

Data Visualizations on the Russian Ukrainian War



Introduction



The Russian invasion of Ukraine has shocked the world on both a political and economic scale. The war is affecting millions of lives and will have consequences in a variety of areas such as humanitarian aid, global security, energy supplies.

This is one of the reasons why we as a group decided to go ahead with this topic given the historical repercussions that have occurred there is a variety of data that can be presented in detailed informative visuals.

Overview of the Russian Invasion of Ukraine

Feb-Mar
2014

Russia annexed Crimea

Mar
2014

Armed Russian-backed separatist groups seized eastern Ukrainian territories of the Donbas region

Apr
2014

Separatist groups in Donbas declared the Donetsk and Luhansk People's Republics (DPR and LPR, respectively)

Jul
2014-2022

Ongoing armed conflict between Ukraine and self-declared DPR and LPR

Feb
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Russia strengthens military presence around U

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Overview of the Russian Invasion of Ukraine



Overview of the Russian Invasion of Ukraine



**FEB 24
2022**

**FEB 24
2022**

Russia launched a large-scale invasion of Ukraine

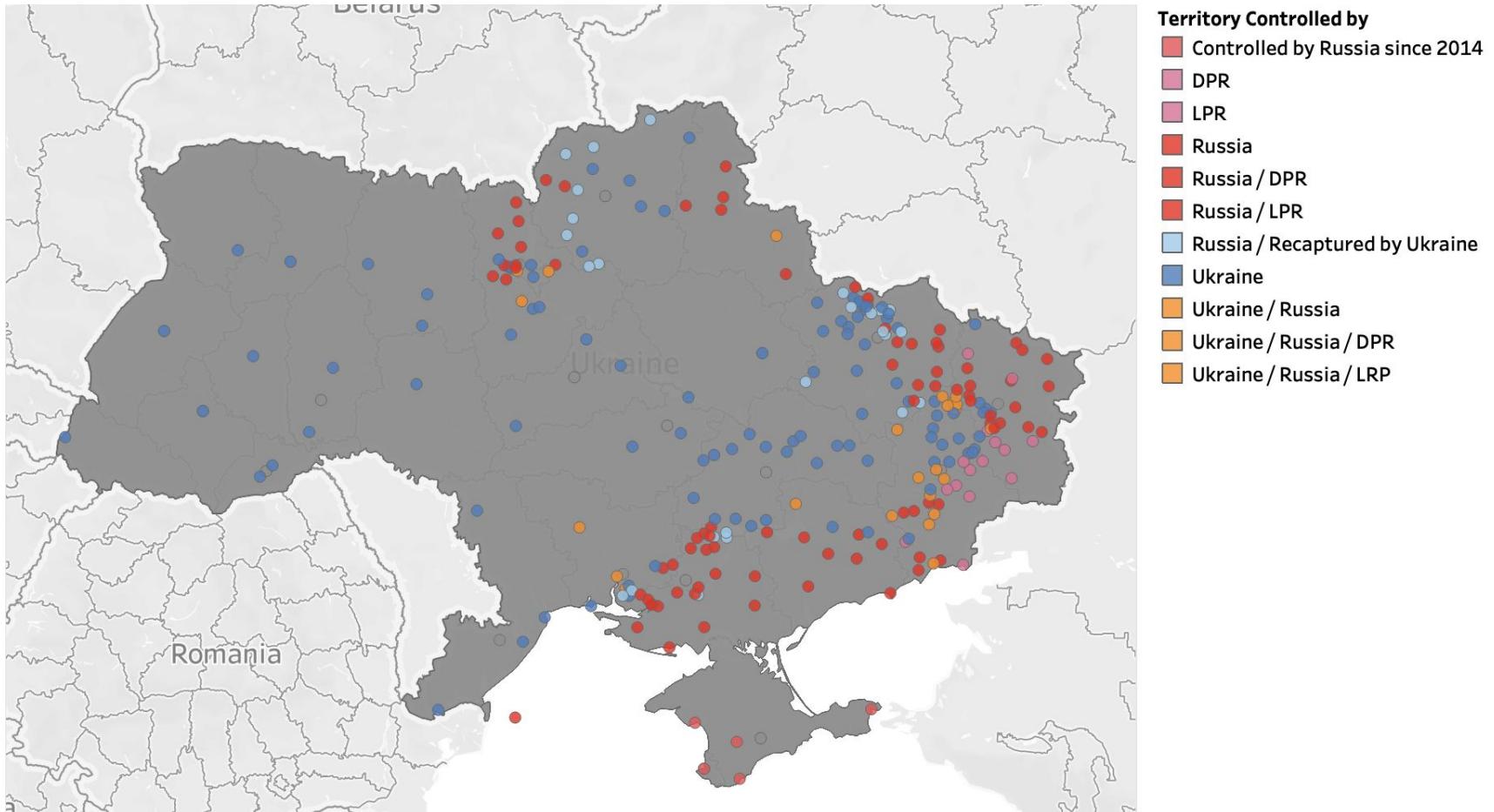
The invasion has caused Europe's largest refugee crisis
since World War II

Map of the Russian Invasion of Ukraine

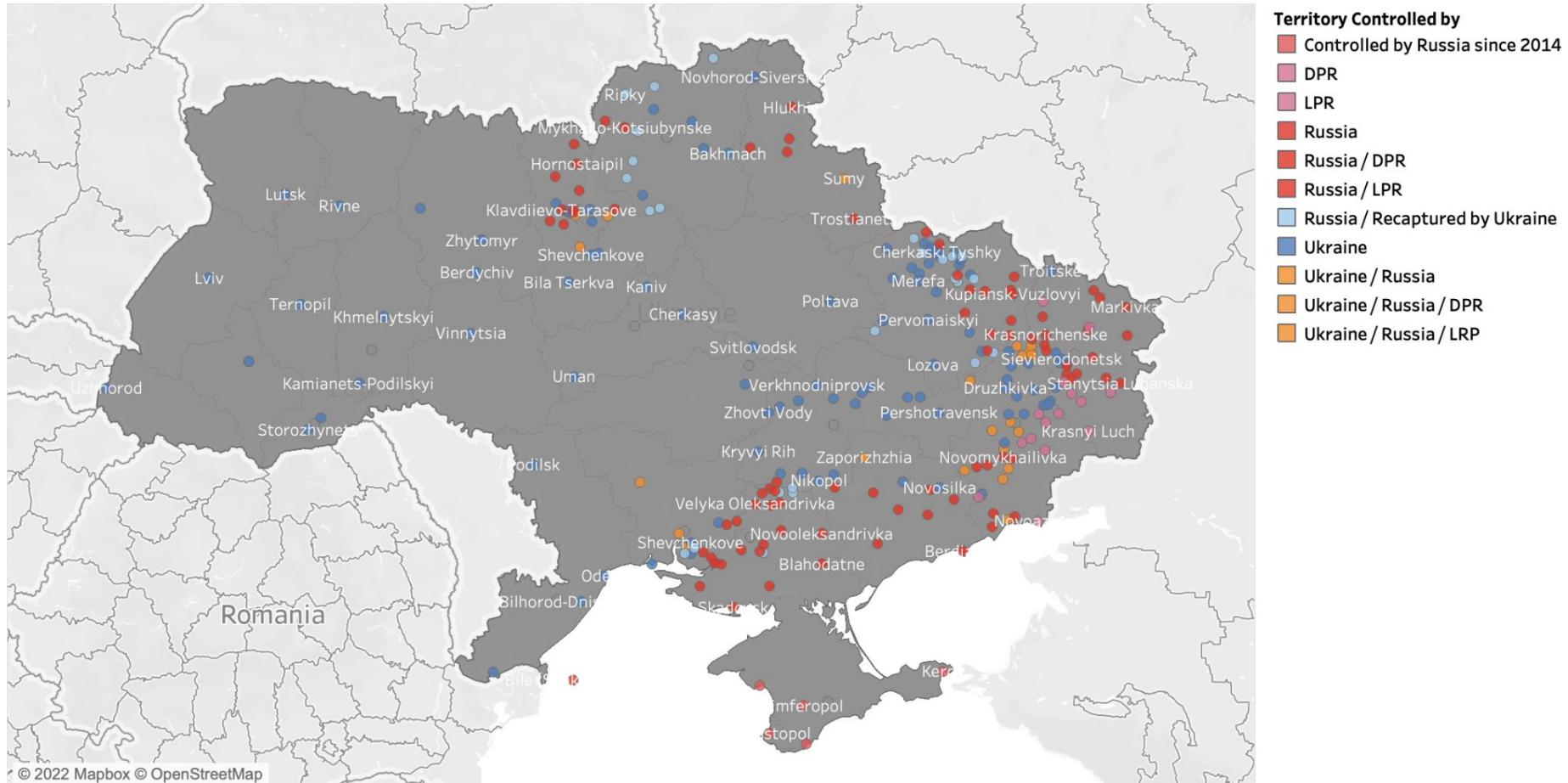
Areas of Russian military control in Ukraine



