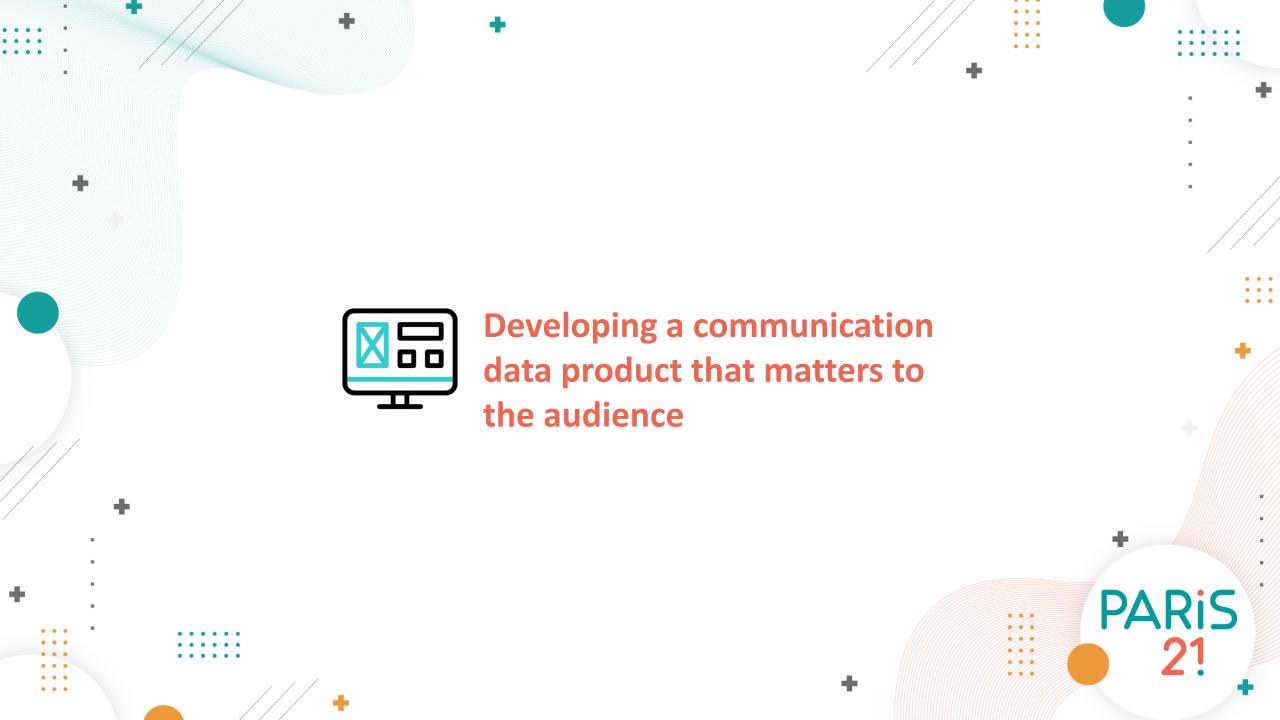


Anti-Corruption

- Complicated bureaucratic processes such as 254 steps and two years to get a building permit may be a key proxy indicator for corruption.
- A proxy indicator for payroll fraud in the civil service could be the number of ghost workers.
- An indicator of patronage in some countries could be how many senior civil servants change jobs after a change in government.







Reflections Are there other things you would be interested to know and from whom? What would you want to communicate to the planning unit at the municipal assembly, of which you are an ex officio member? What would you be communicating to the minister for water and sanitation/minister of finance? **PARIS**

Ghana Water Company connection in two districts from 2009 to 2019 Percentage of Percentage of households households 74.01% 25.99% Within a 10 year period the New Juaben South District has had more **Hohoe District** households connected to Ghana Water Company than the **New Juaben South District Hohoe District.** Percentage of Households in New Juaben South District Percentage of Households in Hohoe District ercentage of Households connected to GWC Year

Tips for effective messaging

- Responds to the purpose
 - Meets audience needs
 - Appropriately timed
- Contextually relevant
 - Frame within and respond to development context
 - Links to actions or real-life implications
- Clear and concise



