How Drones with Advanced Technologies can be used for Geospatial Infrastructure and Urban Planning and Development





Dronix Technologies Pvt Ltd

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DRONIX TECHNOLOGIES PVT LIMITED



DESIGN, DEVELOP & MANUFACTURE DRONES IN INDIA PROVIDE DRONE BASED SERVICES ON A TURNKEY BASIS AND TRAINING





OFFER END-TO-END SOLUTIONS INCLUDING SOFTWARE, AI BASED ANALYTICS & REPORTING

DRONE AND SOME ADVANCED TECHNOLOGIES











Drone

As a tool for geospatial infrastructure and urban development

Along with

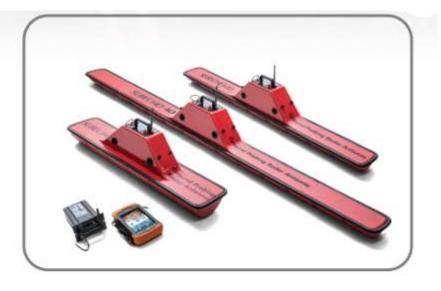


MAPPING CAMERAS



MULTISPECTRAL CAMERAS





GROUND PENETRATION RADAR

LIDAR

HYPERSPECTRAL



THERMAL CAMERAS





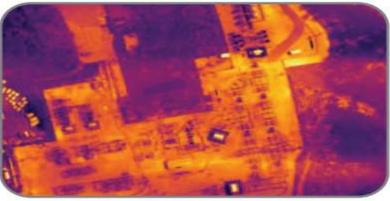
RGB Mapping



DATA OUTPUTS



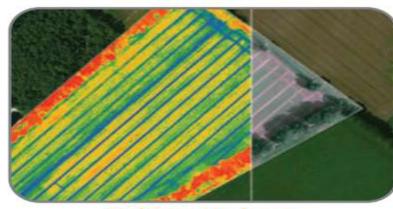
Orthomosaic maps



Thermal map



3D point clouds



Multispectral map



FLIR Vue Pro 336



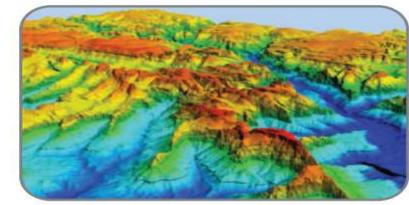
FLIR Vue Pro 640



Parrot Sequoia



MicaSense Rededge P



Digital surface models (DSM)



Oblique Camera Map

Use of LIDAR-equipped drones in Urban Development.



LIDAR

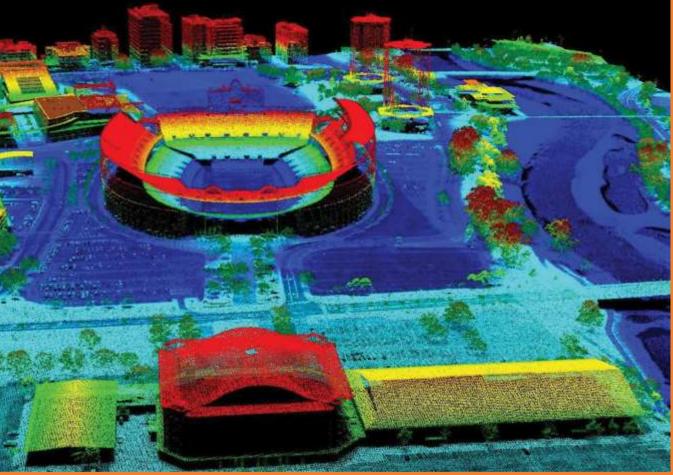
LIDAR-equipped drones provide high-resolution, three-dimensional data that can be used for various aspects of urban planning and development.

