Global Environmental Performance Indicators 2022 analysis

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Data source: NASA (https://www.earthdata.nasa.gov/data/catalog/sedac-ciesin-sedac-epi-2022-2022.00)
Aim: The global environmental trends and differences analysis for Power BI skills demonstration.

Mean PM2.5 Exposure in 2010-2019

2010 2019

Global mean

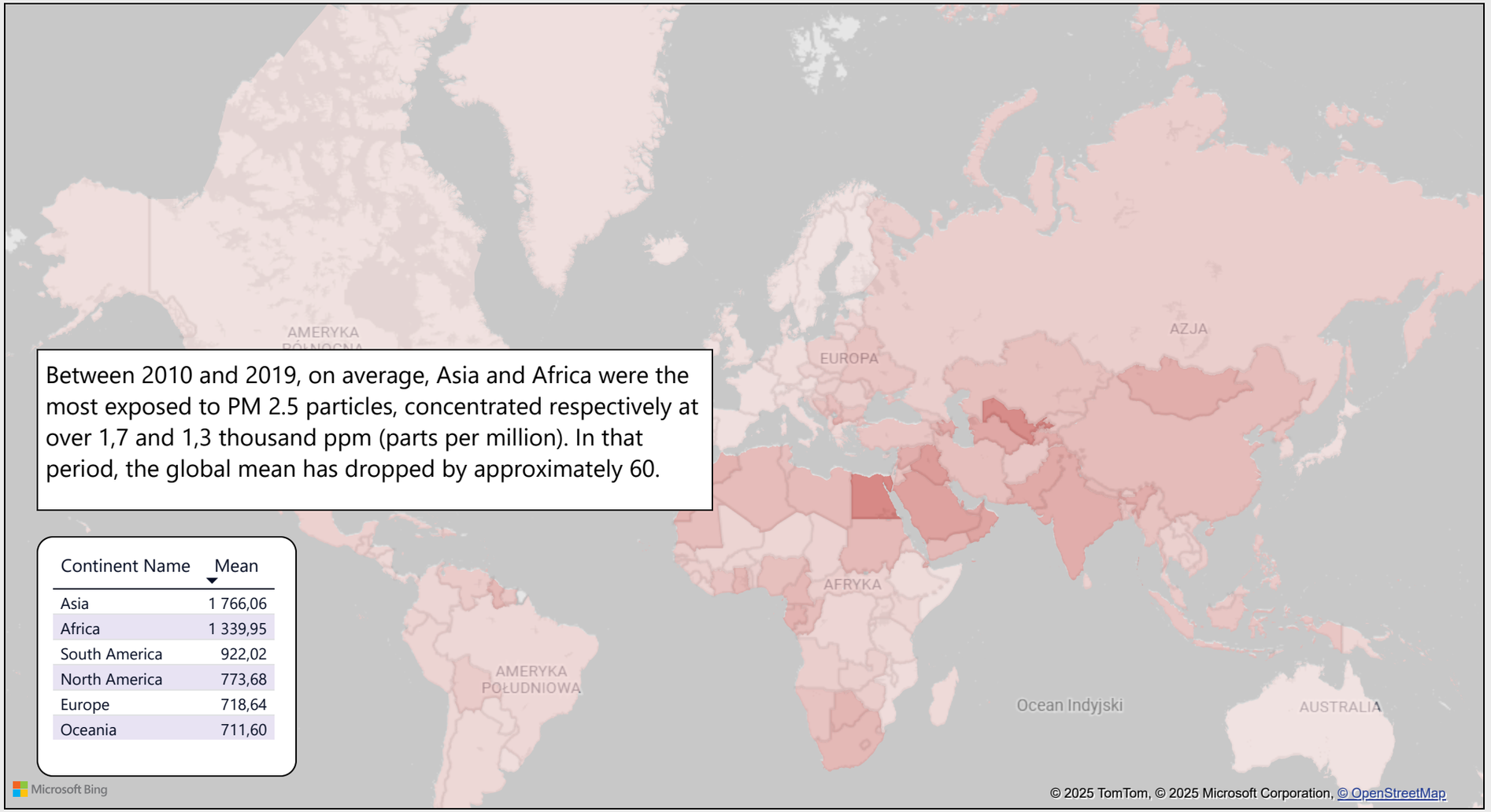
1,15 tys.

