

Road Infrastructure Audits



Automated End-to-End Sign Audit Solution

AI-powered asset mapping solution for city councils & asset managers responsible for roads & transportation



Cost effective & Extremely Portable

Extremely easy-to-use at an affordable cost enabling widespread coverage of all areas



Productivity Boost

Solution ensures safe & informed road conditions for citizens and commuters



"Welcome to the data fusion evolution – We use lightweight Machine Learning-capable devices and power our solutions with software that streamlines the extraction of hyper-accurate data, both statically and in motion, from all urban arterial roads and motorways. We do this with a combination of high-resolution cameras, multi-spectral vision, GPS and video analytics."

Subhash Challa, CEO, SenSen



"Maintaining a comprehensive infrastructure audit is important for us to provide a better experience for commuters."

Adelaide City Council, Australia



Solution Overview



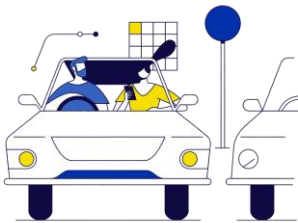
Our solution captures photographs of all assets & infrastructure, keeping a comprehensive record as it detects road conditions, markings, traffic poles, electric poles & signs. An alert is generated whenever an anomaly is spotted and all data is imported into a client's Geographic Information System (GIS) package.

HARDWARE DESIGN

- Unique roof-mounted enclosure (POD) compatible with all vehicle types
- Centimetre-accurate GPS with RTK corrections
- High-resolution cameras which can operate day & night

EDGE FEATURES

- SenSen's in-house road asset detection software
- Patented state-of-the-art road asset GPS location
- Recorded high-resolution videos
- Seamless integration with SenSen's cloud-hosted back office (BOS)



BACK-OFFICE FEATURES

- Secured relational database for central management of assets
- Review interfaces for asset audits
- Survey of assets by precise location
- Drawing enforcement zones with business rules
- APIs to export the audited data to GIS systems

KEY FEATURES

- Gather precise data on the condition of all road assets, including parking signs & road markings
- Maintain a database of assets for preventative maintenance
- Reduce revenue leakage due to poorly maintained assets
- Identify location & zone ID using a combination of GPS & database of reference images stored
- Generate real-time alerts when objects other than vehicles block public spaces



ALL-IN-ONE SOLUTION

- Low cost, rapid deployment, operation ready
- Fully automatic end-to-end solution
- Edge processing & cloud data central management

PRODUCTIVITY & SAFETY

- Automate monotonous, laborious tasks
- Minimize time to conduct surveys
- Eliminate need for foot patrols



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