

# RIITS

## Regional Integration of Intelligent Transportation Systems

Waze



# RIITS and Waze as regional resources

- Waze
  - Sublicense
  - Community
  - Southern California 511
- Infrastructure
  - Microsoft Azure, Talend, Tableau
  - Transportation data storage
  - Fiber
- Administration



# Waze Sublicense

## WAZE LICENSE AGREEMENT

FROM

LOS ANGELES COUNTY METROPOLITAN TRANSPORTATION AUTHORITY

TO

LOS ANGELES COUNTY SERVICE AUTHORITY FOR FREEWAY EMERGENCIES

This Waze License Agreement (the "Agreement") is between the Los Angeles County Metropolitan Transportation Authority ("LACMTA") in its capacity as the Administrator of the Regional Integration of Intelligent Transportation Systems ("RIITS"), located at 1 Gateway Plaza, Los Angeles, CA 90012 and the Los Angeles County Service Authority for Freeway Emergencies ("LA SAFE"), a government agency, located at 1 Gateway Plaza, Los Angeles, CA 90012. This Agreement will be effective on the last date of signatures below (the "Effective Date").

### Recitals

**WHEREAS**, LACMTA and LA SAFE (individually a "Party" and collectively the "Parties") desire to enter into this Agreement to set forth their understanding and respective responsibilities;

**WHEREAS**, Google, Inc. ("Google") operates a mobile, real-time traffic and navigation service called "Waze";

**WHEREAS**, Waze collects traffic incident and road-closure data in various cities, including cities within the Territory;

**WHEREAS**, data source agencies, LACMTA, LA SAFE, City of Los Angeles, Department of Transportation ("LADOT"), and various other public agencies (collectively referred to as "Source Agencies") have established RIITS to exchange real-time transportation data, including, but not limited to, traffic incident and road-closure data collected by the Source Agencies in the Territory, as defined below in Section 1, (the "Transportation Data");

**WHEREAS**, a Configuration Management Committee ("CMC") was established by the Source Agencies to oversee RIITS;

**WHEREAS**, the CMC named LACMTA the RIITS Administrator and delegated to LACMTA as the RIITS Administrator the authority to administer, maintain, operate, manage and monitor RIITS access; codify system changes, process standard service agreements with third parties, and enforce the terms and conditions of the service agreements;

**WHEREAS**, LACMTA, in its capacity as the RIITS Administrator, and Google entered into a Transportation Data Cross-License Agreement on November 4, 2014 whereby Google licensed use of the Waze Data, as defined below in Section 1, to LACMTA and permits LACMTA to sublicense Waze Data to Government Agencies ("Transportation Data Cross-License Agreement");

**WHEREAS**, LA SAFE is a Government Agency that has expressed an interest in obtaining Waze Data and Brand Features, as defined below in Section 1, for the Territory;

**WHEREAS**, Google has approved LA SAFE to receive, access, and use Waze Data under the Transportation Data Cross-License Agreement;

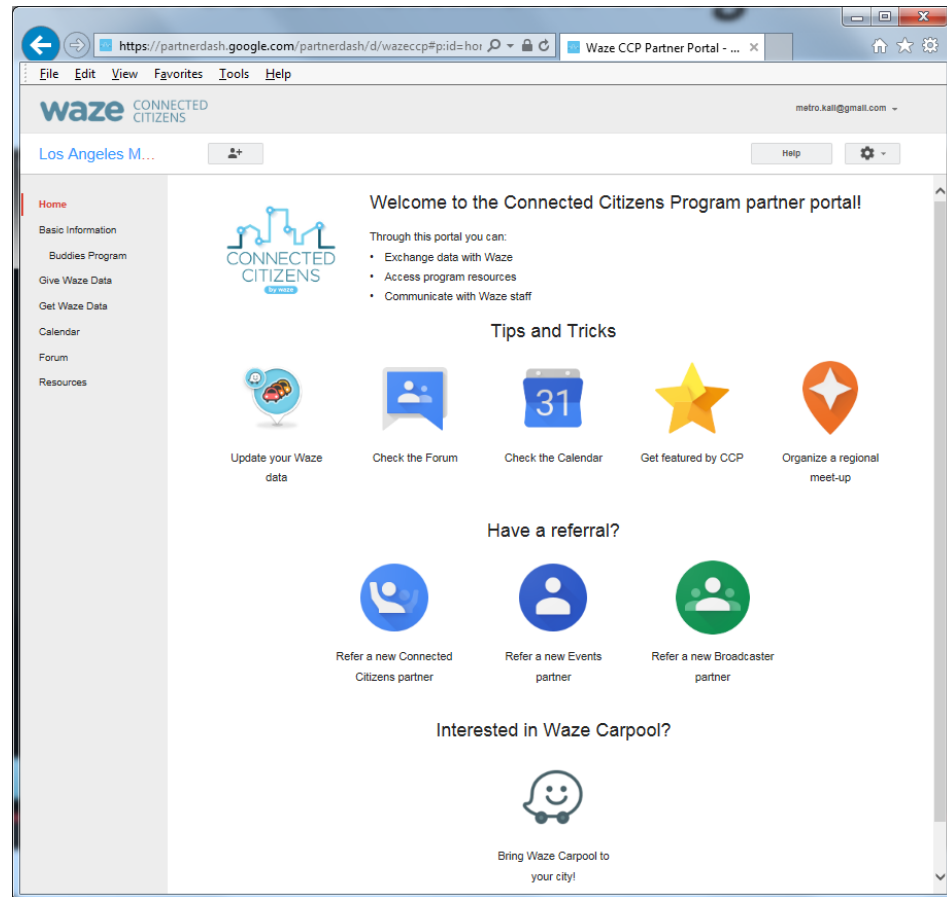
**WHEREAS**, Subject to the terms of this Agreement and per the Transportation Data Cross-License

