UO System



Microservices

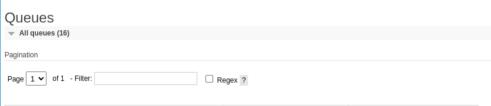
13 scheduled python scripts

GET requests to both 3rd party and sensor supplier APIs

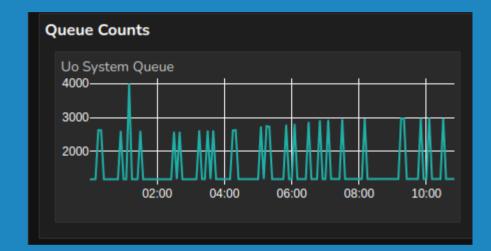


Queue

RabbitMQ



Overview					Messages			Message rates			
Name	Type Features		State		Ready	Unacked	Total	incoming	deliver / get	ack	
city.city_archive	classic				idle	0	0	0			
city.city_live	classic			П	idle	0	0	0	0.00/s		
city.sensor_data	classic				running	0	0	0		0.00/s	0.00/s
fanned_archive_city_data	classic	D	Args		idle	1,796	0	1,796	0.00/s	0.00/s	0.00/s
fanned_city_data	classic	D	Args		running	0	0	0	0.00/s	0.00/s	0.00/s
microservice_setup	classic			П	idle	661	0	661	0.00/s		
nifi	classic				idle	0	0	0			
uo.dup_channel	classic				running	530	0	530	0.00/s	106/s	0.00/s
uo.insert_channel	classic				running	0	0	0	0.00/s	0.00/s	0.00/s
uo.live_row_update	classic				running	0	0	0	0.00/s	0.00/s	0.00/s
uo.live_table_update	classic				running	0	0	0	0.00/s	0.00/s	0.00/s
uo.microservices_setup	classic				idle	0	0	0			
uo.new_sensors	classic				running	0	0	0	0.00/s	0.00/s	0.00/s
uo.script_run	classic				running	0	0	0	0.20/s	0.20/s	0.20/s
uo.script_run_time	classic				running	0	0	0	0.00/s	0.00/s	0.00/s
uo.skipped channel	classic				idle	0	0	0	0.00/s	0.00/s	0.00/s



Databases

We don't need columns {key:values}

Columns are useful

Databases

- Postgresql + PostGIS
- Python brokers

```
script_updates
sensor_data_2024_4_cols
sensor_data_2024_5_cols
sensor_data_2024_6_cols
sensor_data_2024_7_cols
sensor_data_live_cols
sensor_full_names
sensor_source
sensors
```

Databases

sensor_data_2013_cols
sensor data 2014 cols

sensor_data_2015_cols
sensor_data_2016_1_cols
sensor_data_2016_2_cols
sensor_data_2016_3_cols
sensor_data_2016_4_cols

sensor_data_2016_5_cols
sensor_data_2016_6_cols
sensor_data_2017_10_cols
sensor_data_2017_11_cols
sensor_data_2017_11_cols

sensor data 2017 1 cols sensor data 2017 2 cols sensor data 2017 3 cols sensor data 2017 4 cols sensor data 2017 5 cols sensor_data_2017_6_cols sensor data 2017 7 cols sensor data 2017 8 cols sensor data 2017 9 cols sensor data 2018 10 cols sensor data 2018 11 cols sensor data 2018 12 cols sensor data 2018 1 cols sensor data 2018 2 cols sensor data 2018 3 cols sensor_data_2018_4_cols sensor data 2018 5 cols sensor data 2018 6 cols sensor data 2018 7 cols sensor data 2018 8 cols sensor_data_2018_9_cols sensor_data_2019_10_cols sensor data 2019 11 cols sensor data 2019 12 cols sensor_data_2019_1_cols sensor_data_2019_2_cols msensor data 2019 3 cols

