GRAFIKA UŻYTKOWA

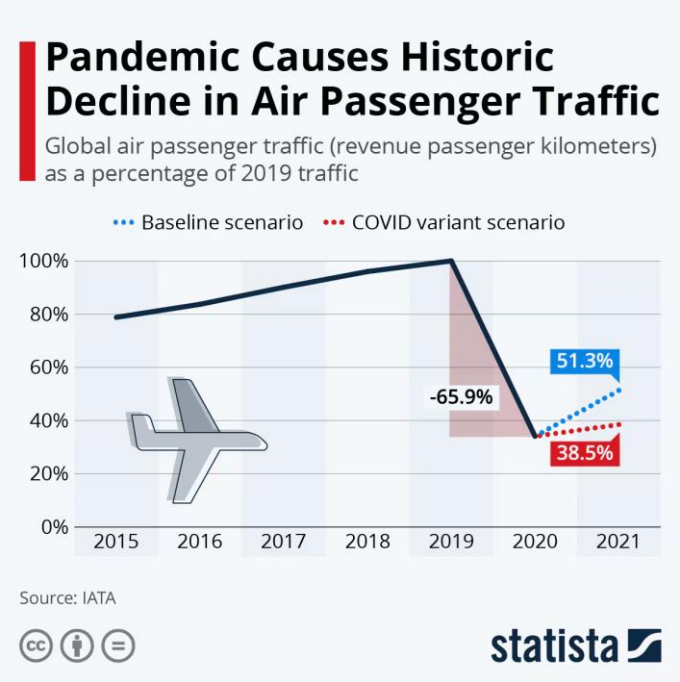
Projekt: WIZUALIZACJA DANYCH - cz. 2

Prowadzący: dr inż. Łukasz Dzierżanowski

Grupa:
Paweł Cedzich
Paweł Siemiginowski

ZAWĘŻONA TEMATYKA WIZUALIZACJI

Wpływ największych zdarzeń globalnych na lotnictwo (lata 2016-2024).



Airways Special Report: Handling the Threats

May 16 · Written By Joshua Kupietzky

Originally published on Airways

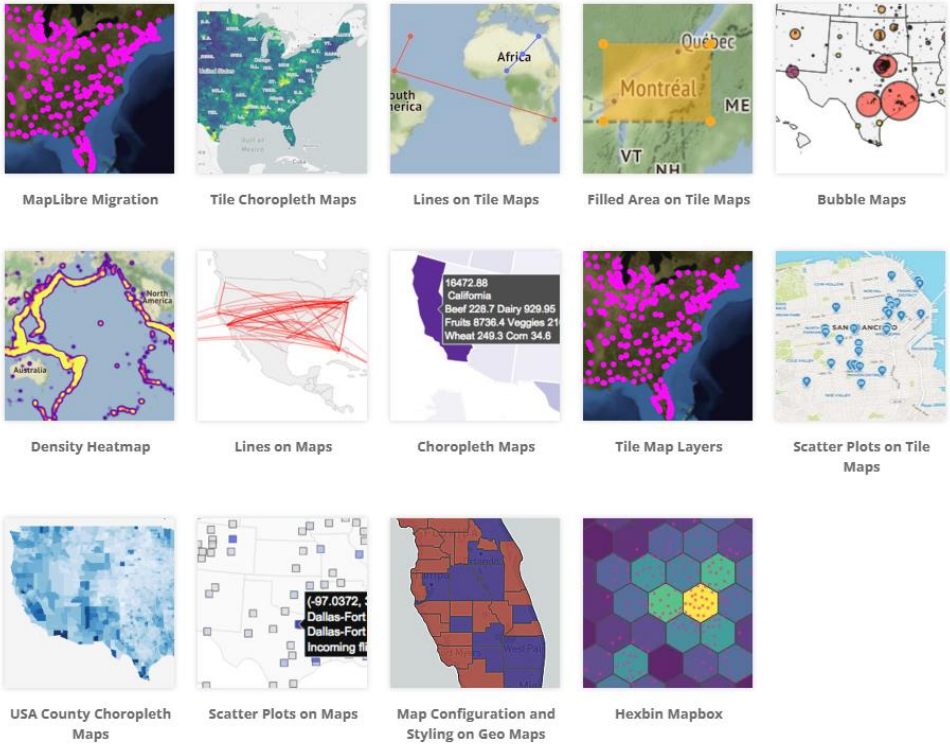
In the wake of Hamas' October 7 surprise attack upon southern Israel, almost all international airlines serving Israel immediately suspended service as a precautionary measure, knowing that an inevitable Israeli ground invasion loomed ahead. In the ensuing war, rockets and drones have been filling the skies, not only putting civilian lives in jeopardy but also posing severe threats to the safety of civil aviation.