Global mean over the years

1,11 tys.

2019

- CO Exposure
- Household Solid Fuels
- NOx Exposure
- NOX Growth Rate
- Ozone Exposure
- PM2.5 Exposure
- SO2 Exposure
- SO2 Growth Rate
- VOC Exposure



Between 2010 and 2019, on average, Asia and Africa were the most exposed to PM 2.5 particles, concentrated respectively at over 1,7 and 1,3 thousand ppm (parts per million). In that period, the global mean has dropped by approximately 60.

Continent Name	Mean
Asia	1 766,06
Africa	1 339,95
South America	922,02
North America	773,68
Europe	718,64
Oceania	711,60

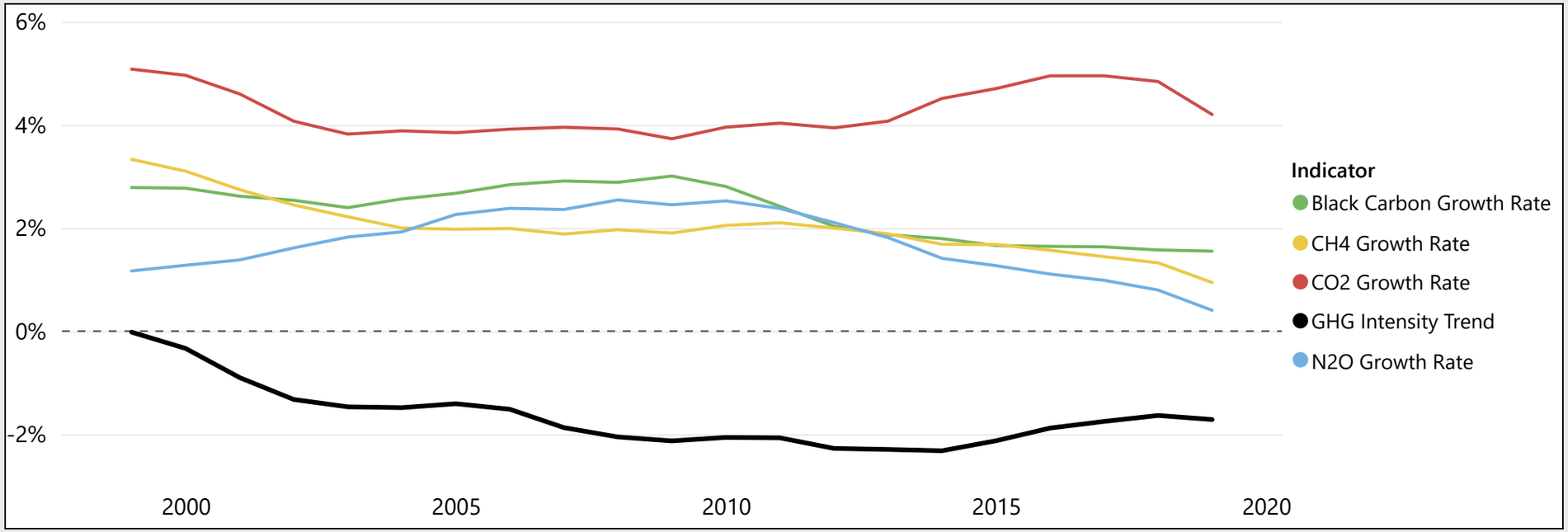
Climate Change in Africa

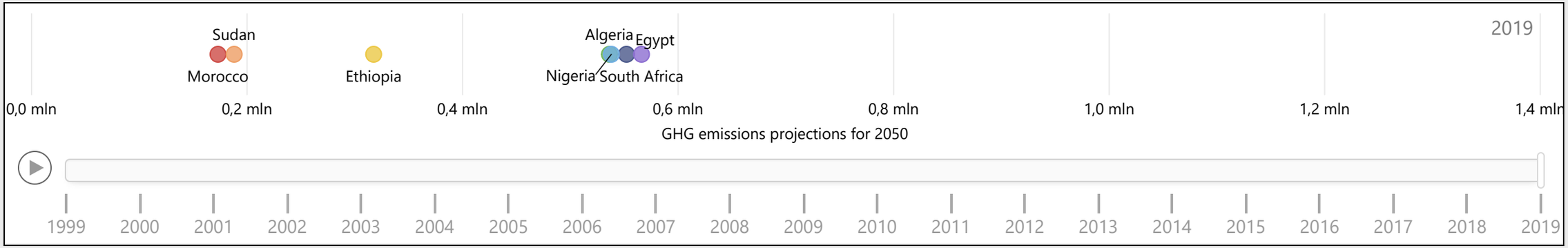
Highest GHG per capita in 2019

South Africa

GHG per capita	Black Carbon G.R.	CO2 G.R.	GHG intensity trend
618,6 tys.	3,57%	-0,69%	-1,72%
GHG in 2050	**CH4 G.R.**	**F-Gas G.R.**	**N2O G.R.**
566,7 tys.	0,24%	11,30%	-1,20%