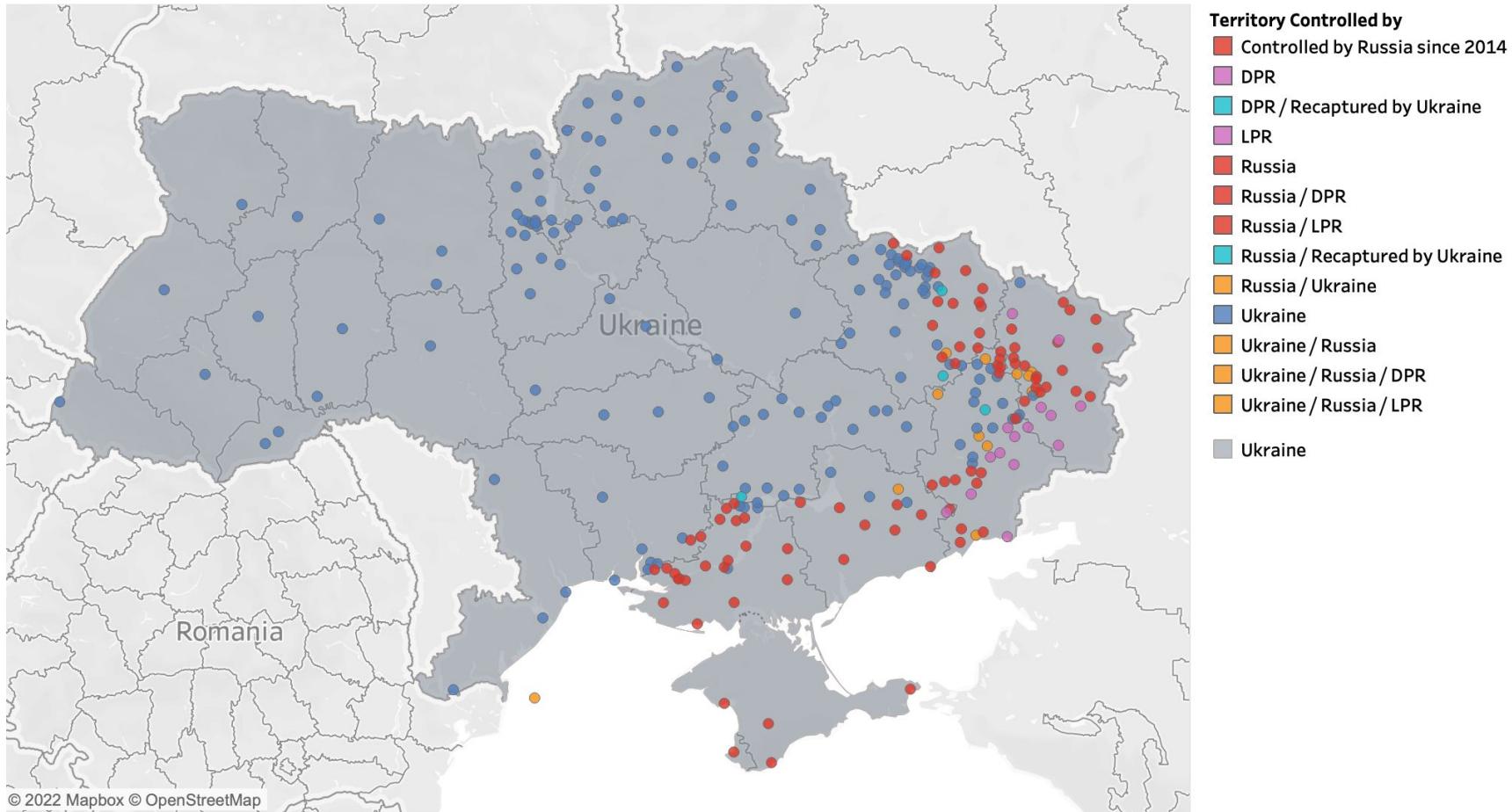
Map of the Russian Invasion in Ukraine from Feb 24, 2022 to mid-April



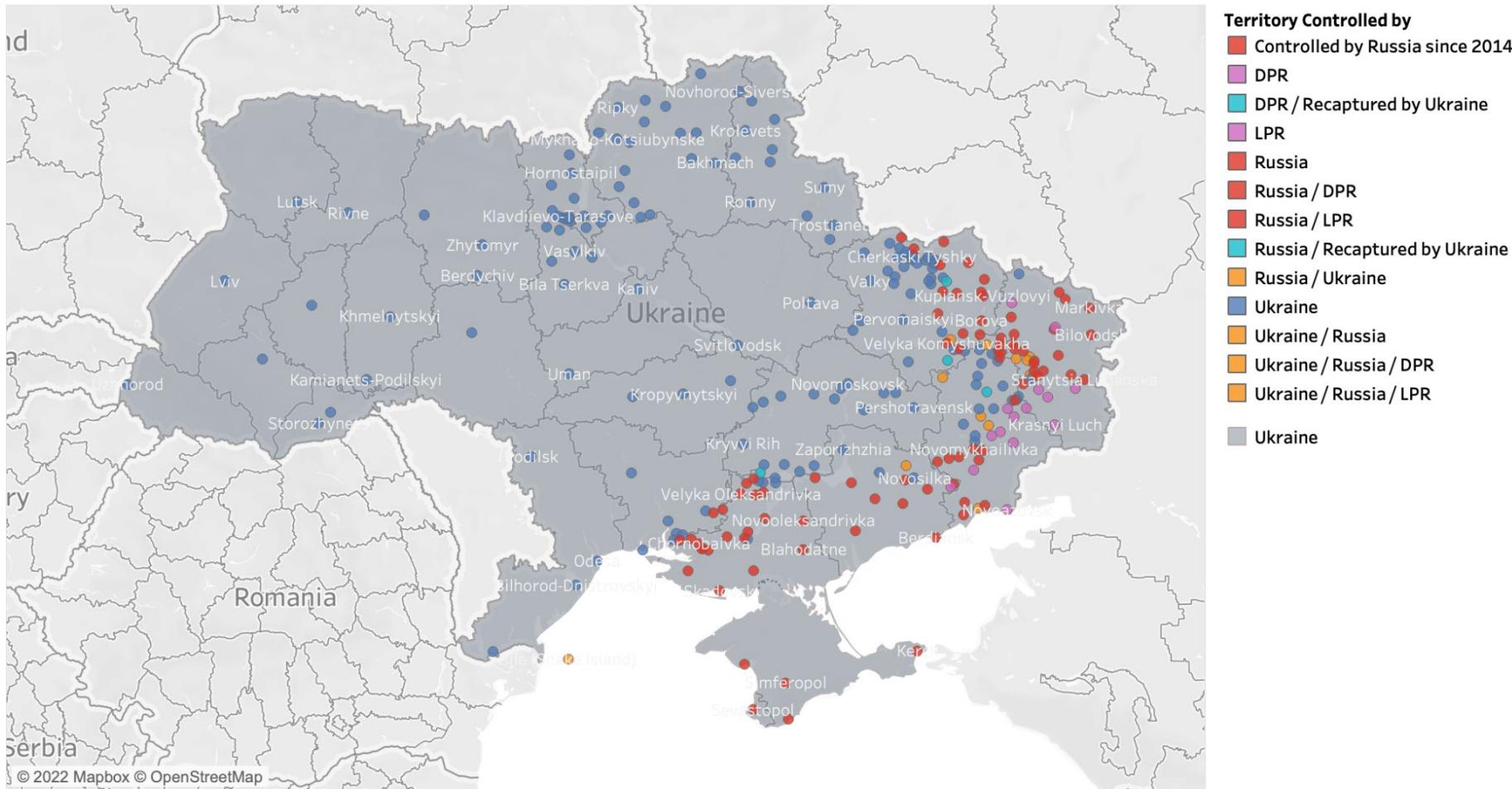
Map of the Russian Invasion in Ukraine from Feb 24, 2022 to mid-April



Map of the Russian Invasion in Ukraine from mid-April to Present



Map of the Russian Invasion in Ukraine from mid-April to Present





Civilian Casualties in Ukraine

Data sources for these visuals:

Reports of the UN High Commissioner for Human Rights (OHCHR)



HAUT-COMMISSARIAT AUX DROITS DE L'HOMME • OFFICE OF THE HIGH COMMISSIONER FOR HUMAN RIGHTS
UNITED NATIONS HUMAN RIGHTS MONITORING MISSION IN UKRAINE • Esplanadna 20, Kyiv, UKRAINE
HRMMU@ohchr.org, +38 (044) 253 59 66

28 February 2022

Civilian casualty report¹

From 4am on 24 February 2022, when the Russian Federation's military action against Ukraine started, until 12 midnight on 27 February 2022, the Office of the UN High Commissioner for Human Rights (OHCHR) recorded 406 civilian casualties in Ukraine: 102 killed (15 men, 14 women, 3 boys, 2 girls, as well as 2 children and 66 adults whose sex is yet unknown) and 304 injured (26 men, 18 women, 5 girls, 2 boys, as well as 14 children and 239 adults whose sex is yet unknown).

196 casualties (50 killed and 146 injured) were recorded in Donetsk and Luhansk regions: 158 (37 killed and 121 injured) in Government-controlled territory, and 38 (13 killed and 25 injured) in territory controlled by the self-proclaimed 'republics'.

210 casualties (52 killed and 158 injured) were recorded in other regions of Ukraine (the city of Kyiv, and Cherkasy, Chernihiv, Kharkiv, Kherson, Kyiv, Sumy and Zaporizhzhia regions) in places which were under Government control when casualties occurred.

The screenshot shows the top navigation bar of the United Nations Human Rights website. It features the UN logo and the text "United Nations" next to it. To the right is the OHCHR logo with the text "UNITED NATIONS HUMAN RIGHTS OFFICE OF THE HIGH COMMISSIONER". Below the main navigation, there are several dropdown menus: "What are human rights?", "Topics", "Countries", "Instruments & mechanisms", "Latest", "About us", and "Get Involved". A search icon is also present in the top right corner.

Latest / Media Center

NEWS | OFFICE OF THE HIGH COMMISSIONER FOR HUMAN RIGHTS

Ukraine: civilian casualty update 12 May 2022

12 May 2022

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[Strengthening the work of the Security Council on sexual and gender-based violence in conflict: the strategic use of evidence from](#)

Date: 12 May 2022

From 4 a.m. on 24 February 2022, when the Russian Federation's armed attack against Ukraine started, to 24:00 midnight on 11 May 2022 (local time), the Office of the UN High Commissioner for Human Rights (OHCHR) recorded 7,326 civilian casualties in the country: 3,541 killed and 3,785 injured. This included:

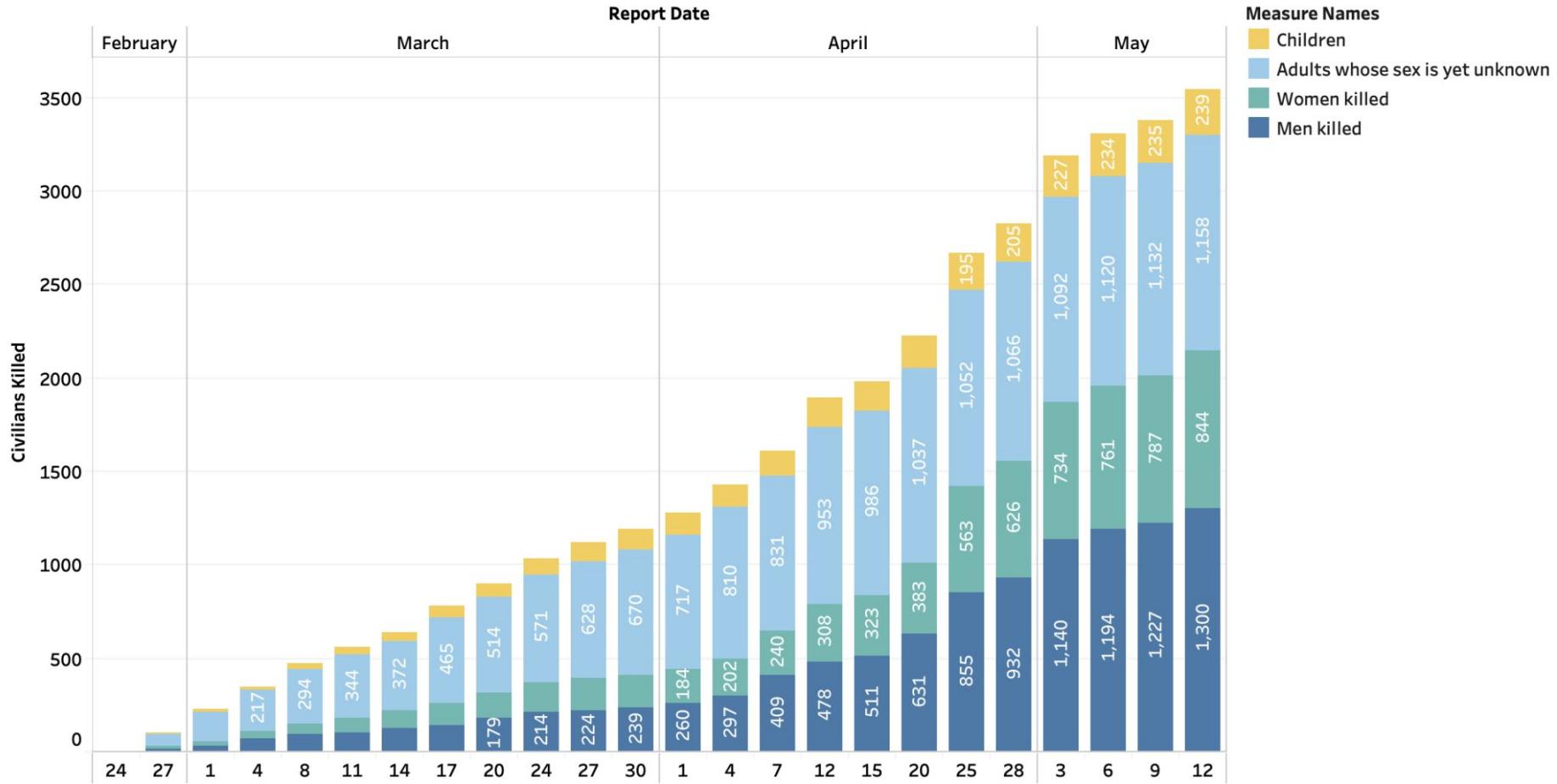
- a total of 3,541 killed (1,300 men, 844 women, 77 girls, and 93 boys, as well as 69 children and 1,158 adults whose sex is yet unknown)
- a total of 3,785 injured (590 men, 428 women, 90 girls, and 98 boys, as well as 167 children and 2,412 adults whose sex is yet unknown)
 - In Donetsk and Luhansk regions: 3,846 casualties (1,897 killed and 1,949 injured)
 - On Government-controlled territory: 3,254 casualties (1,781 killed and 1,473 injured)

Final Dataset with Data about Civilian Casualties from Feb 27, 2022 to May 12, 2022

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Source
1	Report Date	Men Killed	Women Killed	Other A	Boys Killed	Girls Killed	Other C	Total Killed	Men Injured	Women Injured	Other Adults	Boys Inj.	Girls Inj.	Other Cl	Total Injured	Total C	Source
3	Feb-27-2022	15	14	66	3	2	2	102	26	18	239	2	5	14	304	406	https://ukraine.un.org/en/173579-ukraine
4	Feb-28-2022	22	19	88	4	3	6	142	36	25	321	2	6	18	408	550	https://ukraine.un.org/en/173612-ukraine
5	Mar-1-2022	31	25	156	6	3	6	227	42	33	422	2	7	19	525	752	https://ukraine.un.org/en/173719-civilian-
6	Mar-2-2022	31	27	174	6	3	8	249	45	33	445	2	7	21	553	802	https://ukraine.un.org/en/173826-ukraine
7	Mar-3-2022	71	40	201	7	3	9	331	51	40	553	2	9	20	675	1006	https://ukraine.un.org/en/173923-ukraine
8	Mar-4-2022	71	41	217	8	4	10	351	58	40	573	2	11	23	707	1058	https://ukraine.un.org/en/173987-ukraine
9	Mar-5-2022	74	42	223	8	4	13	364	67	48	603	2	11	28	759	1123	https://ukraine.un.org/en/174001-ukraine
10	Mar-7-2022	77	45	257	8	4	15	406	72	51	636	2	11	29	801	1207	https://www.ohchr.org/en/news/2022/03/
11	Mar-8-2022	97	54	294	8	4	17	474	76	55	686	3	11	30	861	1335	https://www.ohchr.org/en/news/2022/03/
12	Mar-9-2022	98	60	321	9	5	23	516	78	57	723	4	12	34	908	1424	https://www.ohchr.org/en/news/2022/03/
13	Mar-10-2022	101	67	340	9	6	26	549	81	64	760	4	14	34	957	1506	https://www.ohchr.org/en/news/2022/03/
14	Mar-11-2022	106	73	344	9	6	26	564	83	67	780	4	14	34	982	1546	https://www.ohchr.org/en/news/2022/03/
15	Mar-12-2022	110	75	352	9	6	27	579	85	68	795	4	14	36	1002	1581	https://www.ohchr.org/en/news/2022/03/
16	Mar-13-2022	124	85	344	10	6	27	596	97	69	844	4	14	39	1067	1663	https://www.ohchr.org/en/news/2022/03/
17	Mar-14-2022	127	91	372	10	6	30	636	101	71	891	4	15	43	1125	1761	https://www.ohchr.org/en/news/2022/03/
18	Mar-15-2022	135	99	409	11	7	30	691	105	73	903	4	15	43	1143	1834	https://www.ohchr.org/en/news/2022/03/
19	Mar-16-2022	141	104	429	13	7	32	726	107	77	927	4	15	44	1174	1900	https://www.ohchr.org/en/news/2022/03/
20	Mar-17-2022	146	111	465	15	7	36	780	130	100	954	7	17	44	1252	2032	https://www.ohchr.org/en/news/2022/03/
21	Mar-18-2022	152	116	489	16	7	36	816	133	104	1022	7	17	50	1333	2149	https://www.ohchr.org/en/news/2022/03/
22	Mar-19-2022	155	119	509	21	7	36	847	142	107	1072	9	18	51	1399	2246	https://www.ohchr.org/en/news/2022/03/
23	Mar-20-2022	179	134	514	25	11	39	902	156	117	1088	16	22	60	1459	2361	https://www.ohchr.org/en/news/2022/03/
24	Mar-21-2022	183	137	530	25	11	39	925	163	124	1110	17	22	60	1496	2421	https://www.ohchr.org/en/news/2022/03/
25	Mar-22-2022	192	142	541	26	12	40	953	171	132	1149	19	23	63	1557	2510	https://www.ohchr.org/en/news/2022/03/
26	Mar-23-2022	196	144	556	27	12	42	977	174	136	1176	20	24	64	1594	2571	https://www.ohchr.org/en/news/2022/03/
27	Mar-24-2022	214	160	571	28	14	48	1035	181	140	1211	23	28	67	1650	2685	https://www.ohchr.org/en/news/2022/03/
28	Mar-25-2022	219	165	604	30	15	48	1081	189	146	1252	23	28	69	1707	2788	https://www.ohchr.org/en/news/2022/03/

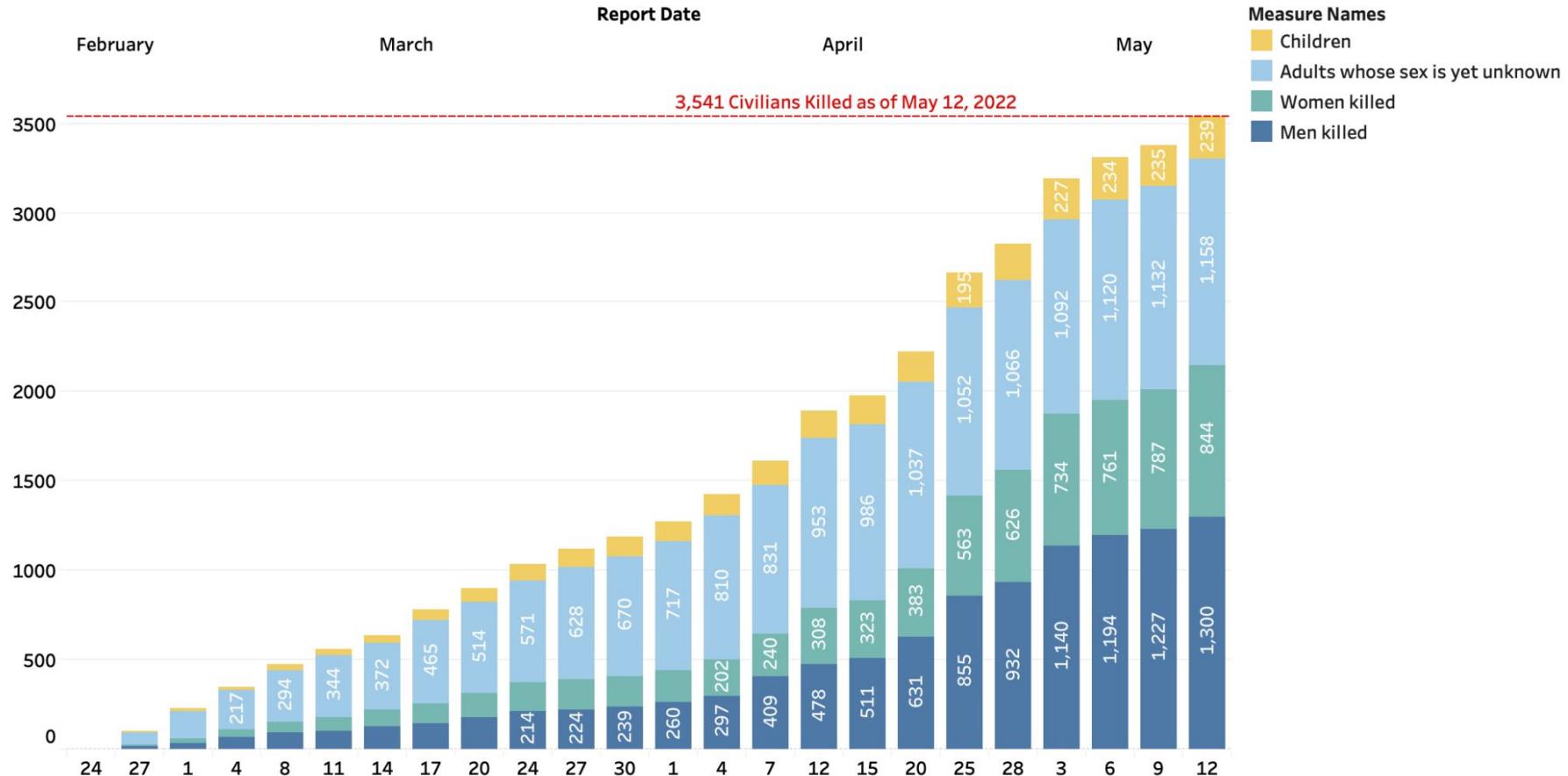
Civilians Killed in Ukraine

Based on the Reports Provided by
the UN Office of the High Commissioner for Human Rights