Regardless, Israeli flag carrier El Al (LY) and Israeli leisure carriers Arkia (IZ) and Israir (6H) continued to put planes in the air, even as most airlines from North American and Europe suspended flights to Tel Aviv, in effect giving the Israeli airlines a monopoly.

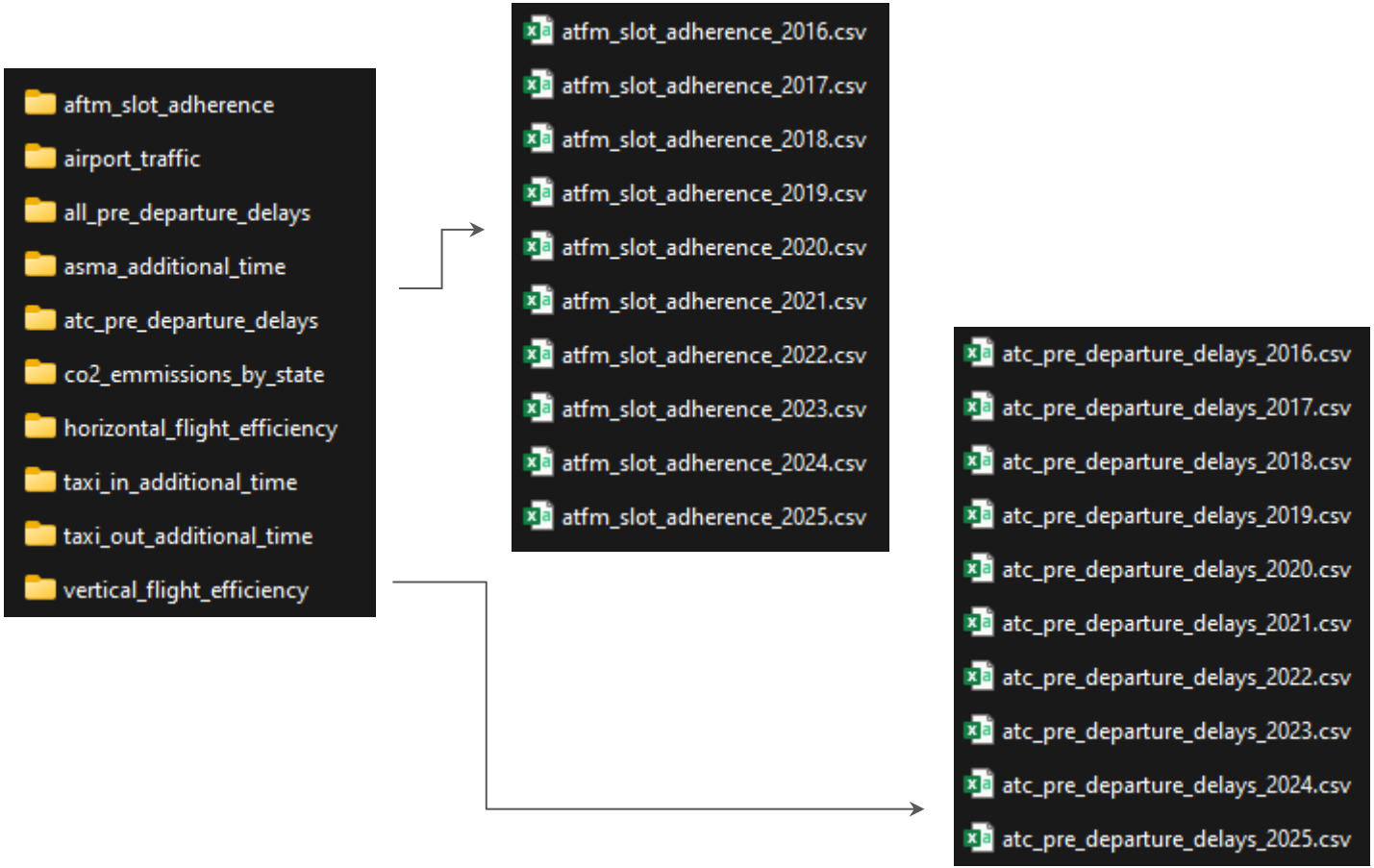
TECHNOLOGIE

pandas

plotly



POZYSKANIE DATASETU

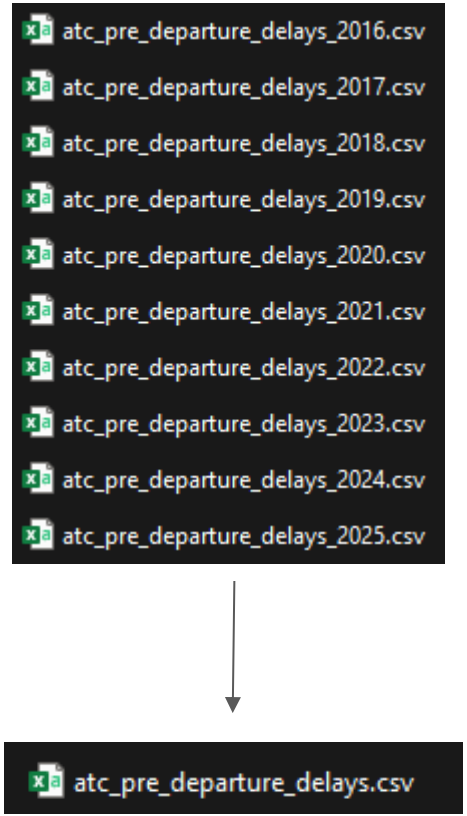


PREPROCESSING DATASETU

```python
import os
import pandas as pd

base_dir = os.getcwd()

for folder in os.listdir(base_dir):
    folder_path = os.path.join(base_dir, folder)
    if os.path.isdir(folder_path):
        csv_files = [f for f in os.listdir(folder_path) if f.endswith('.csv')]
        if not csv_files:
            continue
        dfs = []
        for csv_file in csv_files:
            file_path = os.path.join(folder_path, csv_file)
            try:
                df = pd.read_csv(file_path, header=None, dtype=str, engine='python')
                dfs.append(df)
            except Exception as e:
                print(f"Błąd wczytywania {file_path}: {e}")
        if dfs:
            concat_df = pd.concat(dfs, ignore_index=True)
            output_path = os.path.join(folder_path, f"{folder}.csv")
            concat_df.to_csv(output_path, index=False, header=False)
            print(f"Scalono {len(dfs)} plików do {output_path}")
```



