May 6, 2013

The Codebase IS the Deliverable: Collaborative Software Development for Modelers

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The Codebase *is* the Deliverable: Collaborative Software Development for Modelers

Lisa Zorn, Elizabeth Sall, Dan Tischler – SFCTA
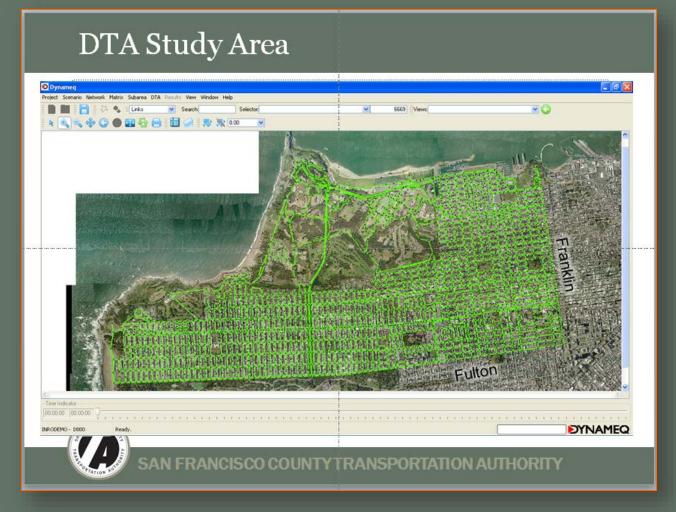Renee Alsup, Gregory Erhardt – Parsons Brinckerhoff

Why *is* the codebase the deliverable?
Some history...

Fall 2009: Initial DTA model developed for Doyle Drive ramp closure study

Why *is* the codebase the deliverable?
Some history…

Summer 2010– 2011: DTA Model Expansion for Geary DTA

SF DTA Development:
Current San Francisco DTA Subarea

Now: NW Quadrant
Van Ness / Fulton

200 Internal Zones
60 External Zones
3,000 Nodes
7,000 Links
240 Signals
83 Transit Lines

Future: Entire City
North of Cesar Chavez

Why *is* the codebase the deliverable?
Some history…

New Approach

Previously	Now
owner: consultant	owner: me
development: 1 consultant	development: 50/50 team
audience: staff	audience: any interested parties (you?)
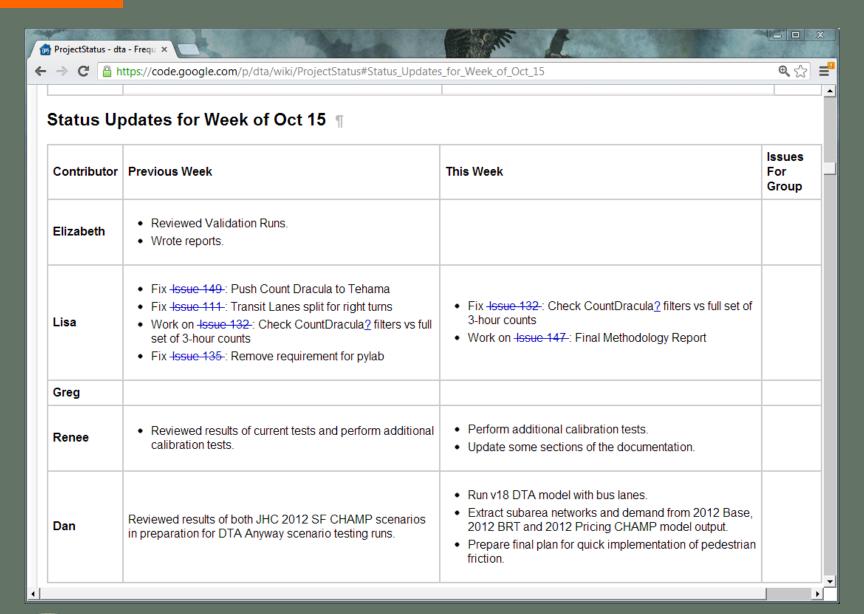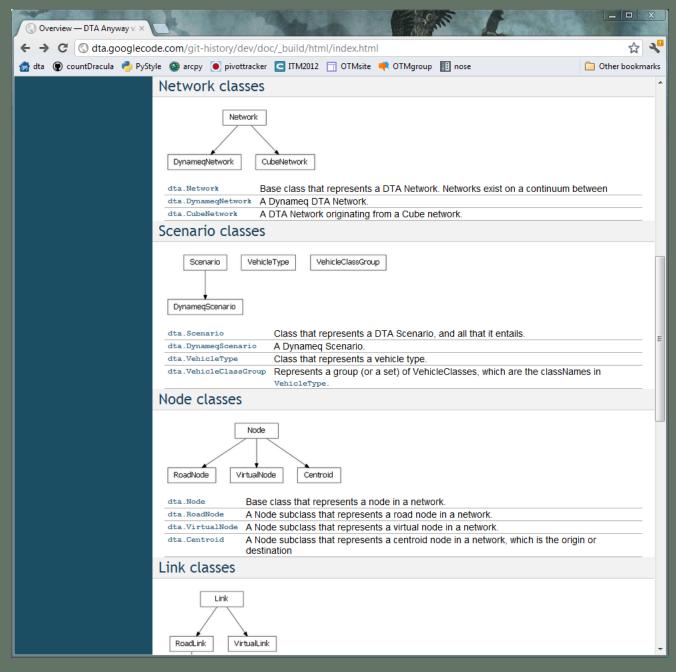
CompSci degree not required