Outputs









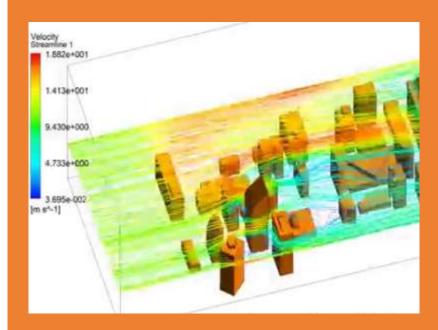
Here's how LIDAR with drones can be used in urban development



Topographic Mapping



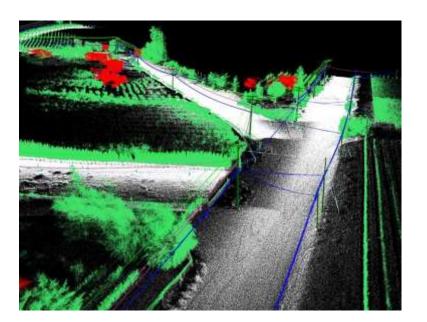
Utility and Infrastructure Planning & Maintenance



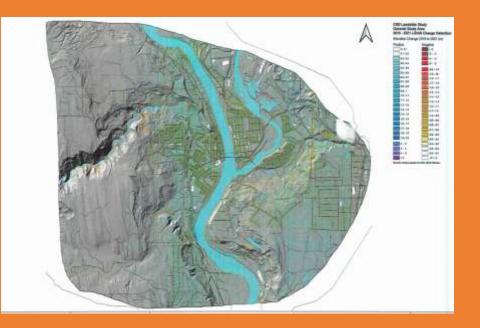
Disaster Risk Assessment



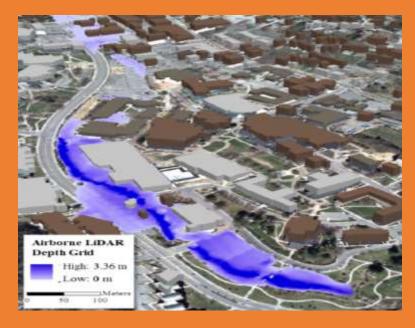
Urban Planning Visualization



Traffic and Transportation Planning







Flood and Drainage Analysis

Slope and Stability Analysis



Urban Vegetation Management

Use of Hyperspectral-equipped drones in Urban Development.

HYPER SPECTRAL

Hyperspectral imaging technology captures information across a wide range of electromagnetic wavelengths, allowing for the identification of materials, objects, and environmental conditions with a high degree of precision

