

Analysis of Global Weather

Yining Wang N13373129

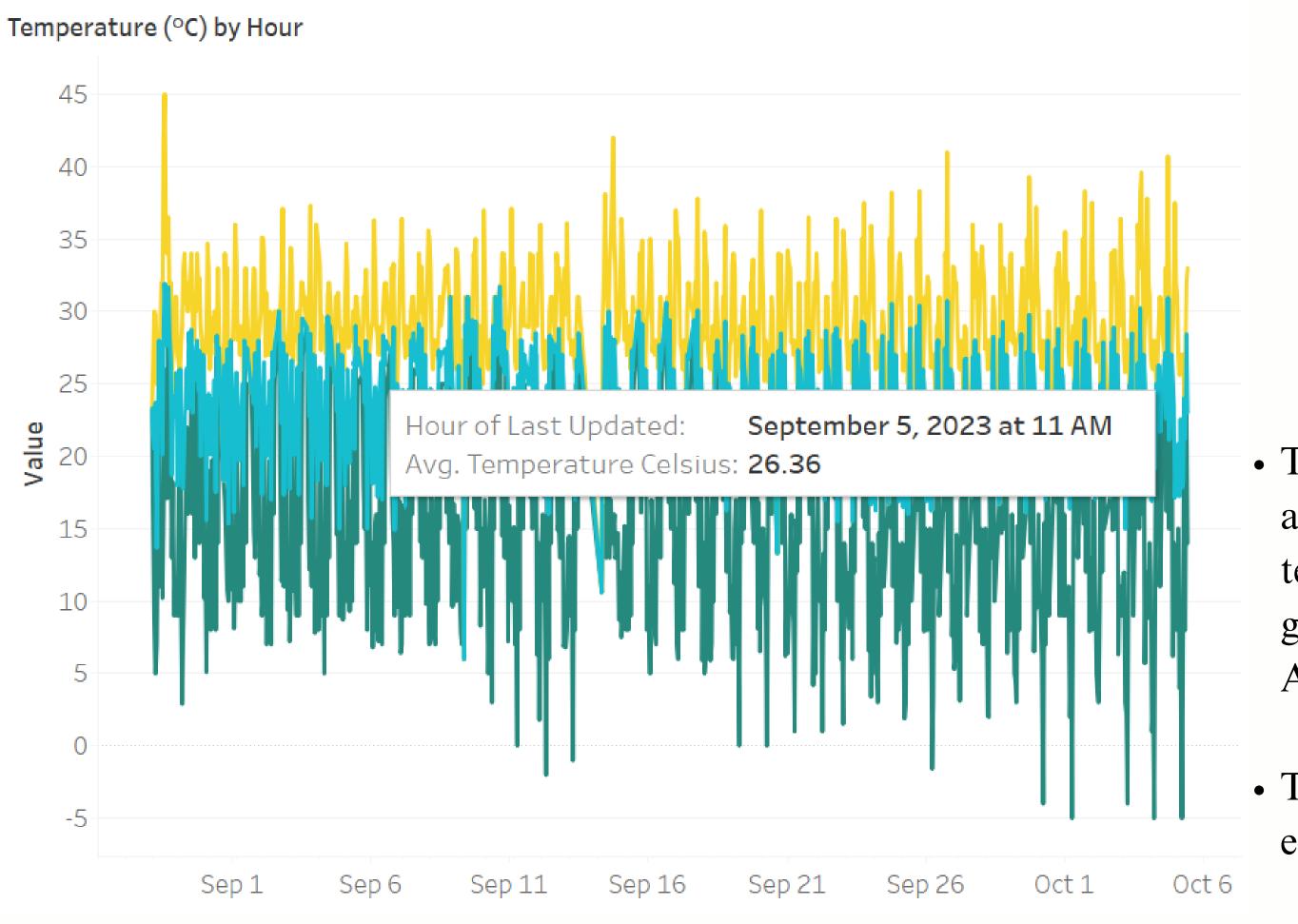


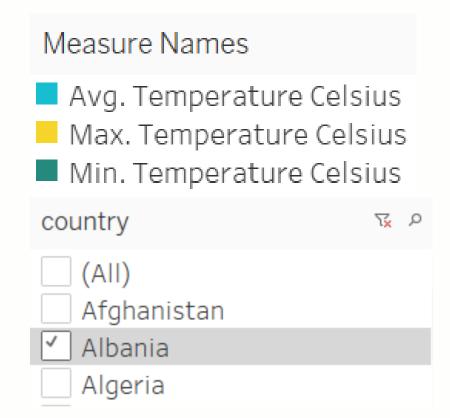
Content

- Global Weather Analysis
 - Perception
 - Temperature
 - AQI
 - Uv Index

Dashboards

- Analysis of uv index and cloud
- Analysis of PM 10 and percipitation
- Analysis of air pollution

