

Primaria Ghiroda

MONTHLY AIR-QUALITY REPORT

Timp de la: 01/12/2025, 00:00

Timp până la: 30/12/2025, 23:59

Numele dispozitivului: Primaria Ghiroda

Locația dispozitivului: Strada Victoria 48, Ghiroda 307200, Romania

Parametrii: EAQI, NO₂, O₃, SO₂, PM_{2.5}, PM₁₀, Wind Speed, Wind Direction, CO, R. Humidity, PM₁, PM₁₀₀, Pressure, Temperature



Media indicelui de calitate al aerului (ICA): 290

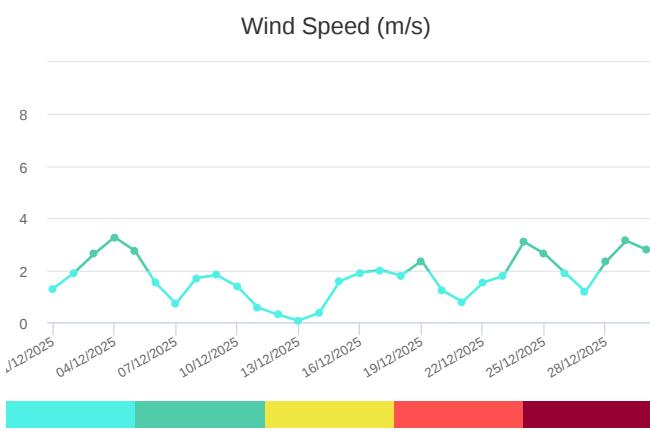
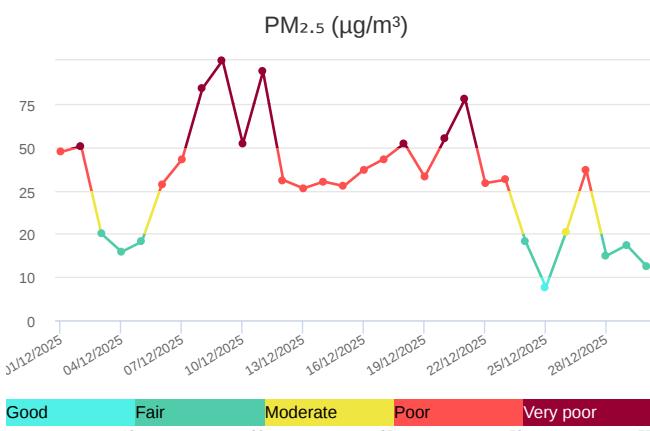
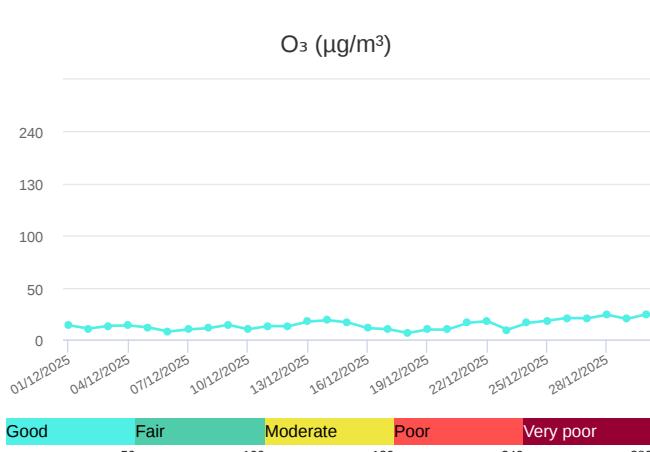
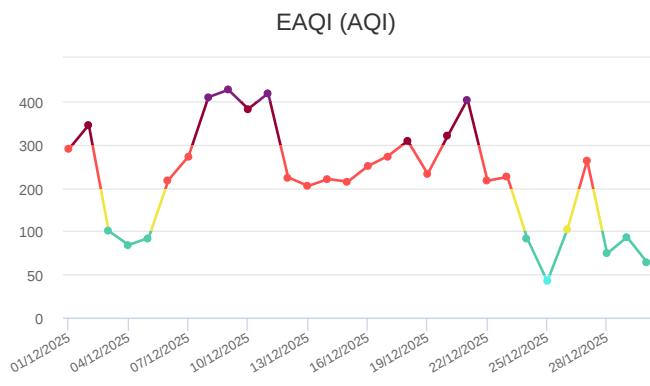
Prezentare generală zilnică: Parametrii indicelui de calitate al aerului (ICA)