Writing about data: Dos and Don'ts

	POOR	BETTER	TIP	
	"The largest contributor to the monthly increase in the CPI was a 0.5% rise in the transportation index."	"Higher auto insurance premiums and air fares helped push up consumer prices this month."	Get straight to the point	
	"Working seniors were also somewhat more likely than younger people to report unpaid family work in 2004 (12% versus 4%)."	"About 12% of working seniors reported unpaid family work in 2004, compared with 4% for younger people."	Avoid using proportions in brackets	
	"The proportion of seniors who were in the labour force rose 5% from 15% in 2003 to 20% in 2004."	"The proportion of seniors who were in the labour force rose five percentage points from 15% in 2003 to 20% in 2004."	Don't confuse percentage changes with percentage point changes.	
	"Two out of every five Canadians reported that they provided care for a senior in 2001, compared with one in seven in 1996, according to the census."	"About 40% of Canadians reported that they provided care for a senior in 2001, up from 14% in 1996, according to the census."	Avoid changing denominators	
"Of the \$246.8 billion in retail spending last year consumers spent \$86.4 billion on cars and parts, and \$59.3 billion on food and beverages."		"Of every \$100 spent in retail stores last year, consumers spent \$31 on cars and parts, compared with only \$23 on food and beverages."	Reduce big numbers to understandable levels	

PARiS 21

Some key tips: readability

- **Titles matter:** short, concrete, to the point
- Summary of key messages in bullet points/pop-out box at the beginning
- **'Stand first':** 1-2 sentences to explain what the document is about
- Headings: clear and concrete, enabling quick scanning
- 'So what?' : recommendations or implications are clear, ideally no more than 3, and linked to the mandate/actions of the audience



Reflections on communicating data: Oxfam and 'killer facts'

This guide from Oxfam's policy and practice section focuses on how to use 'killer facts': 'punchy, memorable, headline-grabbing statistics' that can be used in reports and visualisations.

Tips include:

- Big numbers: a single statistic that shows the scale of the issue
- Juxtaposition to highlight injustices and double standards
- Absurdity and surprise to make a juxtaposition more memorable
- Humanising abstract issues and showing human scale

Activity





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MESSAGE

What role do they play?

Are they specialists in the topic or are they non-technical?

What might they need to know? What are they currently working on?

How can they use your information?

Did they ask for the information?

What is the most important thing the audience needs to know?

Why is this issue or information important/urgent right now?

How does this issue affect your target audience? Why should they care?

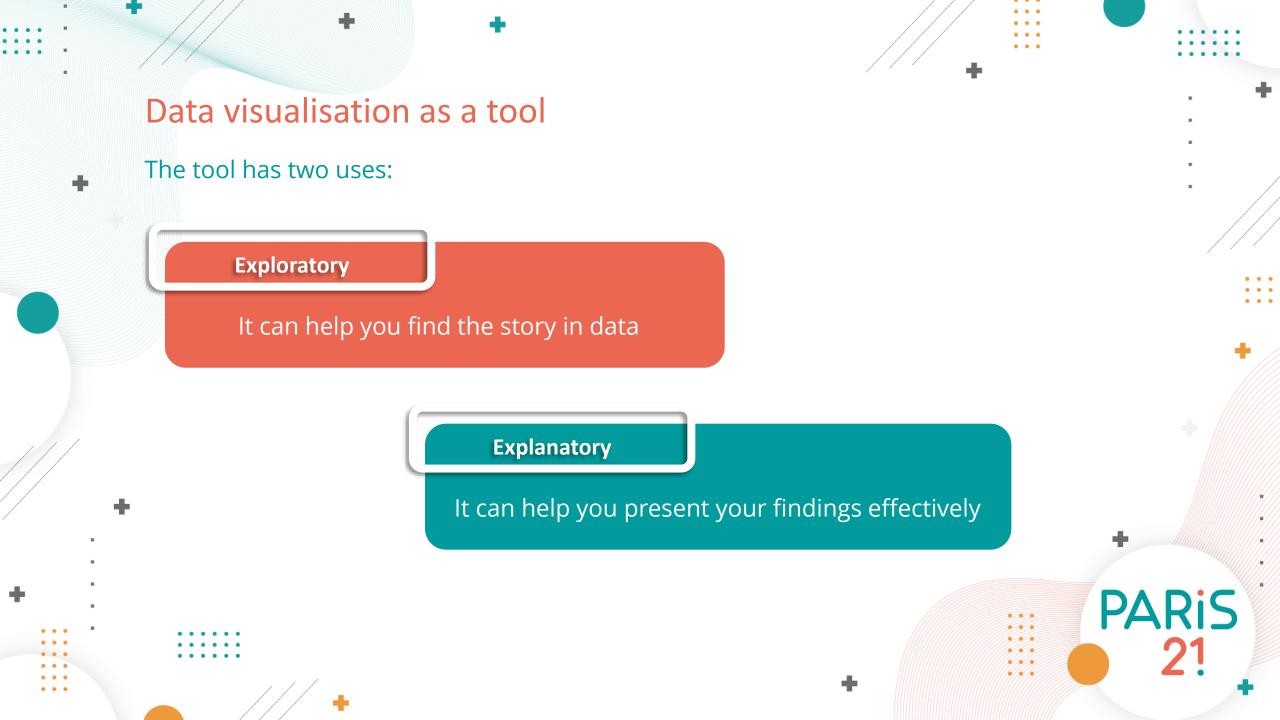
'So what'?: what are the implications for your audience and/or what action can they take based on the situation?

