

3

The devices are placed on cars moving within the area to be monitored.



4

Geolocated data is loaded into Dydas in order to be viewed and analysed.



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HAVE YOU EVER THOUGHT OF  
OTHER WAYS OF IMPROVING  
YOUR CITY'S LIFE QUALITY?

join the Hackathon  
deadline January 17,  
2023



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Smart Mobility & Smart Cities.  
Shed Light-on red traffic lights

HOW COULD YOU  
IMPROVE YOUR CITY'S  
QUALITY OF LIFE?

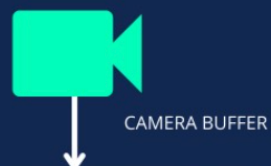
**DYDAS for MOBILITY:**  
use case for a practical example on  
**COLLECT DATA ON ROAD  
SURFACE DEFECTS**

In DYDAS for "Mobility use  
case", we find a practical  
example of how IoT and Edge  
computing can be used to  
collect large amounts of data  
on asphalt conditions and  
contribute to safer driving



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# AS WE HAVE COLLECTED LARGE AMOUNTS OF DATA ON THE CONDITION OF THE ASPHALT



CAMERA BUFFER

Frame #234  
Frame #233  
Frame #232

AI DAMAGE  
DETECTOR

Detection #1	Frame #232	Label #POTHOLE	Top #0.43	Left #0.12	Bottom #0.67	Right #0.34	Confidence #0.98	Lat #41.9	Lon #12.3
Detection #2	Frame #232	Label #POTHOLE	Top #0.43	Left #0.12	Bottom #0.67	Right #0.34	Confidence #0.88	Lat #41.9	Lon #12.3
Detection #3	Frame #232	Label #POTHOLE	Top #0.43	Left #0.12	Bottom #0.67	Right #0.34	Confidence #0.78	Lat #41.9	Lon #12.3
Detection #4	Frame #232	Label #POTHOLE	Top #0.43	Left #0.12	Bottom #0.67	Right #0.34	Confidence #0.65	Lat #41.9	Lon #12.3
Detection #5	Frame #232	Label #POTHOLE	Top #0.43	Left #0.12	Bottom #0.67	Right #0.34	Confidence #0.59	Lat #41.9	Lon #12.3
Detection #6	Frame #232	Label #LINES	Top #0.43	Left #0.12	Bottom #0.67	Right #0.34	Confidence #0.74	Lat #41.9	Lon #12.3
Detection #7	Frame #232	Label #CRACKS	Top #0.43	Left #0.12	Bottom #0.67	Right #0.34	Confidence #0.95	Lat #41.9	Lon #12.3



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1

An Object Detection model is trained to detect potholes, cracks and lines.



DYDAS



2

The model is deployed on a mobile devices with camera, GPS and hardware acceleration.



DYDAS



## DYNAMIC DATA ANALYTICS SERVICES

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