## UNSD-DFID PROJECT ON SDG MONITORING

**User-friendly presentation of statistics** 





## **Communicating statistics involves three key questions**

Who is the target **audience**?

- Media? lay person? Senior management? Experts?
- Why do they need the information? How do they want it?

What is the **context** in which you are communicating?

- Formal/Informal
- Internet/physical publication

What message do you want to communicate? What is the narrative/story?

- Important to find meaning in numbers. Numbers don't exist in a vaccuum
- Data support the story
- Structure the output accordingly
- Remember the Fundamental Principles of Official Statistics





# Good and bad practices when communicating with a general audience

What would you consider good and bad practices when it comes to presenting statistics? Specify for:

- Graphs
- Tables
- Descriptive or explanatory text



## **Statistics is:**

- to <u>compare</u> numbers (and to make the numbers comparable)

**User-friendliness is:** 

- to present the numbers in a way that encourages and enables the users to make comparisons



## General motto: KISS!

- Keep It Short and Simple!
- This applies to:
  - Tables
  - Graphs
  - Titles
  - Text



## **Useful resources:**



https://www.ssb.no/en/omssb/samarbeid/i nternasjonalt-utviklingssamarbeid/ahandbook-on-dissemination-of-statistics

https://www.unece.org/stats/docume nts/writing/







## How to lie with graphs



The data behind are the same, but the y-axis starts at different points.

In general, it is recommended to start at 0.



#### GOOD EXAMPLE of a chart with a y-axis not starting at zero

Pensionable income for persons aged 20-64 in Sweden, 2004



Average income in thousands Swedish Krona

Source: Statistics Sweden (2006), Women and Men in Sweden: Facts and figures 20068.

Source: http://www.unece.org/fileadmin/DAM/stats/documents/writing/MDM\_Part2\_English.pdf



### **Grouped bar charts:**





Two (or more) categories Example: *Percent using a library last year. Males and females in various age groups* 

With two categories, we have two ways of grouping, inviting to different comparison



## **Stacked bar charts**



Show total frequency <u>and</u> how the total is divided into different components

### **Stacked bar charts**

#### **GOOD EXAMPLE of a stacked bar chart**



Easy to read

Easy to compare

Ordered by size from smallest to largest

Source: UNECE Statistical Database

Source: http://www.unece.org/fileadmin/DAM/stats/documents/writing/MDM\_Part2\_English.pdf

SUSTAINABLE DEVELOPMENT GOALS

## Line charts:

Most often used for time series

= years, quarters, months, weeks, days, hours and minutes + age

What is a time "series"? Minimum = 4 data points? Up to 4, use vertical bar chart

The longer series, the better?!



### **Standard line charts**



"A time series" requires at least 4? data points (if not: use bar chart)

Be careful when the data points are not evenly spaced; like 1990, 1995, 2000, 2005, 2010 <u>and</u> 2011

SUSTAINABLE DEVELOPMENT GOALS

# Line graphs should *never* be used to illustrate differences between group, for instance countries



SUSTAINABLE DEVELOPMENT GOALS

#### Line charts: Symbols?







Indicators or symbols (■ ∇) are often used to differentiate between series, but these symbols overload the chart

It is better to use different colours ...

... and/or line styles

#### 3.2 Nüfus piramidi - Population pyramid



TÜİK, Türkiye İstatistik Yıllığı, 2012 TurkStat, Turkey's Statistical Yearbook, 2012

#### Suicide and long-term unemployment in Japan



Is this a good presentation?

Be careful to not mislead

### Line 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



- Line 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 graphs<sup>5</sup>.

Source: http://www.unece.org/fileadmin/DAM/stats/documents/writing/MDM\_Part2\_English.pdf



Some examples

#### **GOOD EXAMPLE of a bar chart**



#### Female ambassadors in 2006

Source: UNECE Statistical Database

Source: http://www.unece.org/fileadmin/DAM/stats/documents/writing/MDM\_Part2\_English.pdf



## Graphs

## **Good practice**

- Title includes **what**, **where** and **when** (e.g. date or time period)
- Specify source
- Keep the presentation simple
- Make sure there is a clear message
- Choose the appropriate graph for the data and message
- Consider using maps where relevant
- Assess correlation and causality

## **Bad practice**

- Don't use borders, shading and too much colour
- Don't over complicate the graphs
- Don't use labels in a way that is distorting the reception of the graph
- Start y-axis from 0
- Don't use different scales when presenting two graphs for comparison



