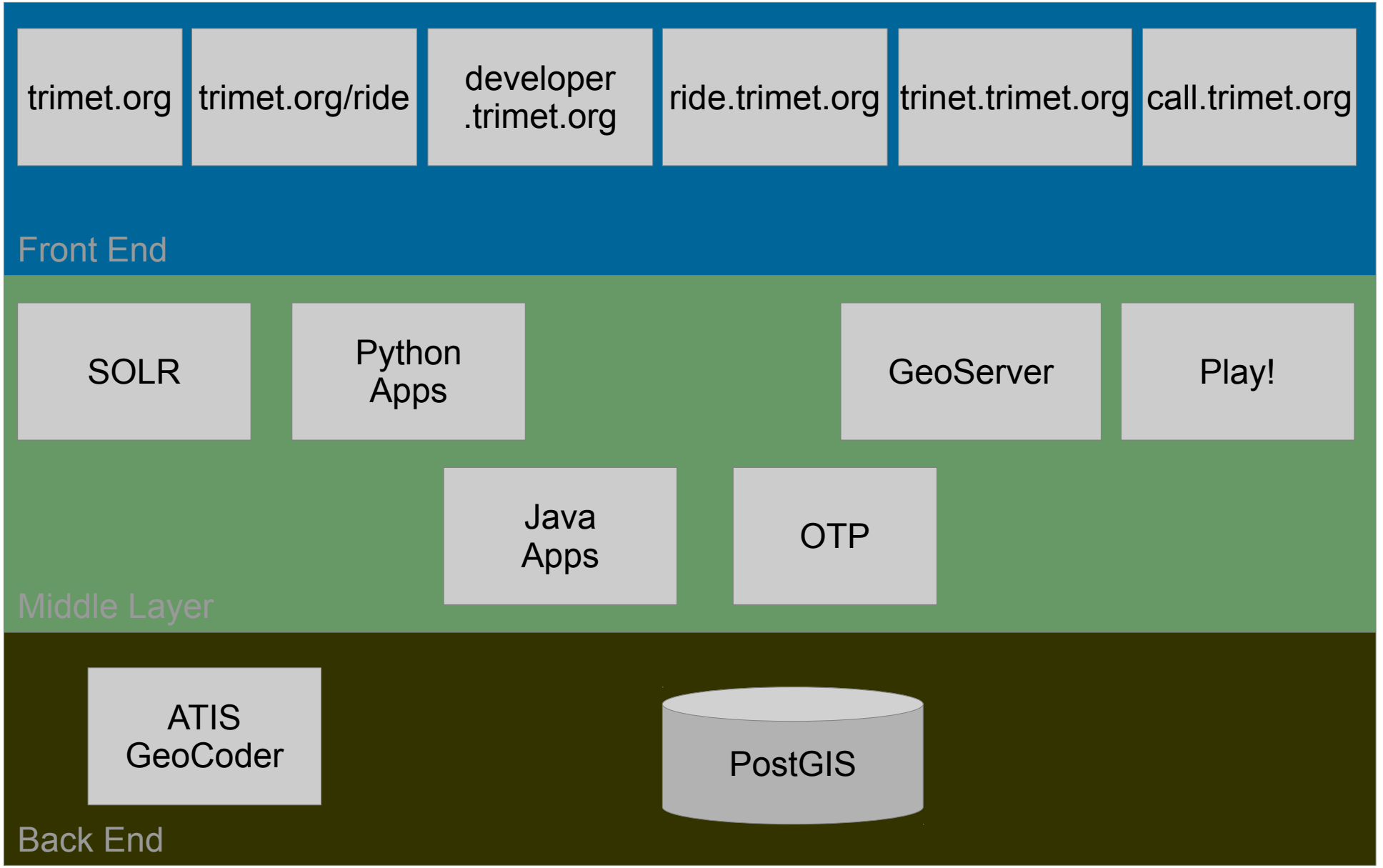
TriMet Trip Planning Landscape

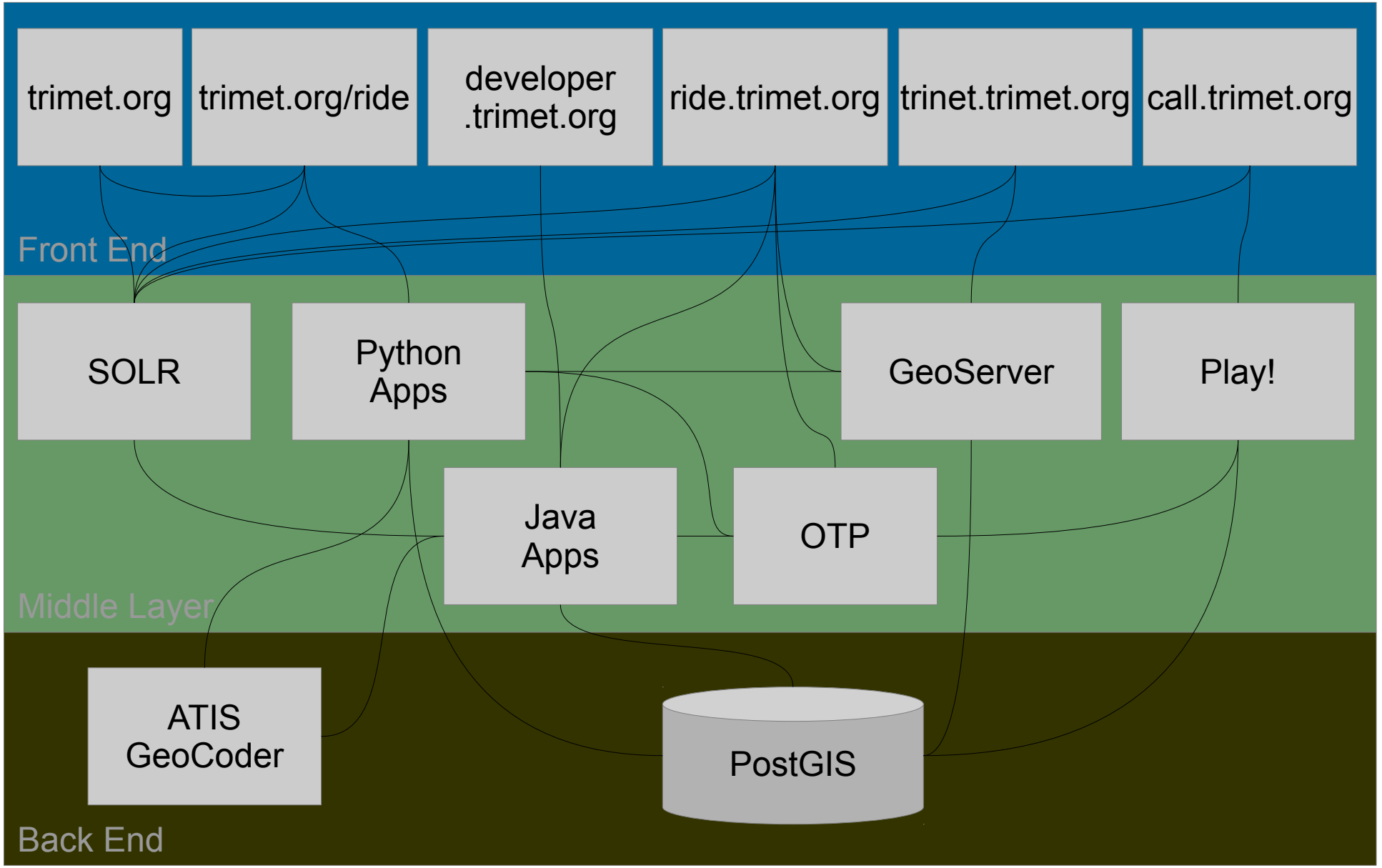
Diagrams that outline TriMet's schedule information systems and their relationships