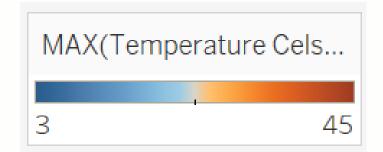




- The line chart shows the average, maximum, minimum temperature Celsius of the global world by hour from August 28 to October 5
- The trend can be showed by each country using the filter

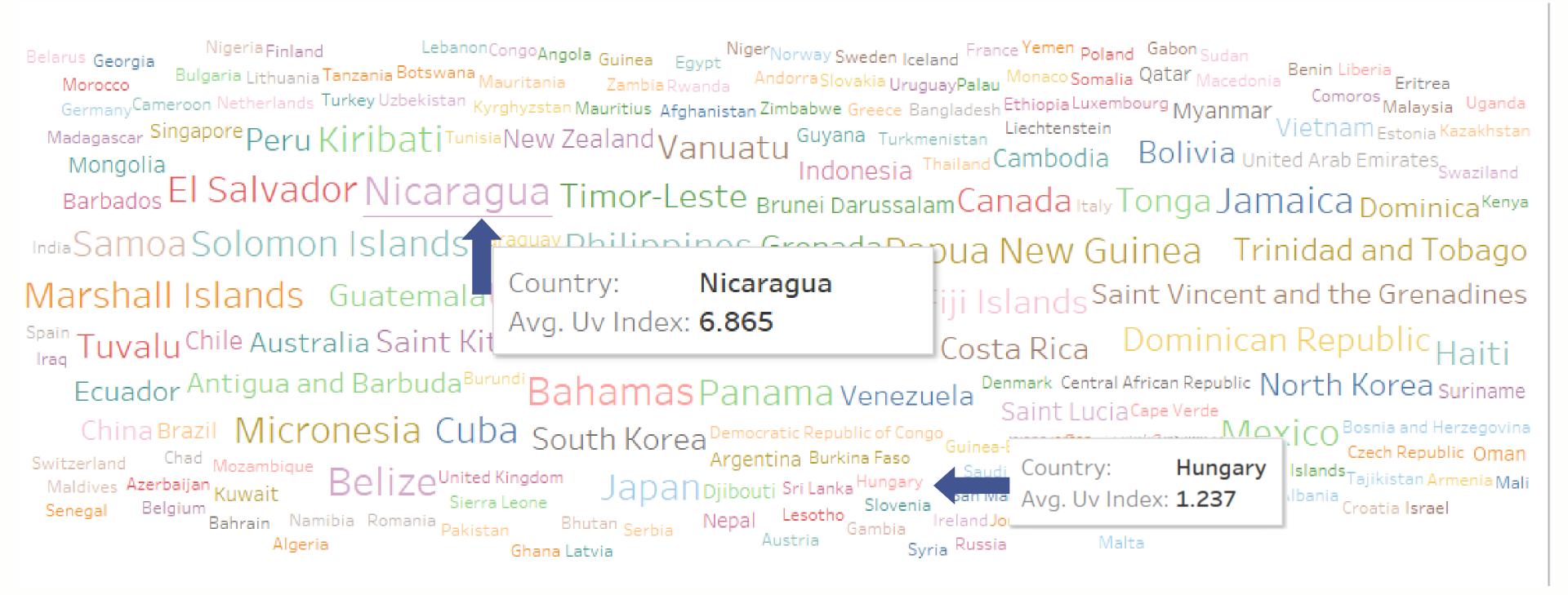
Maximum Temperature

		Last Updated						
Country	Location Na 2	August	Q3	September		Q4 October		
Afghanistan	Kabul	, agase	28.8		22.7		12.5	,
Albania	Tirana		27		29		19	
Algeria	Algiers		28		37		23	
Andorra	Andorra La Vella		10.2		15.9		13.8	
Angola	Luanda		25		26		24	
Antigua and Barbuda	Saint John's		29		32		30	
Argentina	Buenos Aires		16		23		18	
Armenia	Yerevan		31		26		17	
Australia	Canberra		16		18		22	
Austria	Vienna		17		23		20	
Azerbaijan	Baku		31		26		22	
Bahamas	Nassau		31		32		30	
Bahrain	Manama		38		38		32	
Bangladesh	Dhaka		34		20.7		26.5	
Barbados	Bridgetown		Month of La	st Updated:	August		31	
Belarus	Minsk		Country:		Bahrain		16	
Belgium	'S-Gravenwezel		Location Na		Manama		19	
	Brussels			ast Updated:	Q3		19	
Belize	Belmopan		Year of Last		2023		32	
Benin	Porto-Novo						28	
Bhutan	Thimphu		ıvıax. Tempe	rature Celsius:	38		11.9	
Bolivia	National		32.7		37.3		40.7	
	Sucre		19.5		25.9		28.4	
Desnis and Hausesey	Caraiana		າາ		24		1 🛭	



- The chart focus on the maximum
 Celsius for each country by quarters
- The orange-blue setting can show the trend of temperature quickly

Ux Index by Country



- The size of the font for each country corresponds to the size of the average of Uv Index
- The larger the font, the larger the Uv Index

Analysis of uv index and cloud

Ux Index by Country Eritrea Burundi Namibia Hungary Barbados Lebanon Maldives Madagascar Montenegro Mali Cuba Cambodia ecce Myanmar Azerbaijan Luxembourg Liechtenstein Ecuador Kazakhstan geria Australia Japan Grenada Canada Netherlands Mexico Mona aHonduras Fiji Islands Costa Rica Comoros Central African Republica Morocco El Salvador Argentina Democratic Republic of Congo Mozambique Bahamas Israel Dominican Republic Italy Marshall Islands Igium Dominica Micronesia Guatemala Antigua and Barbuda Georg

