G-TO-MAP (GPS Trips, Occupancy, Mode and Purpose) is an automated GPS data processing software, which can process data streams from a GPS device (BTT-08) that has been used to track a person’s or a vehicle’s movement.

The software was developed at the Institute of Transport and Logistics studies (ITLS) in the University of Sydney Business School by Jun Zhang and Wen Liu, using a combination of Python and GISDK and is operated on the Maptitude software platform. Other GPS devices and smart phone data also could be processed by using an extra data regulator program.

There are several processing steps for the software:
- Split the data stream of locations into individual trips, visualise trips on Google Map
- Identify the probable mode of travel being used for person trips
- Detect car share, and
- Identify the likely purpose of travel

There are several processing steps for the software: The software can be run under windows XP and windows 7 and has been used for a large number of projects including:
- The Vital Travel Survey for Future Planning, Dunedin, New Zealand, 2014
- Stuttgart Services Study, University of Ulm, Germany, 2014
- ARC Discovery Project, Travel time budget analysis from multi-day and multi-year data, 2012-2014
- North Adelaide Travel Study, South Australia Department of Planning, Transport, and Infrastructure, 2012-2014
- GPS-Based Household Interview Survey for the Cincinnati, Ohio Region, Ohio Department of Transportation Office of Research and Development and the U.S. Department of Transportation, Federal Highway Administration, 2009-2011
- National Travel Behaviour Long Term Monitoring invitation, 2007-2012
- South Australia Short Term Monitoring Travel survey, 2005-2007

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