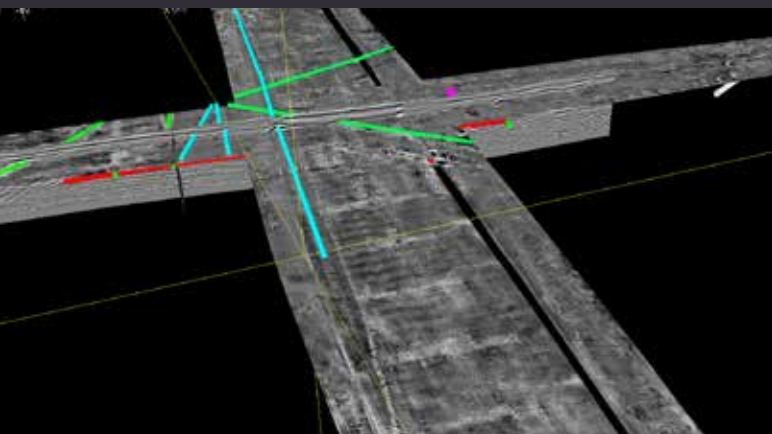


Technics Mobile GPR – Stream EM

The Technics Stream EM is an evolving technology solution that uses eight antenna arrays, with 40 channels configured on a vehicle towed frame to capture high volumes of data at a speed of 15 km/h.

The mobile ground penetrating radar system can capture utilities running in any orientation within a single two-metre wide area. This reduces the risk to personnel working on carriageways and avoids the requirement for static traffic management as the GPR operatives work from inside the moving vehicle.

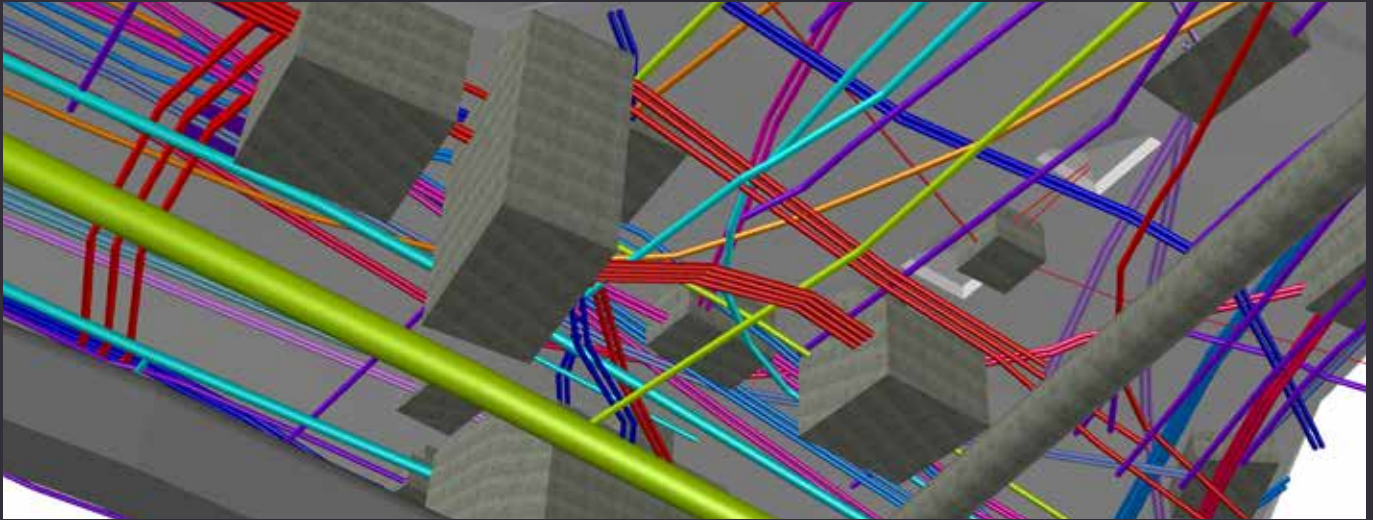


Processed Stream EM data

Stream EM tomography data creates an image of the sub surface to enable Technics to clearly define utilities, structures and buried objects.

The Stream is positioned in real time either by satellite GPS or by manual pavement theodolite where there is no GPS signal. Collected data is post-processed, evaluated and modelled against available plant data or other survey data to produce a final export 3D CAD model.

An improved detection accuracy of +/-5cm is achieved due to the 60mm spacing of the antennas. Previous results for capturing subsurface features have been dependent on the quality of the underground materials, however the configuration of the dual frequency antennas of the Stream gives greater range of depth coverage and clarity of anomalies. Horizontal and vertical mapping accuracy conforms to PAS-128 guidance of +/-15% of depth achieved.



Final output in 3D

Stream EM data processed and exported with results from Electro-magnetic technology

The Benefits

- Large areas can be surveyed 90% more quickly on site than through traditional methods.
- Digital information can be shared efficiently between service providers.
- No static traffic management is required which removes lane rental costs and traffic and commercial disruption.
- Complies with BSI PAS-128 standard and fulfils the highest quality non-invasive survey level when working in conjunction with EML (Electro-Magnetic Locators).
- Reduces the risk to site personnel with all radar works being conducted from inside the vehicle

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