

TriMet Trip Roadmap 2017

Thoughts on where we're going. Both
OTP & trimet.org upgrade + MOD Grant

December 2016

Roadmap: Projects

- OTP 1.1.0 Upgrade ... Full Release in Jan
- Loader Project ... Ongoing
- Map Server Move ... 2017
- trimet.org Front End in React ... Initial Stages
- MOD Grant OTP React ... 2017
- MOD Grant GeoCoder ... 2017
- MOD Grant OTP Backend ... 2017
- OTHER – Route Landing pages ... yet prioritized
- OTHER – SUM on other pages ... yet prioritized

Roadmap: OTP 1.1.0 Upgrade

- Spent a good portion of 2016 working with Conveyal fixing bugs and getting functionality correct and back to normal.
- Retrofitted our current trip and map planner tools to work with both old and new OTP. Switching back and forth should just work (i.e., rollback)
- Testing with the call center past 2 months; start testing with TTO / fieldtrips this week (Dec 7th)
- Roll call to new OTP in Dec/Jan ... 2 weeks later or so later we'll roll public site to new OTP
- Sets us up for MOD Grant work next...

Roadmap: Loader Project

- In prep for OTP 1.1 and Server upgrades, rewrote / refactored the in-house scripts and tools that support OTP, GTFS and OSM loading
- More work needed here: SOLR loading, Pelias?, gtfs-rt, etc...

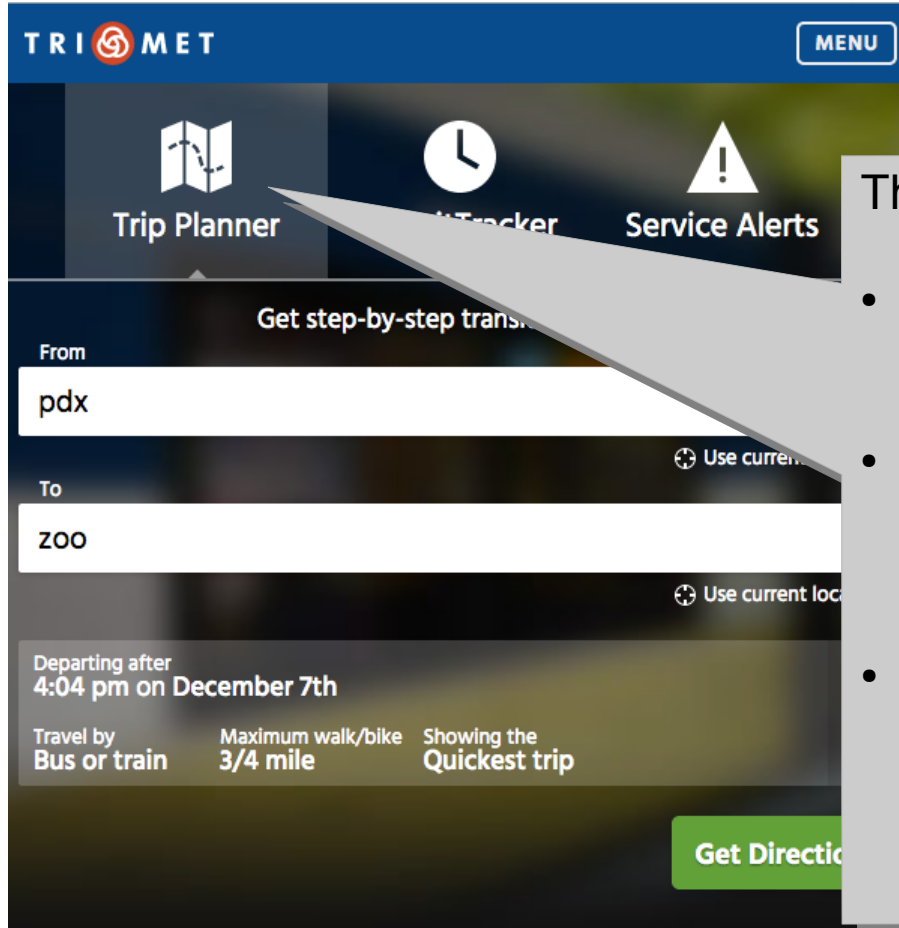
Roadmap: Server Move

- In 2017, I plan to work on moving off the map servers and into John Zimmerman's hosted env
- Pelias: this system will never be loaded on the maps servers, and land in JZ's environment.
- GeoServer / Boundless Suite: need to get away from TileCache ... so the Suite is a way to go
- Loader project: changes needed to build and load things in new environment. Plus new apps.