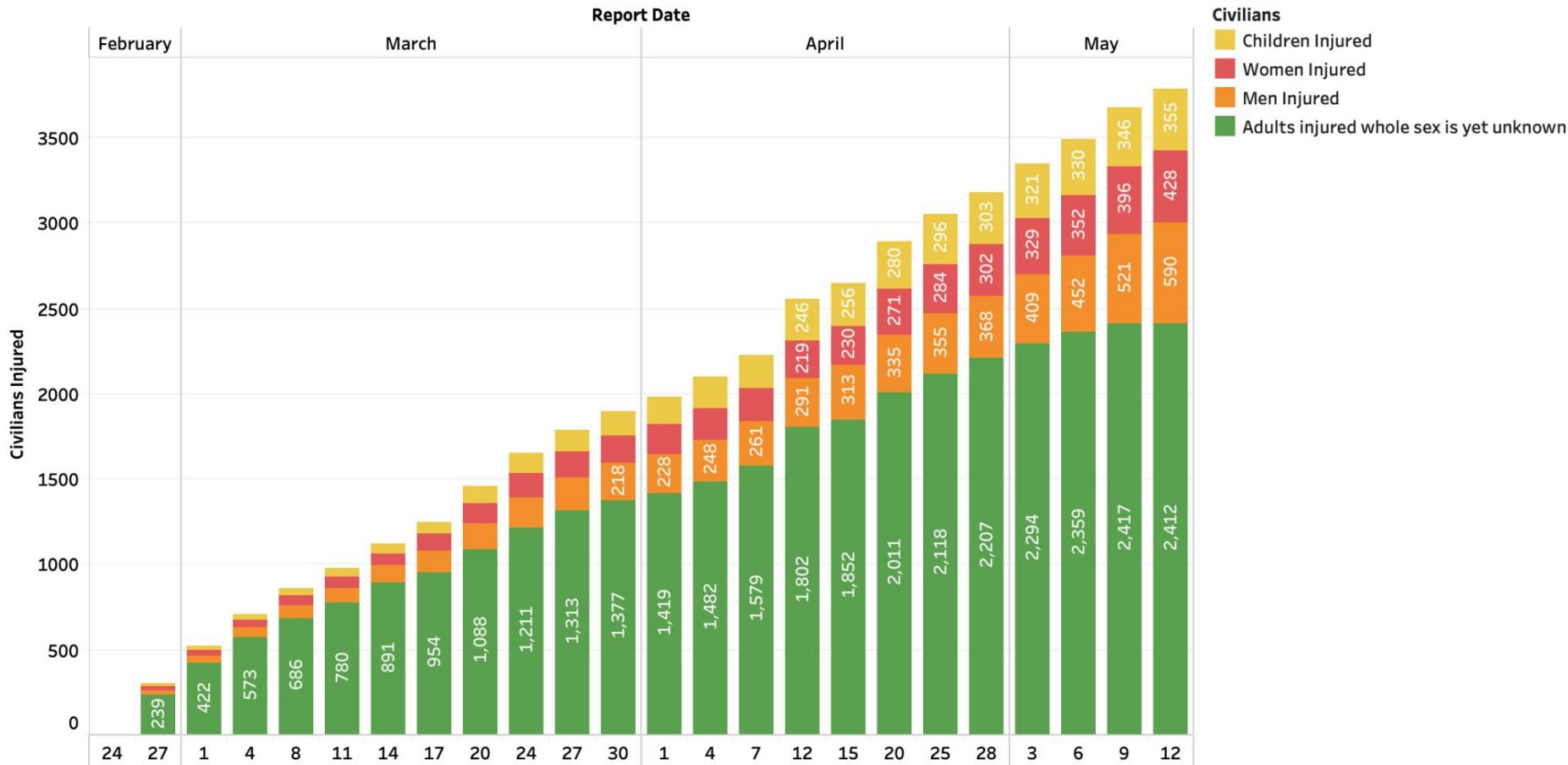
Civilians Killed in Ukraine

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the UN Office of the High Commissioner for Human Rights



Civilians Injured in Ukraine

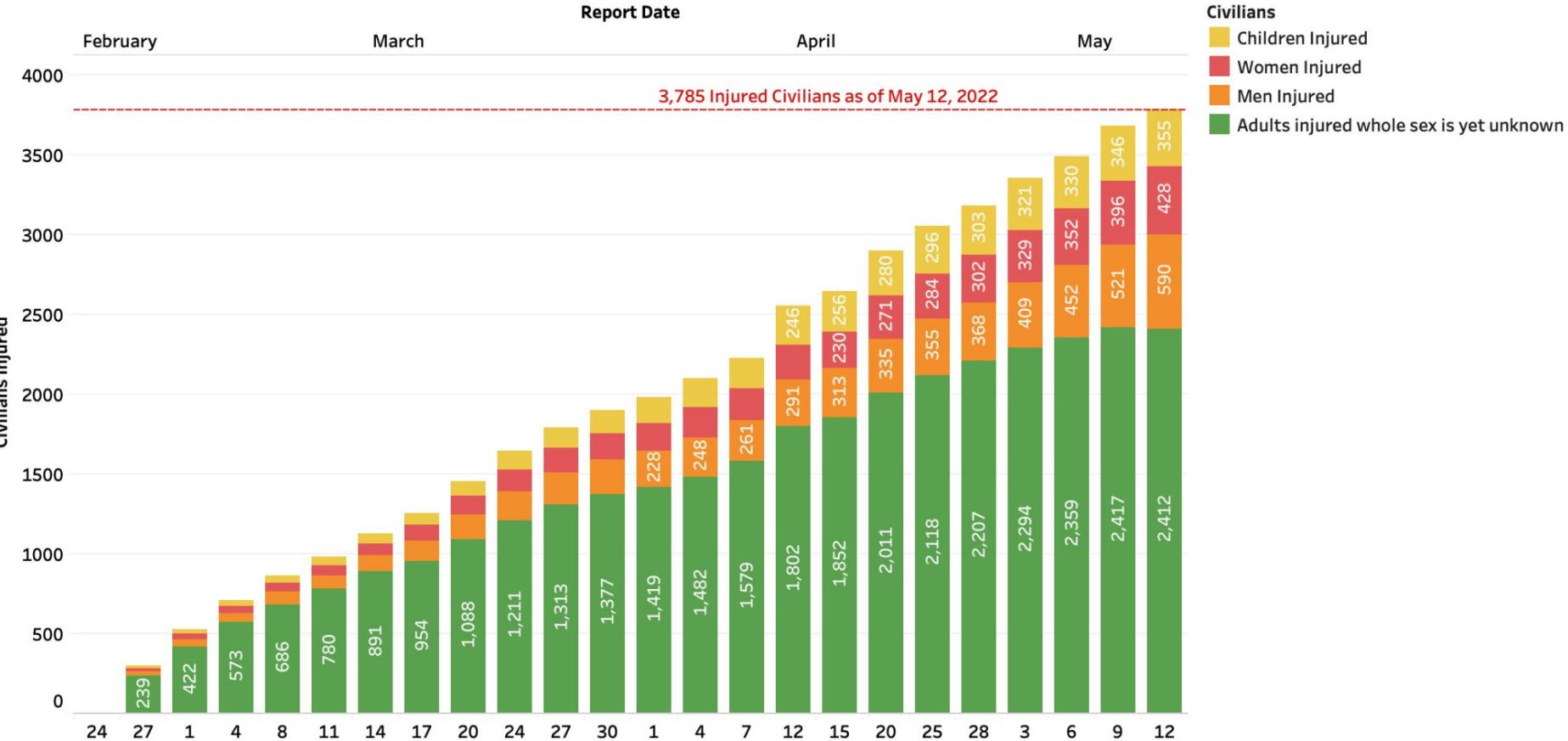
Based on the Reports Provided by
the UN Office of the High Commissioner for Human Rights



Civilians Injured in Ukraine

Based on the Reports Provided by
the UN Office of the High Commissioner for Human Rights

Report Date





A tank with the letters "Z" painted on it is seen in front of a residential building which was damaged during Ukraine-Russia conflict in the separatist-controlled town of Volnovakha in the Donetsk region, Ukraine March 11, 2022. REUTERS/Alexander Ermochenko
Source: <https://www.reuters.com/world/europe/eastern-ukrainian-town-volnovakha-destroyed-after-russia-invasion-local-governor-2022-03-12/>

UN Office of the High Commissioner believes that actual figures of civilians killed and injured in some locations are considerably higher