sotho Bosnia and Herzegovina Equatorial Guinea Jamaica Kiribati Haiti

Mongolia Cape Verde Burkina Faso Afghanistan Botswana Mauritius

Guinea-Bissau Bolivia Malaysia

Kyrghyzstan Mauritania Macedonia Joi

Armenia Andorra

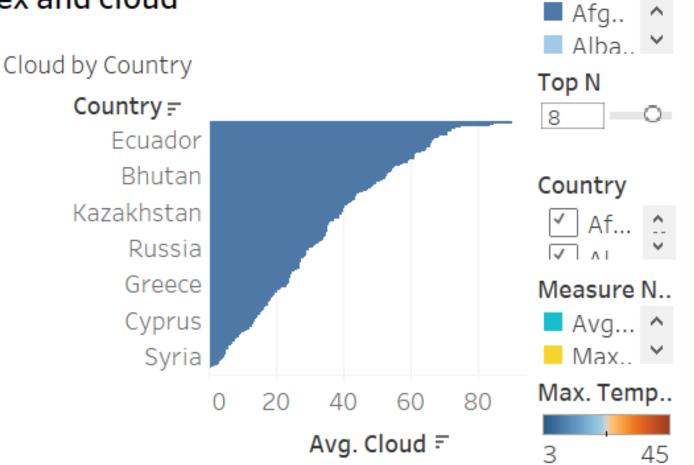
Maximum Temperature

Cameroon Brunei Darussalam Bangladesh Czech Republic

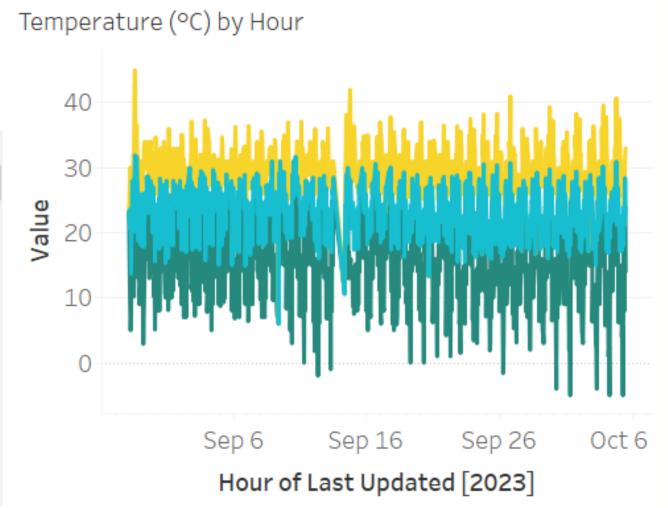
Denmark Chad Germany Bulgaria Gabon

Guinea Malawi Djibouti Ethiopia