WCZYTYWANIE DANYCH

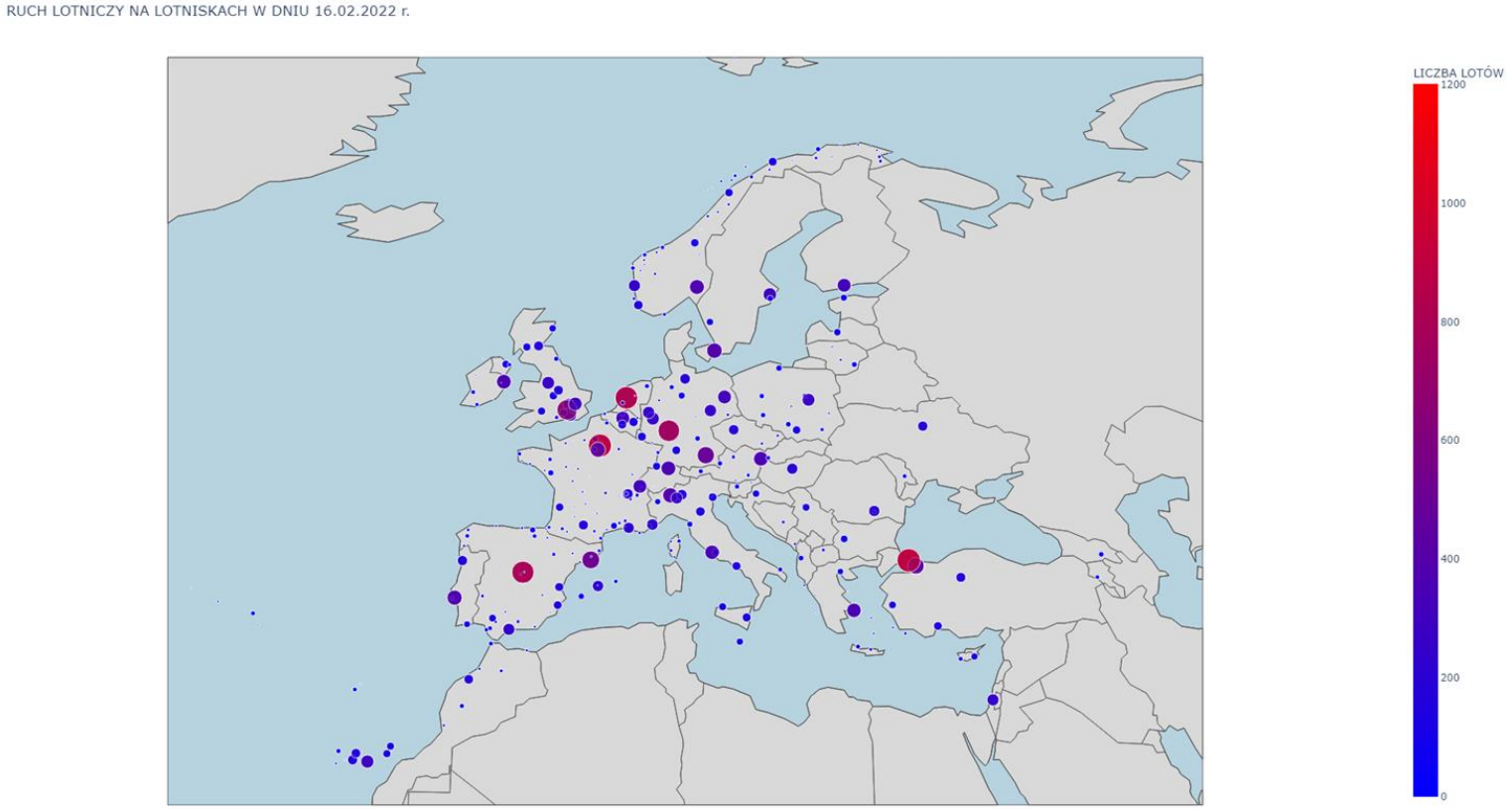
```python
def load_csv(folder_name):
    folder_path = os.path.join(base_dir, folder_name)
    file_name = f"{folder_name}.csv"
    file_path = os.path.join(folder_path, file_name)
    if os.path.exists(file_path):
        try:
            return pd.read_csv(file_path, low_memory=False)
        except Exception as e:
            print(f"Błąd podczas wczytywania pliku {file_name}: {e}")
            return None
    else:
        print(f"Plik {file_name} nie istnieje w folderze {folder_name}")
        return None

airport_traffic_df = load_csv('airport_traffic')
```

```python
merged_df = pd.merge(
    airport_traffic_df,
    airports_location_df,
    left_on='APT_ICAO',
    right_on='ident',
    how='inner'
)
```

