GeoCoder Project and TriMet

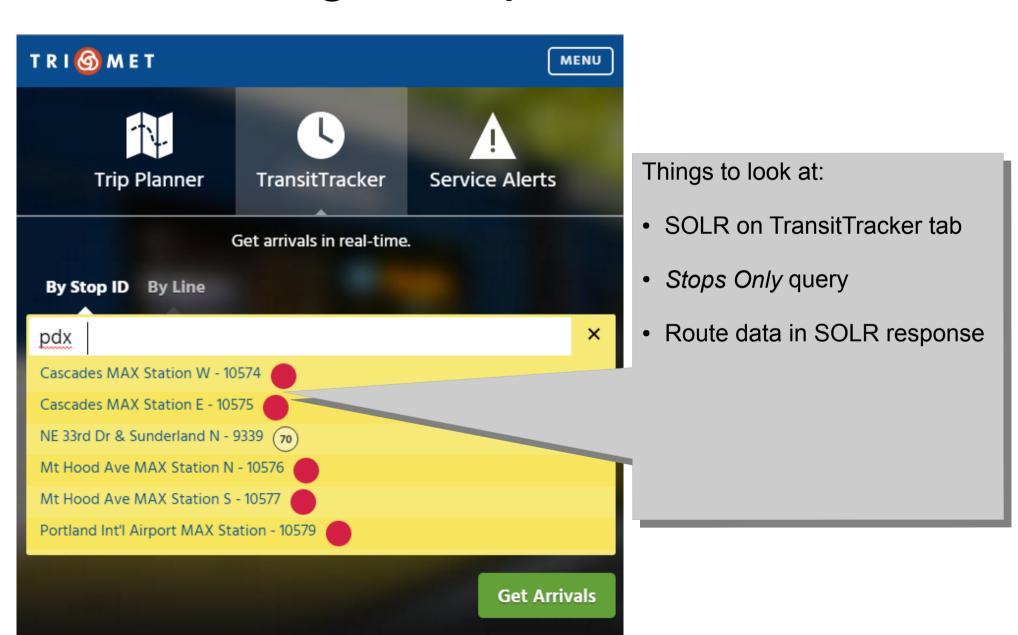
Thoughts on what we're going to need, both short-term development and long-term support

November 2016

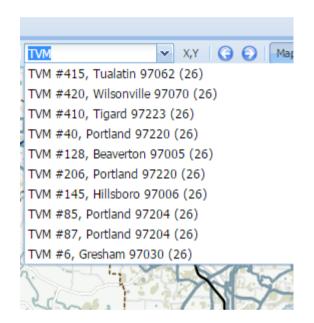
SOLR: current schema

- https://github.com/OpenTransitTools/loader/blob/ master/ott/loader/solr/conf/schema.xml#L129
- SOLR has fields for both Stop ID and Route ID
- SOLR has an *inclusive* search parameter, thus limiting to a sub-set of the index (Stops)
- And an exclude param hiding certain types (TVMs)
- SOLR returns fields for in/out TriMet boundary
- Type names can be queried against (Parks)
- Type boosting (Stops) and sorting (City)
- TriMet has apps (internal) that use the OSPN X &
 Y coords have to change those

trimet.org – Stop & Route info



Filter point types for different apps



Select a Uncertain location stop

We found multiple locations for: TVM

Select a location:

TUALITY FOREST GROVE HOSPITAL, Forest Grove

Select

Things to look at:

 In the internal map apps, we'll show things like TVMs (ticket vending machines)

Find st

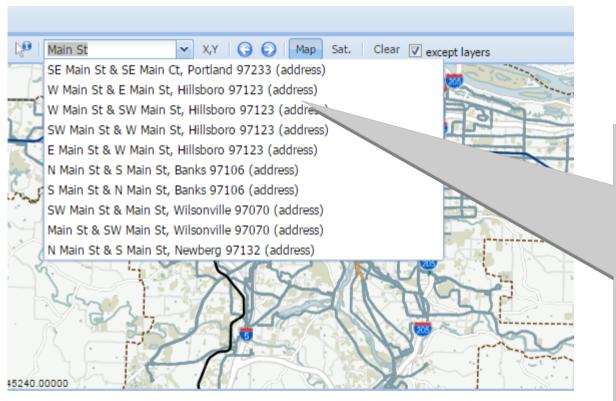
Conti

TVM

 The public doesn't care about searching on TVMs, so we filter them from public apps. Searching for TVM on a public site does not return the TVM list

 SOLR has both an *inclusive* search filter (e.g., Stop type), and an *exclude* filter that we can use to avoid certain types from the search.