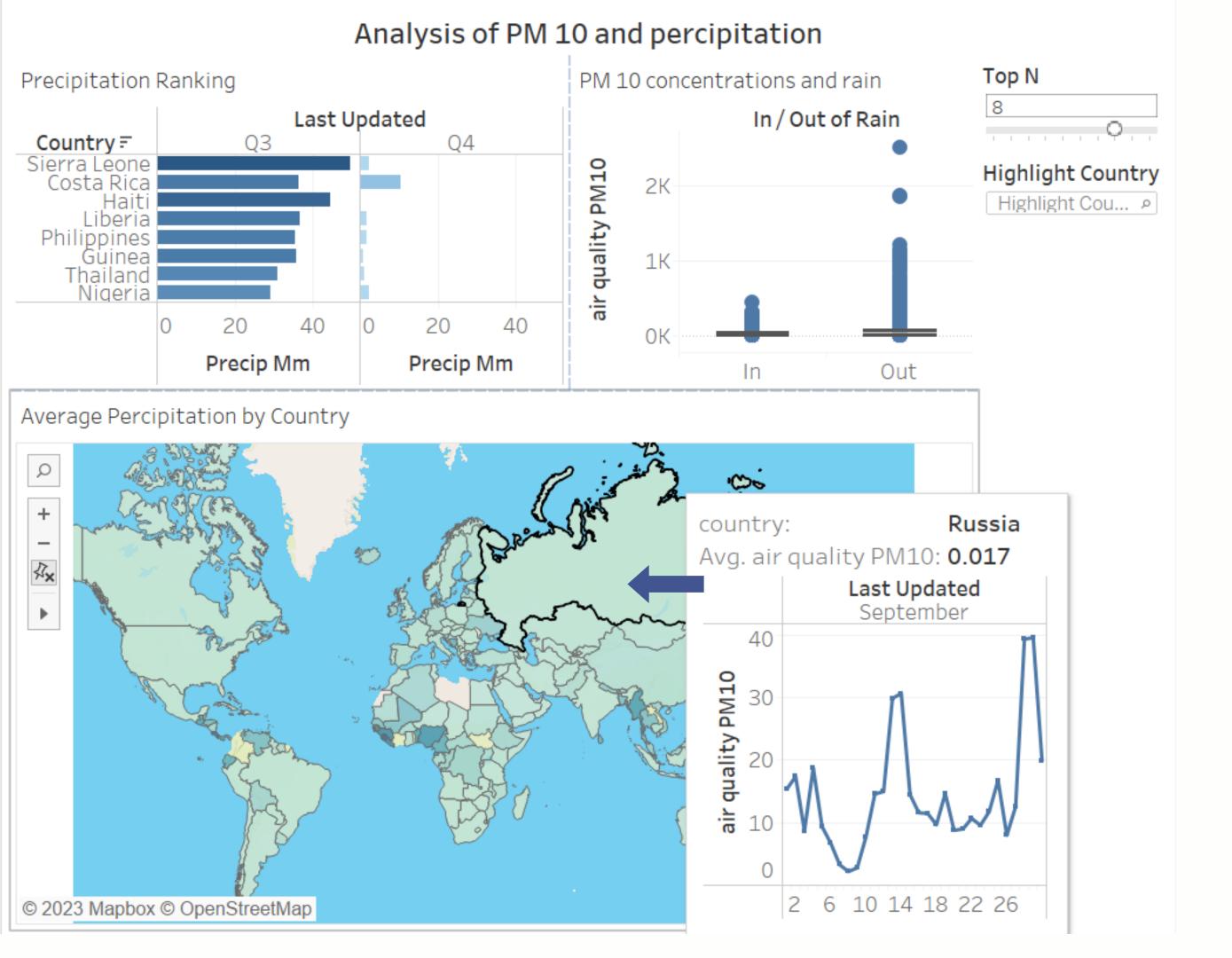
		Last Updated			
		Q3		Q4	
Country	Location N 2	Augu	Sept	Octo	
Afghanistan	Kabul	28.8	22.7	12.5	^
Albania	Tirana	27	29	19	
Algeria	Algiers	28	37	23	
Andorra	Andorra La Vel	10.2	15.9	13.8	
Angola	Luanda	25	26	24	
Antigua and B	Saint John's	29	32	30	
Argentina	Buenos Aires	16	23	18	
Armenia	Yerevan	31	26	17	
Australia	Canberra	16	18	22	
Austria	Vienna	17	23	20	
Azerbaijan	Baku	31	26	22	V
		24	20	20	