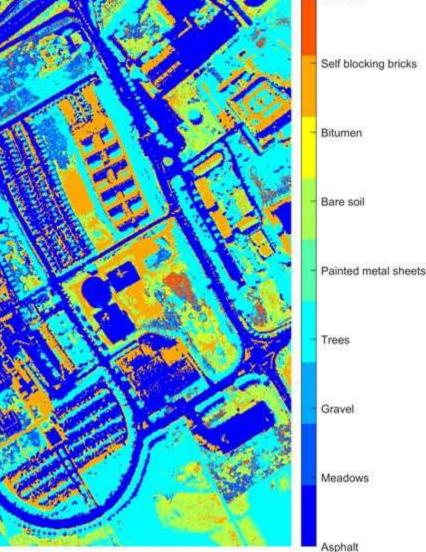


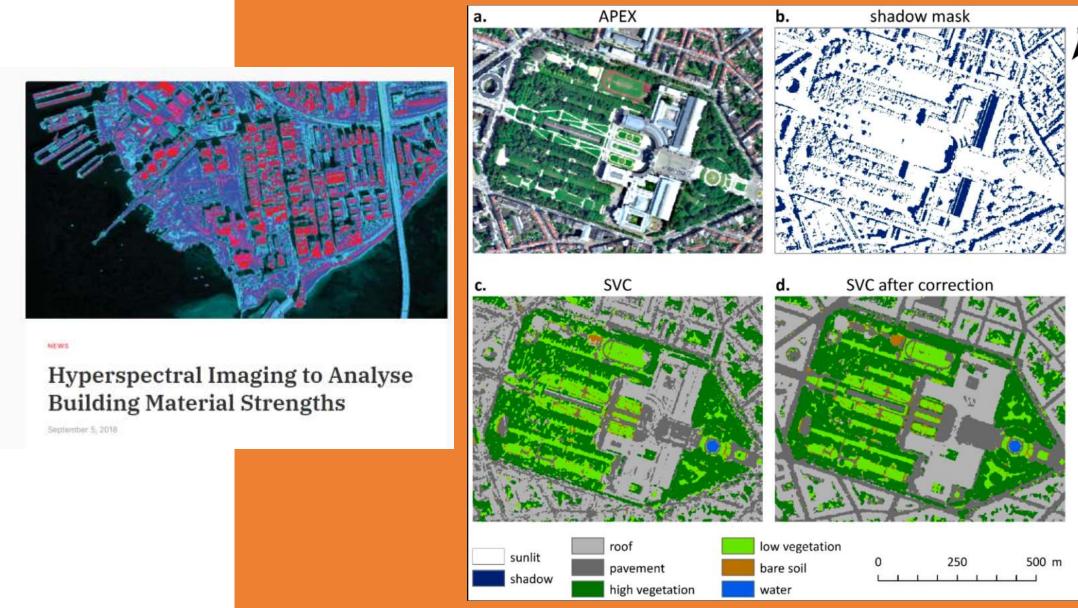


Use of Hyperspectral-equipped drones in Urban Development.

OUTPUTS





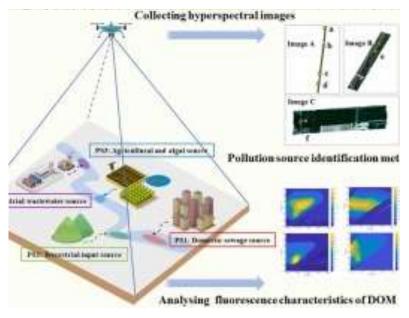


Meadows

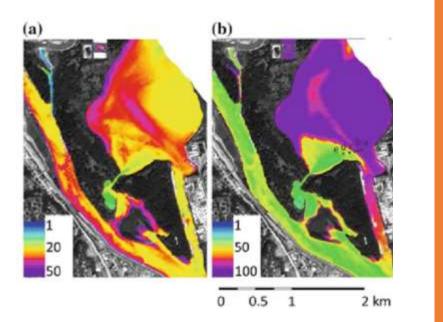
Shadows

HYPER SPECTRAL

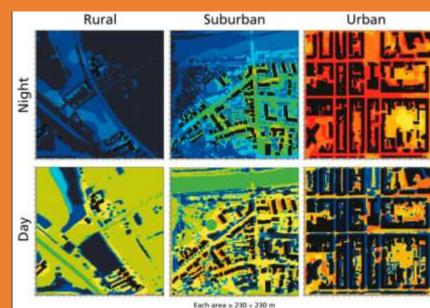
Here's how HYPERSPECTRAL with drones can be used in urban development



