SESSION 6.2: PRESENTING DATA, USER ENGAGEMENT AND MAKING DATA MEANINGFUL

UNSD

Workshop on Data and Statistics for Evidence-based Voluntary National Reviews (VNRs)

9-12 December 2019, Vienna, Austria





User Engagement

Who is a 'user'?

Which users do we want to prioritize and why?



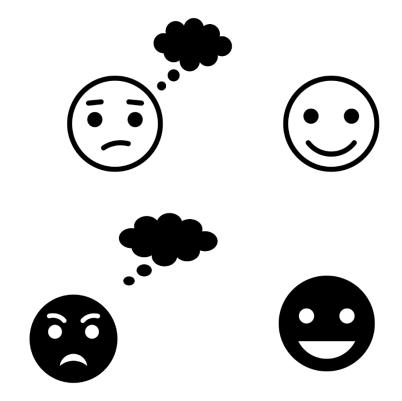
TRIVATE SECTOR RESEARCHERS/ACADEMIA POLICY/DECISION MAKER CIVIL SOCIETY (CSO) GOVT. OFFICIALS STUDENTS MEDIA DEVT. PARTNERS/INTORG INDIVIDUALS

How do we find out what the users need?

We engage with them

Possible ways of engaging:

- Round tables
- Seminars
- Focus groups
- Key informant interviews
- Questionnaires



We should also have ways of **verifying** if our work to meet their needs is going in the right direction

Encourage feedback

How do we engage with the different users?

• Researchers

- Micro data portal with detailed metadata
- Workshops/presentations

• Media

- Press conferences
- Media trainings and consultations
- Individual interviews

Policy makers

- Policy briefs
- Accessible data portals
- Briefs at Ministries and Parliament
- Meetings/presentations

Students

- Training materials for teachers
- Open house
- Competitions
- Internships/thesis guidance

Key resources to support user engagement

- Website
- Data and metadata platforms
- Paper publications
- Seminars and workshops?
- Social media?
- Media? (collaboration series in newspaper or radio?)
- School books?
- •??

• NISR staff!

Development of a user engagement strategy – key components

- Determine the main goal of the user engagement strategy and how to achieve the goals
- Identify users and key stakeholders
- Identify and understand their needs
- Types of engagement and channels of communication
- Trainings or workshops that might need to be developed to engage with the various users
- Measurement and feedback



Guide to presenting statistics*

*Based on Making Data Meaningful Guides from UNECE Statistics <u>https://www.unece.org/stats/documents/writing/</u>

Some tips on using numbers to tell stories in VNRs

Present the most important facts first!

- Readers lose interest quickly
- Consider an inverted pyramid—most important facts first, followed by subsidiary points in decreasing importance.
- Executive summary
- Include a leading paragraph that summarizes key points at the beginning of the document.

GOOD EXAMPLE of a lead paragraph:

Net profits of non-financial companies in the Netherlands amounted to 19 billion euros in the second quarter of 2008. This is the lowest level for three years. Profits were 11 percent lower than in the second quarter of 2007. The drop in net profits is the result of two main factors: higher interest costs - the companies paid more net interest - and lower profits of foreign subsidiaries.

Source: Statistics Netherlands

Source: http://www.unece.org/fileadmin/DAM/stats/documents/writing/MDM_Part2_English.pdf

Complex methodologies and details can be presented in the annex/references

Some tips on using numbers to tell stories in VNRs

- Keep it short and simple (KISS): applies to not just text but also visuals and graphs
- Clear and simple messages are NOT the same as "dumbing down". Plain language conveys a clear and concise message. It is used with the reader in mind and with the right tone of voice.
- Avoid jargon when possible

Some tips for clear writing:

