

Road Infrastructure Audits



Automated end-to-end signage asset audit solution

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



Cost effective and extremely portable

Extremely easy-to-use at affordable cost.
Expand the coverage to all areas



Maintenance

Solution ensures safe and informed driving for citizens and commuters.



"Enter 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 or in motion, on urban arterial roads and motorways by combining high-resolution cameras, multi-spectral vision, GPS and video analytics."

Subhash Challa, CEO - SenSen Networks



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

Adelaide City Council, Australia

Why Road Infrastructure Audits

Solution Overview



Our solution captures photographs of all assets and infrastructure, and keeps a record of as detects road condition, road painting, traffic poles, electric poles, and signs within city councils'. It generates an alert whenever an anomaly is spotted and imports data into a City council's Geographic Information System (GIS) package.

HARDWARE DESIGN

- Unique roof mounted enclosure (POD), which is compatible with every vehicle
- Centimetre-accurate GPS with RTK corrections.
- High resolution cameras which can operate day and night.

EDGE FEATURES

- SenSen's in-house road asset detection software
- Patented state-of-the-art road asset GPS estimation
- 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

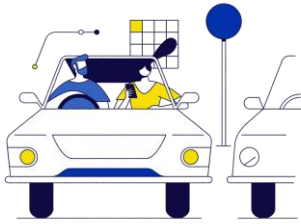
- Gathers exact data on the condition of the road asset (parking signs, road condition, painting etc).
- Maintain a database of assets in order to have them in functional condition.
- Reduce revenue leakage for council because of ill maintained assets.
- Identify the location and Zone ID using a combination of GPS and database of reference images stored
- Generate real-time alerts when objects other than vehicles block the spaces managed by city council or land transport authorities

ALL-IN-ONE SOLUTION

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

PRODUCTIVITY & SAFETY

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



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