- License
- Sublicense
- Joint Marketing
- Press Releases
- Attribution
- Data Exchange
- Joint Indemnification

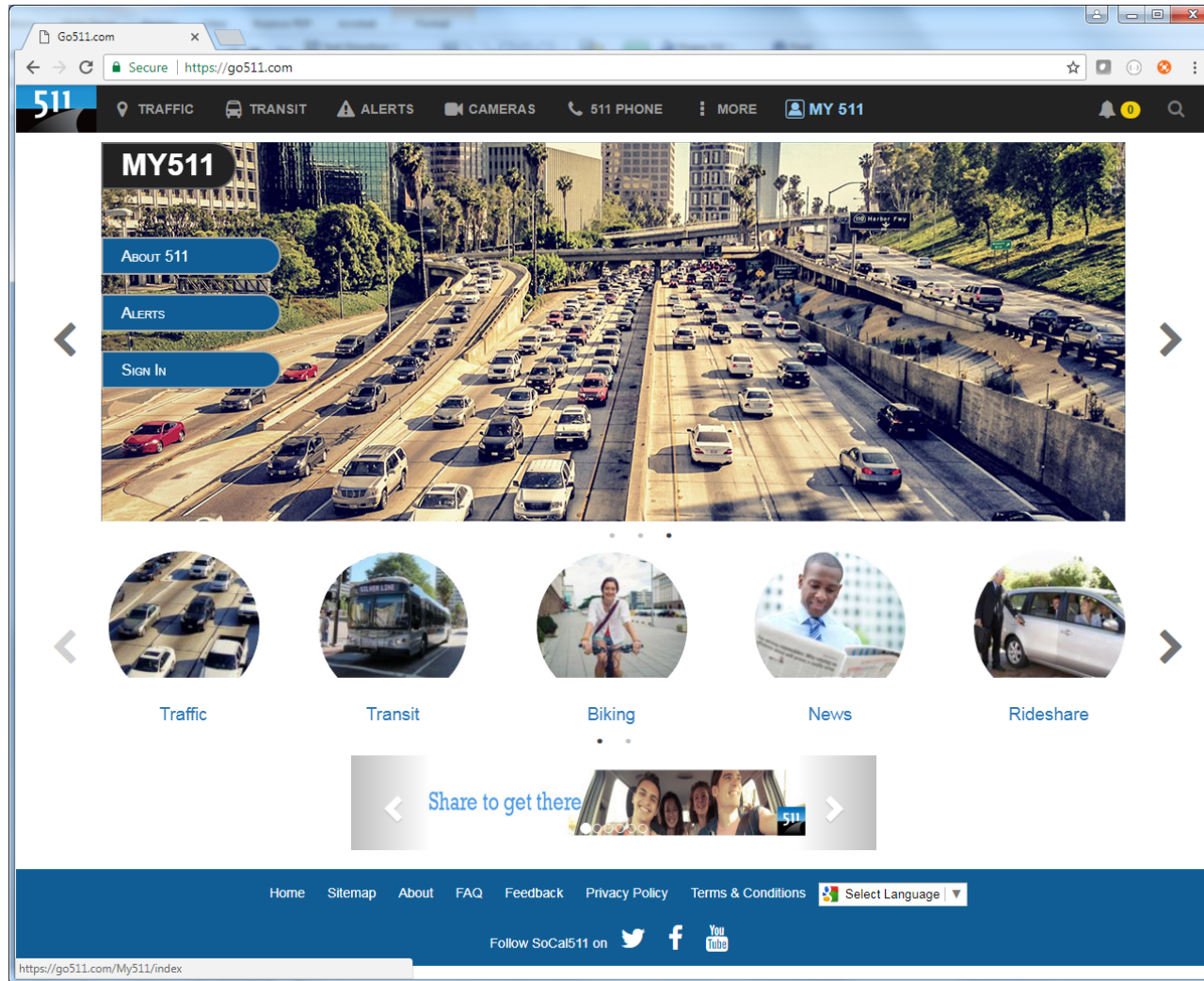


# Connected Citizens Program Community

- Partner Portal
- Case Studies
- Exchange Data
  - Road Closures
  - Incidents
  - Unique
  - Major Traffic Events
- Fun



# Southern California 511



# Measure Up



## Project Fact Sheet

### Background

Over the years, the Los Angeles County Metropolitan Transportation Authority (Metro) has been closely collaborating with its local partner agencies to implement a wide range of arterial improvements including signal synchronization, ITS investments, and bus speed improvements to improve mobility and reliability in the County. Understanding how well a transportation system performs would greatly help target the right projects to address local and regional mobility and reliability needs.



In 2014, Metro conducted the Arterial Performance Measurement Framework initiative to assess the feasibility of developing a countywide Arterial Performance Measurement Program. The study demonstrated that the concept of a countywide Arterial Performance Measurement Program is feasible. To further provide a proof of concept, the Arterial Performance Measurement Pilot was initiated in 2017 to test a vendor analytical package within a subregion of Los Angeles County (LA County).

### Arterial Performance Measurement Pilot

The Arterial Performance Measurement Pilot will test the effectiveness of a performance monitoring analytical package for LA County's complex arterial and highway system. The purpose of this pilot is to evaluate an analytics package that could best serve LA County and its subregions. The objectives of this Pilot Project are to:

- Evaluate and test an Arterial Performance Monitoring Tool to assess arterial network performance.
- Conduct a pilot test based on a subregion in LA County.
- Utilize comprehensive arterial volume and travel time data.