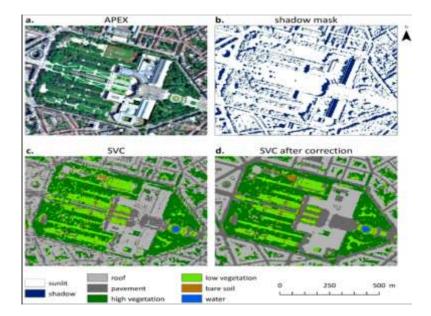
Environmental Quality Monitoring



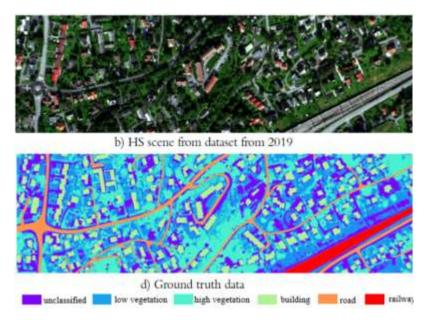
Water Resource Management



Building Heat Efficiency



Land Use Planning

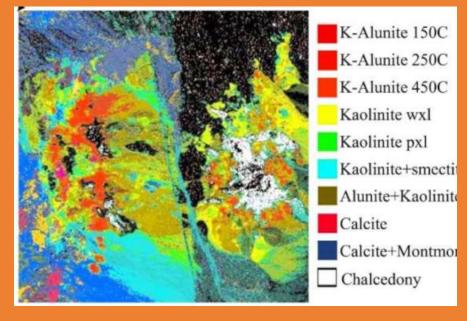


