

strategies  
data validation  
recognition  
signage  
navigation  
up-to-date  
use-inspired  
digital  
low-cost  
advanced  
reliable  
algorithms



# AutoMap

## Digital Data for GPS Mapping

In the ever-growing GPS navigation market, consumers expect maps that are accurate and up-to-date. Keeping these maps current is a labour intensive, costly and time-consuming exercise for map producers. NICTA's technology automatically analyses video to help update maps ensuring drivers can better rely on their GPS system to give them critical information from speed limits to traffic restrictions.



### The Features

- Automatic recognition and geo-positioning of road and brand advertising signs
- A large and rapidly growing catalogue with more than 100 different road signs from various countries available today with more on the way
- A simple and straight forward service model
- Additional signs can be easily added to our catalogue to address specific client needs.

### Who is helped?

This technology will aid digital map publishers who benefit from lower cost map data because of much higher analysis speeds and sign detection rates than current manual methods. Consumers will also benefit by having access to more accurate maps on their mobile navigational devices.

### The NICTA Approach

The AutoMap technology utilises advanced computer vision algorithms to automatically extract signage and point of interest map data from video or still images captured by map and road asset survey vehicles. Our analysis system also offers the ability to rapidly and economically mine existing archived video for new signage data. It is highly scalable and can produce data outputs in a range of formats to integrate with existing map and sign inventory assembly operations.

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