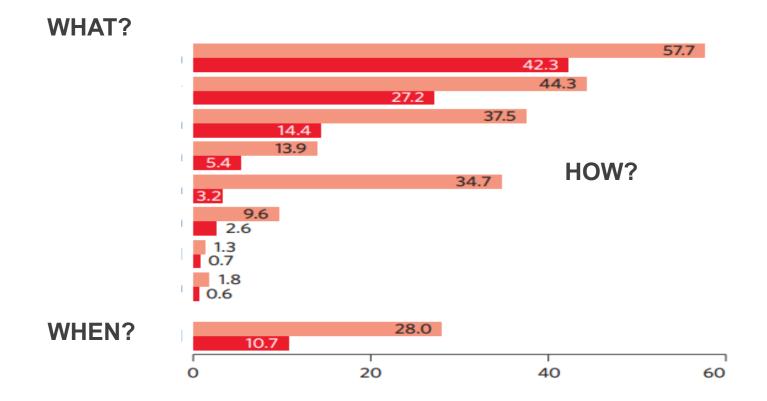
- Use short sentences;
- Aim for one idea per sentence;
- Break up long sentences;
- Start each paragraph with the most important message;
- Keep paragraphs short;
- Keep your writing crisp.

Sourced from : http://www.unece.org/fileadmin/DAM/stats/documents/writing/MDM_Part2_English.pdf

Presenting statistics: charts and tables

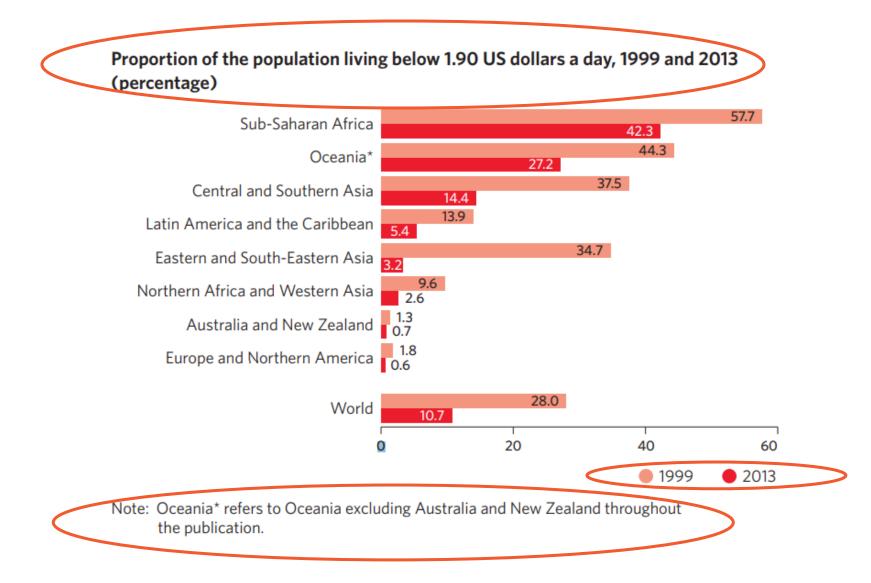
- Tables
 - Summary tables
 - Larger reference tables (statistical annexes)
- Charts
- Tables/charts should be able to stand alone, whether published within a report, article, publication or web page.
- Key elements
 - Table title: what, where, when?
 - Unit of measurements
 - Footnote and sources

A chart without key elements



WHERE?

Main elements present



Tips for tables

- Avoid unnecessary text
- Display data in chronological order or some standard classification
- Use a minimum decimal places to the extent that you do not lose information
- Use thousands separator. Using spaces vs. a symbol (, or .) can avoid problem of translating between languages
- Align the numbers on the decimal point (or on the right in the absence of decimal places) so their relative value is clear

Examples: tables

What are the problems?

GOOD EXAMPLE	BAD EXAMPLE
1 320 000	1324567
1 670 000	1673985
1 830 000	1829456

GOOD EXAMPLE	BAD EXAMPLE
93.2	93.2
1045.0	1045
385.6	385.63

GOOD EXAMPLE	BAD EXAMPLE
93.2	93.2
1045.0	1045.0
385.6	385.6

Source: http://www.unece.org/fileadmin/DAM/stats/documents/writing/MDM_Part2_English.pdf



Why use charts

- They are very helpful in demonstrating
 - Comparison: which item is bigger or smaller
 - Changes over time: how have things changed?
 - How are things **distributed**?
 - Are two things linked or **correlated**?
 - How does one item **compare to the total**?