- Africa
- Asia
- Europe
- North America
- Oceania
- South America





Ecosystems

% of countries

that achieved 17% Terrestial Biome Protection target

18,6%

Usuń zaznaczenie wszystkich

Africa

Asia

Europe

North America

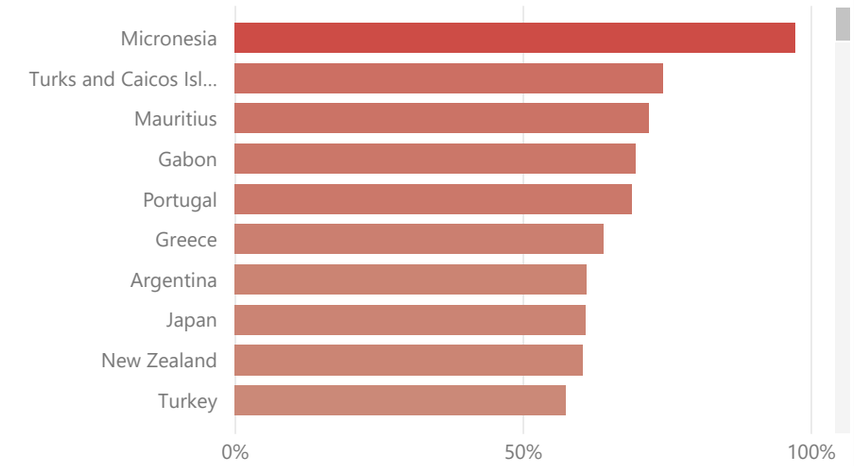
Oceania

South America

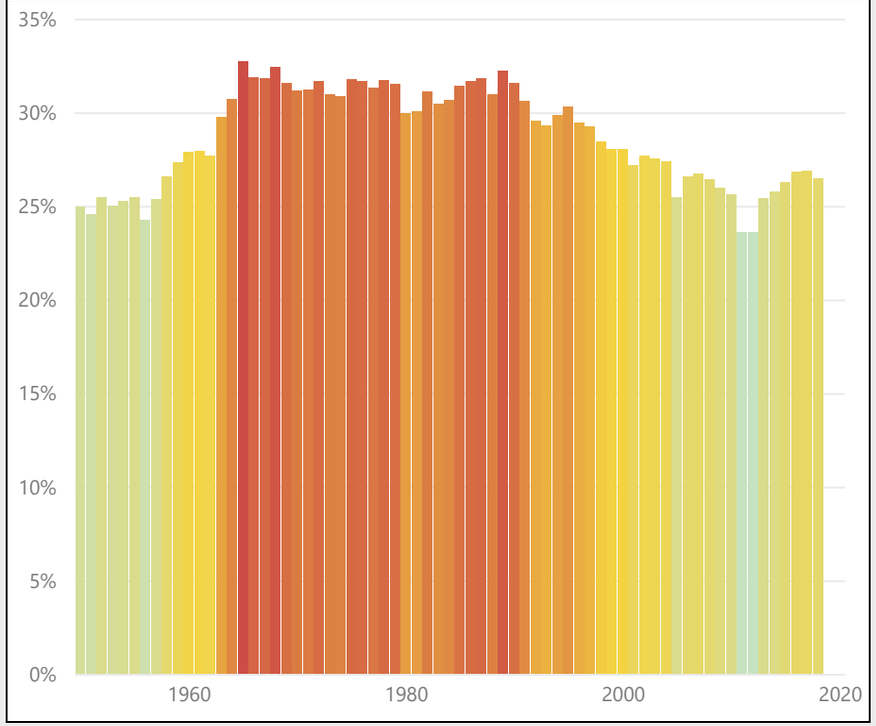
Year

2019

% of fish caught from overexploited stocks (2018)



% of fish caught by bottom trawling (mean)



Grassland, Tree Cover and Wetland loss (% of 2000)

Country	GRL	TCL	WTL
Afghanistan	0,09%	0,00%	0,00%
Albania	0,57%	0,00%	0,26%
Algeria	0,07%	0,01%	0,00%
Andorra	0,00%	0,00%	
Angola	0,08%	0,00%	0,00%
Anguilla	0,00%	0,00%	0,00%
Antigua and Barbuda	0,03%	0,00%	0,00%
Argentina	0,03%	0,00%	0,07%
Armenia	0,35%	0,00%	0,00%
Aruba	3,72%	0,00%	1,82%
Australia	0,00%	0,01%	0,01%
Austria	0,00%	0,00%	0,06%
Azerbaijan	0,39%	0,00%	0,05%
Bahamas	0,01%	0,01%	0,00%
Bahrain			0,00%
Bangladesh	0,04%	0,01%	0,21%
Barbados	0,00%	0,00%	0,00%
Belarus	0,02%	0,01%	0,20%
Belgium	0,30%	0,00%	0,97%
Belize	0,00%	0,01%	0,00%
Benin	0,29%	0,01%	0,00%
Bermuda		0,00%	0,00%
Bhutan	0,09%	0,00%	2,88%
Bolivia	0,43%	0,01%	0,86%
Bosnia and Herzegovina	0,02%	0,00%	0,00%
Botswana	0,05%	0,00%	0,02%
Brazil	0,21%	0,01%	0,10%