November 2016

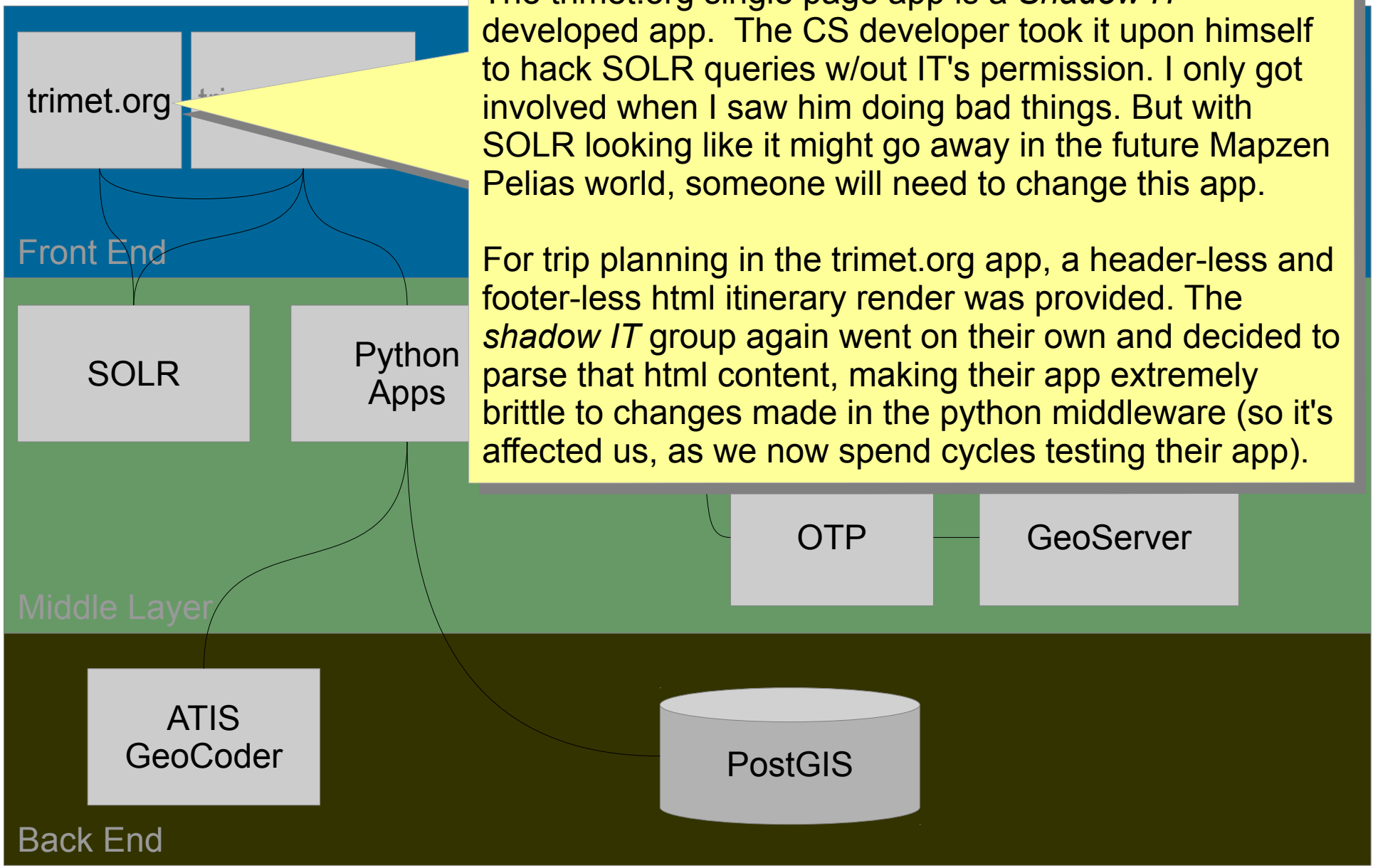
Landscape


trimet.org
trimet.org/ride
developer .trimet.org
ride.trimet.org
trinet.trimet.org
call.trimet.org
Front End
SOLR
Python Apps
GeoServer
Play!
Java Apps
OTP
Middle Layer
ATIS GeoCoder
PostGIS
Back End