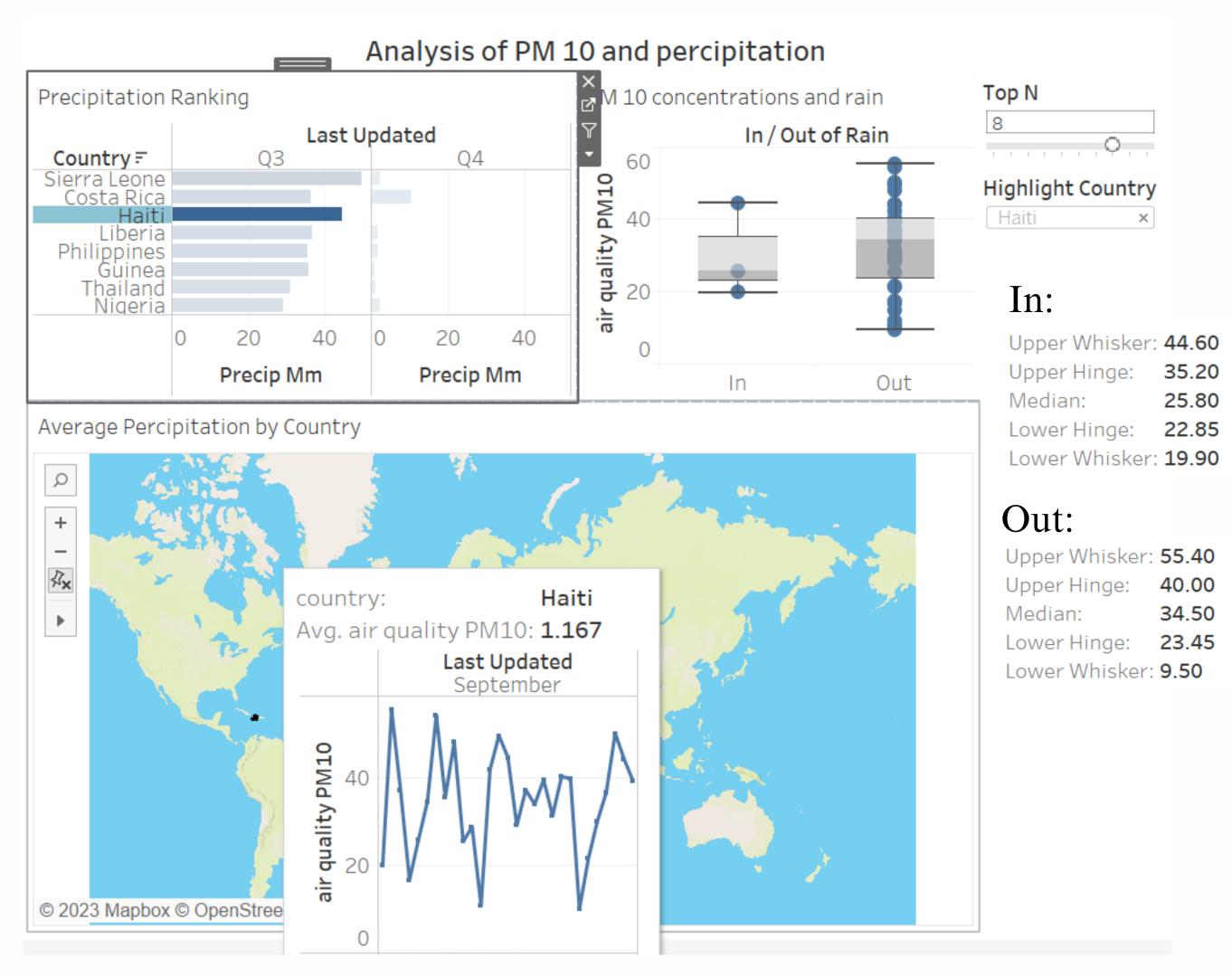
Country



- The thicker the clouds, the smaller the UV Index
- The thicker the clouds, the lower the maximum temperature, the lower the average temperature