British Virgin Islands	0,00%	0,01%	0,00%
Brunei Darussalam		0,00%	
Bulgaria	0,09%	0,00%	0,00%
Burkina Faso	0,26%	0,01%	0,63%
Burundi	0,20%	0,00%	0,24%
Cabo Verde	0,03%	0,00%	0,00%
Cambodia	0,27%	0,02%	0,31%
Cameroon	0,16%	0,00%	0,57%
Canada	0,04%	0,01%	0,00%

Drillthrough

Proportion of EEZ area by continent

Country	EEZ_%of_continent
United States	11,65%
Australia	8,60%
Russia	7,55%
Indonesia	5,77%
Canada	5,47%
French Polynesia	4,57%
United Kingdom	4,27%
Japan	4,24%
New Zealand	4,18%
France	3,55%
Brazil	3,52%
Chile	3,50%
Kiribati	3,30%
Mexico	3,05%
Micronesia	2,89%
Argentina	2,76%
Papua New Guinea	2,31%
India	2,23%
Greenland	2,15%
Mauritius	2,11%
Norway	1,96%
Marshall Islands	1,92%
Philippines	1,89%
Cook Islands	1,89%
Portugal	1,65%
Solomon Islands	1,54%
South Africa	1,48%
Suma	**100,00%**

Grassland area loss (5-year interval) | Tree cover loss (5-year interval) | Wetland area loss (5-year interval)

Grassland, Tree Cover and Wetland loss (5-year interval, km2)

Country	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Australia	6313,42	9189,01	9187,37	5977,27	2877,07	2877,07	0,00	0,00	2578,75	5188,68	6956,24	9695,28	9695,28	9234,09	6624,16	4856,61	2117,56	2117,56	2,04	2,04	2,04	2,04	2,04	0,00