## **Tables and charts**

SUSTAINABLE DEVELOPMENT GOALS

#### Total population in selected African countries

	1995	2005
Angola	12279700	15941400
Eritrea	3097300	4401400
Kenya	27225900	34255700
Madagascar	13945500	18605900
Malawi	10110500	12883000
Mozambique	15853700	19792300
South Africa	41894000	47431800
Uganda	20893300	28816200
Zambia	9559400	11668500

#### Total population in selected African countries

	1995	2005
Angola	12,279,700	15,941,400
Eritrea	3,097,300	4,401,400
Kenya	27,225,900	34,255,700
Madagascar	13,945,500	18,605,900
Malawi	10,110,500	12,883,000
Mozambique	15,853,700	19,792,300
South Africa	41,894,000	47,431,800
Uganda	20,893,300	28,816,200
Zambia	9,559,400	11,668,500

#### Total population in selected African countries. Millions

	1995	2005
Angola	12.3	15.9
Eritrea	3.1	4.4
Kenya	27.2	34.3
Madagascar	13.9	18.6
Malawi	10.1	12.9
Mozambique	15.9	19.8
South Africa	41.9	47.4
Uganda	20.9	28.8
Zambia	9.6	11.7

#### Total population in selected African countries. Millions

	1995	2005	% growth
South Africa	41.9	47.4	13.2
Kenya	27.2	34.3	25.8
Uganda	20.9	28.8	37.9
Mozambique	15.9	19.8	24.8
Madagascar	13.9	18.6	33.4
Angola	12.3	15.9	29.8
Malawi	10.1	12.9	27.4
Zambia	9.6	11.7	22.1
Eritrea	3.1	4.4	42.1

## Columns and rows

#### Labour resources

#### (thsd. persons)

	1990	1991	1992	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011
Number of able-																						
bodied population in working age	3859,9	3915,8	3946,3	3970,5	4009,3	4068,0	4128,0	4182,8	4284,1	4412,2	4530,8	4736,0	4740,6	4767,1	4865,1	5304,0	5444,1	5569,6	5681,2	5773,3	5875,7	5974,6
Persons older of																Daraar						
working age													Nuo	abaraf		Persor	is of					
occupated in	142.0	144.0	1745	152 6	141.2	140.5	140.2	142.9	142.2	142.5			nun		worl		וכ יס <del>-</del>	Toopor			1	126.6
Terrererer	143,0	144,8	174,5	155,6	141,5	149,5	140,5	142,8	142,2	142,5			-eide	bouleu	worr	king ag	je in oor	reenag	jes 1 in		,1	120,0
Teenages													popula		occu	paled	in occ	upated		- <b>-</b> -	<b>646</b>	
economy	11.6	12.4	12.5	11.2	10.6	10.3	10.3	10.4	11.5	12.0			WOIKI	ng age	e	conon	iy	econo	my			-
Total	4014,5	4073,0	4133,3	4135,3	4161,2	4227,8	4278,6	4336,0	4437,8	4566,7	4 199	0	3	859,9		143,	0	1	1,6	4 01	1 <b>4,5</b> ,0	6101,2
											199	1	3	915,8		144,	8	1:	2,4	4 07	73,0	
											199	2	3	946,3		174,	5	1:	2,5	4 13	33,3	
											199	3	3	970,5		153,	6	1	1,2	4 13	35,3	
											199	4	4	009,3		141,	3	1(	0,6	4 16	61,2	
											199	5	4	068,0		149,	5	1(	0,3	4 22	27,8	
											199	6	4	128,0		140,	3	1(	0,3	4 27	78,6	
											199	7	4	182,8		142,	8	1(	0,4	4 33	36,0	
											199	8	4	284,1		142,	2	1	1,5	4 43	37,8	
											199	9	4	412,2		142,	5	1:	2,0	4 50	66,7	
											200	0	4	530,8		142,	8	1:	2,2	4 68	35,8	
											200	1	4	736,0		142,	2	1:	2,3	4 89	90,5	
											200	2	4	740,6		142,	6	1;	3,0	4 89	96,2	
											200	3	4	767,1		142,	7	1;	3,2	4 92	23,0	
											200	4	4	865,1		142,	8	1;	3,3	5 02	21,2	
											200	5	5	304,0		103,	8	1;	3,5	5 42	21,3	
											200	6	5	6 4 4 4 , 1		110,	6	1;	3,8	5 50	68,5	
											200	7	5	569,6		118,	9	1:	3,1	5 70	)1,6	
											200	8	5	681,2		125,	5	10	0,1	5 8′	16,8	
											200	9	5	773,3		133,	9	į	8,5	<b>5</b> 9′	15,7	
	NABLE	DEVEL	.OPME	NT GO	ALS						201	0	5	875,7		133,	1		6,2	6 01	15,0	
											201	1	5	974.6		126.	6		-	6 10	)1.2	