Does the audience need any background information to support the messages?

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Data Visualization

- What types of visuals do you use when communicating in an official setting?
- How comfortable are you producing visuals to communicate evidence?
- In what situations or for what purposes do you use visual communication approaches?
- Are there any situations in which you wouldn't use a visual communication approach?



Use of data visualisation: Example

The female unemployment rate in Belgium has gone down since 1990.

In 1990, the female unemployment rate was 12%, more than twice that of men.

Since 2011, female unemployment has been lower than or at the same level as male unemployment.

Unemployment rate in Belgium 15% **Female** Male 1990 2011 2017 Year Source: OECD



What is data visualisation?

Visual representation of properties of data

Bars

Lines

Circles

Squares

Colour

Volume

Size

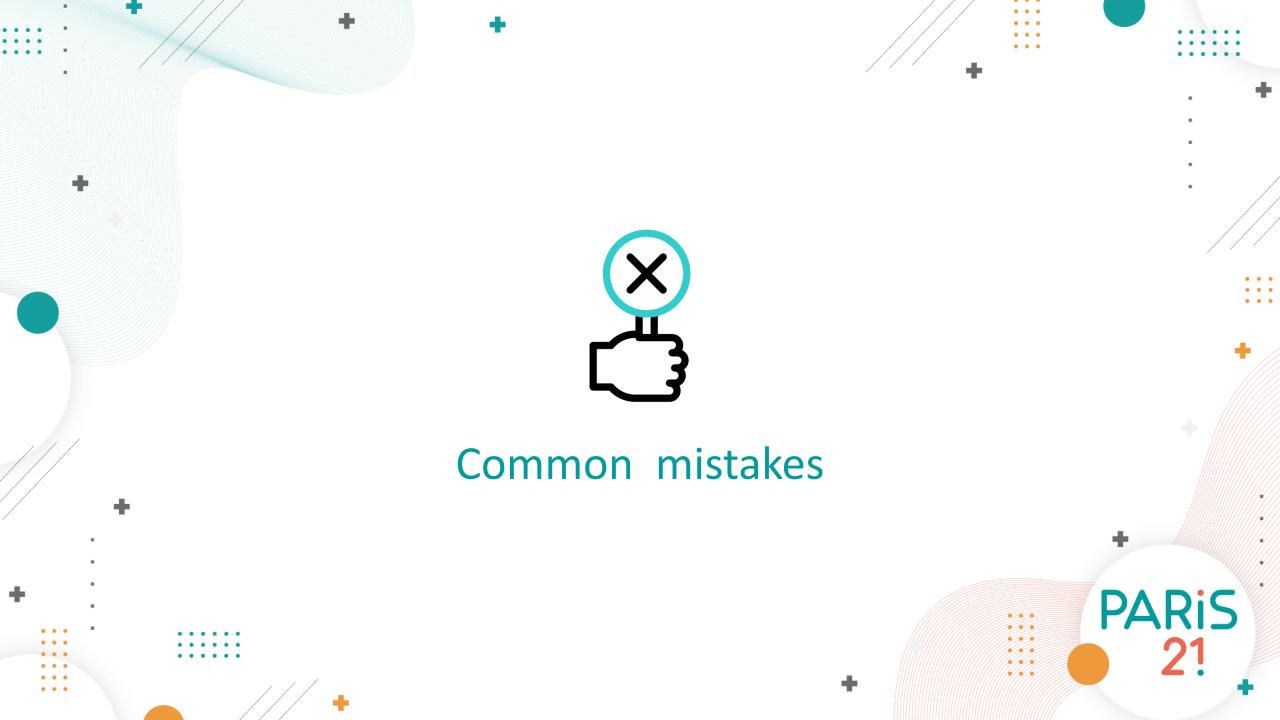
Duration

Quantity

Frequency



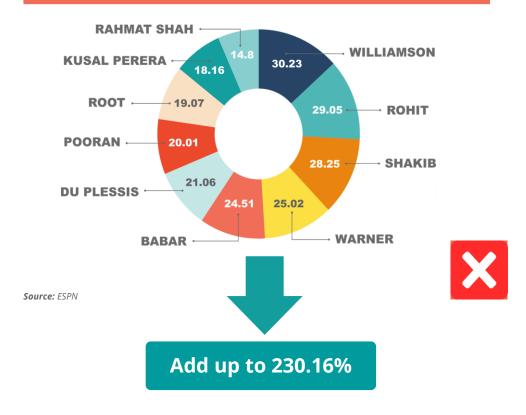
Visual cues for data visualisation Length Color Slope Area **PARIS**



2012 presidential run **GOP** candidates **BACK PALIN** 70% 63% 60% **BACK HUCKABEE BACK ROMNEY** Source: Fox News **PARIS Add up to 193%**

1. Numbers do not add up





2. Numbers are not comparable

Income in China and the US

Monthly income in China

Annual income in the US



y,000 US dollars





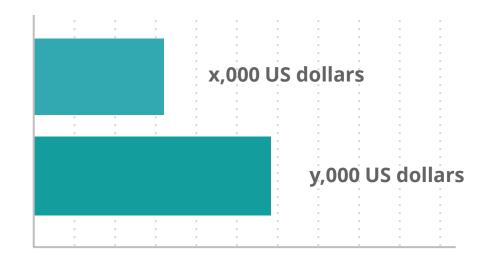
Improved chart

Average monthly income in China and the US, 2019

Monthly income in China

Monthly income in the US

Note: Values reflect current prices







3. Incomparable samples

Average annual economic growth

PARIS



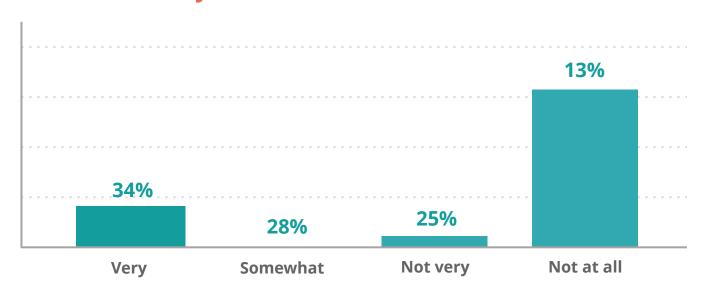


4. Pay attention to the scale

NBC2 viewer note

Nbc-2.com

How concerned are you about ZIKA virus?