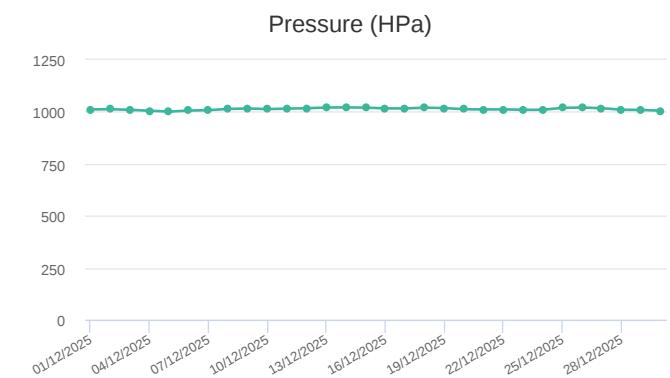
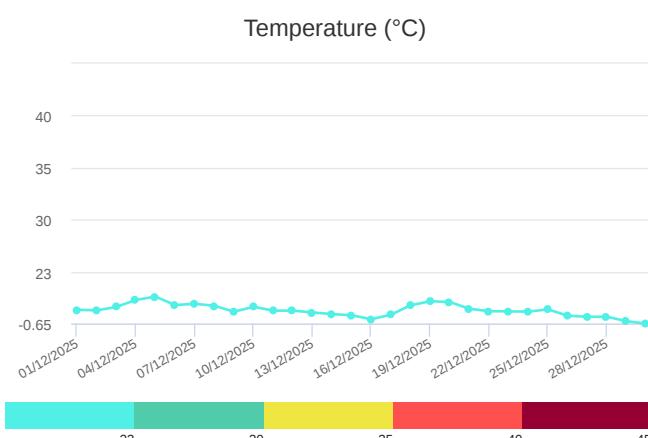
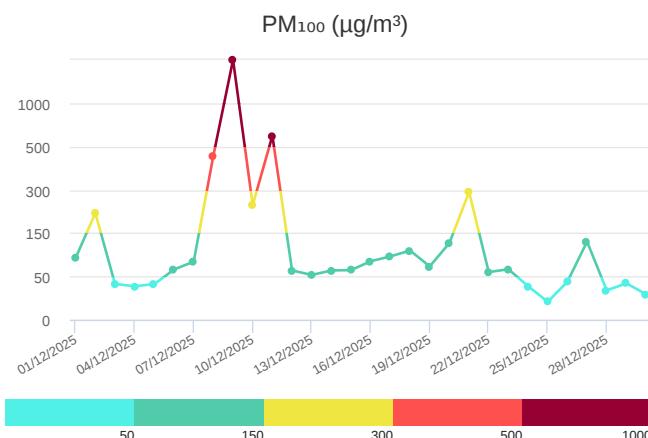
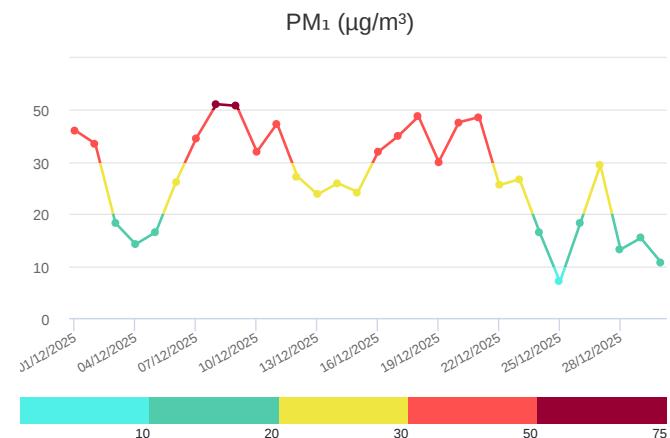
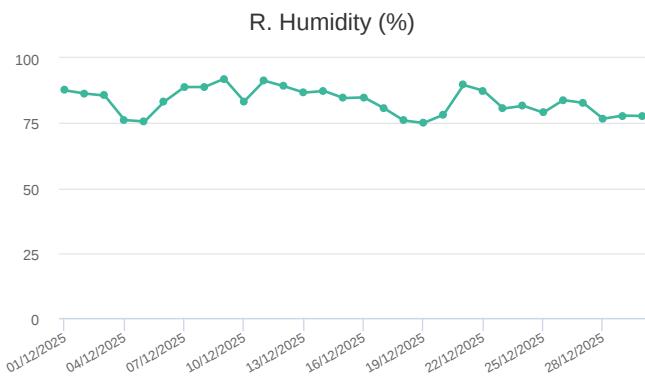
	EAQI AQI	NO ₂ µg/m ³	O ₃ µg/m ³	SO ₂ ppb	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
Average	290	27.05	14.17	3.82	39.91	94.85
Maximum	426	36.29	24.45	5.89	120.54	424.14
Date	09/12/2025	18/12/2025	30/12/2025	16/12/2025	09/12/2025	09/12/2025
Minimum	42	19.66	6.32	2.5	7.68	16.76
Date	25/12/2025	28/12/2025	18/12/2025	05/12/2025	25/12/2025	25/12/2025