### **Columns and rows**

#### Number of Medical Doctors



	2005	2006	2007	2008	2009
Women	14 352	14 040	13 693	13 973	13 787
Men	5 959	6 515	6 258	6 280	6 822



## **Columns and rows**

#### 4.19 Cinsiyete göre serbest zaman kullanım aktiviteleri, 2006

Time spent on "free time" activities by sex, 2006

Cinsiyet - Sex		Saat (Hours)
Toplam - Total		
-	Toplam aktivite - Total activities	5.23
	TV ve video - TV and video	2.05
	Sosyalleşme - Socializing	1.22
	Okuma - Reading	0.18
	Spor - Sports	0.12
	Hobiler ve oyunlar - Hobbies and games	0.23
	Gönüllü yardım işleri - Volunteer work and help	0.00
	Diğer aktiviteler - Other activities	0.70
Erkek - Male		
	Toplam aktivite - Total activities	5.38
	TV ve video - TV and video	2.13
	Sosyalleşme - Socializing	1.12
	Okuma - Reading	0.20
	Spor - Sports	0.17
	Hobiler ve oyunlar - Hobbies and games	0.40
	Gönüllü yardım işleri - Volunteer work and help	0.00
	Diğer aktiviteler - Other activities	0.73
Kadın - Female		
	Toplam aktivite - Total activities	5.10
	TV ve video - TV and video	1.97
	Sosyalleşme - Socializing	1.30
	Okuma - Reading	0.15
	Spor - Sports	0.07
	Hobiler ve oyunlar - Hobbies and games	0.08
	Gönüllü yardım işleri - Volunteer work and help	0.00
	Diğer aktiviteler - Other activities	0.67

Kaynak: Zaman	Kullanımı	Anketi	
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Source : Time Use Survey



	Total	Male	Female
Toplam aktivite - Total activities	5.23	5.38	5.10
TV ve video - TV and video	2.05	2.13	1.97
Sosyalleşme - Socializing	1.22	1.12	1.30
Okuma - Reading	0.18	0.20	0.15
Spor - Sports	0.12	0.17	0.07
Hobiler ve oyunlar - Hobbies and games	0.23	0.40	0.08
<b>Gönüllü yardım işleri -</b> Volunteer work and help	0.00	0.00	0.00
Diğer aktiviteler - Other activities	0.70	0.73	0.67

#### Tables with absolute and relative numbers

#### 3.16 Okuryazarlık ve cinsiyete göre nüfus, 2008-2011

Population by literacy and sex, 2008-2011

[6 ve daha yukarı yaştaki nüfus - Population 6 years of age over]

Okuryazarlık - Literacy	2008	2009	2010	2011
Toplam - Total				
Okuma yazma bilmeyen - Illiterate	4 930 012	4 672 257	3 825 644	3 171 270
(%)	8.22	7.53	6.04	4.87
Okuma yazma bilen - Literate	55 061 785	57 344 379	59 525 746	61 889 739
(%)	91.78	92.47	93.96	95.13
Erkek - Males				
Okuma yazma bilmeyen - Illiterate	986 790	915 054	700 400	553 704
(%)	3.30	2.96	2.21	1.70
Okuma yazma bilen - Literate	28 873 257	30 039 678	30 983 102	32 013 033
(%)	96.70	97.04	97.79	98.30
Kadın - Females				
Okuma yazma bilmeyen - Illiterate	3 943 222	3 757 203	3 125 244	2 617 566
(%)	13.09	12.10	9.87	8.06
Okuma yazma bilen - Literate	26 188 528	27 304 701	28 542 644	29 876 706
. (%)	86.91	87.90	90.13	91.94