Connections



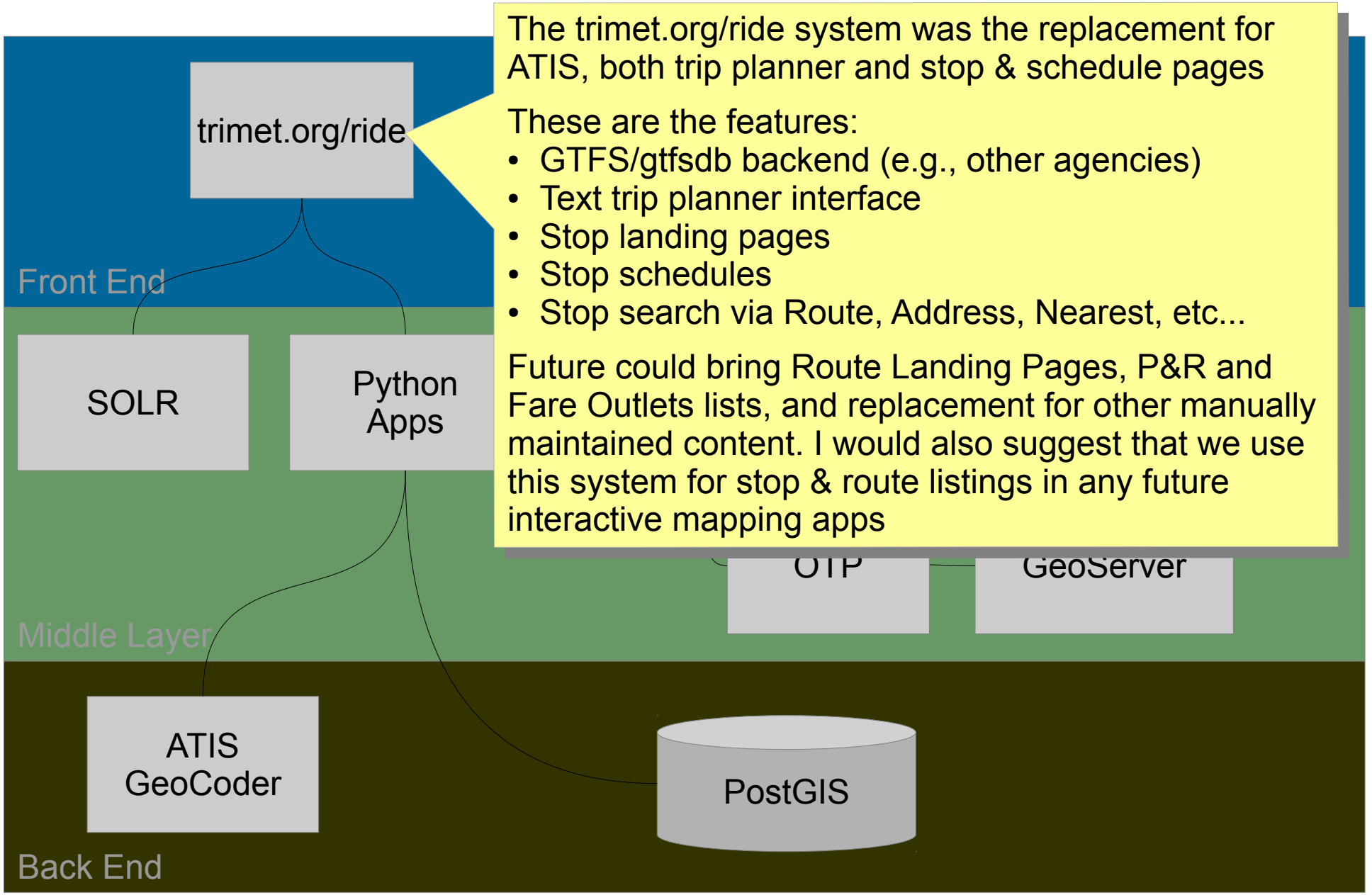
trimet.org explained



The trimet.org single page app is a *Shadow IT* developed app. The CS developer took it upon himself to hack SOLR queries w/out IT's permission. I only got involved when I saw him doing bad things. But with SOLR looking like it might go away in the future Mapzen Pelias world, someone will need to change this app.

For trip planning in the trimet.org app, a header-less and footer-less html itinerary render was provided. The *shadow IT* group again went on their own and decided to parse that html content, making their app extremely brittle to changes made in the python middleware (so it's affected us, as we now spend cycles testing their app).