Features of a good chart

A good chart:

- grabs the reader's attention;
- presents the information simply, clearly and accurately;
- does not mislead;
- displays the data in a concentrated way (e.g. one line chart instead of many pie charts);
- facilitates data comparison and highlights trends and differences;
- illustrates messages, themes or storylines in the accompanying text.

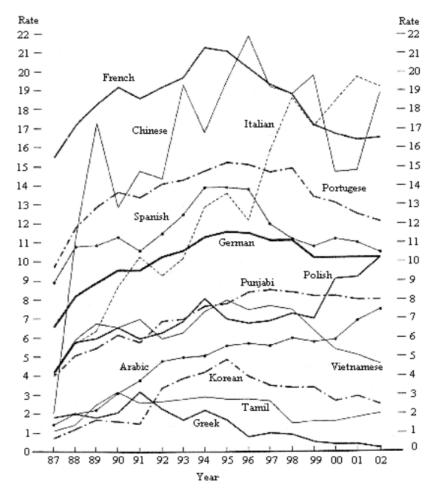
Source: http://www.unece.org/fileadmin/DAM/stats/documents/writing/MDM_Part2_English.pdf



Charts are not always appropriate

BAD EXAMPLE of a line chart

Number of students taking English as a second language at West High School, by first language spoken, 1987 to 2002



• Charts are not useful, if they

- Have very dispersed values
- Have too few values
- Have too many values
- Show little or no variation

Source: Statistics Canada, Learning Resources: Using graphs⁵.

Source: http://www.unece.org/fileadmin/DAM/stats/documents/writing/MDM_Part2_English.pdf

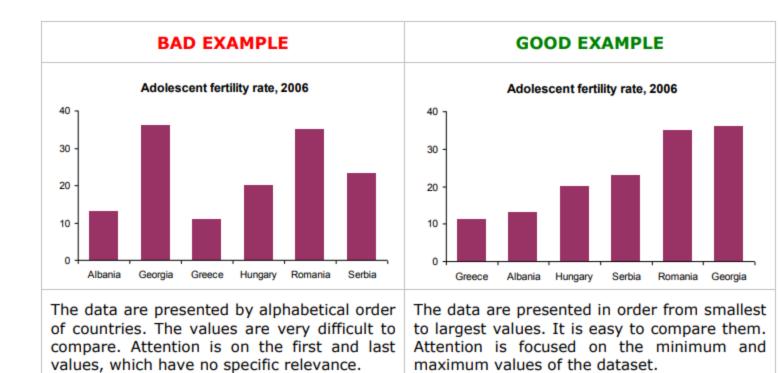
Which chart should I use?

It depends!

A good practice is to experiment with different types and see which one is most appropriate to convey the message



Good practices for conveying information in charts

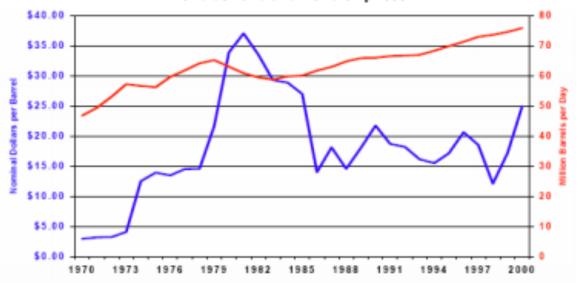


Source: http://www.unece.org/fileadmin/DAM/stats/documents/writing/MDM_Part2_English.pdf



Good practices for conveying information in charts

Use dual axes with caution



GOOD EXAMPLE of a dual y-axes chart

World demand and world oil prices

Source: Blessing et al. (2003), Cognitive Testing of Statistical Graphs: Methodology and Results¹¹.