	2008	2009	2010	2011			
Total	Number						
Illiterate	4 930 012	4 672 257	3 825 644	3 171 270			
Literate	55 061 785	57 344 379	59 525 746	61 889 739			
Males							
Illiterate	986 790	915 054	700 400	553 704			
Literate	28 873 257	30 039 678	30 983 102	32 013 033			
Females							
Illiterate	3 943 222	3 757 203	3 125 244	2 617 566			
Literate	26 188 528	27 304 701	28 542 644	29 876 706			
Total	I	Per cent					
Illiterate	8.2	7.5	6.0	4.9			
Literate	91.8	92.5	94.0	95.1			
Males							
Illiterate	3.3	3.0	2.2	1.7			
Literate	96.7	97.0	97.8	98.3			
Females							
Illiterate	13.1	12.1	9.9	8.1			
Literate	86.9	87.9	90.1	91.9			

#### Percentage illitterate

	2008	2009	2010	2011
Total	8.2	7.5	6.0	4.9
Males	3.3	3.0	2.2	1.7
Females	13.1	12.1	9.9	8.1



#### Absolute and relative numbers

Divorces by duration of marriage, 2008-2012										
Evlilik süresi (yıl)	2008		2009		2010		2011		2012	
Duration of marriage (year)		(%)		(%)		(%)		(%)		(%)
Toplam - Total	99 663	100.00	114 162	100.00	118 568	100.00	120 117	100.00	123 325	100.00
-1	3 910	3.92	4 020	3.52	3 967	3.35	4 274	3.56	4 080	3.31
1	9 672	9.70	10 439	9.14	10 559	8.91	10 881	9.06	11 075	8.98
2	8 136	8.16	9 174	8.04	9 295	7.84	9 287	7.73	9 245	7.49
3	7 252	7.28	8 095	7.09	8 634	7.28	8 742	7.28	8 866	7.19
4	6 681	6.70	7 379	6.46	7 821	6.60	8 044	6.70	8 185	6.64
5	5 577	5.60	6 696	5.87	7 001	5.90	7 089	5.90	7 426	6.02
6-10	21 335	21.41	23 879	20.92	24 940	21.03	24 756	20.61	26 144	21.20
11-15	13 863	13.91	16 628	14.57	17 528	14.78	17 772	14.79	18 225	14.78
16+	22 997	23.08	27 426	24.02	28 433	23.98	28 949	24.10	29 772	24.14
Bilinmeyen - Unknown	240	0.24	426	0.37	390	0.33	323	0.27	307	0.25

	2 008	2009	2 0 1 0	2011	2 0 1 2	2 008	2009	2 0 1 0	2011	2012
			No.					%		
Toplam - Total	99 663	114 162	118 568	120 117	123 325	100,0	100,0	100,0	100,0	100,0
-1	3 910	4 020	3 967	4 274	4 080	3,9	3,5	3,4	3,6	3,3
1	9 672	10 439	10 559	10 881	11 075	9,7	9,1	8,9	9,1	9,0
2	8 136	9 174	9 295	9 287	9 245	8,2	8,0	7,8	7,7	7,5
3	7 252	8 095	8 634	8 742	8 866	7,3	7,1	7,3	7,3	7,2
4	6 681	7 379	7 821	8 044	8 185	6,7	6,5	6,6	6,7	6,6
5	5 577	6 696	7 001	7 089	7 426	5,6	5,9	5,9	5,9	6,0
6-10	21 335	23 879	24 940	24 756	26 144	21,4	20,9	21,0	20,6	21,2
11-15	13 863	16 628	17 528	17 772	18 225	13,9	14,6	14,8	14,8	14,8
16+	22 997	27 426	28 433	28 949	29 772	23,1	24,0	24,0	24,1	24,1
<b>Bilinmeyen -</b> Unknown	240	426	390	323	307	0,2	0,4	0,3	0,3	0,3

#### Percentages in tables: Two ways of comparing

## Number of teachers in primary and secondary schools. Men and women

	Men	Women	n Tot	al					
Primary schools	19 334	46 042	65 37	76					
Secondary schools	14 491	12 127	26 6 <sup>2</sup>	18		1			
Total	33 825	58 169	91 99	94	Gender				
					distribution				Sender listribution
			/	/					
Teachers in primary	and secor	ndary sch	ools.			1	/		
Men and women. Pe	er cent		/		Teachers in prima	ary and s	condar	y schools	5.
		Men W	Vomen	Total	Men and women.	Per cent			
Primary schools		57,2	79,2	71,1			Men	Women	Total
Secondary schools		42,8	20,8	28,9	Primary schools		29.6	70.4	100.0
Total	1	00.0	100 0	100 0	Secondary school	S	54.4	45.6	100.0
	·				Total		36.8	63.2	100.0