Vegetation Health Assessment

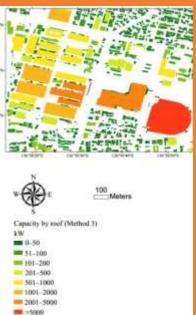


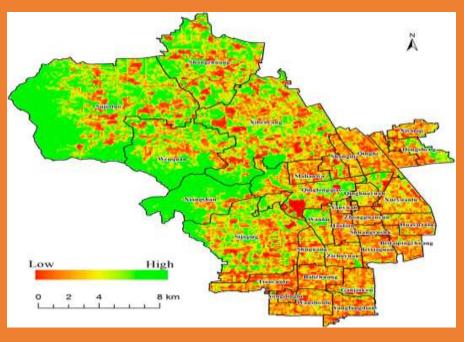
Rooftop Solar Potential



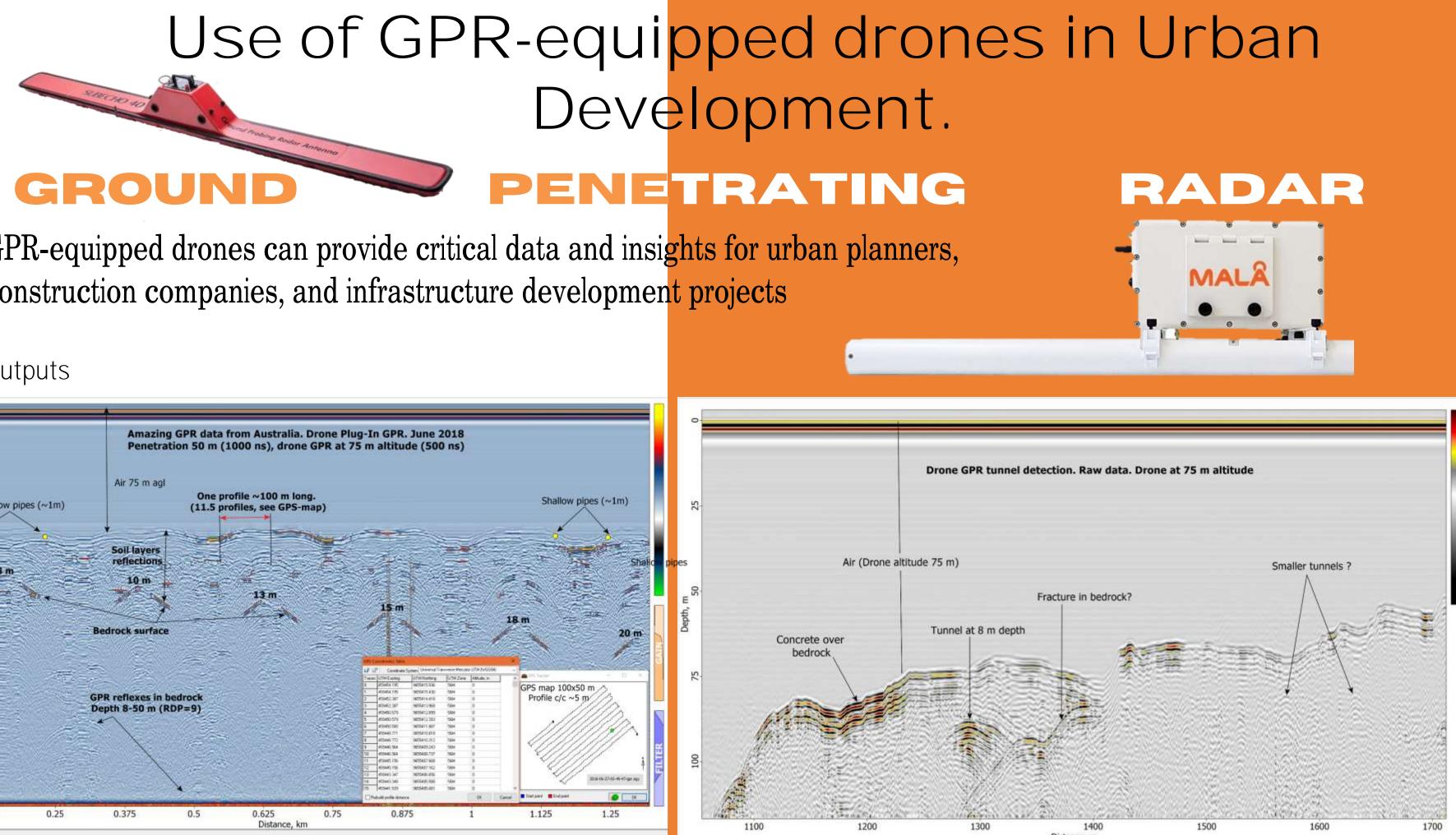


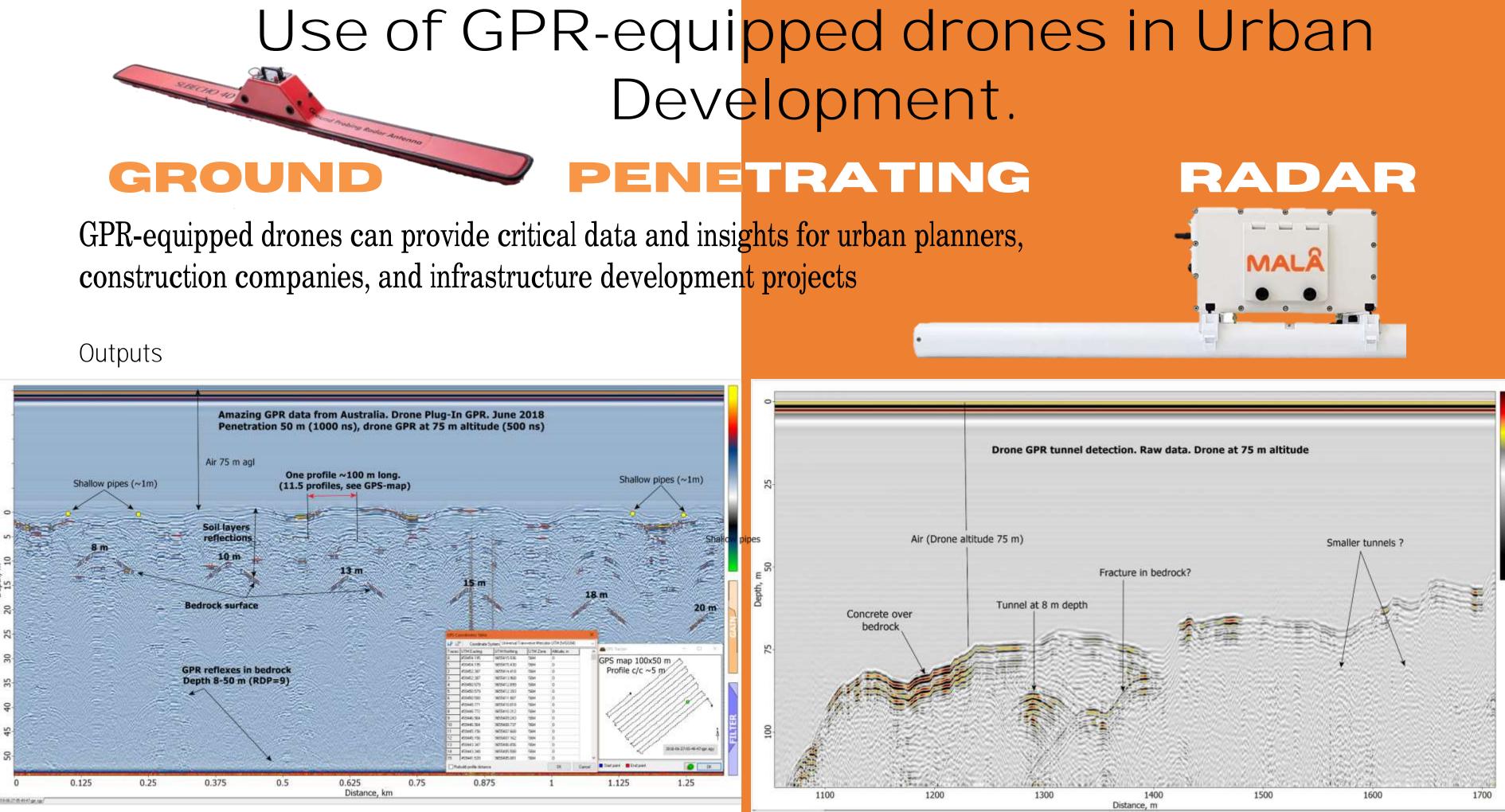
Geological and Geotechnical Surveys