Prezentare generală zilnică: Alți parametri

	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ µg/m ³	PM ₁₀₀ µg/m ³	Pressure HPa	Temperature °C
Average	0.79	103.03	100	486.5	83.28	29.49	148.42	1013.22	5.38
Maximum	3.27	98.11	100	790.85	92.02	52.81	1046.45	1021.02	11.59
Date	04/12/2025	04/12/2025	01/12/2025	17/12/2025	09/12/2025	08/12/2025	09/12/2025	14/12/2025	05/12/2025
Minimum	0.06	111.34	100	363.96	75.01	6.99	20.72	1001.07	-0.65
Date	13/12/2025	13/12/2025	01/12/2025	28/12/2025	19/12/2025	25/12/2025	25/12/2025	05/12/2025	30/12/2025

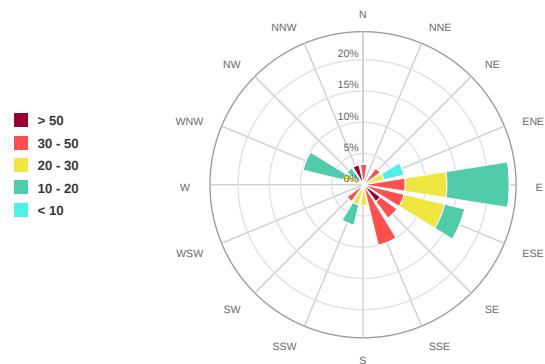
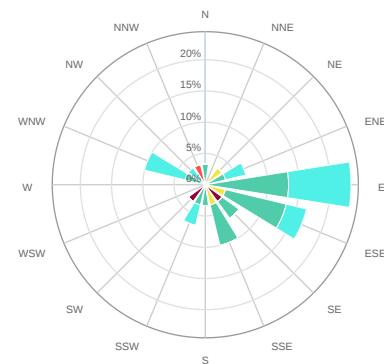
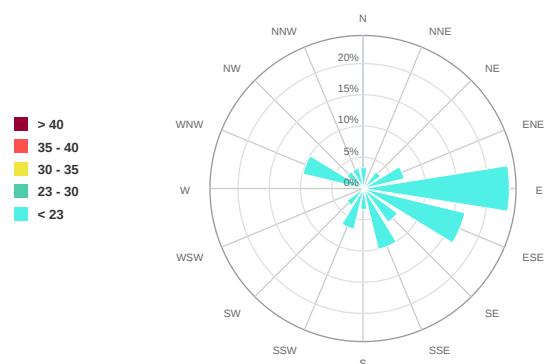
Weekly Average





Weekly Average



PM1 ($\mu\text{g}/\text{m}^3$)

PM100 ($\mu\text{g}/\text{m}^3$)

Temperature ($^{\circ}\text{C}$)


