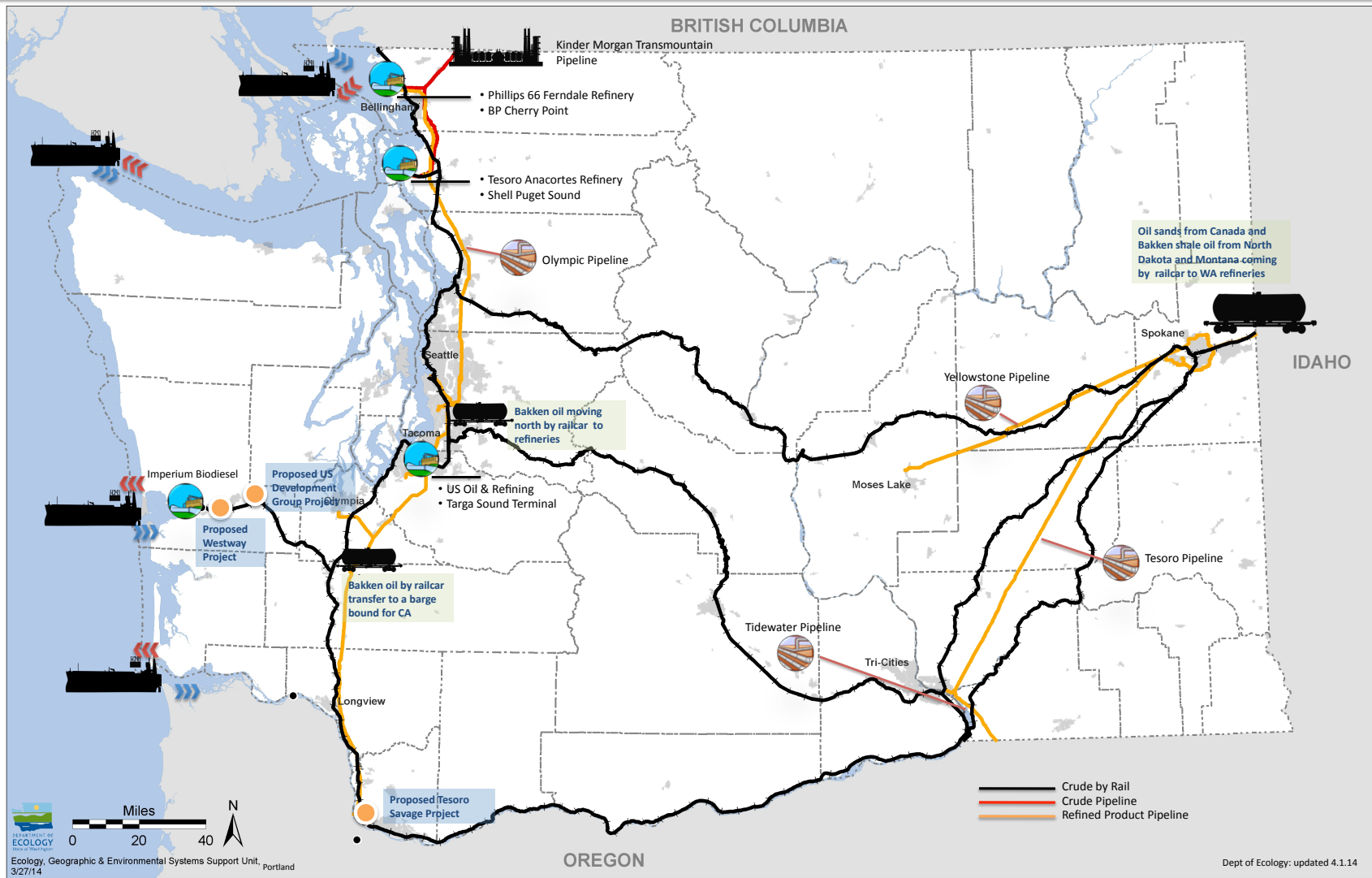


CONCEPTUAL MODEL OF OIL MOVEMENT IN & OUT OF WASHINGTON STATE



Data Assumptions

- Shipping 2008-2013: Aggregated data from the Advanced Notice of Transfer (ANT) system
- Shipping 2003-2007: Data reported to WSPA by industry (2004 is an estimate based on 2003 and 2005 data because reporting to WSPA is done every other year)
- Pipeline 2003 – 2013: Aggregated data reported by industry to the Washington State Department of Commerce (Data is from the Transmountain Pipeline)
- Rail 2012-2013: Estimate based on a number of factors including
 - Data on vessel transfers from ANT system
 - Total estimated throughput for Washington State refineries
 - Estimated pipeline throughput for each refinery
 - Predicted volumes transported by rail as reported by refineries
 - Estimated increases in total crude transported through Washington