Roadmap: trimet.org Front End

- A contractor (Sean) has started rewriting the trimet.org Front End with React.js
- We need to eventually define how trimet.org will change with the MOD Grant deliverables
- Sean's React.js rewrite of trimet.org will have a placeholder for the trip planner tab
- Initial Question:
 - Will the MOD Grant deliver a fully functional trip component that fits into the placeholder tab?
 - Or will the MOD Grant deliver a component library that someone like Sean could use to build out a custom planner tool within the trimet.org Front End?

Roadmap: trimet.org Front End



The screenshot shows the trimet.org website's front end. At the top is a blue header with the 'TRIMET' logo and a 'MENU' button. Below the header is a navigation bar with three tabs: 'Trip Planner' (selected, with a map icon), 'Trip Tracker' (with a clock icon), and 'Service Alerts' (with a warning icon). The 'Trip Planner' tab is highlighted with a grey callout arrow. Below the navigation bar, the 'Trip Planner' section is visible, featuring a 'Get step-by-step trans...' link. The 'From' field contains 'pdx' and the 'To' field contains 'zoo'. Below these fields, it says 'Departing after 4:04 pm on December 7th'. At the bottom, it shows 'Travel by Bus or train', 'Maximum walk/bike 3/4 mile', and 'Showing the Quickest trip'. A green 'Get Directions' button is at the bottom right.

Things to look at:

- This is the current trimet.org front end, and the trip planner tab
- Do we ask for a React component that fits into this tab? (And is that realistic? ... this is a weighted question on multiple levels)
- Or do we rather have a new React.js component toolkit from the MOD Grant that allows us to *easily* build a custom trip widget for trimet.org?

Roadmap: trimet.org Front End

The screenshot shows the trimet.org Trip Planner interface. At the top, there's a blue header with the TRIMET logo and a MENU button. Below the header, there are three main navigation options: Trip Planner (selected), TransitTracker, and Service Alerts. The Trip Planner section shows a route from PDX to Zoo. The departure time is 4:12pm on Wednesday, December 7, 2016, using Transit. The fare for this trip is \$2.50 for adults, \$1.25 for youth, and \$1.25 for honored citizens. There are buttons for EDIT TRIP and PRINT. Below the fare, there are three options: Best bet (57 mins, 0 transfers), Option 2 (57 mins, 0 transfers), and Option 3 (57 mins, 0 transfers). The Best bet option is selected. The route details show: Go to Portland Int'l Airport MAX Station (Stop ID 10579), Board MAX Red Line to City Center & Beaverton (which continues as MAX Blue Line), and Get off at Washington Park MAX Station (Stop ID 10121) at 5:04pm. A map is visible at the bottom of the screen.

Things to look at:

- trimet.org is primarily a *text trip planner*, with a smattering of small map widgets
- The MOD Grant project is interactive map focused ... do we ask to build both?
- When David and I were originally talking about a new OTP / React project, it was more in the vein of a component toolkit.
- In that model, we'd get a generic interactive map, as well as tools to build custom apps

Roadmap: trimet.org Front End

- Conveyal is building a map replacement...
- Do we also use this map to replace mobilitymap.trimet.org?
- What about internal mapping needs? TriMet webapp? Alerts / reroute system?
- e.g., we have a lot of different mapping needs...how do we create a tool that can be leveraged to quickly build maps that integrates well with our back-end mapping infrastructure?

Roadmap: Pelias GeoCoder

- At this early date, we have options how we're going to fill functional *gaps* we have with Pelias.
- For example: we currently calculate an in / out of the TriMet district for Oregon DOR / TriMet Tax.
 - It might be trivial to configure Pelias to do the same thing ... so no big deal.
 - *Or* maybe it's not worth the effort to adapt Pelias in this way. If that's the case, we'll need to create a separate solution to calculate in/out on the fly.
 - For other technical gaps, we may find ourselves choosing to simply retire the existing function

Roadmap: OTHER

- Dave Whipple has asked IT about automating Route Landing Pages (and other pages) that are currently manually maintained. Not prioritized yet, but...
- We could add SUM data to other pages, like Stop Landing Pages:
 - nearest car2go / / uber / etc...
 - nearest BIKETOWN bike racks
- I asked ReachNow (BMW) if they have a developer api. Their marketing manager Alan.Bates@team.reachnow.com wants to talk.