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...
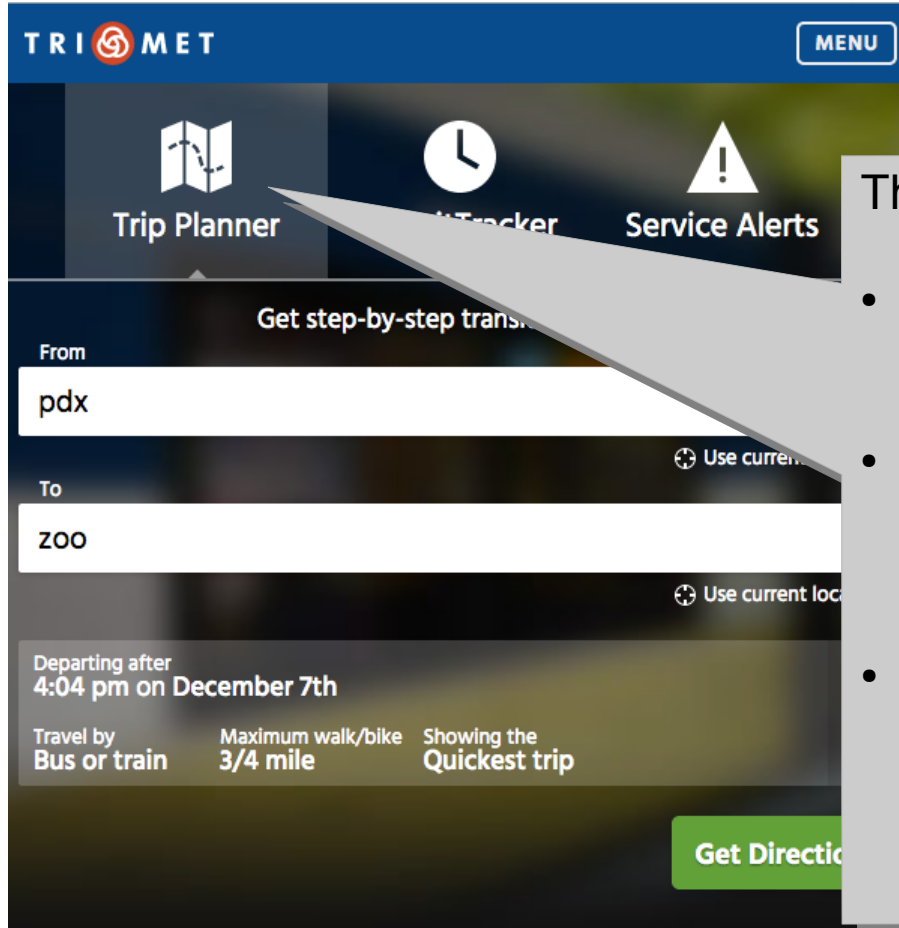
Roadmap: Server Move

- 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

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

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.