

strategies infrastructure channels
network supply-chain embedded
enhanced automated
real-time advanced efficient



Intelligent Fleet Logistics

Transportation companies cope with fluctuating demands, changing delivery schedules and varied operational constraints to efficiently manage their operations. It can be challenging for them to find new ways to increase efficiency and shave dollars off their bottom line. NICTA is developing technology to help these operators optimise their mobile assets and resources under diverse constraints so that cost savings can be realised.



The Features

- Efficient real-time tracking and tracing of vehicles
- Intuitive program integrated with mobile devices
- Automated forward-planning of next day's asset allocation
- Real-time analysis of diverse what-if scenarios
- Accurate prediction of operational issues
- Enhanced communication channels between drivers and managers
- Integrating TMS as part of a wider supply chain optimisation.

Who is helped?

Customers can anticipate a 15-20% saving through more efficient asset and resource utilisation. Automated planning of vehicles and crews to reduce distance, time, fuel costs and CO2 emissions are key aims of the Intelligent Fleet Logistics Project. Our users are transportation companies that operate fleets of up to 3,000 assets with a varied operational plan.

The NICTA Approach

Systems for fleet logistics companies need to both accurately model their operations and provide savings through efficient automated planning. Our initial software product is a Transportation Management System (TMS) designed to be integrated with the existing client software infrastructure and configured to meet their exact transportation needs. Forthcoming solutions will integrate TMS models as part of a wider supply chain network optimisation.

Contact Details

Dr Andrew Verden
Project Leader
Intelligent Fleet Logistics
Email: Andrew.Verden@nicta.com.au



Managing Complexity

From imagination to Impact