Source: NBC



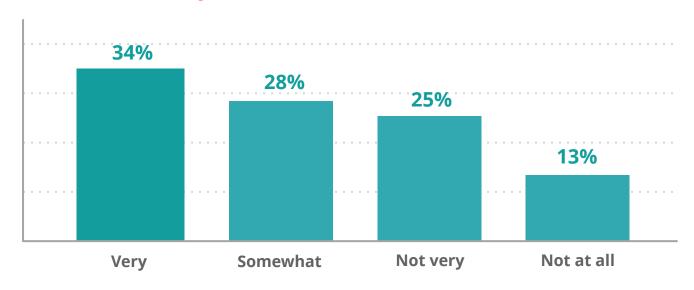
PARIS



Improved chart

NBC2 viewer note Nbc-2.com

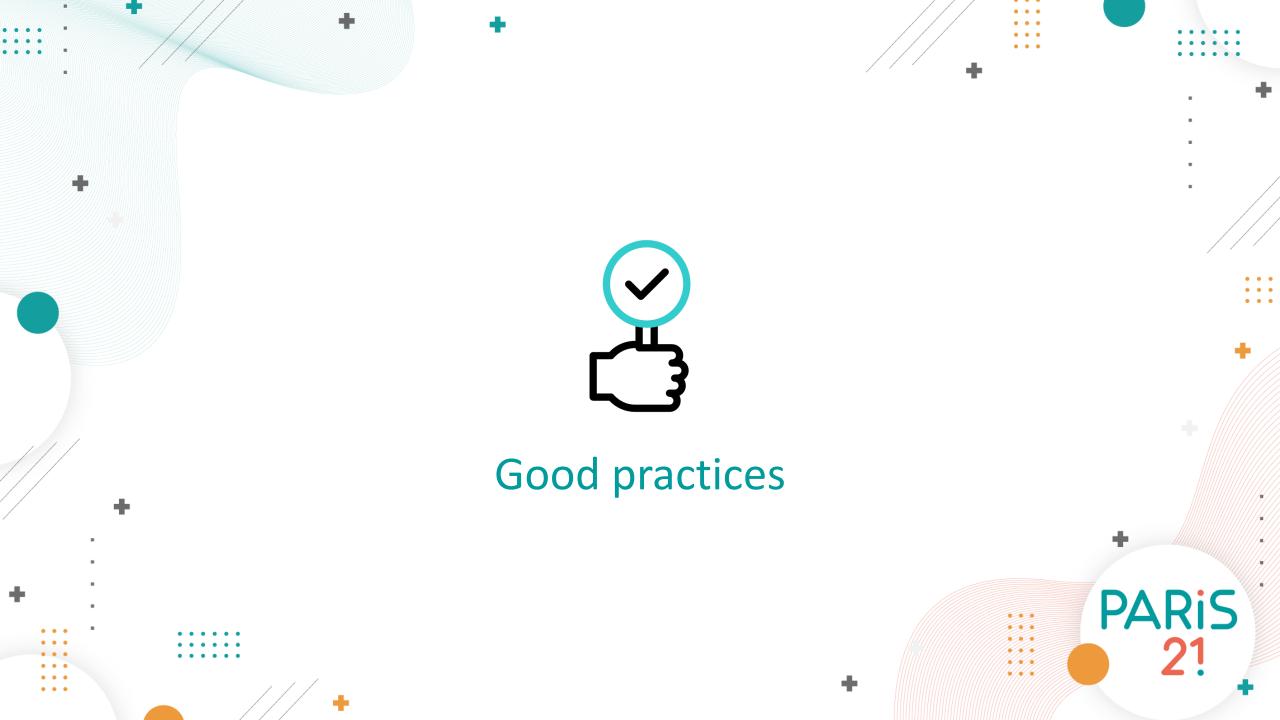
How concerned are you about ZIKA virus?





Source: NBC

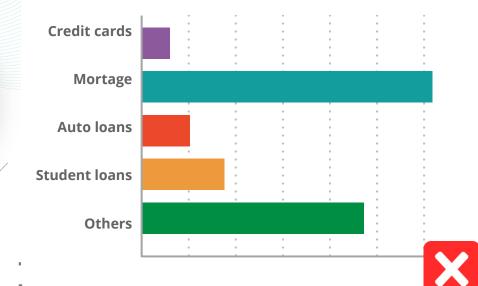
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Order matters

Types of debt

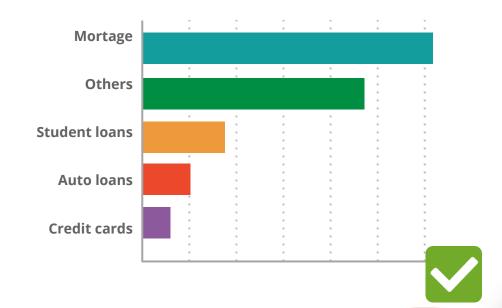
The total owed by the average US household