trimet.org/ride explained



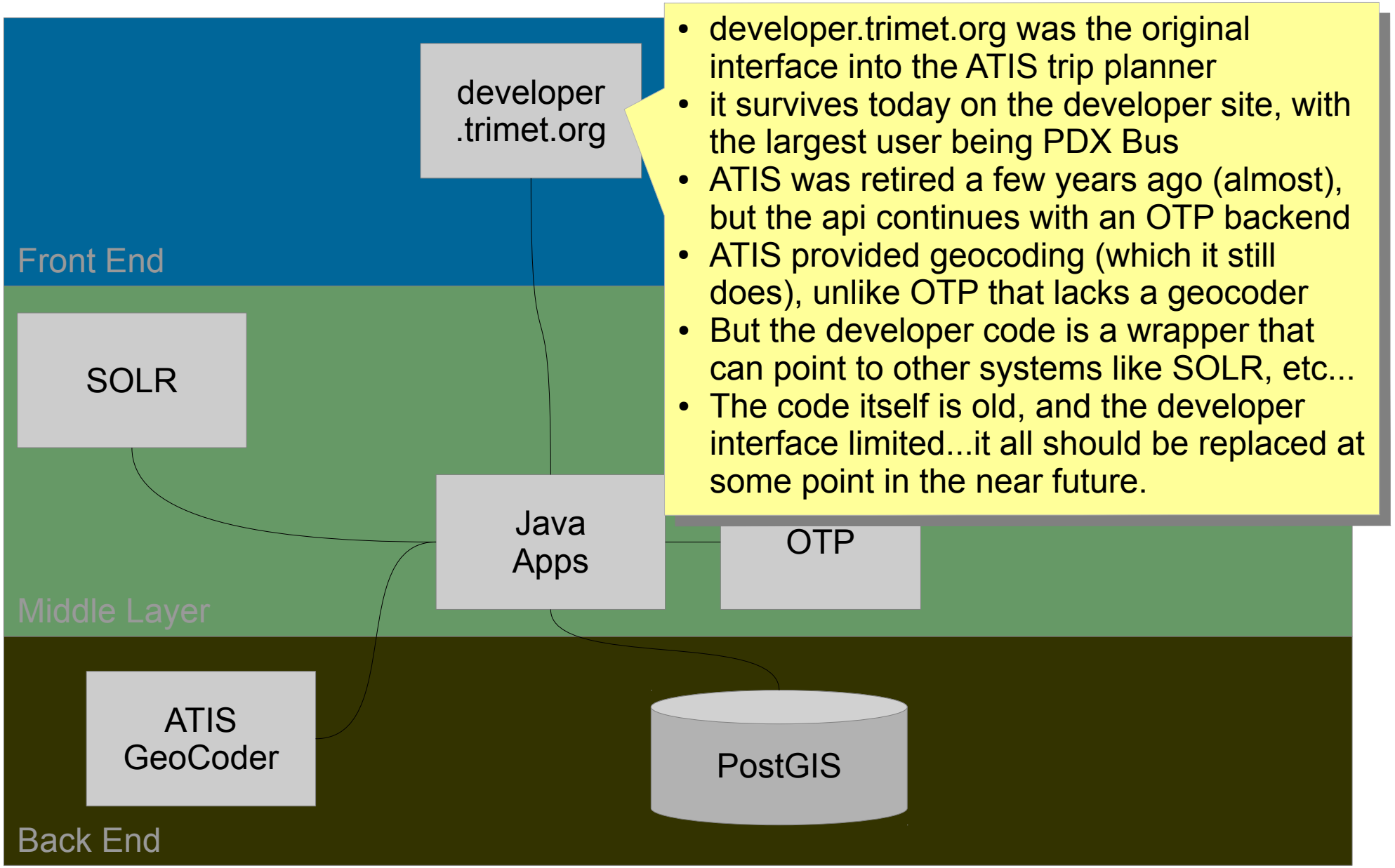
The trimet.org/ride system was the replacement for ATIS, both trip planner and stop & schedule pages

These are the features:

- GTFS/gtfsdb backend (e.g., other agencies)
- Text trip planner interface
- Stop landing pages
- Stop schedules
- Stop search via Route, Address, Nearest, etc...