Alerte

No alerts for the selected date and time range

Insights

- 11/12/2025, 23:59 **EAQI peaked at extremely poor levels multiple times in December:** The EAQI reached extremely poor levels, exceeding 400, on multiple days, indicating severe air pollution. Highest recorded EAQI observed on '2025-12-09' reaching a value of 426.
- 30/12/2025, 23:59 **PM_{2.5} levels frequently exceeded safe limits:** PM_{2.5} concentrations were frequently in the 'Poor' to 'Extremely poor' range, exceeding 25 µg/m³ on many days, posing significant health risks to the population.
- 09/12/2025, 23:59 **PM₁₀ reached extremely high concentrations:** PM₁₀ levels spiked significantly, reaching extremely poor levels above 150 µg/m³, especially on '2025-12-09', indicating a severe dust or particulate matter event.
- 30/12/2025, 23:59 **Air quality showed improvement towards the end of December:** EAQI values show slight improvement towards the end of December, with some days falling into the 'Fair' category, particularly between '2025-12-24' and '2025-12-30'.
- 30/12/2025, 23:59 **NO₂ levels consistently within 'Good' to 'Moderate' range:** NO₂ concentrations generally remained within the 'Good' to 'Moderate' range according to defined thresholds, suggesting it is not the primary driver of poor air quality.
- 30/12/2025, 23:59 **O₃ levels remained mostly within 'Good' to 'Fair' range:** O₃ concentrations were generally within the 'Good' to 'Fair' range, indicating relatively lower ozone pollution levels compared to particulate matter.
- 30/12/2025, 23:59 **SO₂ levels are consistently low:** SO₂ concentrations remained low throughout the period, consistently falling within the 'Good' range, suggesting minimal contribution from sulfur dioxide pollution.
- 30/12/2025, 23:59 **Correlation between high PM_{2.5} and high EAQI:** A strong positive correlation exists between PM_{2.5} concentrations and EAQI values, indicating that PM_{2.5} is a major contributor to overall air quality degradation.
- 30/12/2025, 23:59 **Wind speed impact on pollution dispersion:** Higher wind speeds appear to correlate with better air quality, suggesting that wind aids in dispersing pollutants and lowering overall EAQI values.
- 30/12/2025, 23:59 **Temperature's minimal apparent impact on EAQI:** Temperature does not show a strong correlation with EAQI. This indicates other pollution factors dominate impact.
- 30/12/2025, 23:59 **Highest CO levels during 'Poor' and 'Very Poor' EAQI days:** CO levels were notably elevated on days when the EAQI was categorized as 'Poor' or 'Very Poor', suggesting a potential link between CO emissions and overall air quality decline.
- 30/12/2025, 23:59 **Elevated R. Humidity alongside Poor Air Quality:** Higher relative humidity (R. Humidity) seems to coincide with periods of poorer air quality. High humidity could promote the formation or persistence of particulate matter.
- 30/12/2025, 23:59 **Highest PM₁ correlated with poor EAQI:** Peaks in PM₁(fine particulate matter) correlate with highest EAQI scores indicating this is a key indicator for pollution.
- 30/12/2025, 23:59 **High PM₁₀₀ values with Extremely Poor EAQI:** Extremely Poor EAQI coincides with high values in PM₁₀₀, suggesting that coarser particulate matter is present during these periods.
- 30/12/2025, 23:59 **Poor AQ observed even with fair NO₂ conditions:** AQI is poor even when NO₂ concentration is within good or fair range, which means air quality is more impacted by particulate matter.
- 30/12/2025, 23:59 **Significant Variation in PM₁₀ Values Observed:** PM₁₀ concentrations fluctuated considerably throughout the month, ranging from 'Good' levels up to 'Extremely Poor', highlighting changing pollution events.
- 25/12/2025, 23:59 **Lowest EAQI recorded on '2025-12-25':** The lowest EAQI score of 51, categorized as 'Fair,' was observed on '2025-12-25', representing the cleanest air quality day in the observed period. PM_{2.5} levels were at 7.68 on this day.
- 30/12/2025, 23:59 **Impact of Pressure on Air Quality Variation:** Air pressure appears to fluctuate during the time. Further investigation is needed to explore its impacts.
- 30/12/2025, 23:59 **Wind Direction Changes and Pollution:** Wind direction varies frequently. Analysis is required to find its correlation between pollutants and wind direction.
- 30/12/2025, 23:59 **Fair days have significantly lower PM_{2.5} value:** Days categorized as Fair shows significantly low PM_{2.5} value as well as overall AQI indicating this is the main factor.
- 09/12/2025, 23:59 **Pressure and PM₁₀ Values:** Highest PM₁₀ value corresponds with high pressure(1016.01) indicating the possible influence of high pressure.
- 30/12/2025, 23:59 **Lower Temperature on Fair days:** A trend of lower temperatures observed during days with 'Fair' air quality compared to periods with 'Poor' or 'Very Poor' air quality. More investigation is necessary to conclude the influence.
- 05/12/2025, 23:59 **High Wind Speed on Fair AQI:** AQI is 'Fair' when wind speeds are higher than average. Wind speed is an important factor for better air quality.
- 30/12/2025, 23:59 **Inversions Likely Contributing to Pollution:** Stable atmospheric conditions indicated by higher pressure and lower wind speeds are likely trapping pollutants near the surface during 'Poor' and 'Very Poor' air quality days.
- 30/12/2025, 23:59 **PM_{2.5} consistently a major contributor to AQI:** PM_{2.5} is a major factor contributing to the air quality index, as PM_{2.5} values are high. PM_{2.5} needs to be reduced to achieve good air quality index.
- 30/12/2025, 23:59 **Average Windspeed and EAQI:** Wind speeds from 0-2 m/s resulted in increased EAQI scores and pollution levels during December.
- 30/12/2025, 23:59 **Air Quality Degrades Despite Good Ozone levels:** AQI and EAQI remained high with pollution, despite Ozone remaining in good range during December.