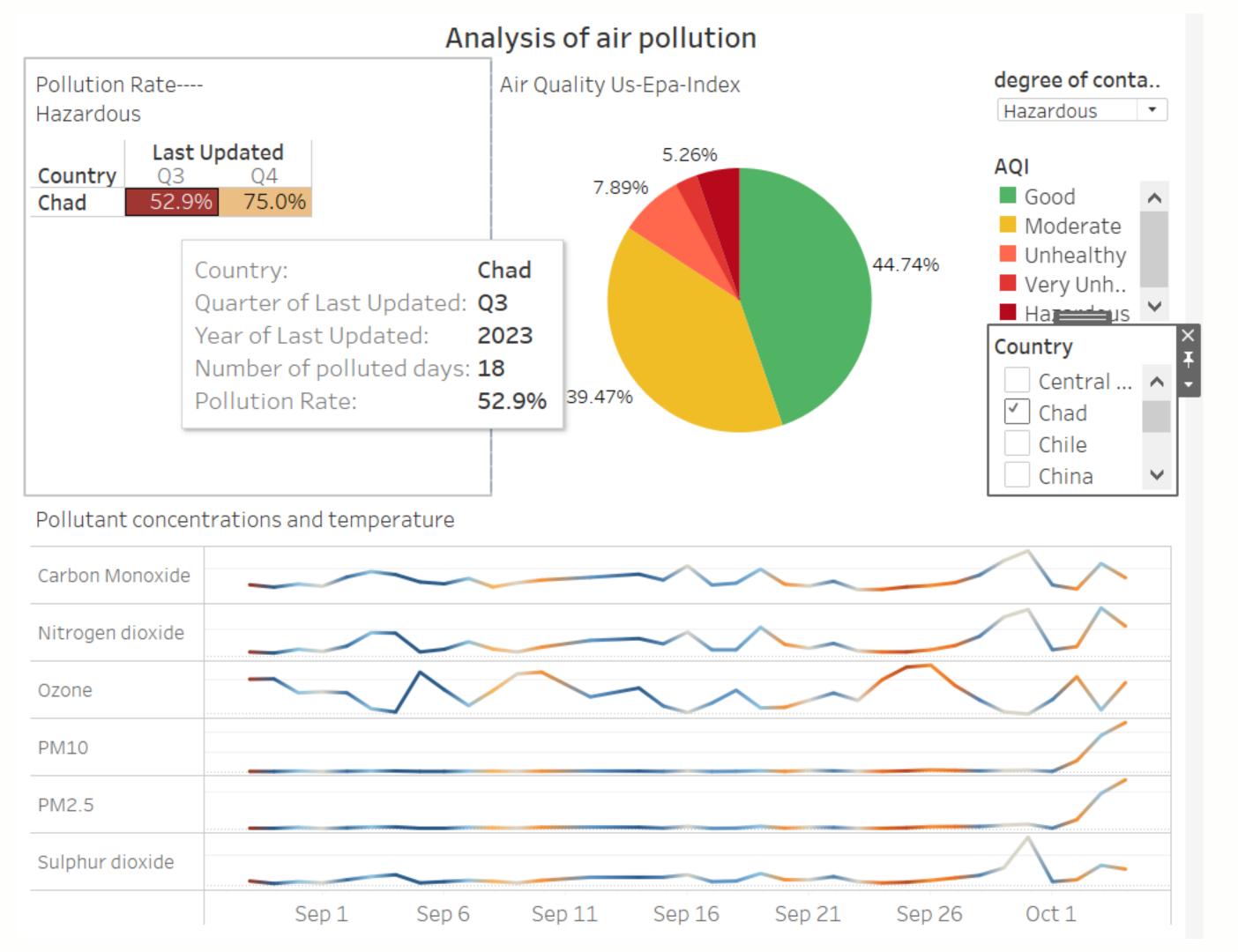
- The dashboard shows the precipitation ranking (Top N), the effect of rain on PM10, the trend of PM10 for relevant country by day, the degree of precipitation by country.
- The more rainfall there is, the lower the PM10 values are.