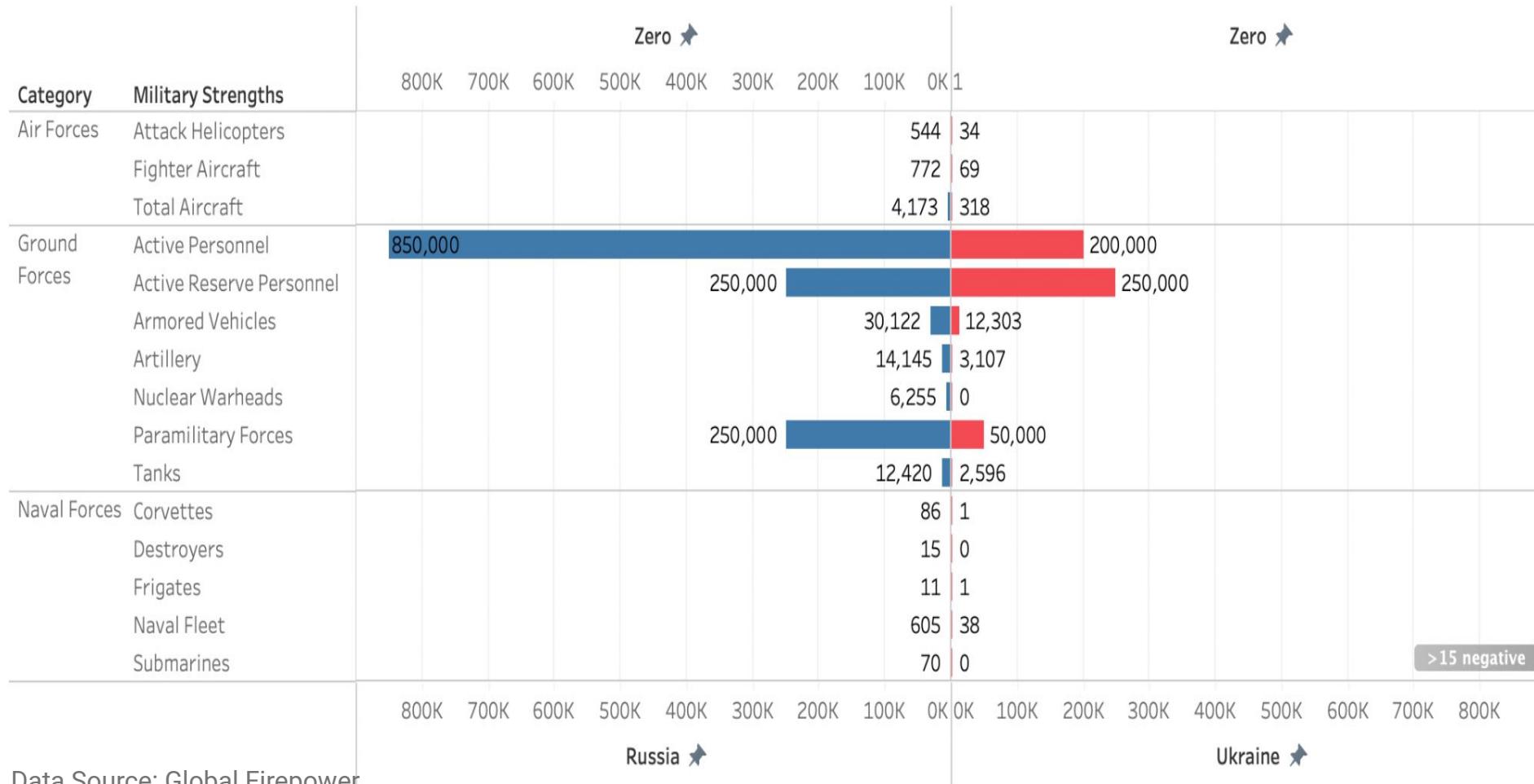
This concerns, for example, **Mariupol** (Donetsk region), **Izium** (Kharkiv region), **Popasna** (Luhansk region), and **Borodianka** (Kyiv region)

Comparison of Military Powers



Source: <https://www.nbcnews.com/news/world/war-ukraine-color-victory-day-russia-year-rcna23650>

Comparison of Ukraine and Russia Military Strengths (2022)