Archive DB

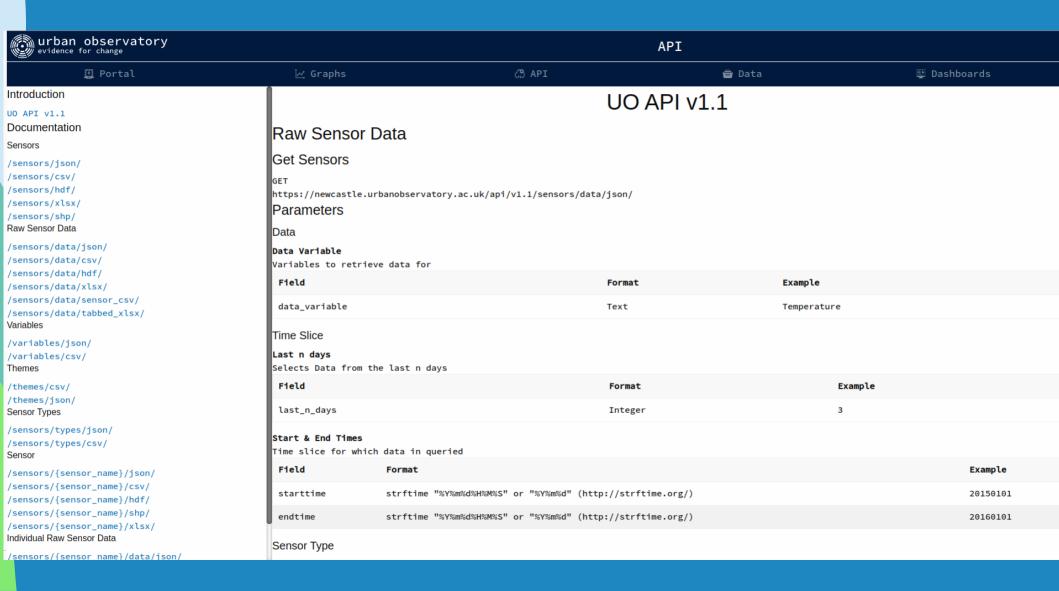
Temporal Aggregates

Archive rows

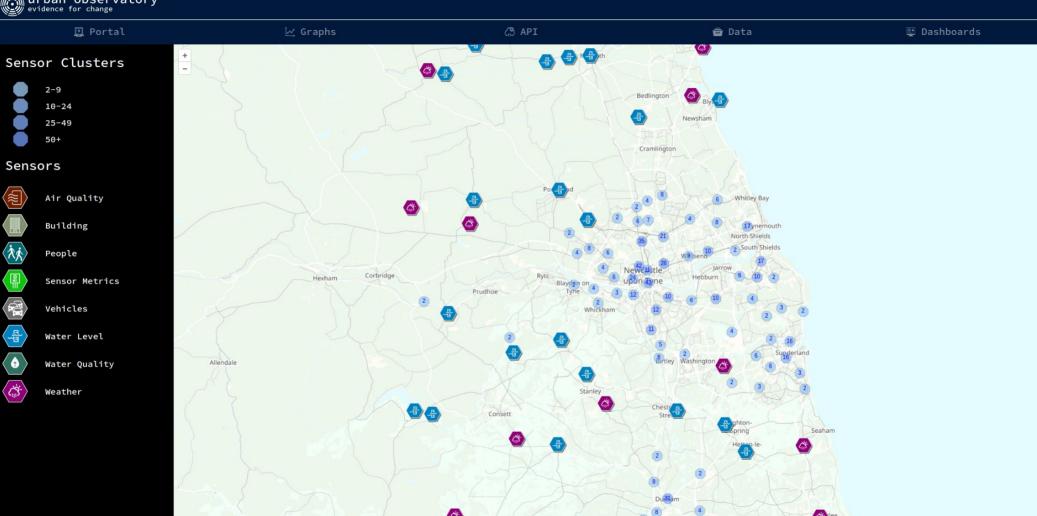
3,963,995,675

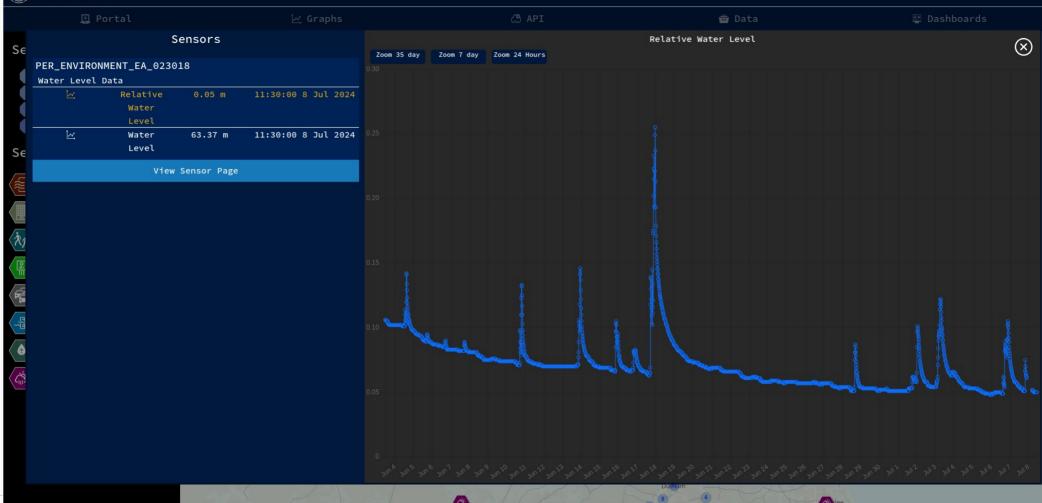
Live rows

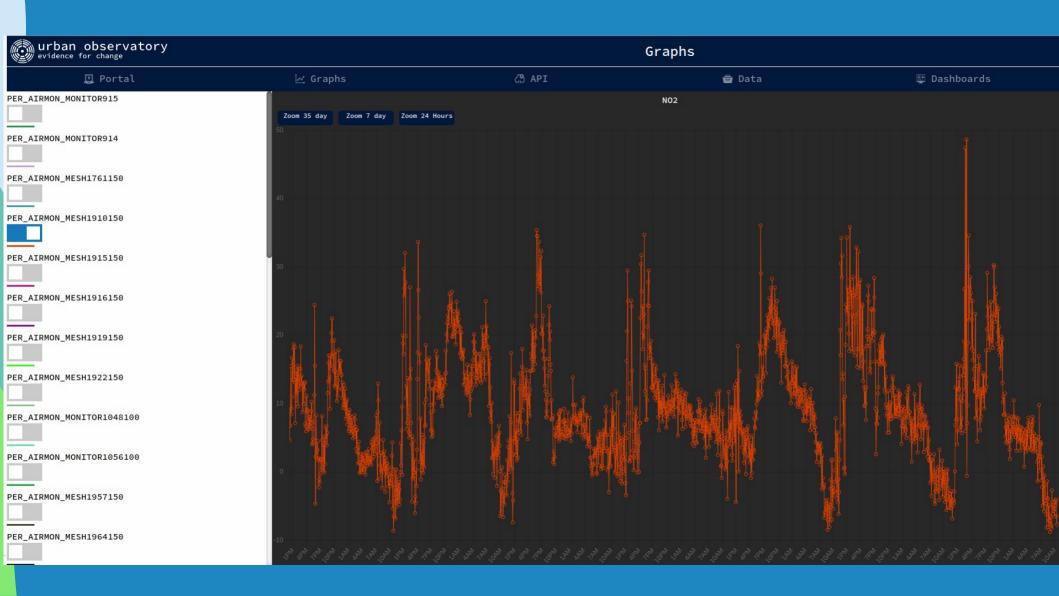
78,655,283











 ☑ Portal
 ☑ Graphs
 ② API
 ➡ Data
 ➡ Dashboards



Last 35 Days

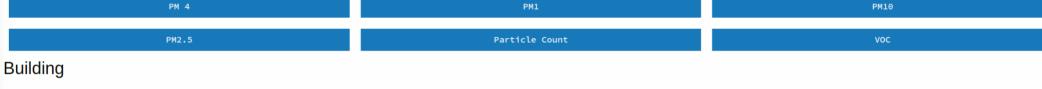


Raw Archive Data



Aggregated Data





Plates In

Plates Matching

People

Vehicles

Water Level

Sensor Metrics

Journey Time

Plates Out