Source: http://www.unece.org/fileadmin/DAM/stats/documents/writing/MDM_Part2_English.pdf

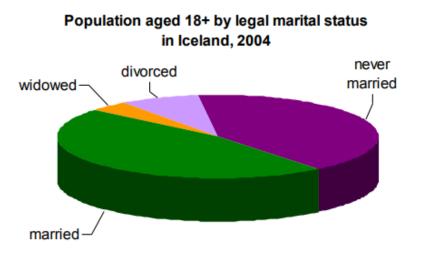


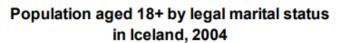
Good practices for conveying information in charts

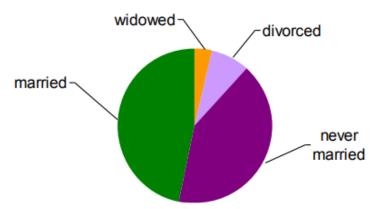
Do not use unnecessary graphic features

BAD EXAMPLE

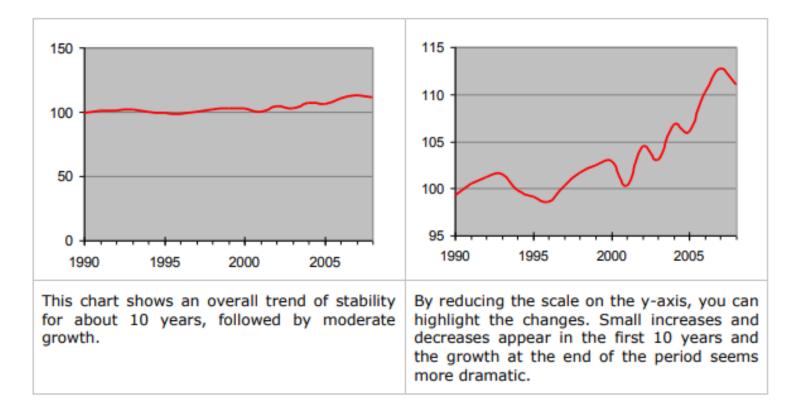
GOOD EXAMPLE







Be careful to not mislead



Source: http://www.unece.org/fileadmin/DAM/stats/documents/writing/MDM_Part2_English.pdf





How to create key messages and infographics

The Sustainable Development Goal Report 2019

The Sustainable Development Goals Report 2019







https://unstats.un.org/sdgs/report/2019/The-Sustainable-Development-Goalssust Report-2019/The-Sustainable-Development-Goals-



Create Key messages and reporting on SDGs:

Providing the <u>right people</u> with the <u>right information</u> in the <u>right format</u>

- Step 1: Consider Why, Who and What
- ✓Why do you need them
- **Who** are your target audiences

What are the main pointes you want the audience to hear, understand and remember

Make sure that your messages are data-driven and evidence-based.



Step 2: Draft your key messages

- Clear: easy to understand, avoid jargons
- **Concise**: Short and specific to the point, simple but interesting
- Consistent: core messages must build upon each other to create a consistent story
- Tailored: Communicate effectively with different target audiences by adapting language and depth of information
- Telling good stories with the appropriate presentation of data, including visualizations, infographics and others tools
- Link data to people.





How to draft Headline

- Know your audience
- Write the key messages first, then the headline
- Simple and clear, but powerful and pervasive
- Pick the most important issue and be specific
- Create a sense of urgency
- Check out newspaper, magazine headlines for inspiration
- Write several different headlines
- Pick the best one after consultation



Extreme poverty in the world:

- The share of the world's population living in extreme poverty declined to 10 per cent in 2015, down from 16 per cent in 2010 and 36 per cent in 1990. More than a billion people have lifted themselves out of poverty over the last 25 years.
- However, the pace of change is decelerating.
- Nowcast shows the 2018 rate of extreme poverty at 8.6 per cent, and baseline projections suggest that 6 per cent of the world's population will still be living in extreme poverty in 2030 if current trends continue.
- Extreme poverty remains stubbornly high in low-income countries and those affected by conflict and political upheaval, particularly in sub-Saharan Africa.