Year	Grassland area	Total area of Marine Protected Areas	Wetland area
1990		1487,33	
1991		1752,01	
1992	1118343,90	1764,70	101936,30
1993	1118342,42	1784,33	101935,57
1994	1118340,78	1787,49	101934,90
1995	1115130,68	1787,49	101704,61
1996	1112030,48	1817,26	101605,25
1997	1112350,85	3069,15	101464,33
1998	1109473,78	3747,12	101386,16
1999	1111146,67	6058,30	101186,03
2000	1118988,59	6619,85	101076,09
2001	1119560,65	7431,27	101264,47
2002	1121116,46	7740,33	101289,56
2003	1124263,01	30460,38	101363,04
2004	1131782,81	30469,18	101397,32
2005	1129204,05	376889,40	101419,17
2006	1126594,13	381070,24	101440,22
2007	1124826,57	387753,09	101452,28
2008	1122087,52	392407,86	101502,73
2009	1122226,09	392820,52	101557,72
2010	1120108,53	424353,05	101587,34
2011	1120648,49	424709,77	101651,49
2012	1122630,61	427335,59	101650,00
2013	1126886,15	811249,85	101648,72
2014	1133993,72	811252,93	101718,08
2015	1133991,68	811414,00	101717,90
2016	1138232,15	811416,16	101734,67
2017	1144066,23	828173,52	101746,30
2018	1206386,95	836373,06	101773,00
2019	1218482,43	3015729,50	101723,23

Total Economic Exlusion Zones area

9,03 mln

Drinking water, sanitation and waste management

Recycling rates

79,77%

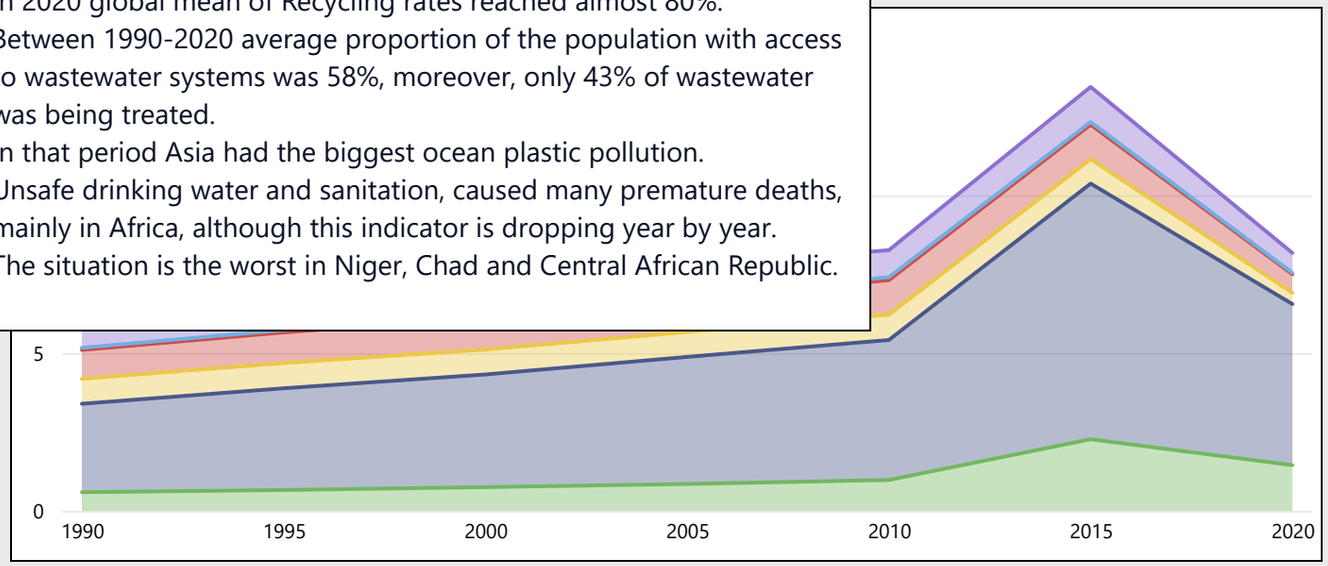
% of population connected to wastewater system