Comparison of Equipment Losses

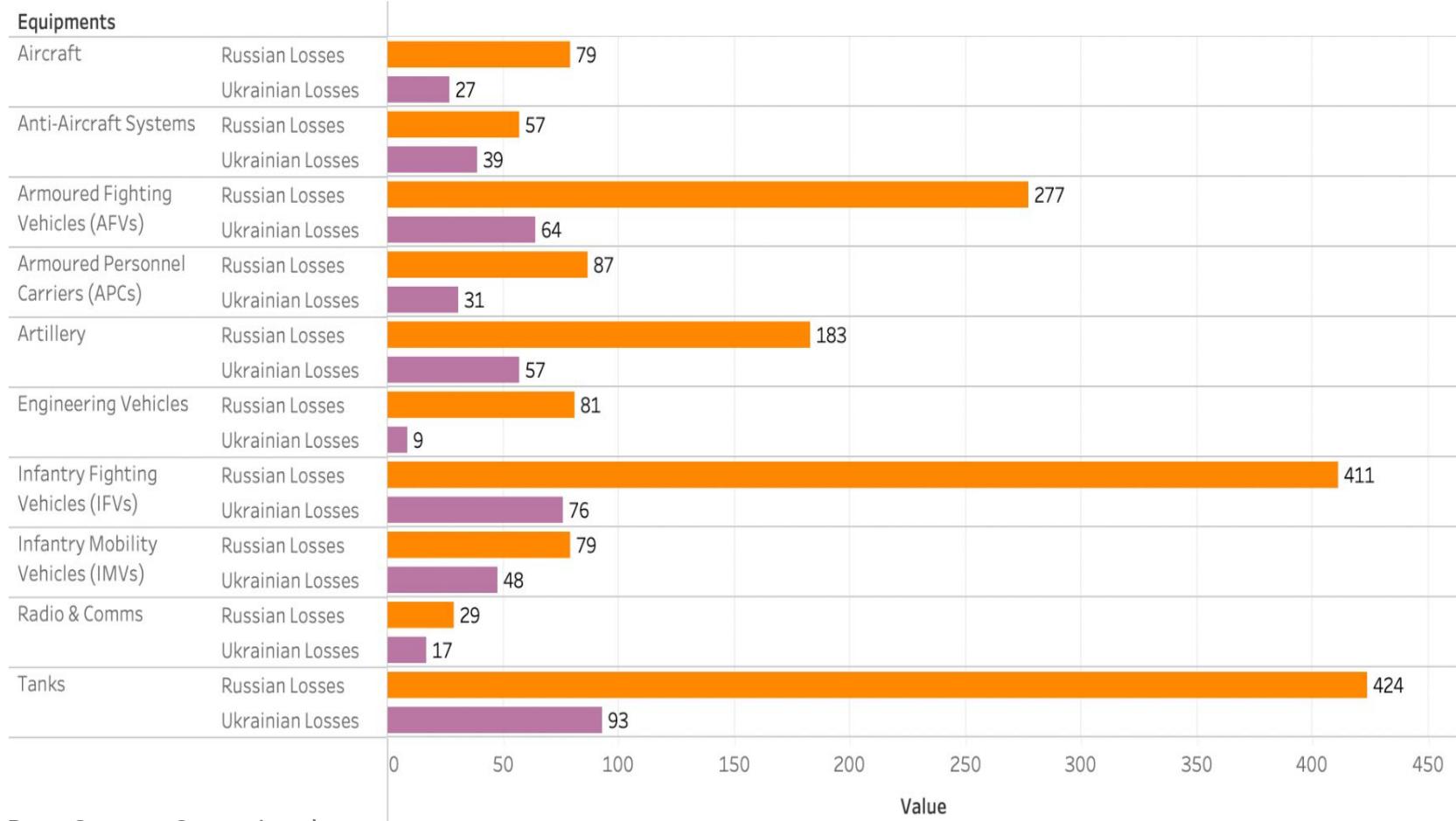


Equipment Losses in Russia-Ukraine War as of April 4 2022

Measure Names

Russian Losses

Ukrainian Losses



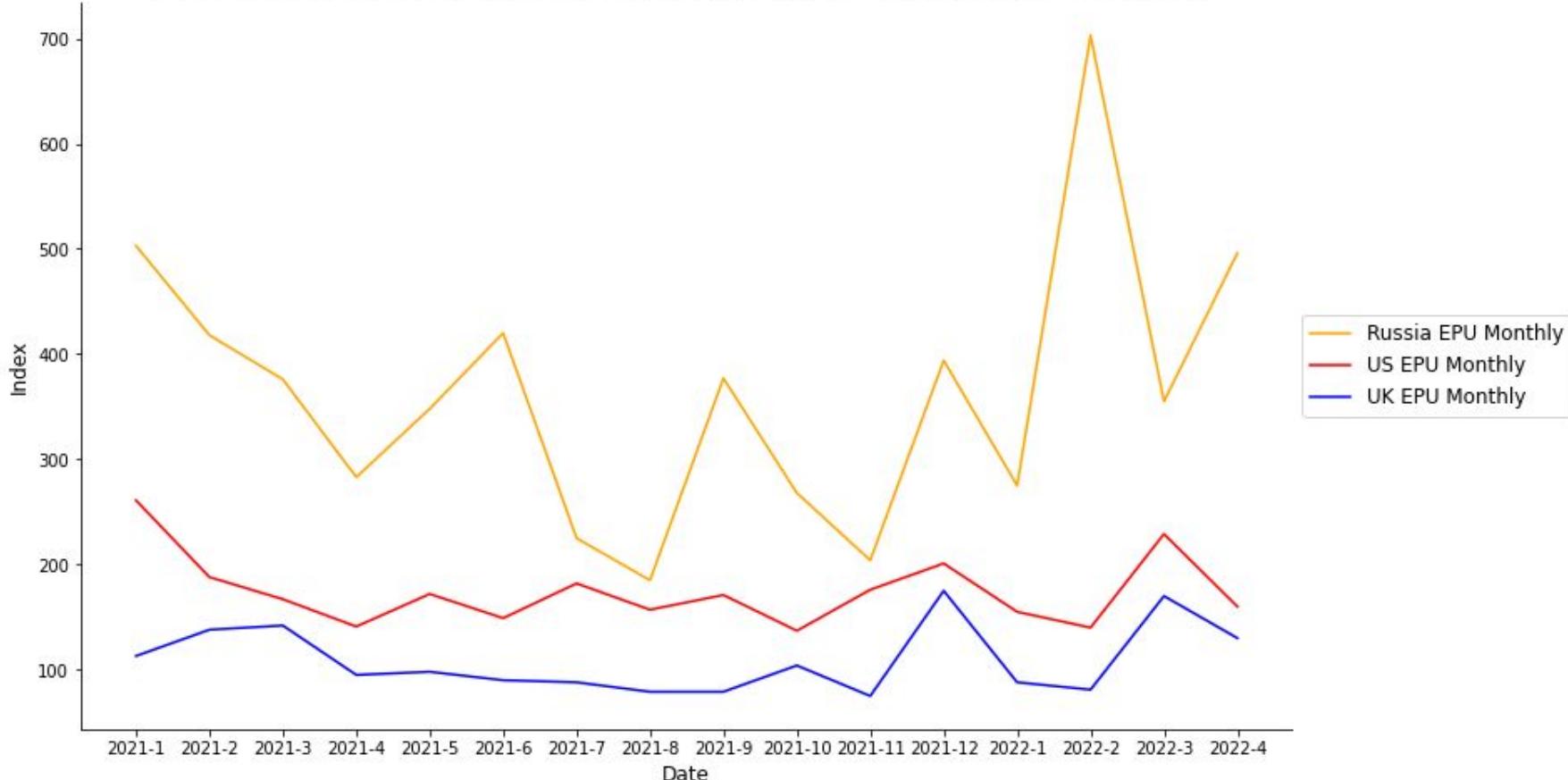
Data Source: Oryxspioenkop



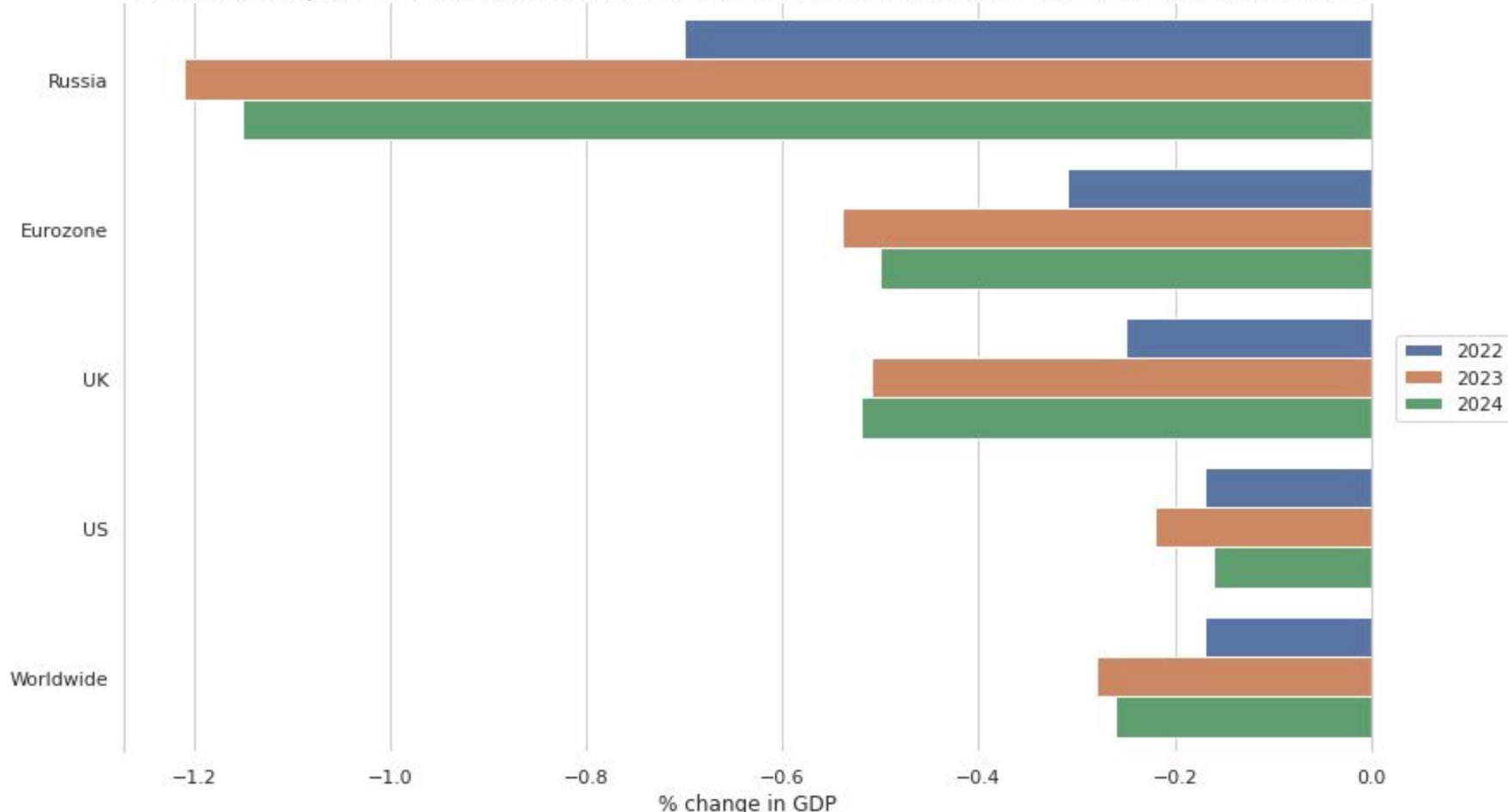
Financial and Economic Impact

Aggregate Uncertainty Measures

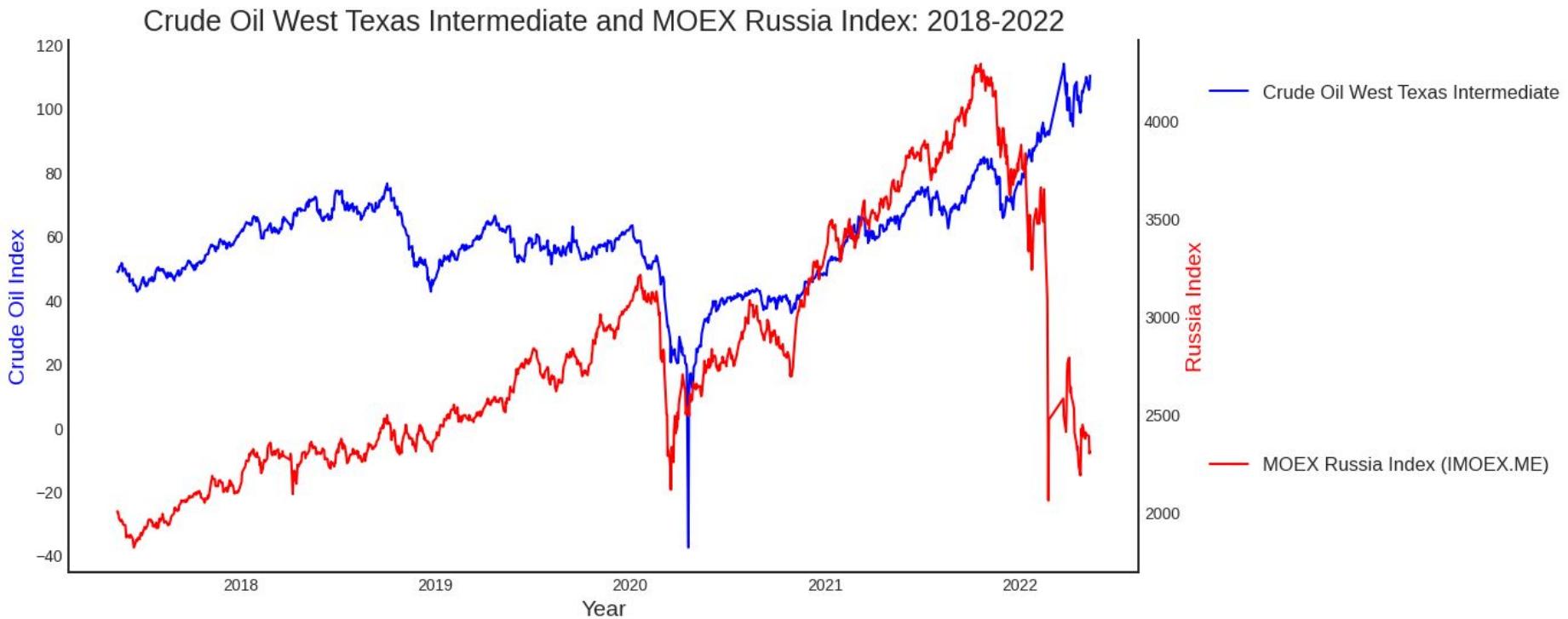
US, UK, and Russia Monthly Economic Policy Uncertainty Indices from 2020 to Present



Estimated Impact of the Russian Ukrainian War on Global Economic Growth from 2022 to 2024



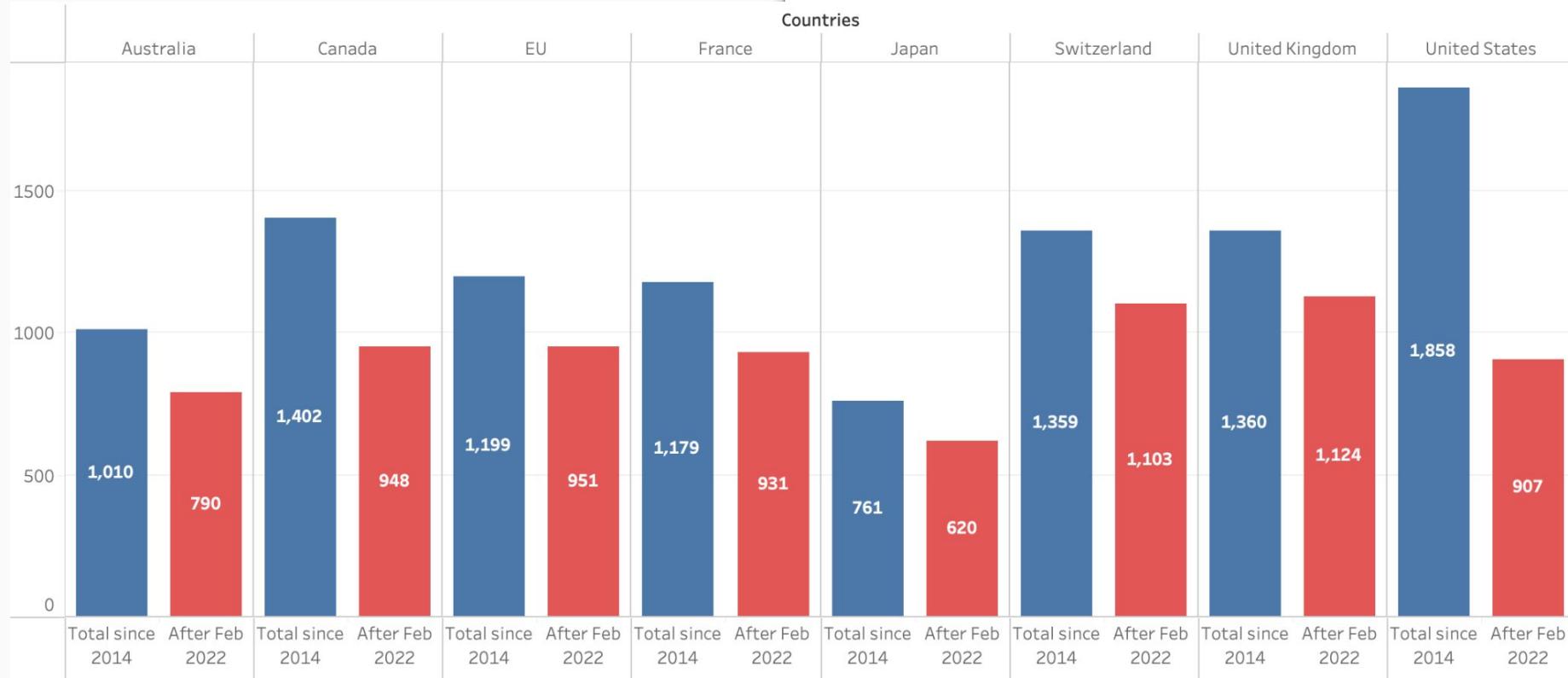
Russian Equities are Slumping while Oil Prices Soars