#### 15.6 Markalara gore otomobil sayisi, 2008-2012

Number of cars by trademark, 2008-2012

	2008	2009	2010	2011	2012
Foplam - Total	6 796 629	7 093 964	7 544 871	8 113 111	8 648 875
Alfa Romeo	11 083	11 322	11 886	12 815	13 802
Anadol	10 034	9 650	9 344	8 827	8 560
Audi	48 249	54 757	64 780	77 051	91 620
BMW	92 005	98 069	108 656	124 920	141 087
Chevrolet	44 744	54 443	70 505	93 294	113 391
Citroen	61 995	68 519	79 385	93 725	108 752
Dacia	30 865	36 393	48 281	65 989	92 416
Daihatsu	12 046	12 843	13 192	13 360	13 341
Dodge	2 358	2 604	2 653	2 600	2 547
Fiat	529 666	555 312	594 437	651 837	698 299
Ford	411 255	439 694	486 724	545 222	591 092
Honda	171 722	187 579	202 708	217 701	232 585
Hyundai	278 845	330 581	382 696	427 632	469 459
Isuzu	1 377	1 300	1 076	931	801
Kia	52 975	57 893	66 574	76 032	87 613
Lada	95 667	95 466	95 203	94 829	94 559
Landrover	24 425	26 097	28 265	30 291	32 620
	10 545	15 053		10.010	10 005

	2008	2009	2010	2011	2012
Toplam - Total	6 796 629	7 093 964	7 544 871	8 113 111	8 648 875
Renault	1 792 933	1 831 504	1 896 922	1 984 801	2 052 457
Murat (Tofa)	1 241 487	1 222 985	1 213 976	1 205 804	1 198 066
Fiat	529 666	555 312	594 437	651 837	698 299
Opel	464 722	485 159	520 249	570 545	619 573
Ford	411 255	439 694	486 724	545 222	591 092
Volkswagen	322 228	348 729	387 439	441 221	507 921
Hyundai	278 845	330 581	382 696	427 632	469 459
Toyota	325 013	348 607	383 016	420 720	452 291
Peugeot	181 492	194 166	211 443	227 433	240 566
Honda	171 722	187 579	202 708	217 701	232 585
Mercedes	151 338	159 685	170 085	182 303	194 676
BMW	92 005	98 069	108 656	124 920	141 087
Skoda	93 466	96 244	101 825	109 056	118 545
Chevrolet	44 744	54 443	70 505	93 294	113 391
Nissan	59 449	64 606	74 545	92 291	110 601
Citroen	61 995	68 519	79 385	93 725	108 752
Lada	95 667	95 466	95 203	94 829	94 559
Dacia	30 865	36 393	48 281	65 989	92 416
Audi	48 249	54 757	64 780	77 051	91 620
Kia OUOTAINIADI E DEVELODMENT OOALO	52 975	57 893	66 574	76 032	87 613
Seat SUSTAINABLE DEVELOPMENT GOALS	45 590	48 154	52 972	58 954	64 657
Mazda	43 515	45 657	47 744	49 342	49 835

Instead of using alphabetical order,

sort by value – from highest to lowest (latest year)

## Why use tables/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**?

## **Tables**

## **Good practice**

- Align numbers on the decimal point
- Be consistent in how many decimal places are shown
- Title includes **what**, **where**) and **when**
- Choose absolute/relative numbers based on relevance to the topic

## **Bad practice**

- Don't make a small table spread across the page – columns should only be wide as needed to show the data
- Don't use borders around every cell or heavy shading that will distract from the data

SUSTAINABLE DEVELOPMENT GOALS



## **Descriptives/explanatory text**

SUSTAINABLE DEVELOPMENT GOALS

Death rates per 1000 people in country X by year and region								
	National	Urban	Rural					
2015	5.5	4.8	5.8					
2014	6.5	6.0	6.9					
2013	6.9	6.6	7.3					

#### Higher death rates in the rural areas

The death rates are 1 percentage point higher in rural areas than in the urban areas. This trend has not changed substantially over the years

## Highest mortality reduction in the cities

While there has been a reduction in the death rates overall, the most substantial fall has happened in the urban areas of the country. Important reasons for this are... In 2015, the death rates at the national level were 5.5 per 1,000 people, 4.8 per 1,000 in urban areas, and 5.8 in rural areas.

The death rates at national level were 6.9 per 1,000 people in 2013 and fell to 5.5 in 2015.