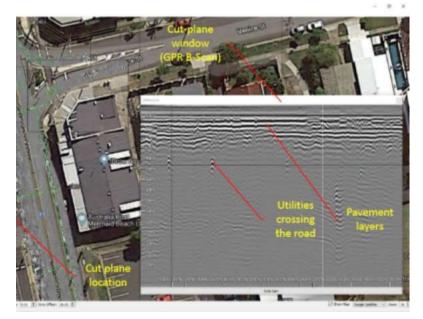


Environmental Impact Assessments

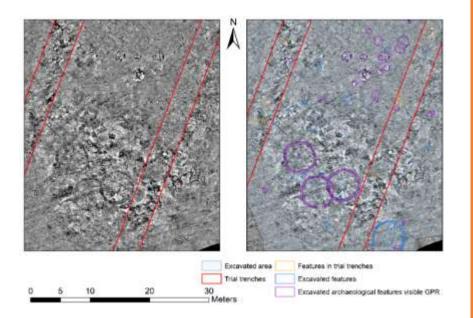




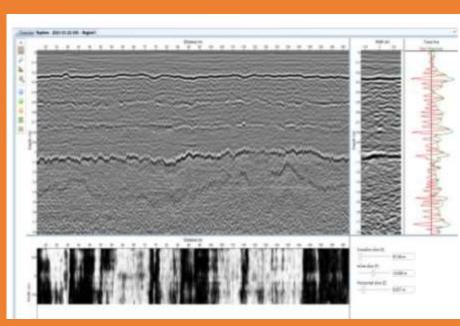
Here's how GPR with drones can be used in urban development