- Highlight the country
 of the third of
 precipitation ranking Haiti
- The value of PM10 is lower when it rains.
- The country in the top precipitation ranking are geographically located near the equator.

Analysis of air pollution degree of conta.. Pollution Rate----Hazardous Air Quality Us-Epa-Index Hazardous Last Updated Country 5.40% 03 04 AQI 33.3% 40.0% ^ Afghanistan Good Albania 39.4% 20.0% Moderate 8.8% 25.0% Algeria Severe 20.79% 0.0% 0.0% Andorra Unhealthy Angola 2.9% 0.0% ■ Verv Unh.. 💙 Antigua and Bar.. 0.0% 0.0% Argentina 8.8% 0.0% Country 3.0% 0.0% Armenia ✓ (AII) 68.32% Australia 0.0% 0.0% Afghani... 40.0% 30.3% Austria Albania Algeria Pollutant concentrations and temperature Carbon Monoxide Nitrogen dioxide Ozone PM10 PM2.5 Sulphur dioxide Sep 1 Oct 1 Sep 11 Sep 21 Sep 26 Oct 6 Sep 6 Sep 16

- The dashboard shows the pollution rate according to the degree of contamination
- (Moderate/Severe/Unhealthy /Very Unhealthy/Hazardous)
- The dashboard transfers the AQI to six levels and shows the number of Good level country is 68% of total country.
- Different temperature bring the different effect to the pollutant concentration. The higher the temperature, the higher the ozone level



• All of relevant data will be changed by filtering the selected country, which helps analyze air pollution of the specific country.

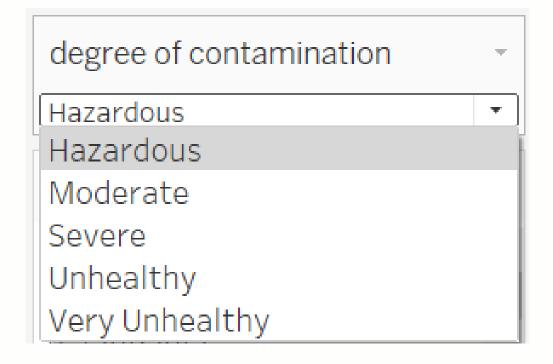
Pollution Rate-- Hazardous

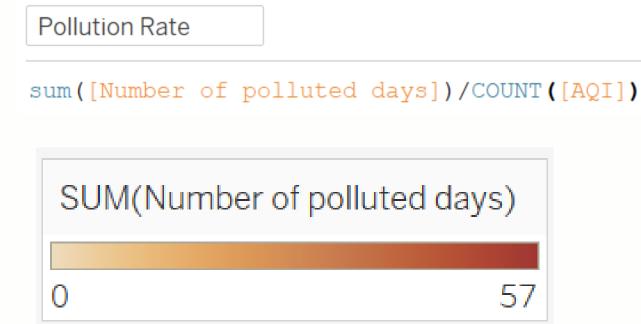
Country	Last Updated Q3 Q4		
Bahrain	100.0%	100.0%	^
Bangladesh	63.6%	20.0%	
Barbados	0.0%	0.0%	
Belarus	3.0%	0.0%	
Belgium	34.8%	0.0%	
Belize	0.0%	0.0%	
Benin	8.8%	25.0%	
Bhutan	0.0%	0.0%	
Bolivia	13.2%	0.0%	
Bosnia and Herzegovina	24.2%	20.0%	
Botswana	39.4%	40.0%	
Brazil	5.9%	25.0%	
Brunei Darussalam	0.0%	0.0%	
Bulgaria	13.1%	33.3%	
Burkina Faso	91.2%	100.0%	
Burundi	90.9%	100.0%	
Cambodia	45.5%	80.0%	
Cameroon	44.1%	100.0%	
Canada	5.9%	50.0%	
Cape Verde	14.7%	100.0%	
Central African Republic	8.8%	0.0%	
Chad	52.9%	75.0%	
Chile	100.0%	75.0%	
China	97.0%	100.0%	~

• Create a new parameter

degree of contamination

- Create a new set
 - © Compliance with specified pollution levels
- Create a new calculated field
 - ****** Number of polluted days
- Create a new calculated field
 - **#** Pollution Rate





Thank you