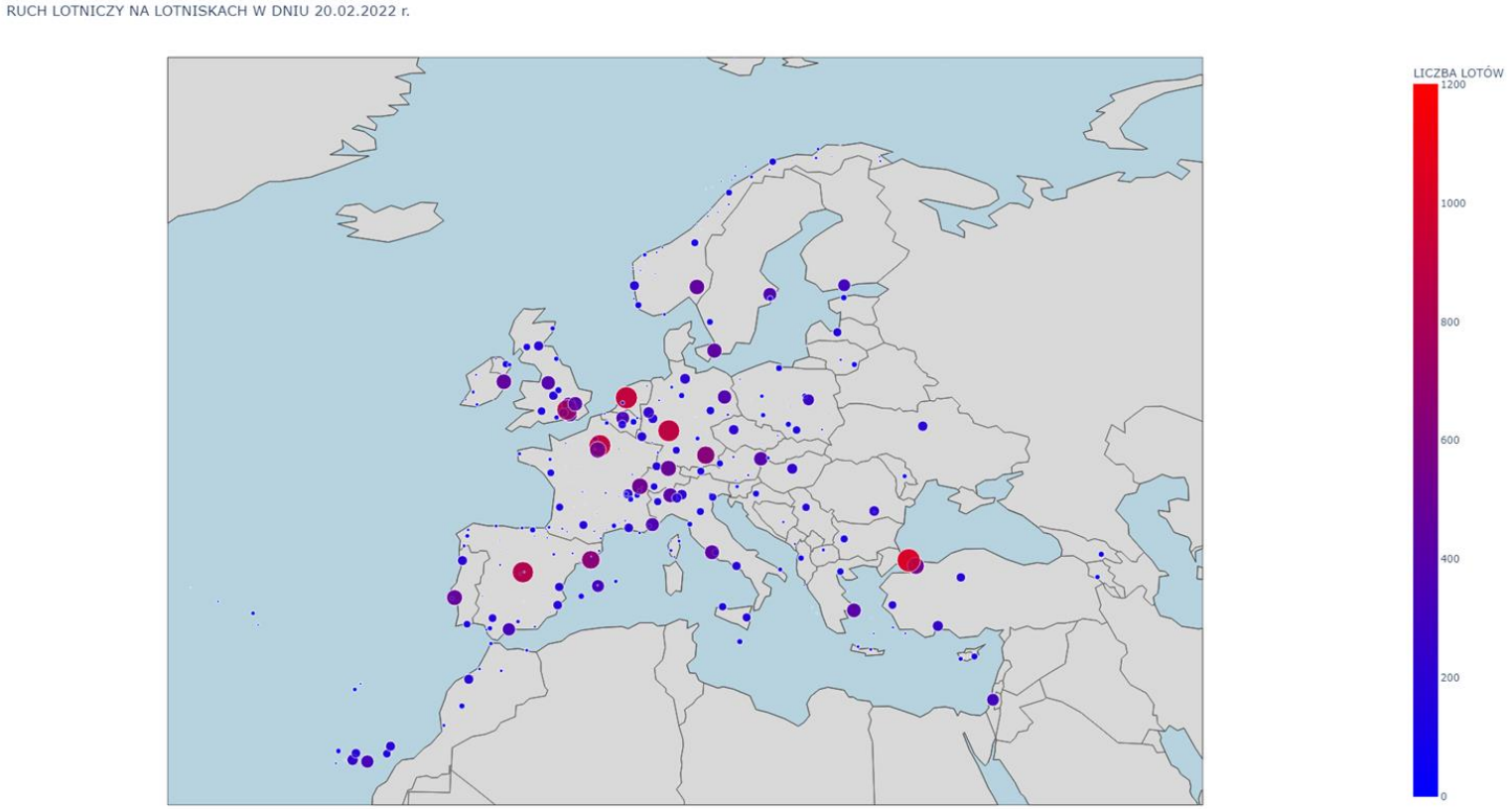
	YEAR	MONTH_NUM	MONTH_MON	FLT_DATE	APT_ICAO	APT_NAME	STATE_NAME	FLT_DEP_1	FLT_ARR_1	FLT_TOT_1
3064299	2025	04	APR	2025-04-30	EGNX	East Midlands	United Kingdom	77	84	161
3064300	2025	04	APR	2025-04-30	EGPD	Aberdeen	United Kingdom	61	61	122
3064301	2025	04	APR	2025-04-30	EGPF	Glasgow	United Kingdom	101	102	203
3064302	2025	04	APR	2025-04-30	EGPH	Edinburgh	United Kingdom	179	176	355
3064303	2025	04	APR	2025-04-30	EGSS	London - Stansted	United Kingdom	272	273	545

