

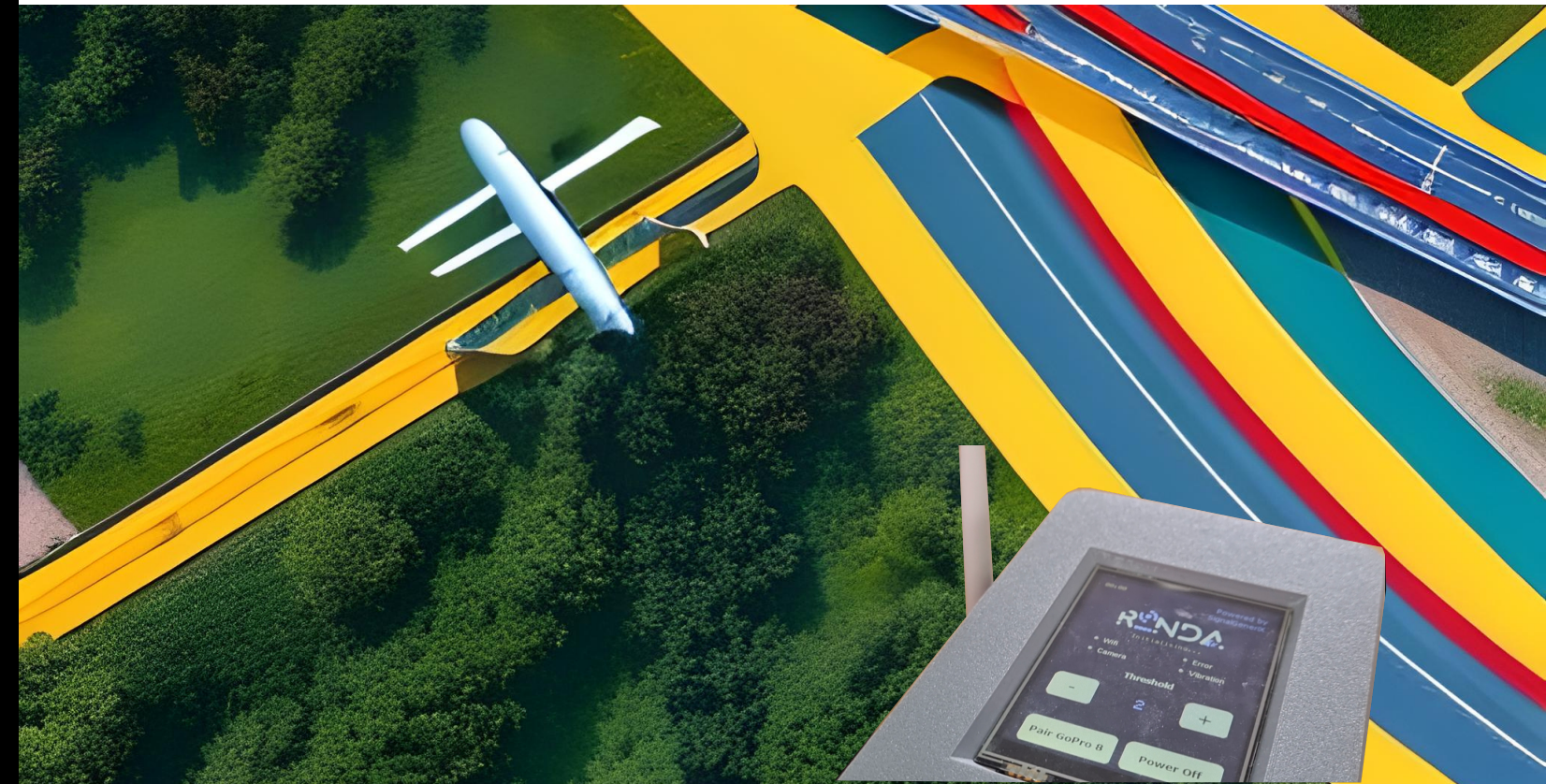
Leaping forward to revolutionizing the industry of low-cost roadway condition & traffic assessment technologies

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LOW-COST ROADWAY CONDITION AND TRAFFIC ASSESSMENT TECHNOLOGIES

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ABOUT 'RONDA'

The project, funded by the Cyprus Research Foundation programmes for research, technological development and innovation "RESTART 2016-2020" (Grant No. INTEGRATED/0918/0056), aimed the development of technologies for the low-cost assessment of roadway networks and traffic flows. The former is based on custom vibration sensor and machine-vision devices, and the latter on drones and machine vision. The developed platform (including custom-developed algorithms, webGIS, DSS/PMS, dashboards/API modules and data links to other national digital platforms), were pilot-tested on the road network of Lakatamia.

Year	# of Trips	Total distance (km)	Trip duration (min.)	Total rawdata points (x1000)	Total aggregated points (x1000)
2020	32	443.86	424.62	530.08	29.66
2021	31	201.05	195.13	263.08	15.37
2022	24	168.39	57.35	162.08	1.72
2023	72	628.54	289.43	676.83	8.97
Total	159	1458.09	972.14	1642.42	56.87

WHAT WE OFFER

SERVICES

Periodic and/or ad-hoc surveys of roadway networks; assessment of roadway pavements and of traffic flows; prioritization of operations and maintenance work.

PRODUCTS

A hardware/software bundle for the low-cost assessment of traffic and of roadway networks.

PLATFORMS

An integrated webGIS-based digital platform for the management of roadway networks, including a decision support (DSS), a pavement management system (PMS), dashboards, data APIs, and links to other national digital platforms.

