

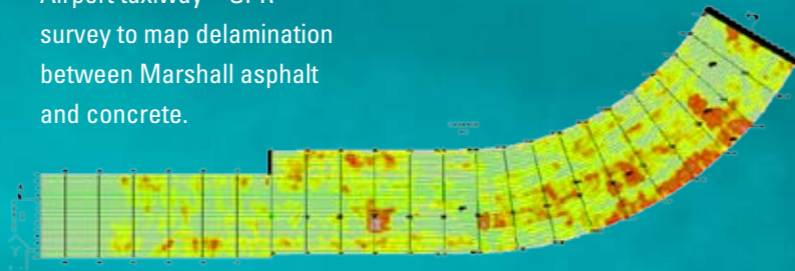
Aperio are international specialists in non destructive and geophysical investigation, applying advanced test and inspection methods to transport infrastructure, structures and buildings.

With a track record of more than 800 projects in a dozen countries, and the biggest team of geophysical specialists working in civil engineering, we are well equipped to meet your international requirements.

Other Aperio pavement services include:

- Diagnostic pavement investigation
- Airport runways and taxiways
- Geotechnical
- Bridges
- Tunnels

Airport taxiway – GPR survey to map delamination between Marshall asphalt and concrete.



ACCESS TO PAVEMENT CONSTRUCTION DATA HAS NEVER BEEN EASIER

REVEAL uncovered

An introduction to the
REVEAL Construction Database

The REVEAL Construction Database uses Ground Penetrating Radar data to build a nationwide database of highway construction information. Data is available through www.revealdatabase.com.

With no commitment to make a purchase, you can go into the online database and access construction information as and when you need it. Choose individual schemes or whole networks.

Retrieving information from REVEAL is quick and simple, as the data will already have been collected and stored.

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REVEAL is a unique service providing easy access to pre-surveyed routes. Results are presented in one of three formats. **Point Construction** provides discrete measurements. **Summary Construction** breaks the network down to construction segments and feeds average layer thicknesses into your PMS. **Detailed Construction** provides a higher resolution view of thickness changes enabling effective evaluation of specific pavement lengths.

REVEAL means

- Quick access
- No mobilisation
- No traffic management
- Pre-collected for faster reporting
- Easy web-based procurement
- Data formats to suit your needs



One of Aperio's GPR survey fleet

GPR is used on a routine basis by highways authorities around the world and is recognised as a key tool for pavement assessment.

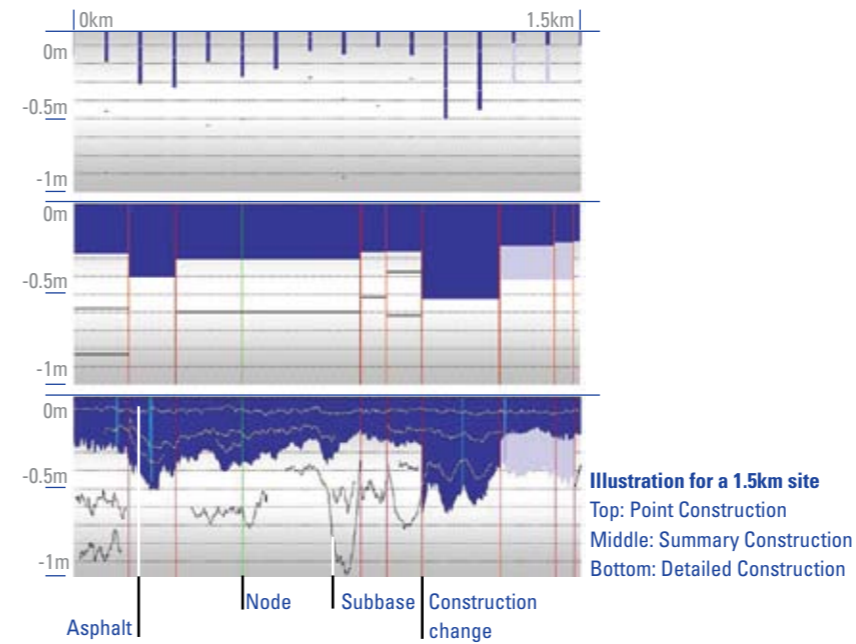
What's on offer?

Based on the equivalent of hundreds of thousands of cores, GPR results provide a comprehensive overview of pavement construction delivered in a choice of formats:

Point Construction provides construction at discrete points along your pavement and is typically used in the analysis of deflection data from FWD or Deflectograph.

Summary Construction reports feed efficiently into your Pavement Management Systems (PMS), providing a comprehensive construction overview of the network. Your network is segmented into units of similar construction, with average layer thicknesses reported for each. In tandem with other asset data this enables scheme selection to be objectively prioritised, asset valuation to be calculated and budgets allocated.

Detailed Construction reports give a higher resolution picture of the network. The format is data rich, with information reported on a sub metre scale. Many clients choose to have this information reported graphically as long sections which provide an instant understanding of the underlying construction.



Why REVEAL?

- Enhance asset valuation
- Enhance best value strategy
- Improve road maintenance planning
- Enhance understanding of other pavement test data
- Target cores to maximise their value

The REVEAL story so far

Following over a decade of leading the way in GPR surveying, Aperio launch the REVEAL Construction Database, the latest step in making pavement construction information more accessible to engineers.

Throughout the past year Aperio and RoadwareDCL teams have been surveying the UK trunk and local road networks on a non-commissioned basis to populate the database. Lead clients from local government and Highways Agency areas have been using the system, which went online in July 2005. National coverage throughout the UK is planned.

Parallel surveys have been taking place in New Zealand and Germany and the programme is set to be rolled out across more countries in the next year.

- Calibrate dynamic test data such as FWD and deflectograph
- Help interpret surface condition data such as rutting and cracking
- Design appropriate treatment options
- Generate more reliable whole life cost comparisons for maintenance schemes.

