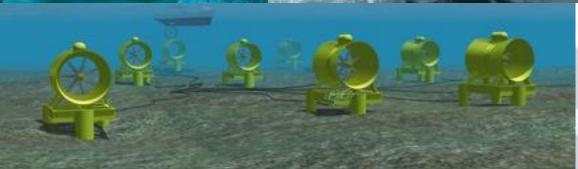
TISEC

OPEN SOURCE, WEB-BASED, SPATIAL DECISION SUPPORT TOOL FOR TIDAL POWER SITING IN WASHINGTON STATE

Tidal In-Stream Energy Conversion





Web-Based Tool and Why

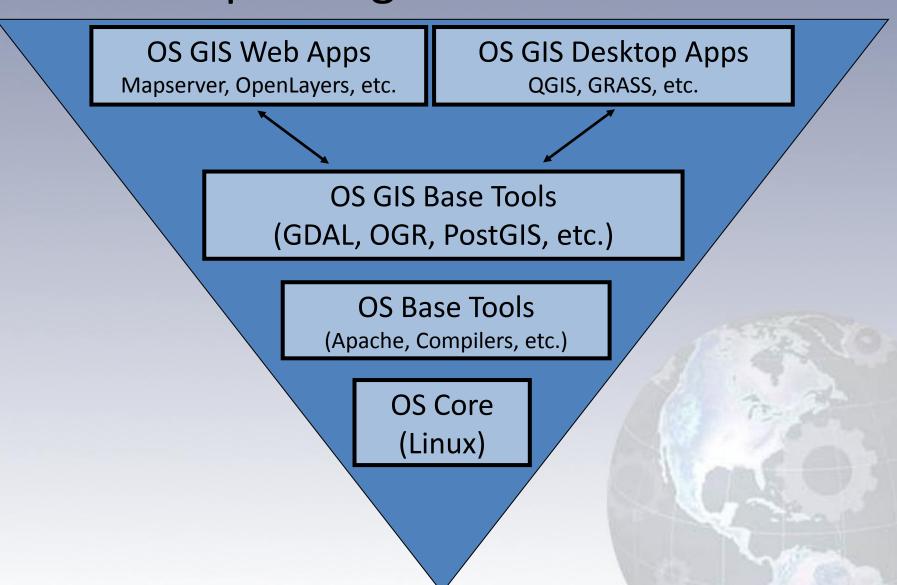
- Cross Platform Support
- Multi-User
- No special software to install... just a browser
- Offload real work to server
- No worrying about versions of data/software
- Integrated GIS capabilities
- Potential for wide range of users...
 - public<->modelers
- Utilizing Open Source Software
 - Reduce Cost
 - Increase transportability

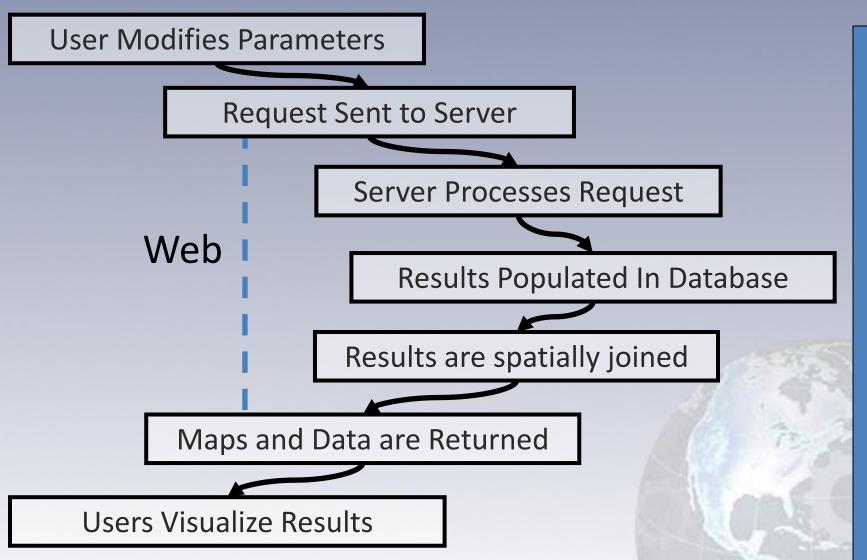
Common Workflows Fit Well With OS GIS Tools **Data Collection** Model Web-Based Integration DST's Reduced Expense for Tight Budgets Software Contracting/ Deployment Development Expense and Hosting Standards Based – Transparent Development Community **Standards** Open Development Building **Focused**