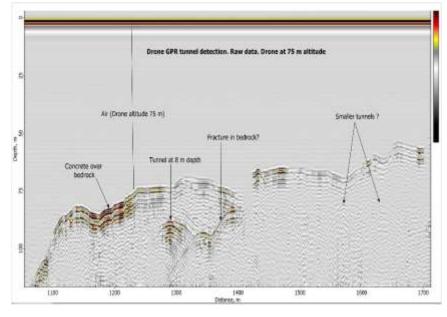
Subsurface Imaging and Utility Mapping



Archaeological and Historical Site Surveys



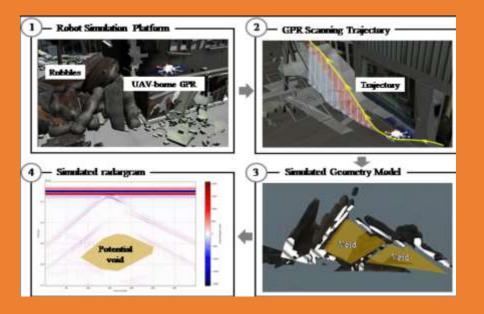
Assessment of Pavements and Roads



Tunnel and Subway Construction

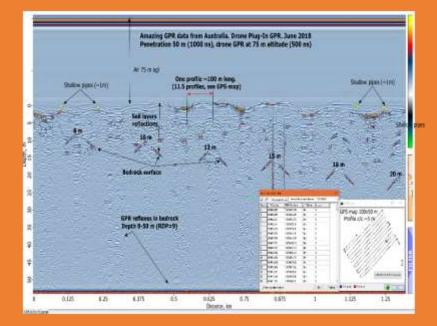


Monitoring Underground Infrastructure

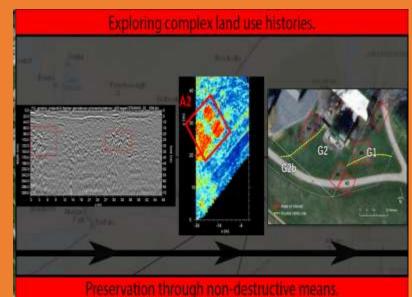


Disaster Preparedness and Response



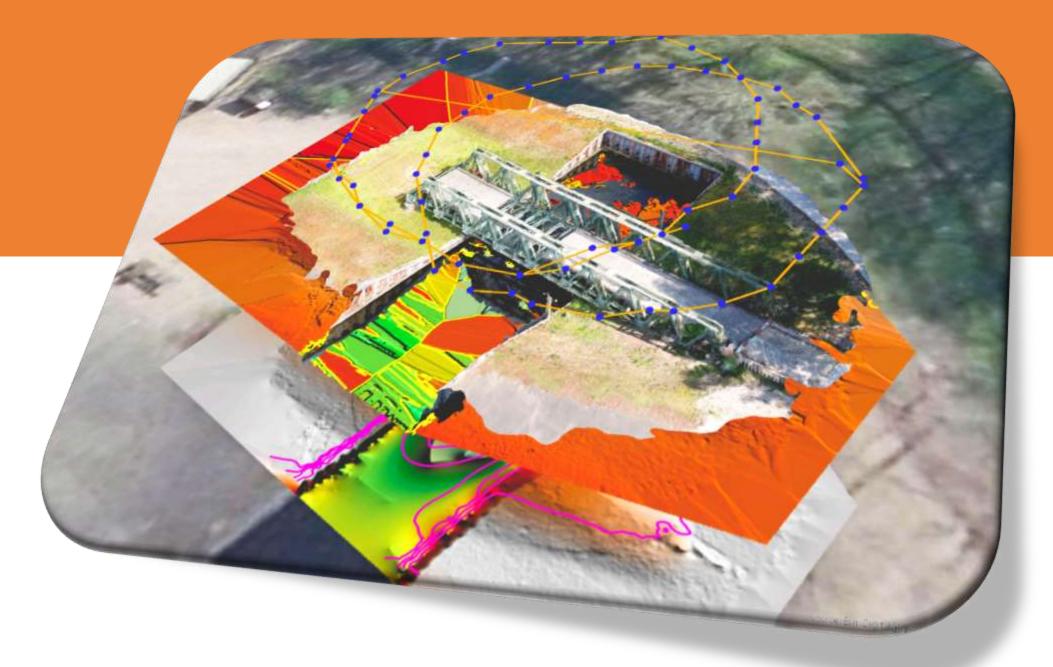


Site Selection and Evaluation



Land Use and Zoning Studies

OUR SOLUTIONS





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DRONES EQUIPPED WITH ADVANCED SENSORS



VYOMA WITH LIDAR



BHIMAWITH



INDUSTRIES WE SERVE

GEOSPATIAL & REMOTE SENSING



AGRICULTURE



MINING





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