WIZUALIZACJA - PRZYKŁAD UKRAINY



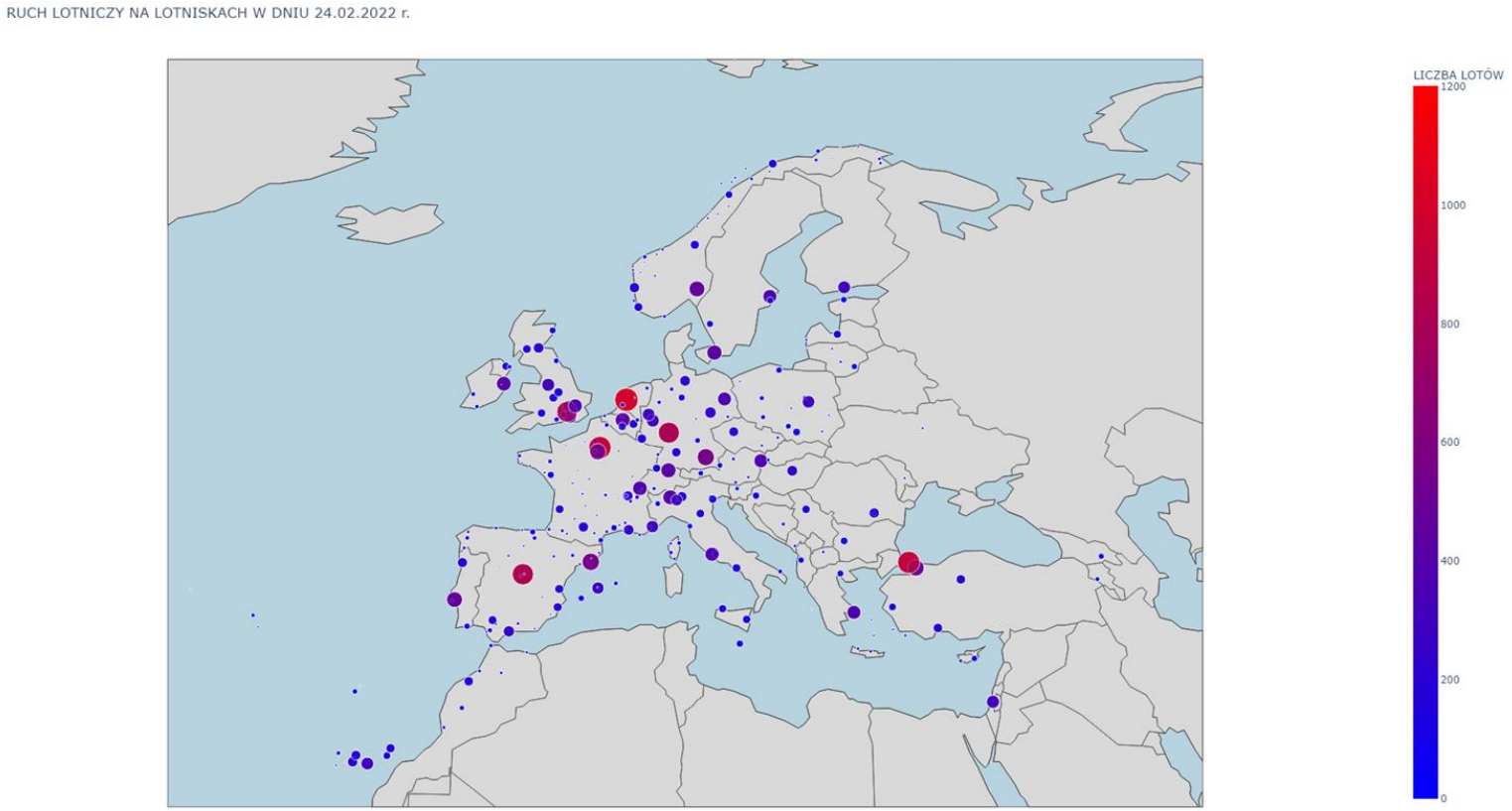
2022-02-16.html

WIZUALIZACJA - PRZYKŁAD UKRAINY