- It is becoming less likely that the world will keep its promise to end extreme poverty by 2030
- Progress against poverty continues but has slowed, jeopardizing achievement of the Goal
- Conflict and political upheaval have slowed earlier progress to end extreme poverty globally
- Ending poverty by 2030 will require an intense focus on sub-Saharan Africa





Key considerations

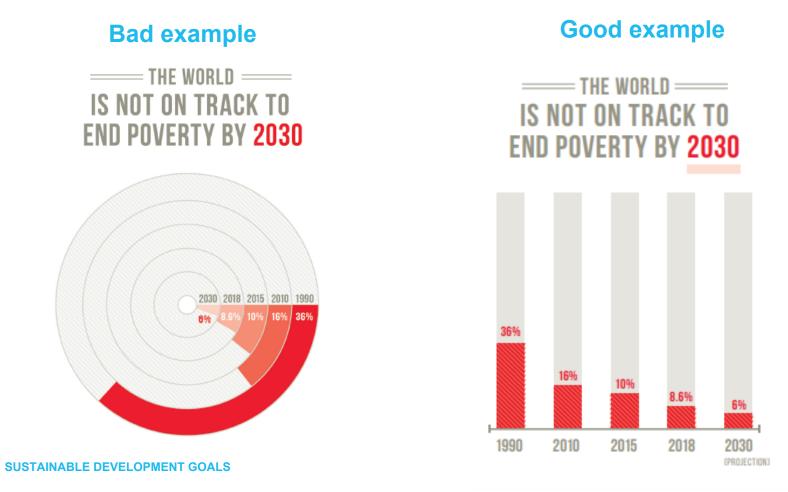
- Know target audience
- Keep it simple and easy to review
- Focused: one topic a time
- Focus on the flow: streamlined
- Create your short key messages with data
- Work with graphic designers
- Choose appropriate icons
- Balance visual and written information
- Review and revise

Resource: Noun Project https://thenounproject.com/

Example 1 on Goal 1

The world is not on track to end poverty by 2030.

-- Data point for infographics: 36% in 1990, 16% in 2010, 10 % in 2015, 8.6% in 2018, 6% in 2030 (projection).

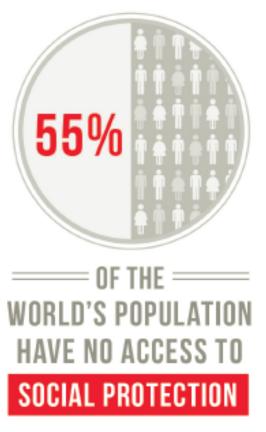


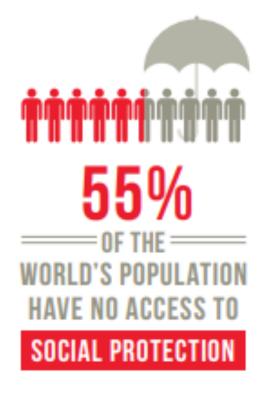
Example 2 on Goal 1

55% of the world's population have no access to social protection

Bad example

Good example





Example 2 on Goal 5

24% of national parliamentarians are women

Bad example



Good example





Thank you for your attention!





Icon Creation from Key Messages

Data

- Vaccinations resulted in an 80 per cent drop in measles deaths between 2000 and 2017
- 1 in 5 children between 6 and 17 years old are not attending school
- The proportion of fish stocks declined from 90 per cent in 1974 to 67 per cent in 2015



Sample Icons

Lift ネ Ä 3 GOOD HEALTH AND WELL-BEING 4 QUALITY EDUCATION 14 LIFE BELOW WATER

