

PAVEMENT ENGINEERING · ASSET MANAGEMENT

# Pavement Engineering & Road Assets







Falling-weight and heavy-weight deflectometer testing, airport PCN evaluation, and road-asset management systems — for MPW, MOI, DGCA, and municipal road authorities.

FWD / HWD Testing · Airport PCN · Road Asset Management · AASHTO 1993 / Mechanistic



## Roads and runways — engineered, tested, managed.

Vision International operates a Dynatest FWD/HWD fleet — supporting structural pavement evaluation across Kuwait's road network for MPW, airport runway PCN reporting for DGCA, and road-asset management programmes for municipal authorities. We deliver back-calculated layer moduli, remaining structural life, overlay-design recommendations, and full asset-management dashboards — integrating FWD, IRI roughness, and visual condition data into a single decision-support framework that turns routine inspection into prioritised investment.

 <p><b>FWD / HWD Testing</b> Dynatest 8002 FWD and HWD testing — back-calculated layer moduli for AASHTO and mechanistic design.</p>	 <p><b>Airport PCN Evaluation</b> ICAO-aligned ACN-PCN evaluation, runway structural assessment — DGCA and aerodrome submittal.</p>	 <p><b>Roughness &amp; IRI</b> ARRB walking profiler and inertial profilometer — IRI roughness and PSI condition surveys.</p>
 <p><b>Pavement Condition</b> Automated and manual distress surveys — PCI calculation and ASTM D6433 compliance.</p>	 <p><b>Asset Management System</b> Pavement management system implementation — Deighton, AgileAssets, and custom dashboards.</p>	 <p><b>Overlay Design</b> Mechanistic-empirical overlay design (Pavement-ME) and AASHTO 1993 — extended pavement life.</p>

HOW WE WORK

## From Network Survey to Investment Plan



- 1 Inventory** Network inventory and segmentation.
- 2 Test** FWD, IRI, and condition surveys.
- 3 Analyse** Back-calculation and PCI scoring.
- 4 Plan** Multi-year prioritised investment plan.
- 5 Implement** PMS dashboard handover and training.

**Pavement, runway, or asset-management programme?**  
FWD fleet · ICAO-aligned PCN · Asset management dashboards · Engagement within 5 working days.

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# Full Pavement Engineering Offering

Dynatest FWD

ICAO-Aligned

AASHTO 1993

Pavement-ME

## STRUCTURAL TESTING

- Falling-Weight Deflectometer (FWD)
- Heavy-Weight Deflectometer (HWD)
- Back-calculation (ELMOD, EVERCALC)
- Layer-moduli profiling
- Remaining structural life
- Pavement-ME mechanistic design
- AASHTO 1993 design and overlay

## FUNCTIONAL TESTING

- International Roughness Index (IRI)
- Mean Profile Depth (MPD)
- Skid resistance (BPT, SCRIM)
- Friction and texture testing
- Visual distress (PCI per ASTM D6433)
- Rut depth and macrotexture surveys

## AIRPORT PAVEMENTS

- ACN-PCN evaluation (ICAO Doc 9981)
- Runway and taxiway structural assessment
- Apron and stand structural studies
- FAA / DGCA-aligned reporting
- Pavement strength rating reviews
- Aerodrome maintenance plans

## ASSET MANAGEMENT

- Pavement management system setup
- Deighton and AgileAssets implementation
- Multi-year investment optimisation
- Network-level performance models
- GIS-based road-asset dashboards
- Performance-based contract advisory

## The Vision Difference — Why Clients Choose Us



### Integrated Delivery

Field crews, senior engineers, and accredited ISO 17025 laboratory under one roof — no hand-off delays, no subcontractor gaps.



### Engineer-Led Reports

Every deliverable is signed by a senior chartered engineer — findings interpreted for design, not delivered as raw data.



### Schedule-Driven

Owned equipment, owned laboratory, owned teams. We hit oil & gas, MPW, KOC, and EPC schedules — every time.

## Sectors We Serve

Ministry of Public Works

Aerodromes / DGCA

Municipalities

Industrial Estates

Oil & Gas Logistics

Government

2004

ESTABLISHED

2000+

PROJECTS DELIVERED

4

ISO CERTIFICATIONS

Kuwait

& GCC COVERAGE