Flexibility

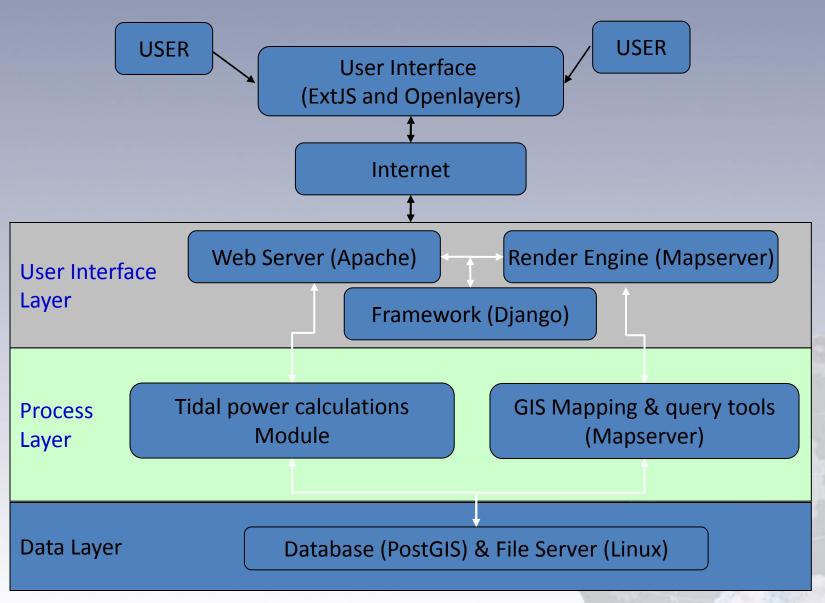


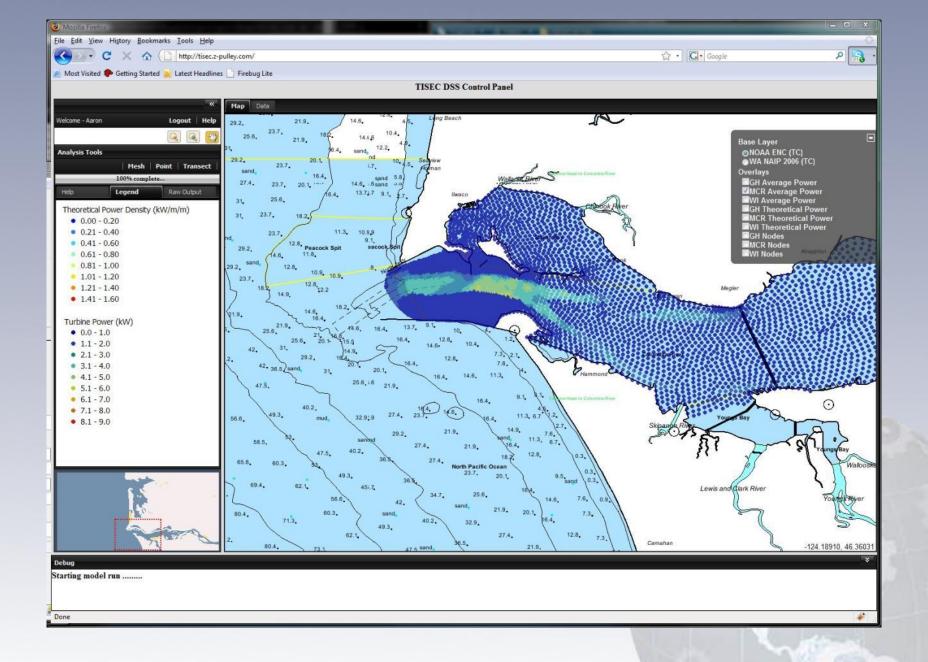
Explaining the Geo Stack



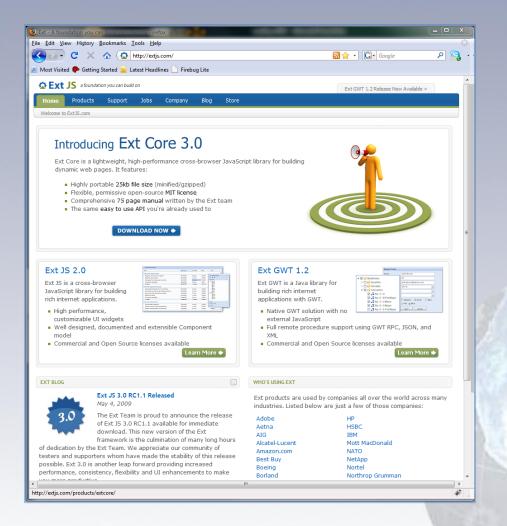


Architecture

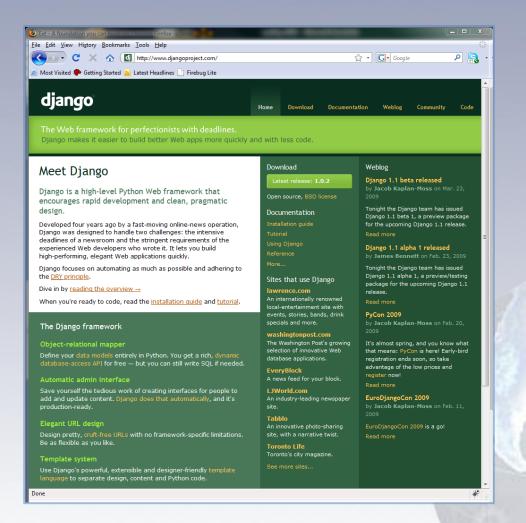




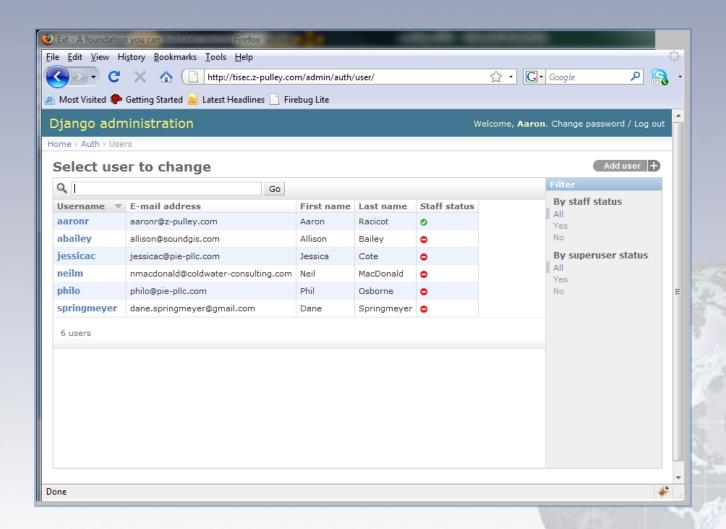
ExtJS

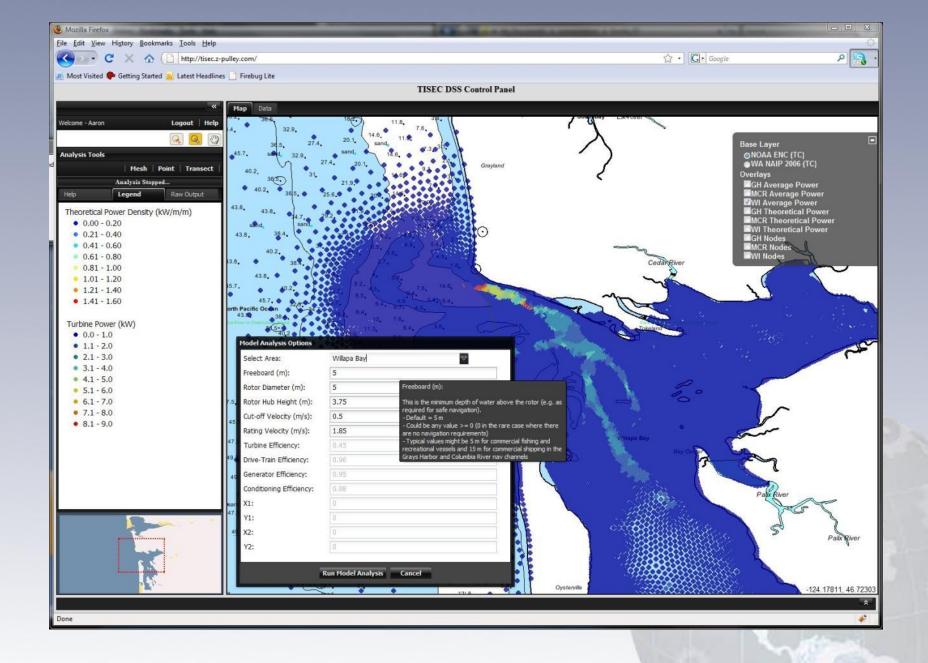


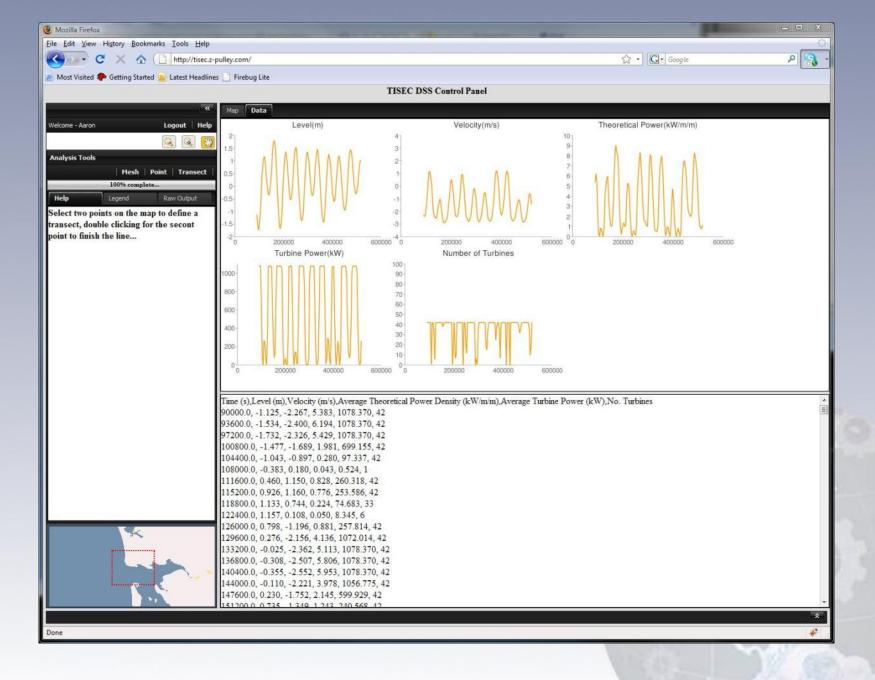
Django



Admin Interface







Project References

Project Standards:

- OGC http://www.opengeospatial.org
- W3C http://www.w3.org/

UI Framework:

ExtJS - http://extjs.com/

User/Data Management Tools:

Django - http://www.djangoproject.com/

Data Visualization Tools:

OpenLayers - http://www.openlayers.org

Map Engine / Rendering Tools:

- TileCache http://www.tilecache.org
- FeatureServer http://www.featureserver.org
- Mapserver http://mapserver.gis.umn.edu

Data Management Tools:

- Metadata http://geology.usgs.gov/tools/metadata/standard/metadata.html
- PostGIS http://postgis.refractions.net
- GDAL/OGR http://gdal.maptools.org

Technical Partners







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