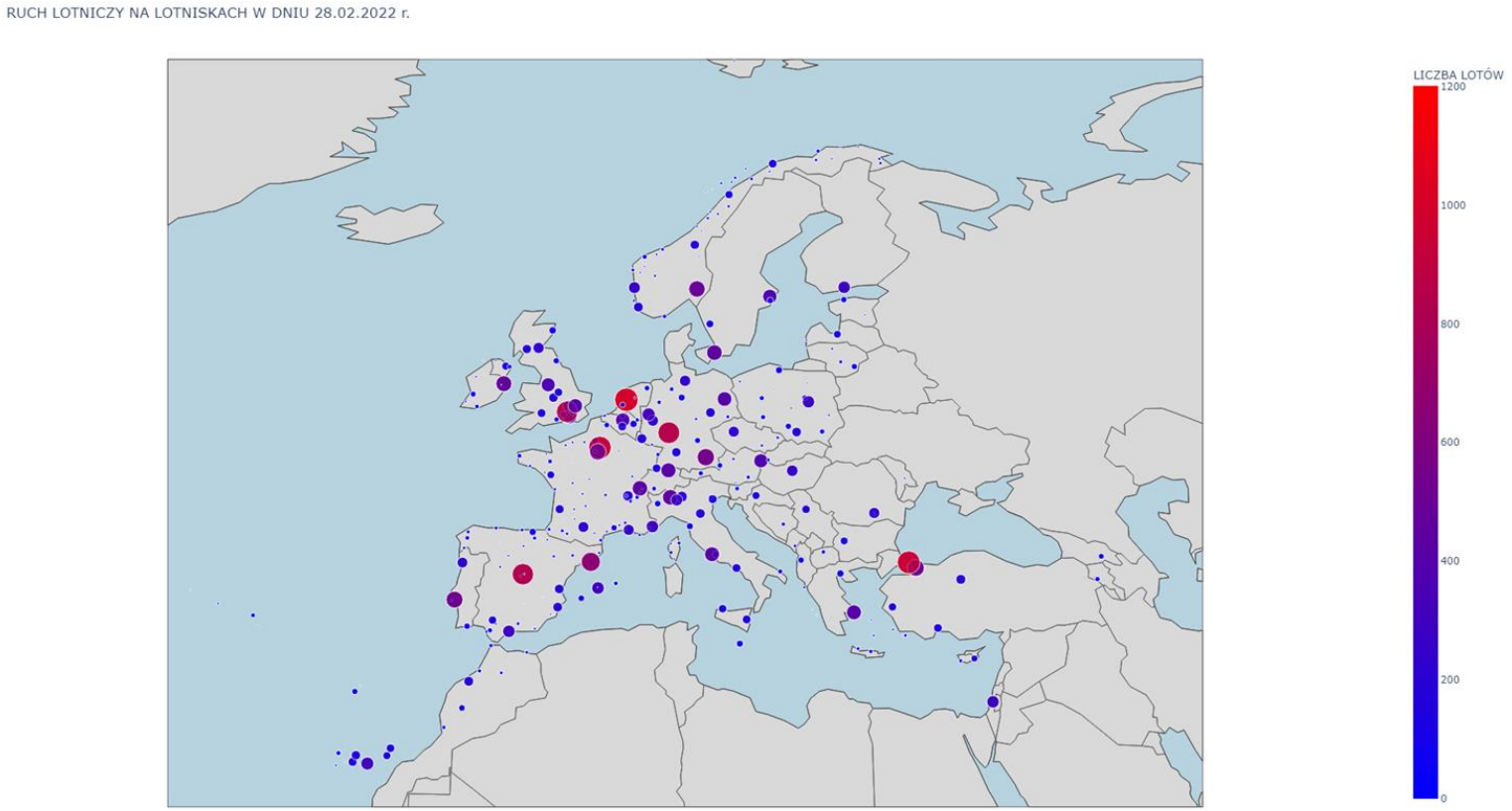
2022-02-20.html

WIZUALIZACJA - PRZYKŁAD UKRAINY



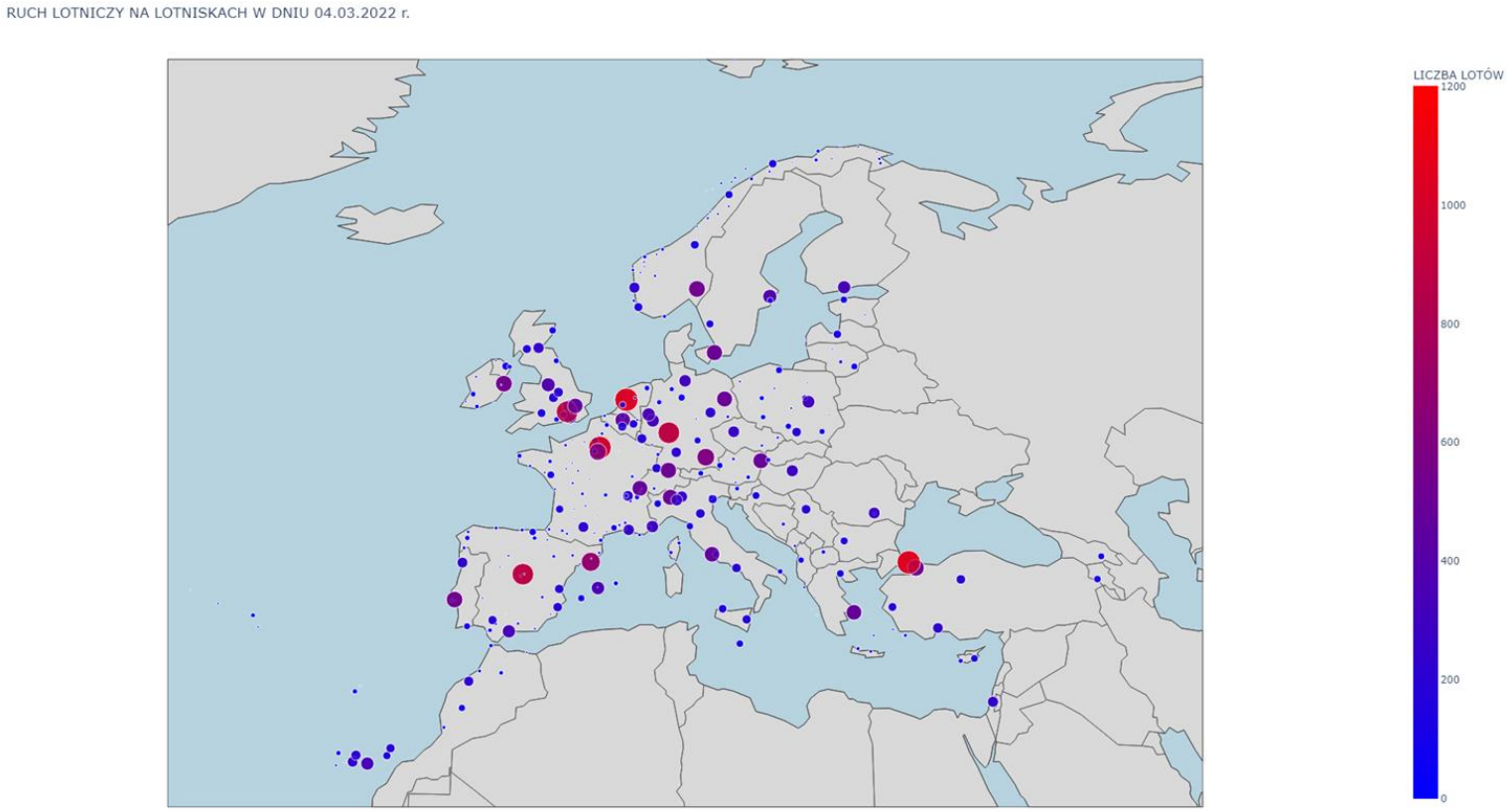
2022-02-24.html

WIZUALIZACJA - PRZYKŁAD UKRAINY



2022-02-28.html

WIZUALIZACJA - PRZYKŁAD UKRAINY



2022-03-04.html