Source: 2019 American Household Credit Card Debt Study

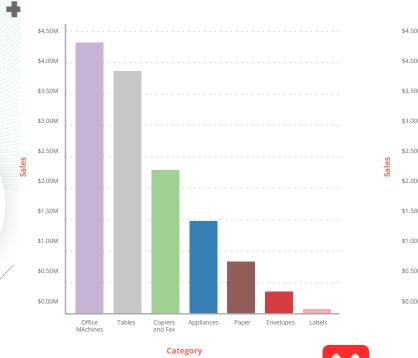
Types of debt

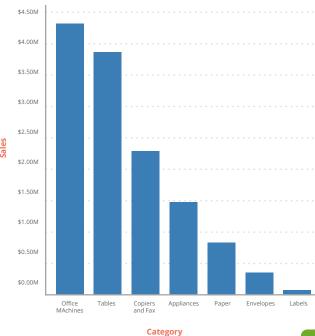
The total owed by the average US household

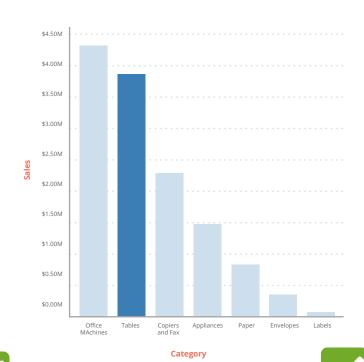




Colours should be used purposefully



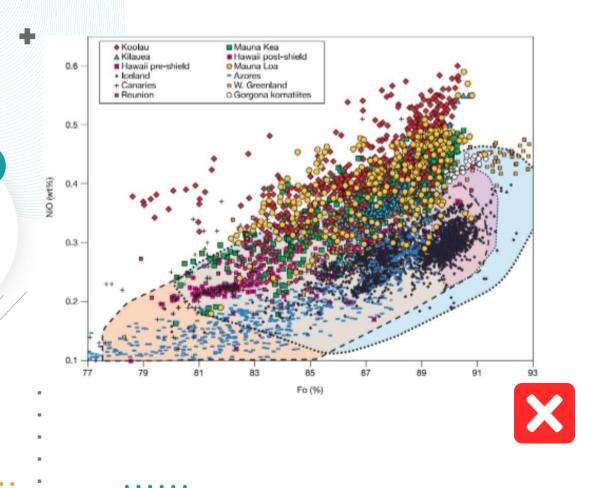


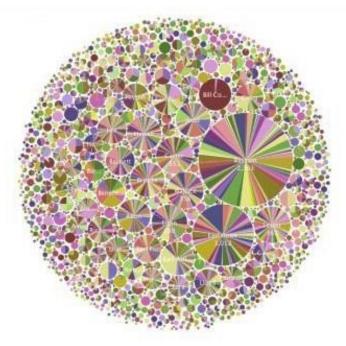


Source: Karina Korpela



Keep your charts concise





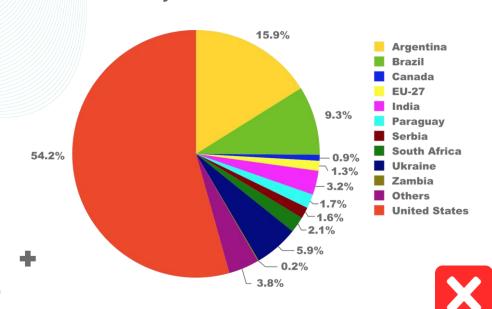


Keeping your charts concise

Global corn exports

Per cent share by nation

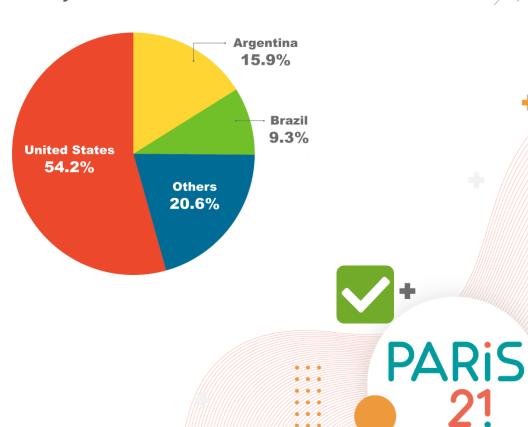
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Source: Steve Smith (2016)

