

INFRASTRUCTURE · DESIGN ENGINEERING

# Infrastructure Design Engineering







Sewerage, storm-water, water-supply, and road network design — InfoWorks ICM, SewerGEMS, and SWMM modelling for Kuwait Municipality, MPW, and PAHW programmes.

InfoWorks ICM · SewerGEMS · SWMM 5 · MPW & PAHW Aligned



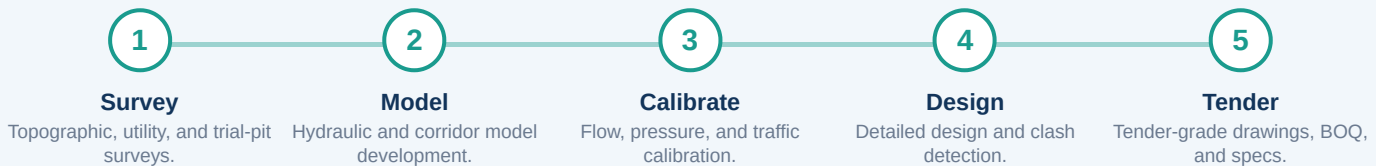
## Networks engineered for the next 50 years.

Vision International delivers infrastructure design engineering for utility networks across Kuwait — sewerage and pump-station design for MPW, storm-water master plans for Kuwait Municipality, water-supply expansions for MEW, and road-corridor design for PAHW housing programmes. Our team operates InfoWorks ICM, SewerGEMS, and SWMM 5 — calibrated against historical rainfall and inflow-and-infiltration data — and integrates designs with our in-house geotechnical and survey functions to deliver fully constructible drawings on the first revision.

 <p><b>Sewerage Design</b></p> <p>Gravity sewer, force main, and pump-station design — InfoWorks ICM and SewerGEMS hydraulic modelling.</p>	 <p><b>Storm-Water Master Plans</b></p> <p>SWMM 5 catchment modelling, design-storm analysis, and SuDS integration — Kuwait Municipality compliant.</p>	 <p><b>Water Supply Networks</b></p> <p>Distribution main sizing, pressure-zone analysis, and reservoir design — Bentley WaterCAD/GEMS.</p>
 <p><b>Road Corridor Design</b></p> <p>Geometric design, pavement design, and intersection layouts — AutoCAD Civil 3D and PTV Vissim integration.</p>	 <p><b>Hydraulic Calibration</b></p> <p>Network calibration against flow and pressure monitoring data — defensible design assumptions.</p>	 <p><b>Construction Drawings</b></p> <p>Tender-grade drawings, BOQs, and specifications — MPW, MEW, and PAHW format compliance.</p>

HOW WE WORK

## From Master Plan to Tender Drawings



**Master plan, redesign, or tender package?**  
 InfoWorks, SWMM, and Civil 3D integrated workflow · MPW / MEW / PAHW format-ready · 4-week pilot package.

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# Full Infrastructure Design Service Offering

MPW Approved

MEW Compatible

PAHW Aligned

Bentley & Autodesk

## WASTEWATER & DRAINAGE

- Gravity sewer hydraulic design
- Force-main and pump-station design
- Sewer rehabilitation prioritisation
- Inflow-and-infiltration studies
- Storm-water catchment modelling
- Detention and retention basin design
- SuDS and green-infrastructure integration

## WATER SUPPLY

- Distribution-main sizing
- Pressure-zone optimisation
- Storage reservoir design
- Booster-station hydraulic design
- Fire-flow and demand analysis
- Network-leak prioritisation

## ROADS & MOBILITY

- Geometric road design
- Intersection and roundabout design
- Pavement structural design
- Drainage and curb design
- Traffic micro-simulation (Vissim)
- Sustainable transport integration

## DELIVERABLES

- Hydraulic and traffic models (calibrated)
- Tender-grade drawings (MPW/MEW)
- BOQs and specifications
- Engineering design reports
- GIS network and asset packages
- Engineer-signed deliverables

## 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

Oil & Gas

Infrastructure

Marine & Ports

Buildings & Towers

Industrial

Government

2004

ESTABLISHED

2000+

PROJECTS DELIVERED

4

ISO CERTIFICATIONS

Kuwait

& GCC COVERAGE