Traffic Engineering Lab

International Traffic Database (ITDb)

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traffic measurement, data availability, data warehousing
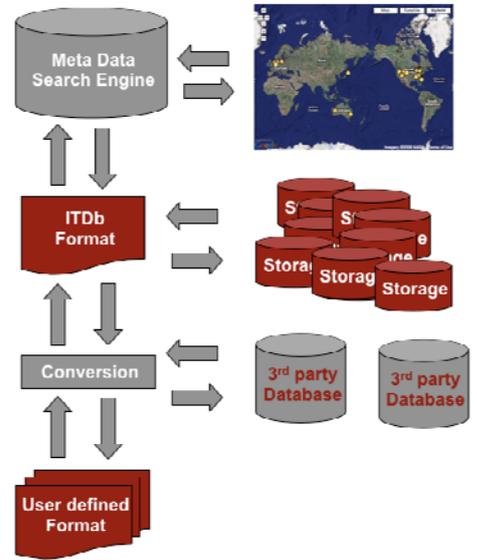
Background

Gathering real life data, for whatever type of use, is a time consuming job. A lot of data is measured and stored in several places and different formats around the world. While a lot of it is not used, other institutions gather similar data on different locations or, worse, on the same ones. In this way a lot of money and time is spend unnecessary. Thus, the aim of the International Traffic Database (ITDb) project is to provide traffic data to various groups (researchers, practitioners, public entities) in a format according to their particular needs, ranging from raw measurement data to statistical analysis.

Method

The International Traffic Database project provides standardized Metadata and traffic data structure and the whole range from raw to processed data in various levels for the usage in research, calibration, validation and performance analysis.

Concerning the data storage, it is a necessity to provide standardized Metadata to enable several parties to use traffic data and to ensure that this data can be shared among them. Metadata have two main purposes, including support of improved data quality; and ensuring the longevity of data by documenting who, when, where, why, and how the data was collected. The major contribution of this work is the development of a standardized Metadata set for traffic measurement data and flexible formats to ensure compatibility.

Application

ITDb Video

Location: Thai Ha - Chua Boc Intersection
Time: September 15th 2008 - 2pm (3 minutes)
Owner: Hoang Thuy Linh
Provider: International Traffic Database (ITDb)

Metropolitan Expressway
Route: 01, Section: 07, inbound
volume, speed, occupancy, events
(5 min aggregates)

ITDb datasheet

Data: Metropolitan Expressway, Route: 01, Section: 07, Direction: 01
Owner: Metropolitan Expressway Corp. Japan
Provider: International Traffic Database (ITDb) - www.trafficdata.info

Timestamp	Q [veh/5mins]	avg. Speed [km/h]		
200606050000	83	89.6		
200606050005	64	91.6		
200606050010	72	89.5		
200606050015	62	89.2		
200606050020	62	94		
200606050025	52	93.4		
200606050030	51	84.5		
200606050035	63	95	2	none
200606050040	57	91.1	1.9	none

ITDb data selection

Data: Metropolitan Expressway, Route: 01, Section: 07, Direction: inbound
Owner: Metropolitan Expressway Corp. Japan
Provider: International Traffic Database (ITDb) - www.trafficdata.info

Duration:
From: 2006 June 05
To: 2006 June 08

Data included:
Timestamp: ☑
Flow: ☑
Speed: ☑
Occupancy: ☑
Events: ☑

Conditions:
The usage of any downloaded data is for personal usage and research only. Any kind of comercial usage of the data is strictly prohibited.

I agree with the above terms ☑

ITDb

Data:		**Additional services:**
		Data access
Free accessible data		Data project management
Commercial data		Data hosting
		Metadata generation
Basic services:		Added value data generation
		Selling data
Data overview (free of charge)		Data cleansing
Data provision (free of charge)		Data mining

Contact

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