Status Updates for Week of Oct 15 ¶

Contributor	Previous Week	This Week	Issues For Group
Elizabeth	• Reviewed Validation Runs. • Wrote reports.		
Lisa	• Fix ~~Issue 149~~: Push Count Dracula to Tehama • Fix ~~Issue 111~~: Transit Lanes split for right turns • Work on ~~Issue 132~~: Check CountDracula? filters vs full set of 3-hour counts • Fix ~~Issue 135~~: Remove requirement for pylab	• Fix ~~Issue 132~~: Check CountDracula? filters vs full set of 3-hour counts • Work on ~~Issue 147~~: Final Methodology Report	
Greg			
Renee	• Reviewed results of current tests and perform additional calibration tests.	• Perform additional calibration tests. • Update some sections of the documentation.	
Dan	Reviewed results of both JHC 2012 SF CHAMP scenarios in preparation for DTA Anyway scenario testing runs.	• Run v18 DTA model with bus lanes. • Extract subarea networks and demand from 2012 Base, 2012 BRT and 2012 Pricing CHAMP model output. • Prepare final plan for quick implementation of pedestrian friction.	

API
Class Structure

http://dta.googlecode.com/git-history/dev/doc/_build/html/index.html
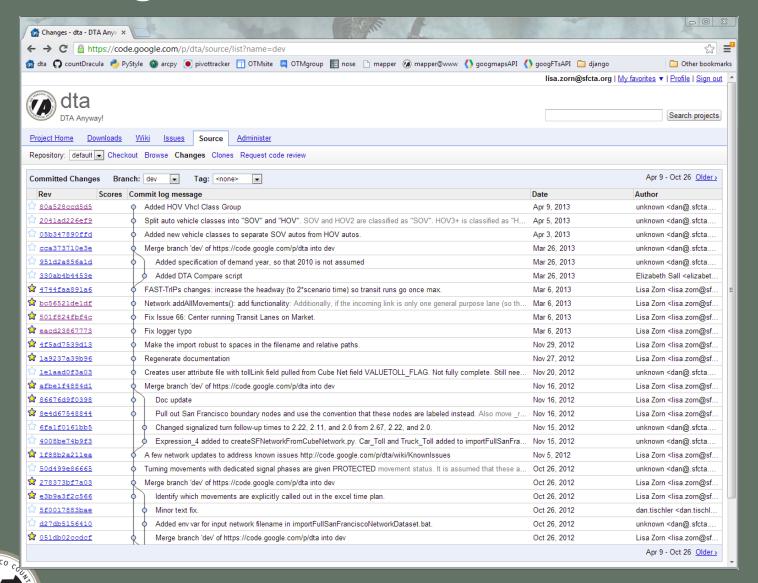
San Francisco Network Development
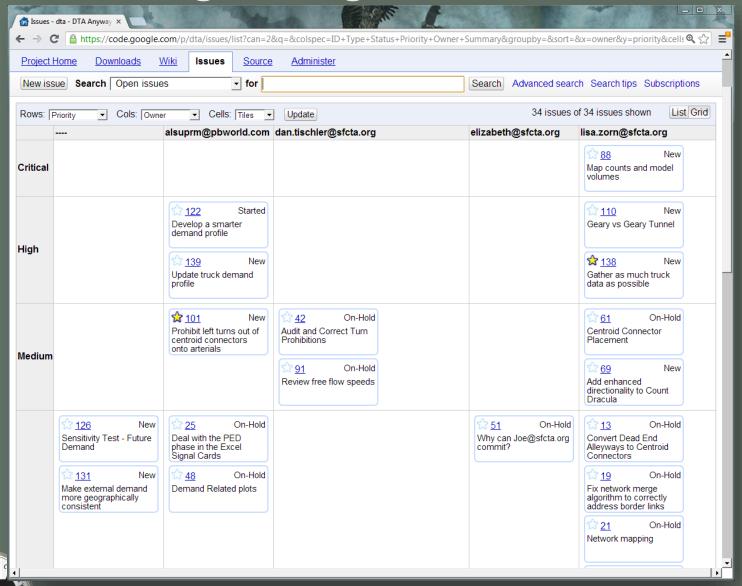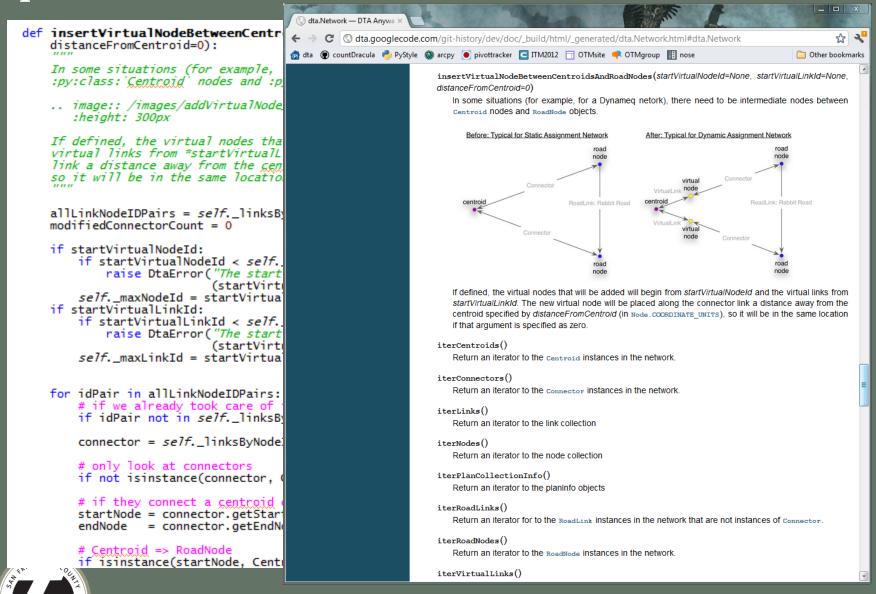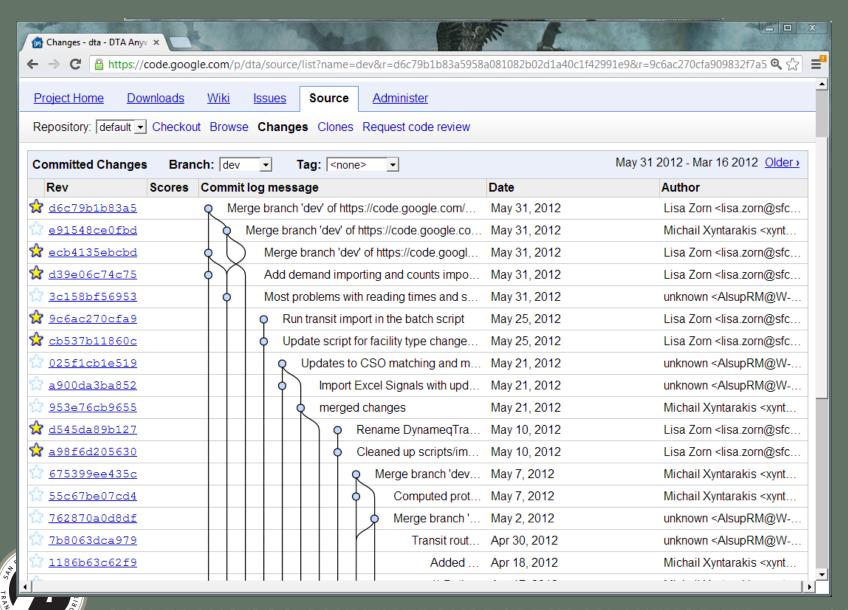
Git & Google Code

Issue Tracking & Google Code

Sphinx for Documentation

Code Review

Unit Tests

???

Questions/Ideas/Suggestions?

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