### **Absolute vs relative measures**

«24 000 more children were vaccinated last

year

«The rate of children vaccinated has decreased by 5 percentage points»

Politician A (representing the Government)

Politician B (representing the opposition)

SUSTAINABLE DEVELOPMENT GOALS

## Percentages and percentage points:

The rate of employment for males is by  $\underline{24 \text{ percent}}$  higher than the one for females (71 percent against 47 percent).

71/47% = 51 per cent71 - 47 = 24 percentage points



## **Decimals**

Pariod	Number	of visitors	Nights of stay			
Fenou	Resident	Non resident	Resident	Non resident		
2008	19.678	24.616	22.602	46.910		
2009	52.631	36.318	54.876	76.042		
2010	44.662	34.382	45.123	76.394		
2011	42.044	30.349	44.757	65.584		

#### Table 2. Number of visitors (resident and not resident) and nights of stay for 2008 - 2011

Table 2 shows the number of visitors – resident and non resident as well as nights of stay for resident and non-resident visitors during 2008-2011. In 2011 the number of resident visitors has decreased to 5.86% compared with 2010 and night of stay of resident visitors were reduced to 0.81%. Number of non-resident visitors has decreased by 11.73% and nights of stay are reduced to 14.15%

Hotel Statistics Q4 2011, Statistical Agency of Kosovo

## One decimal is enough!



38

## 13.47 %?

- <u>Never</u> use two decimals when reporting percentages
- When reporting percentages from censuses, registers, etc., use one decimal
- When reporting percentages from surveys, use no decimal (unless the sample is very large: LF survey)
- One exception: Population growth: 0.76%

#### Some tips on writing about numbers to a general audience

#### 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

## Writing about numbers to a general audience

- Keep it short and simple (KISS)
- 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.

## **Descriptive/explanatory text**

- Make it interesting by linking the data to national policies, goals and issues that people understand
- Use headings and bulleted lists to make it easy to scan long sections of text
- Make the headlines (titles) and first paragraph about the main findings so it draws the reader in
- Keep sentences and paragraphs short
- Use everyday language
- Include definitions / explanation of complex concepts
- Include clear references to described tables or charts and
- Be careful when describing the relative changes of variables expressed as a percentage percentage vs. percentage point
- Don't 'table read' by just writing what is already shown in a table– draw out the main findings instead
- Don't use technical jargon

DO

DON'T

### In general

- Make sure graphs and tables stand alone, meaning they have enough metadata and information to make sense if they were copied and pasted into another document
- KISS: Keep it short and simple
- Present data from different angles and analyse information presented in the explanatory text
- Test on friends and family members
- do they understand it, do they find it interesting?





# Something easily accessible to gain attention?

SUSTAINABLE DEVELOPMENT GOALS

#### Deaths in England & Wales, 2013

The latest ONS data shows statistics on deaths registered in England and Wales in 2013, including numbers of deaths, death rates and figures on causes of death.

#### NUMBER OF DEATHS REGISTERED



The number of deaths registered has increased 1.5% since 2012. This is the first time since 2008 that registrations have exceeded 0.5 million.

#### AGE-STANDARDISED MORTALITY RATES (ASMR)



The long term decline in mortality rates has continued. The male ASMR has decreased every year since 2001 whereas the female ASMR has fluctuated with a few rises, the most recent being in 2012.

#### **INFANT MORTALITY RATES**



In 2013 there were 2,767 infant deaths (under 1 year of age) registered in England and Wales, a decrease from 3,040 in 2012. Between 1983 and 2013 the infant mortality rate fell by 60%.

#### MOST COMMON BROAD CAUSES OF DEATH



(Note: percentages shown above do not sum to 100% due to rounding.)

In 2013, cancer was the most common broad cause of death (29% of all deaths registered) followed by circulatory diseases, such as heart disease and strokes (28%). For males, cancer was the most common broad cause of death while for females it was circulatory diseases.



www.ons.gov.uk





Statistisk sentralbyrå Statistics Norway

Source: http://www.ssb.no/en/befolkning

#### Women in the education system of Kazakhstan, 2013, %

Primary and secondary education

Technical and professional education

Higher education

Master degree

Doctoral degree

Sourece: Agency of statistics of the Republic of Kazakhstan www.stat.gov.kz

Graph

65%

center

## 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

SUSTAINABLE DEVELOPMENT GOALS

## Thank you for your attention!