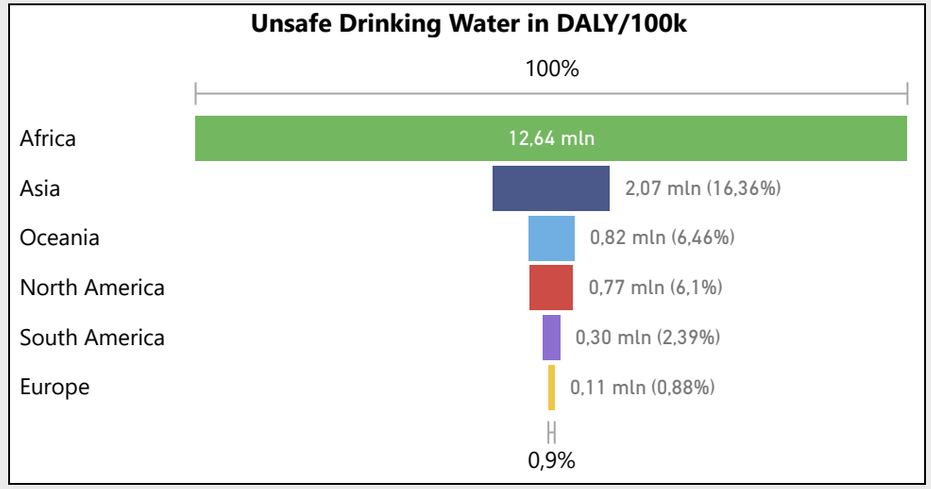
58,24%

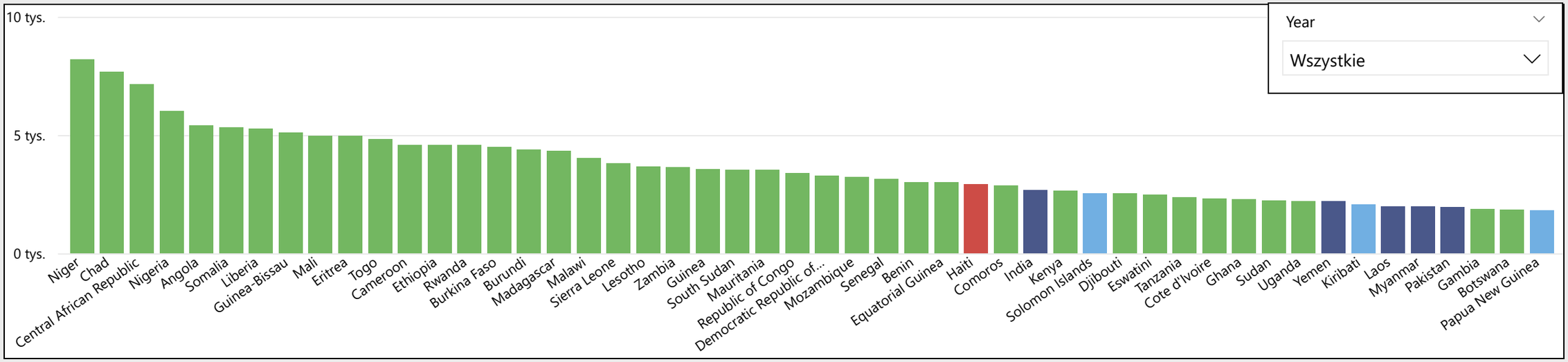
% of wastewater treament level

43,05%

In 2020 global mean of Recycling rates reached almost 80%.
Between 1990-2020 average proportion of the population with access to wastewater systems was 58%, moreover, only 43% of wastewater was being treated.
In that period Asia had the biggest ocean plastic pollution.
Unsafe drinking water and sanitation, caused many premature deaths, mainly in Africa, although this indicator is dropping year by year.
The situation is the worst in Niger, Chad and Central African Republic.







Year

Wszystkie