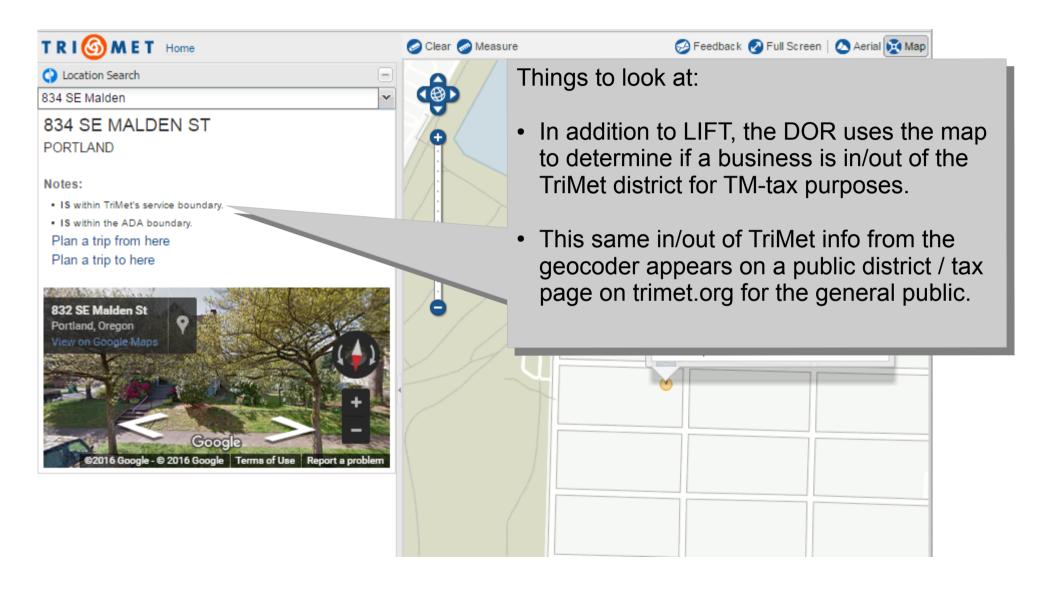
SOLR – city sorting



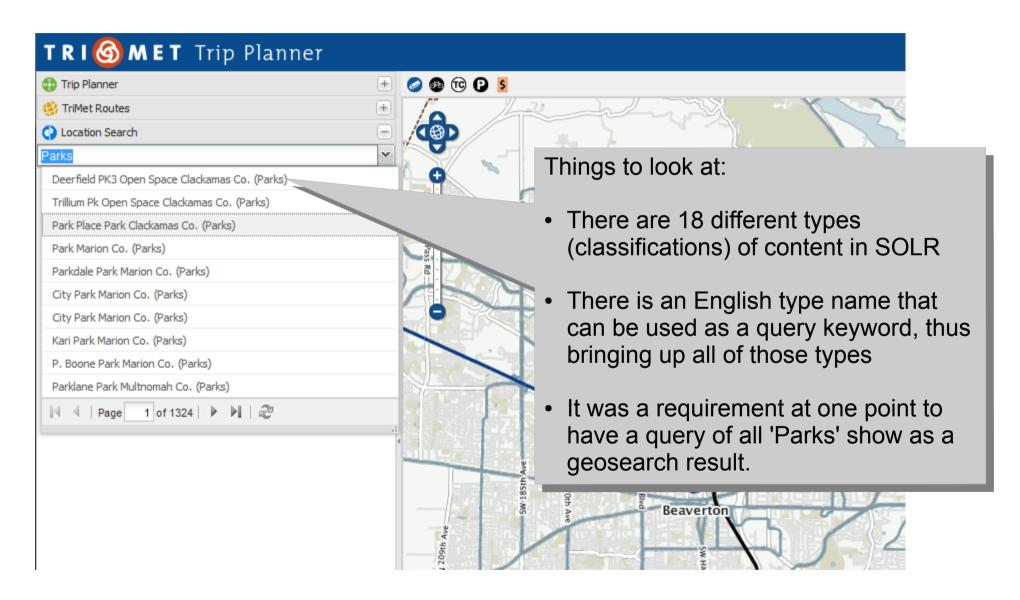
Things to look at:

 SOLR has a higher weight on Portland addresses compared to all other cities. Hillsboro, Gresham and Beaverton are higher than other cities, etc...