- 30/12/2025, 23:59 **CO Pollution is elevated during poor air quality conditions.**: CO levels spike along with Poor and Very Poor air quality. There may be a connection between this gas and overall pollution factors.
- 30/12/2025, 23:59 **Impact of PM₁ on Air Quality**: High values of PM₁ correlate with high EAQI scores, indicating that fine particulate matter contributes to pollution.
- 30/12/2025, 23:59 **Good Battery Percentage and Valid Air Quality data**: Good Battery percentage indicates the data is valid.

Parametrii indicelui de calitate al aerului (ICA)

Weekly Average

To Date	EAQI AQI	NO ₂ µg/m ³	O ₃ µg/m ³	SO ₂ ppb	PM _{2.5} µg/m ³	PM ₁₀ µg/m ³
01/12/2025, 23:59	289	25.74	13.7	3.73	47.15	87.99
02/12/2025, 23:59	345	28.52	10.48	4.13	50.43	122.41
03/12/2025, 23:59	100	25.75	13.14	4	20	37.81
04/12/2025, 23:59	84	25.31	13.54	3.08	15.8	33.56
05/12/2025, 23:59	92	34.1	11.59	2.5	18.15	36.86
06/12/2025, 23:59	218	33.96	7.66	2.87	28.61	59.06
07/12/2025, 23:59	272	29.58	9.72	3.47	42.96	79.94
08/12/2025, 23:59	409	28.61	10.89	3.92	91.05	248.16
09/12/2025, 23:59	426	25.55	14.17	4.5	120.54	424.14
10/12/2025, 23:59	382	30.94	9.83	3.82	51.88	140.99
11/12/2025, 23:59	418	26.67	12.97	4.68	108.86	341.28
12/12/2025, 23:59	224	27.44	12.68	4.09	30.95	59.51
13/12/2025, 23:59	204	23.8	17.21	4.01	26.12	48.96
14/12/2025, 23:59	220	22.97	18.62	3.91	30.04	58.82
15/12/2025, 23:59	214	26.68	16.33	3.25	27.42	56.83
16/12/2025, 23:59	250	31.13	10.89	5.89	37.01	75.06
17/12/2025, 23:59	273	35.49	9.98	3.68	43.15	86.47
18/12/2025, 23:59	308	36.29	6.32	2.8	52.05	100.93
19/12/2025, 23:59	232	30.98	9.56	3.42	32.77	66.1
20/12/2025, 23:59	319	29.55	9.56	3.77	54.79	108.42
21/12/2025, 23:59	404	23.41	15.93	5.32	79.96	191.1
22/12/2025, 23:59	216	22.47	17.7	4.02	29.12	56.08
23/12/2025, 23:59	225	29.56	9.42	4.07	31.13	60.68
24/12/2025, 23:59	91	24.65	15.91	4.03	18.13	34.62
25/12/2025, 23:59	42	21.87	18.1	3.34	7.68	16.76
26/12/2025, 23:59	103	21.21	20.75	3.9	20.17	39.21
27/12/2025, 23:59	263	19.81	20.33	4.22	36.67	81.33
28/12/2025, 23:59	74	19.66	23.78	3.48	14.88	29.63
29/12/2025, 23:59	93	26.44	19.79	3.26	17.34	37.13
30/12/2025, 23:59	64	23.45	24.45	3.35	12.41	25.71