Global corn exports

Per cent share by nation



Reviewing your visualisation draft: a checklist

- Have you double-checked the data in your visual is correct? Does it make sense?
- Is it showing ONE clear message? Would additional or less data help improve the story?
- Is the design easy to follow? Does the title frame the content correctly? Are colors used purposefully? Is data in the right order?
- Is the story presented self-contained? Does someone else understand the visualization without prior explanation?



Could you also produce an infographic?

Review your data

* When reviewing data, consider:

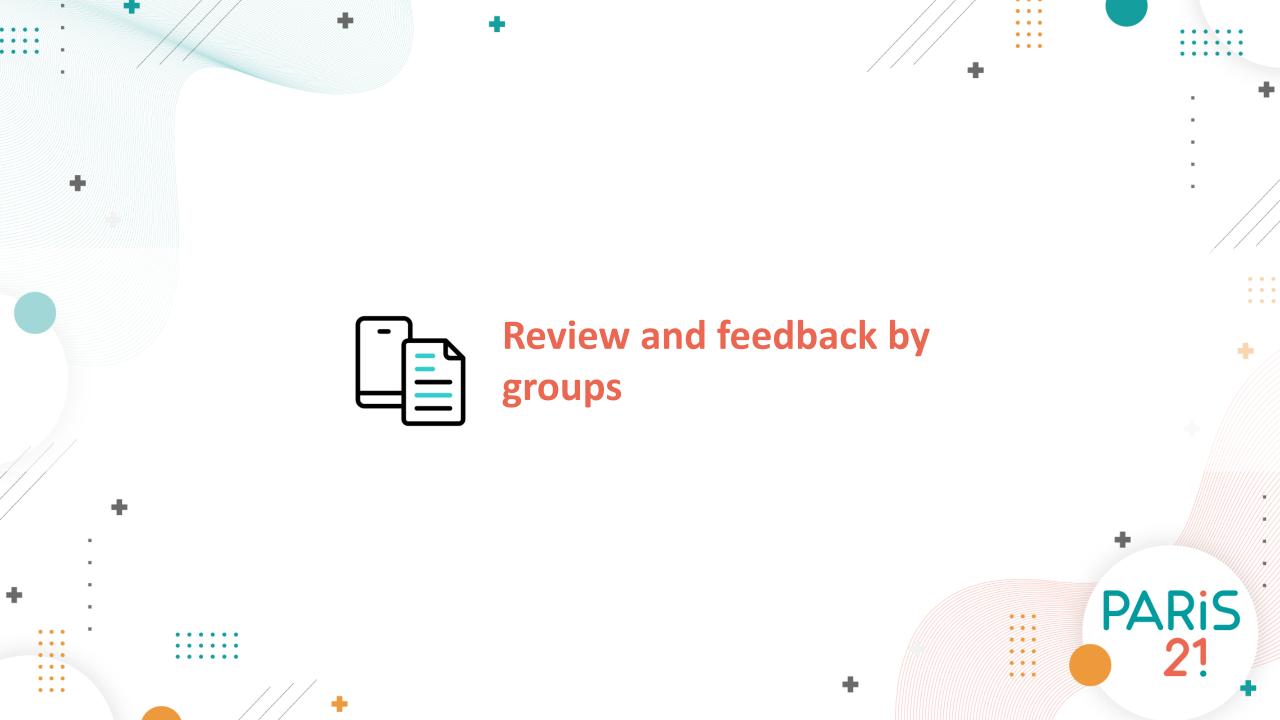
1. Where it came from

What it shows

...and when you have reached your decision, be transparent about what data you drew on



What it doesn't show



Peer-review feedback:

- 1. Is a main message clear from the product?
- 2. Does the main message match the needs of the specific audience?
- 3. Is data used purposefully and does it provide a holistic view of the issue?

Plenary Recap:

1. What were your main takeaways from this activity?

2. What will you take home?

Thank you