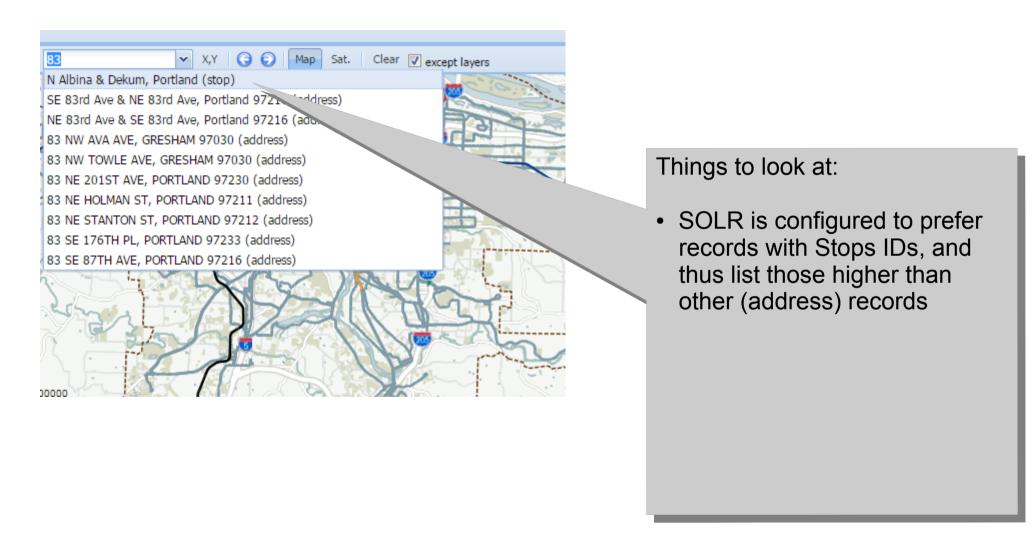
Mobilitymap's in/out Boundary Info



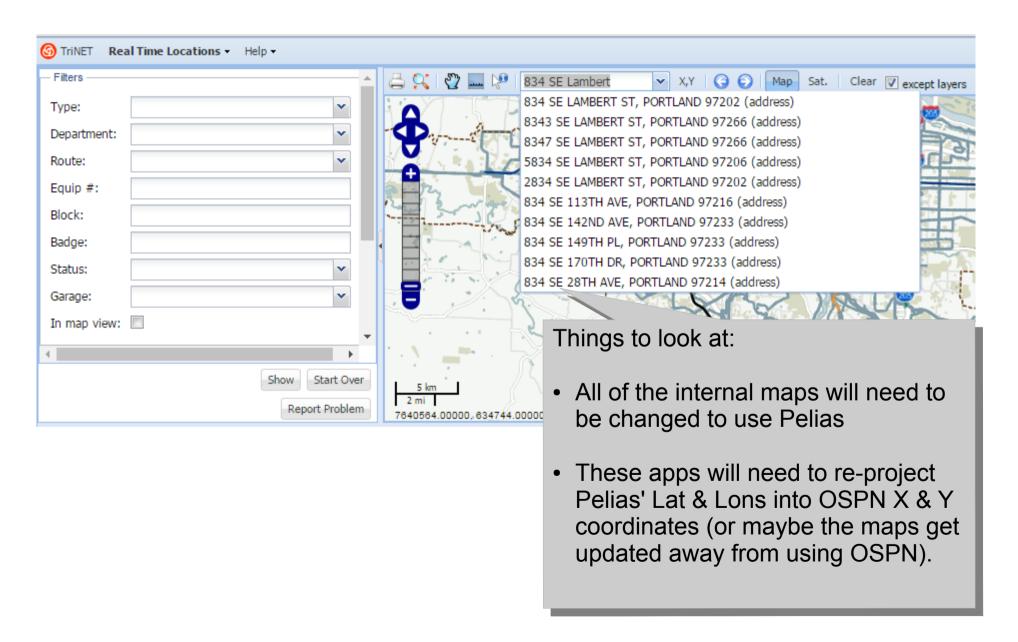
Search on Type Names



SOLR – stop weighting



Internal maps use OSPN X & Y



840 and 0840 SW Gaines



Things to look at:

- Portland has a weird numbering scheme of leading zeros addresses. The blue marker at map-right is 0840 SE Gaines St.
- About 1 mile west of 0840 SW Gaines St is a building with an address of 841 SW Gaines St.
- Creating address ranges might get somewhat tricky here; searches for 0840 SW... and 840 SW... could get interesting.

Pelias: help needed

- consultants to show Frank Purcell and Grant Humphries how to run the ETL tools
- consultants (on-site and electronic availability) from MapZen to work with John Zimmerman (JZ) to install Pelias and all related ETL tools in his server environment
- consultants to set up a support mechanism between Myleen Richardson & Madeline Steele, and respond to their ongoing questions & feedback when they encounter end-user issues with the geocoder
- Address Patching Scheme (e.g., maf_fixes.csv)

Pelias: Potential Challenges

- The ATIS geocoder took 10 years to stabilize
- Myleen & Madeline (M&M) are going to take the brunt of this project long term (see ATIS above)
- Project Success (measured as zero customer complaints) will require a feedback -> fix -> deploy loop involving M&M, MapZen and (to a lesser extent) JZ
- I believe Pelias will have issues with things like ZERO-leading address points ... they'll be other issues (there always are)
- All new systems require effort beyond SW dev