Future could bring Route Landing Pages, P&R and Fare Outlets lists, and replacement for other manually maintained content. I would also suggest that we use this system for stop & route listings in any future interactive mapping apps

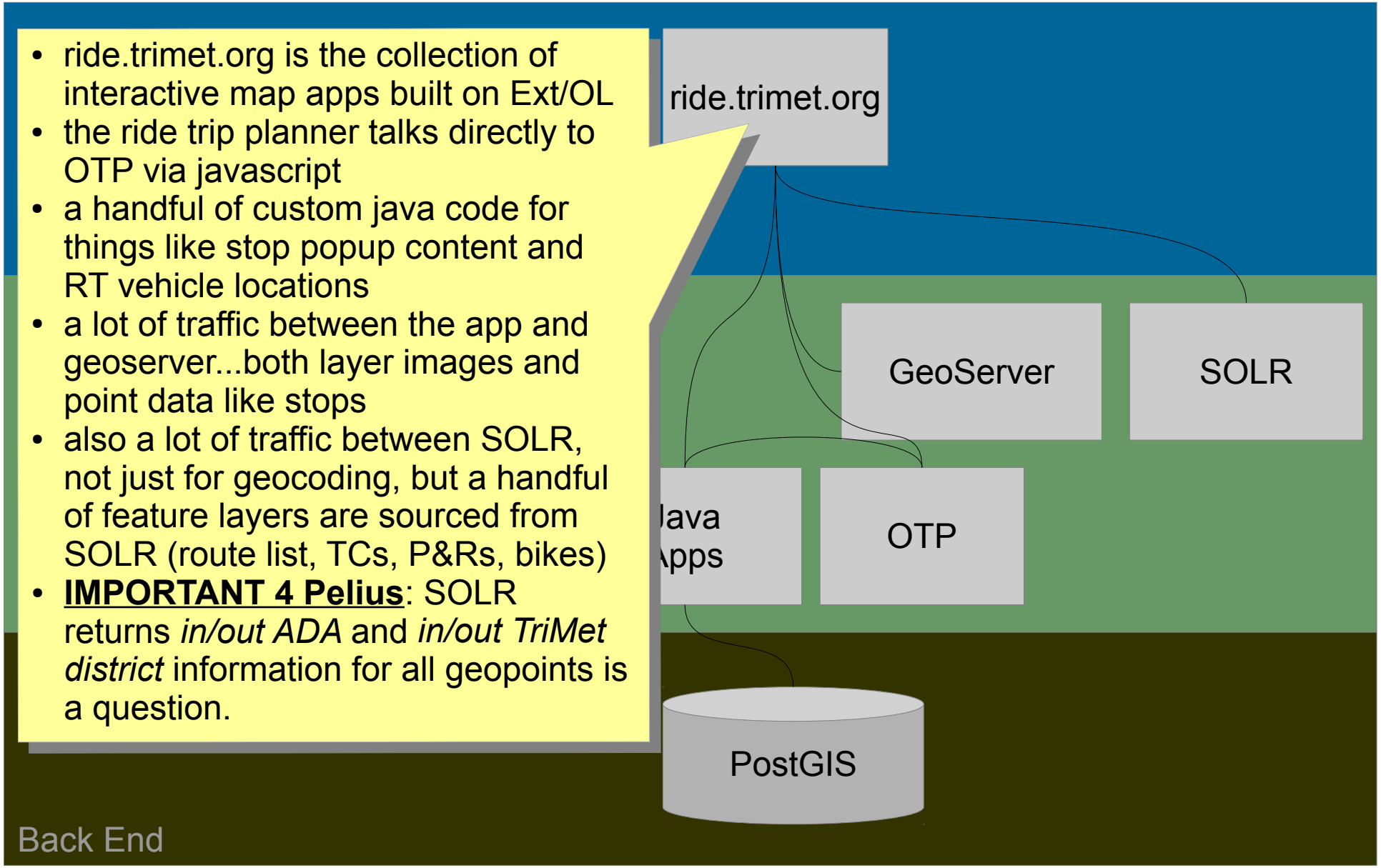
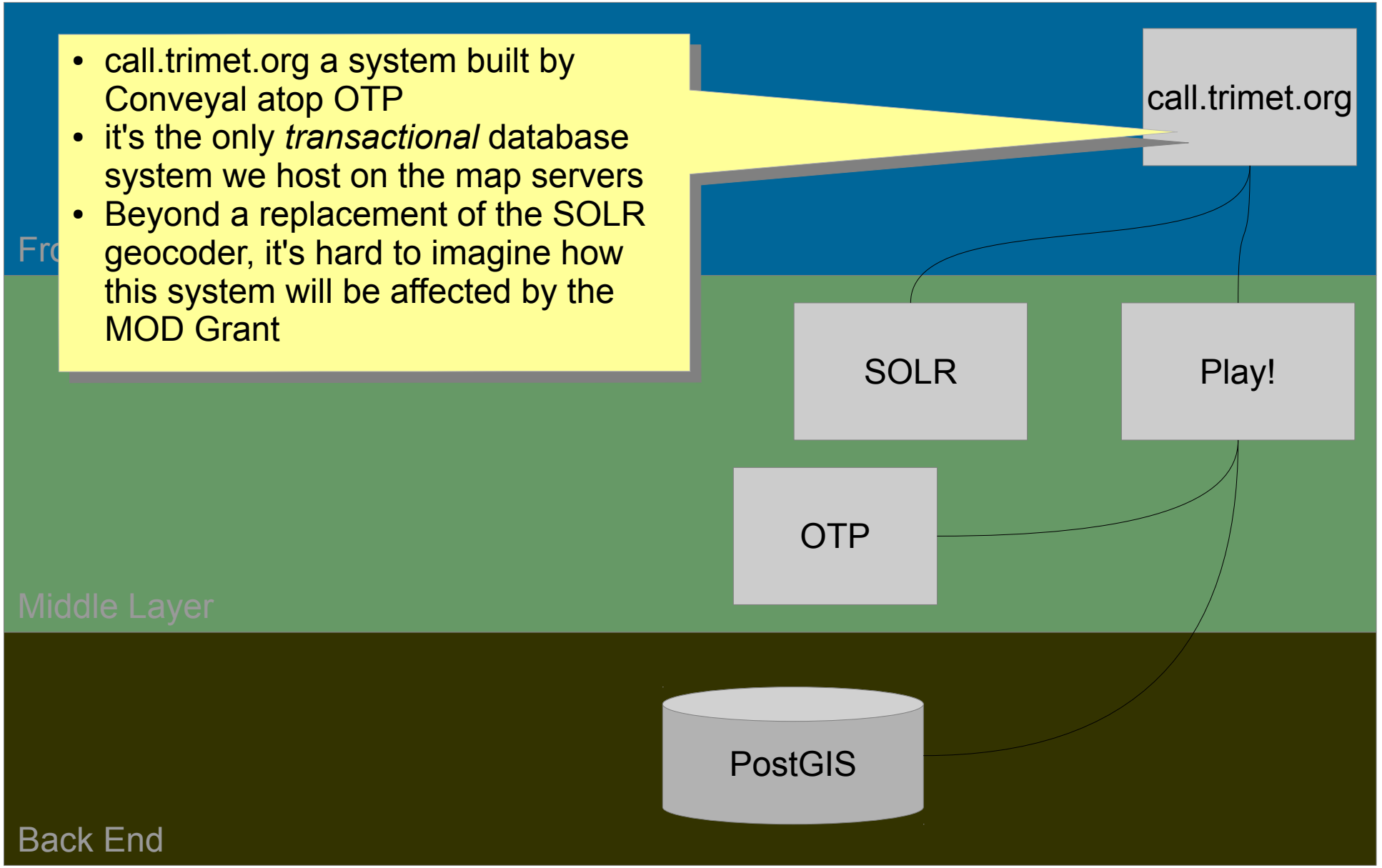
developer.trimet.org



- developer.trimet.org was the original interface into the ATIS trip planner
- it survives today on the developer site, with the largest user being PDX Bus
- ATIS was retired a few years ago (almost), but the api continues with an OTP backend
- ATIS provided geocoding (which it still does), unlike OTP that lacks a geocoder
- But the developer code is a wrapper that can point to other systems like SOLR, etc...
- The code itself is old, and the developer interface limited...it all should be replaced at some point in the near future.

ride.trimet.org

- ride.trimet.org is the collection of interactive map apps built on Ext/OL
- the ride trip planner talks directly to OTP via javascript
- a handful of custom java code for things like stop popup content and RT vehicle locations
- a lot of traffic between the app and geoserver...both layer images and point data like stops
- also a lot of traffic between SOLR, not just for geocoding, but a handful of feature layers are sourced from SOLR (route list, TCs, P&Rs, bikes)
- **<u>IMPORTANT 4 Pelius</u>**: SOLR returns *in/out ADA* and *in/out TriMet district* information for all geopoints is a question.



call.trimet.org