Altı parametri

Weekly Average

To Date	Wind Speed m/s	Wind Direction degree	Battery %	CO ppb	R. Humidity %	PM ₁ µg/m ³	PM ₁₀₀ µg/m ³	Pressure HPa	Temperature °C
01/12/2025, 23:59	1.29	165.83	100	503.92	87.57	42.15	92.89	1011.33	5.61
02/12/2025, 23:59	1.88	103.63	100	509.03	86.34	37.07	219.34	1012.39	5.35
03/12/2025, 23:59	2.62	106.44	100	437.38	85.54	18.26	41.25	1009.47	6.88
04/12/2025, 23:59	3.27	98.11	100	414.96	76.12	14.18	38.67	1005.12	10.1
05/12/2025, 23:59	2.74	84.29	100	435.39	75.59	16.51	41.17	1001.07	11.59
06/12/2025, 23:59	1.51	74.66	100	560.68	83.28	26.23	65.96	1005.83	7.74
07/12/2025, 23:59	0.71	10.24	100	508.8	88.84	39.14	84.09	1008.07	8.34
08/12/2025, 23:59	1.7	347.2	100	534.84	88.84	52.81	457.89	1013.66	7.44
09/12/2025, 23:59	1.81	139.47	100	469.31	92.02	52	1046.45	1016.01	4.71
10/12/2025, 23:59	1.37	149.85	100	623.69	83.33	33.97	247.01	1013.16	6.99
11/12/2025, 23:59	0.56	226.27	100	464.97	91.27	44.77	623.21	1015.34	5.21
12/12/2025, 23:59	0.28	173.8	100	422.96	89.15	27.27	64.04	1017.11	5.23
13/12/2025, 23:59	0.06	111.34	100	405.57	86.69	23.74	53.28	1020.7	4.38
14/12/2025, 23:59	0.36	204.86	100	409.48	87.31	25.93	63.83	1021.02	3.66
15/12/2025, 23:59	1.57	113.26	100	546.51	84.58	24.21	64.46	1019.91	3.1
16/12/2025, 23:59	1.9	85.45	100	666.15	84.85	33.86	85.07	1016.55	1.31
17/12/2025, 23:59	2	126.43	100	790.85	80.75	40.01	96.24	1016.1	3.4
18/12/2025, 23:59	1.79	157.1	100	764.4	75.96	47.52	109.71	1019.95	7.64
19/12/2025, 23:59	2.36	108.8	100	527.66	75.01	30.05	73.15	1017.85	9.5
20/12/2025, 23:59	1.22	90.99	100	528.6	78.21	45.28	127.04	1012.27	9.14
21/12/2025, 23:59	0.78	52.03	100	425.95	89.63	47.29	292.26	1011.32	6.05
22/12/2025, 23:59	1.52	100.99	100	421.36	87.42	25.56	60.03	1011.76	4.98
23/12/2025, 23:59	1.78	85.1	100	453.54	80.56	26.68	66.6	1009.5	4.89
24/12/2025, 23:59	3.09	87.34	100	422	81.63	16.41	38.75	1009.85	4.76
25/12/2025, 23:59	2.63	68.42	100	377.96	79	6.99	20.72	1019.17	5.8
26/12/2025, 23:59	1.9	307.15	100	389.87	83.82	18.15	43.85	1020.52	2.92
27/12/2025, 23:59	1.17	301.16	100	395.04	82.75	29.36	130.32	1017.24	2.42
28/12/2025, 23:59	2.32	291.02	100	363.96	76.64	13.17	33.91	1010.08	2.45
29/12/2025, 23:59	3.13	205.31	100	448.05	77.87	15.38	42.07	1008.99	0.42
30/12/2025, 23:59	2.78	290.45	100	372.03	77.68	10.72	29.39	1005.22	-0.65

Oizom will not be responsible for Environmental Data accuracy once Validated