- Collect user group input and assessments.
- Demonstrate applicability for other subregions.

Using a combination of recent third party speed data and volume data collected as part of the Countywide Baseline Conditions project, the Pilot Project will evaluate the performance of arterials

# Infrastructure

The screenshot displays the Microsoft Azure portal interface for a virtual machine (VM) named 'ac1-mmapi-01'. The browser address bar shows the URL: <https://portal.azure.com/#@riitstechriits.onmicrosoft.com/resource/subscriptions/c...>. The user is logged in as 'fogelk@riits.net'.

**Virtual Machine Details:**

- Resource group: khangd/ac1-mmapi-01
- Status: Running
- Location: West US
- Subscription: khangd/Pay-As-You-Go
- Computer name: ac1-mmapi-01
- Operating system: Linux
- Size: Standard DS2 v2 (2 vcpus, 7 GB memory)
- Public IP address: [Redacted]
- Virtual network/subnet: [Redacted]
- DNS name: [Redacted]

**Performance Metrics (Last 1 hour):**

- CPU (average):** 1.81% (Percentage CPU)
- Network (total):** 260.37 MB (Network In) and 12.84 MB (Network Out)

The left sidebar shows navigation options: Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problem, SETTINGS (Networking, Disks, Size, Security (Preview), Extensions, Availability set, Configuration, Properties, Locks), and a search bar.



# Administration

- Configuration Management Committee (CMC)
  - RIITS Administrator, Metro
  - Coordination
  - Collaboration
- Metro procurement
  - Procure goods and services to maintain transportation data in the Region.
- Management
  - Oversight, review, and approvals





# Administration

- Metro Intelligent Transportation System (ITS) Policy
- Regional ITS architectures
- RIITS policies
  - Memorandums of Understanding (MOU)
  - Configuration Management Committee (CMC)
    - Bylaws
    - Procedures
  - Data agreements



# Thank you

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