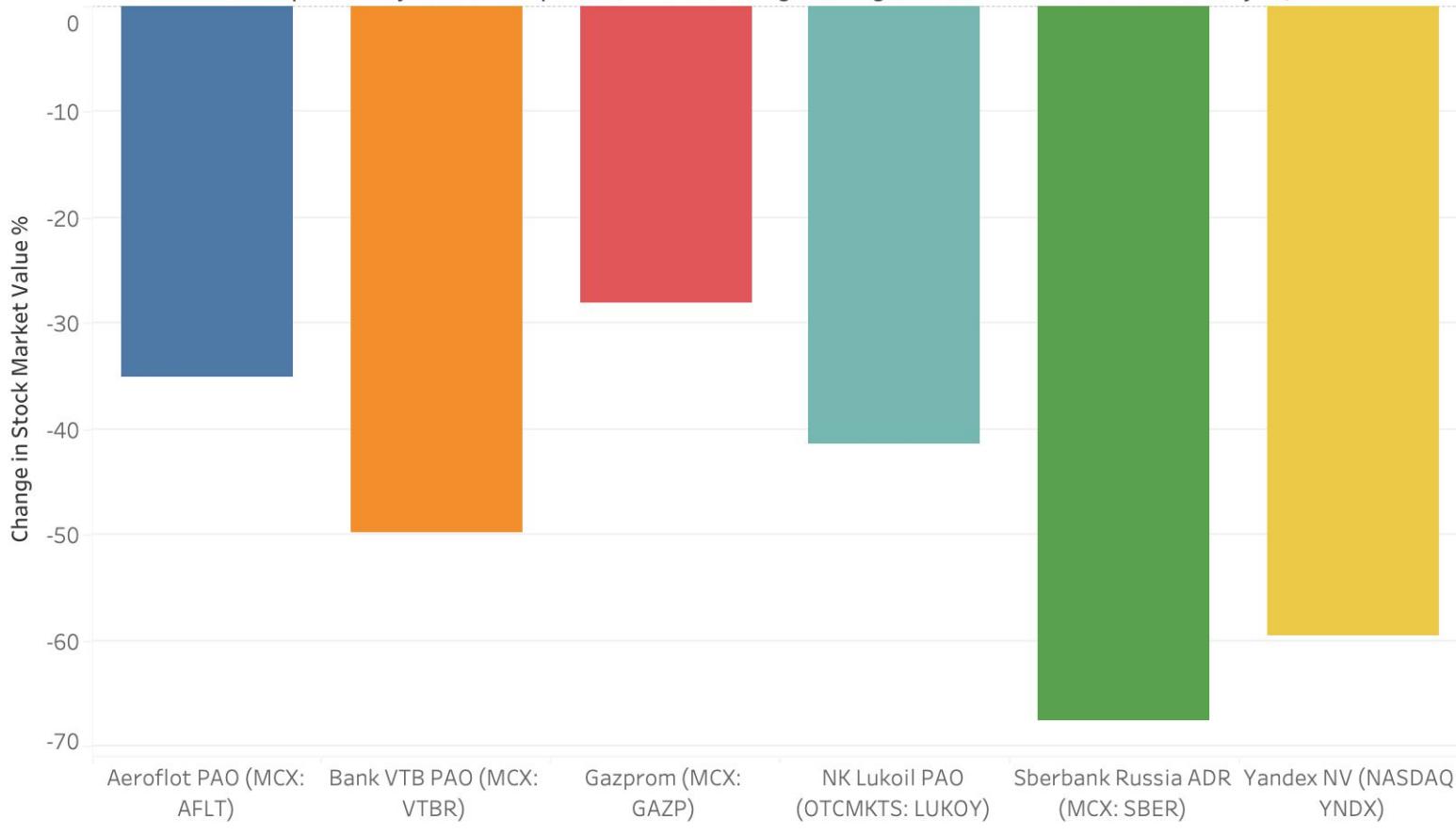
Sanctions on Russia

Total Sanctions

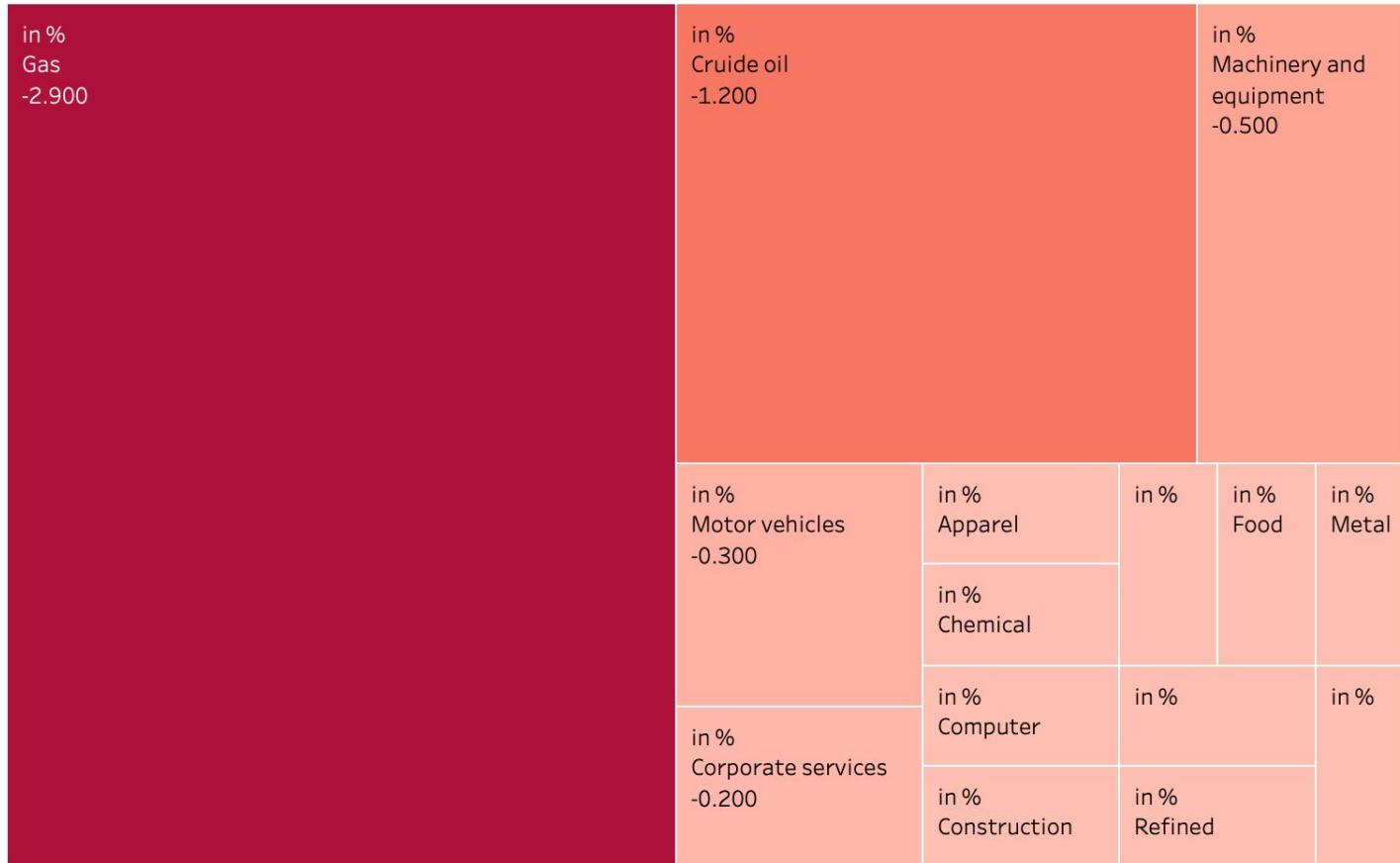


Sanctions Impact on Key Russian Companies

Market price of key Russian companies on world exchanges during the Russia-Ukraine war on February 28, 2022

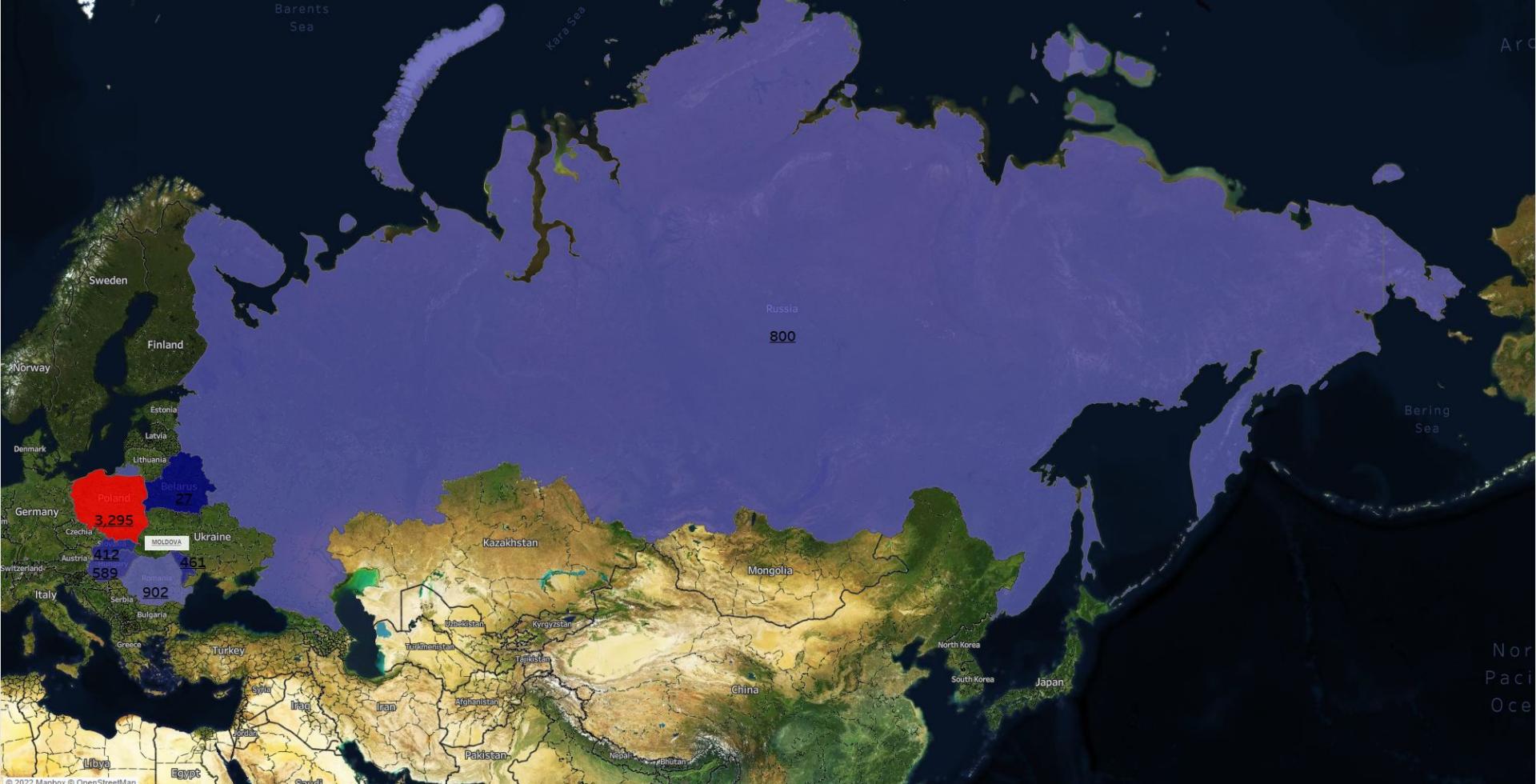


Effect on Russian Economic Sectors



The Movement Of Ukrainian Refugees Within Europe





Map based on Longitude (generated) and Latitude (generated). Color shows sum of Ukrainian Refugees Accepted. Details are shown for Country.

Ukrainian Refugees Acc.



27

3,295

Dataset

Number of refugees from war-stricken Ukraine in CEE 2022, by country

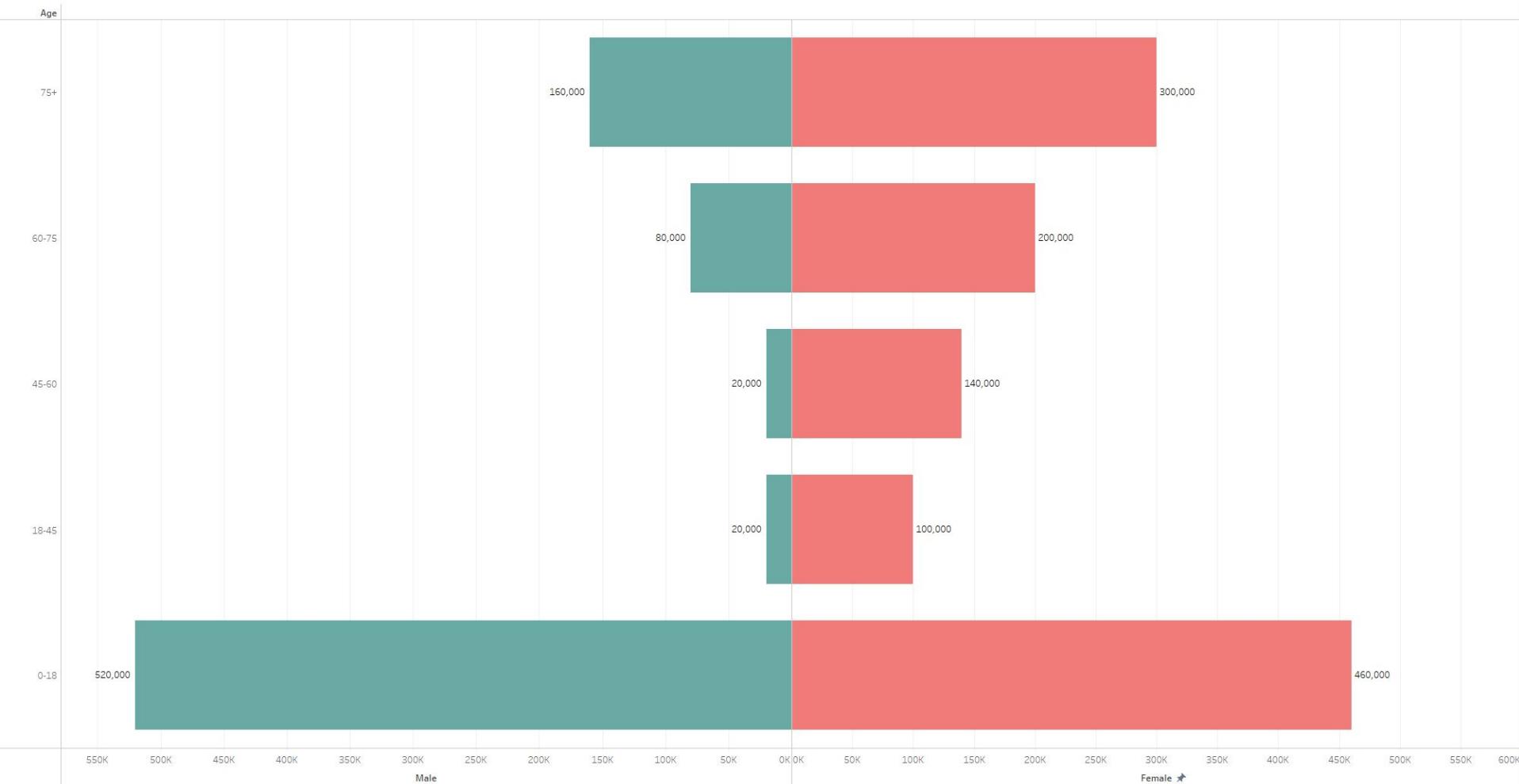
Number of refugees from Ukraine crossing Central and Eastern European borders after Russia's invasion of Ukraine from February 24 to May 12, 2022, by selected country (in 1,000s)

Poland	3,294.72
Romania	901.70
Russia	800.10
Hungary	588.74
Moldova	460.78
Slovakia	412.35
Belarus	27.31

Data was found via UNHCR with Statista database

Gender and Age Groups Of Ukrainian Refugees Within Europe





Sum of Male and sum of Female for each Age. The view is filtered on Age, which keeps 0-18, 18-45, 45-60, 60-75 and 75+.

Dataset

Gender and Age Data on Ukraine Refugees Since 05/02/2022

Age	Male	Female						
0-18	520000	460000						
18-45	20000	100000						
45-60	20000	140000						
60-75	80000	200000						
75+	160000	300000						

Data was found via Direct Relief with Statista database

DATABASE SOURCES

Gender and Age Groups Of Ukrainian Refugees Within Europe:

- <https://www-statista-com.remote.baruch.cuny.edu/statistics/1293403/cee-ukrainian-refugees-by-country/>
- <https://data2.unhcr.org/en/situations/ukraine>

The Movement Of Ukrainian Refugees Within Europe:

- <https://moldova.unwomen.org/sites/default/files/2022-03/Gender%20Data%20on%20Refugees%20at%20a%20Glance.pdf>
- <https://reliefweb.int/report/ukraine/gender-health-and-war-ukraine>
- <https://www.directrelief.org/2022/03/gender-health-and-the-war-in-ukraine/>

Civilian Casualties in Ukraine Spreadsheet:

- [\(please see all sources in column Q\)](https://docs.google.com/spreadsheets/d/1pFzU2xFor1sxAVPvKBC500_11yeBN747Qq1CjsNLACY/edit?usp=sharing)

The spreadsheet was created based on the official UN reports from Feb 27, 2022 until May 12, 2022:

- <https://ukraine.un.org/en/173579-ukraine-civilian-casualties-2400-27-february-2022>
- <https://www.ohchr.org/en/news/2022/05/ukraine-civilian-casualty-update-12-may-2022>

Map of the invasion:

- Control of cities during the Russo-Ukrainian War, Wikipedia
https://en.wikipedia.org/wiki/Control_of_cities_during_the_Russo-Ukrainian_War
- Ukraine Cities Database
<https://simplemaps.com/data/ua-cities>

- Photo of a Russian Tank in front of a residential building which was damaged during Ukraine-Russia conflict in the separatist-controlled town of Volnovakha in the Donetsk region, Ukraine March 11, 2022. REUTERS/Alexander Ermochenko:
<https://www.reuters.com/world/europe/eastern-ukrainian-town-volnovakha-destroyed-after-russia-invasion-local-governor-2022-03-12/>

Military Strengths of Ukraine and Russia:

- <https://www.globalfirepower.com/countries-comparison-detail.php?country1=ukraine&country2=russia>

Document of Equipment Losses:

- <https://www.oryxspionkop.com/2022/02/attack-on-europe-documenting-equipment.html>
- <https://www.statista.com/statistics/1294752/sanctions-imposed-on-russia-by-actor/>
- <https://www.statista.com/statistics/1293466/russia-market-price-of-key-companies-on-stock-exchange/>
- <https://www.castellum.ai/russia-sanctions-dashboard>
- <https://www.statista.com/statistics/1293413/sanctions-estimated-impact-on-gdp-by-sector-russia/>

Hope You Enjoyed
Our Presentation!

An aerial night photograph of Odessa, Ukraine. The central focus is the Odessa National Academic Opera and Ballet Theater, a large, ornate building with a prominent dome and a statue on top. To its left is a yellow, multi-story building. In the background, the city extends towards a large port area with numerous industrial buildings, cranes, and lights reflecting on the water. The streets below are illuminated by streetlights and car headlights.

Q & A