Data Warehouse and Geographic Information System

7 Current Status And Recommendations

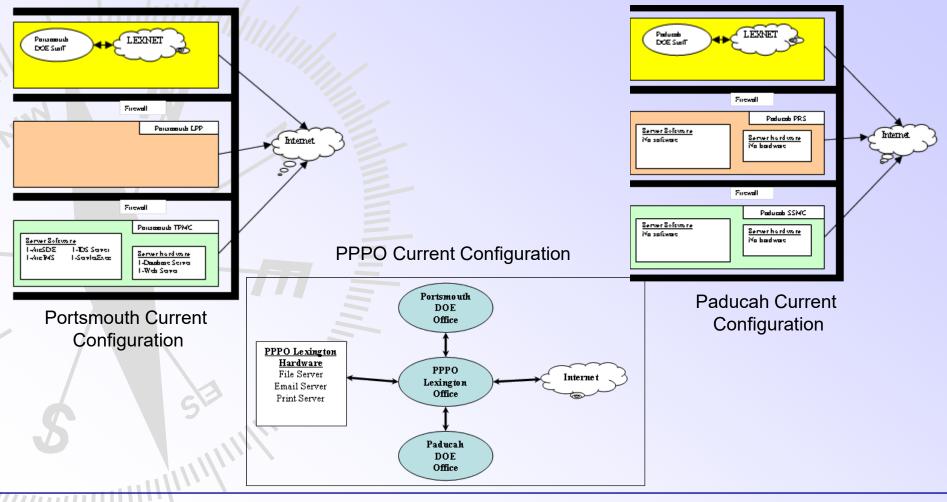
DWGIS Current Status

- Paducah 2,425,877 env records – 140 GIS layers Phase I completed Advanced query tools - Feb 2006 - OREIS -Not installed on-site
 - Portsmouth
 - -1,082,534 env records
 - 80 GIS layers
 - Phase I completed
 - No Adv. query tools
 - Dec 2003 OREIS
 - Installed on-site

Issues

- OREIS no longer accessible moved
- OREIS and DWGIS behind firewalls
- Portsmouth DWGIS needs OREIS refresh
- Paducah requires local DWGIS installation
- PPPO requires PORTS/PAD DWGIS access
- KY stakeholders require PAD-DWGIS access

Current Network Configurations



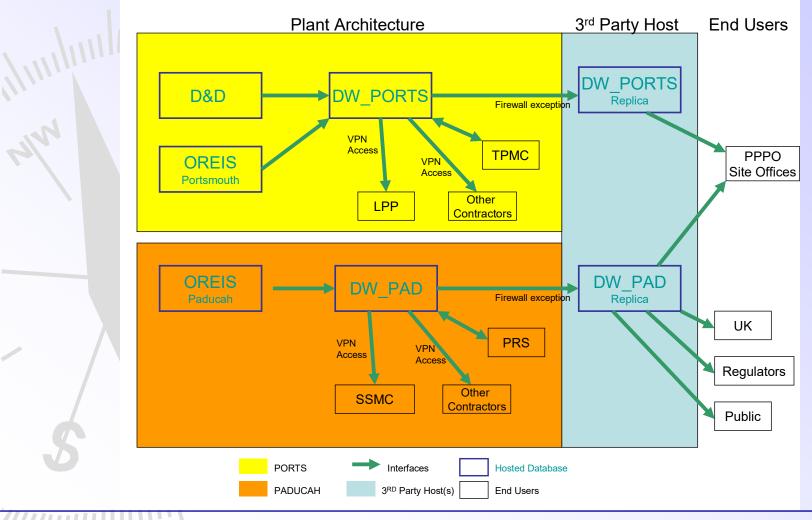
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DWGIS Recommendations

- Update DWGIS with latest OREIS data
- Train LPP-TPMC
- Update DWGIS with latest query tools
- PADUCAH
 - Procure HW/SW to install on site
 - Install and Train PRS and SSMC
- OVERALL
 - 3rd Party Hosting for PPPO and KY Stakeholders
 - Phase II Development

Recommended Network Configuration



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Phase II

- Document Indexing and Linkage Module
- **Risk Assessment Module**
- GIS Analyst Feature Extraction Module
- 3D Visualization Software White Paper

Document Indexing and Linkage Module

- Retrieve indexed environmental reports
 Retrieve indexed geotechnical reports
- Integrate "Google"-like commercial software into DWGIS
- Hyperlinks from GIS features (SWMUs, buildings, etc.) to documents

Risk Assessment Module

- **Risk Reduction Standard Management**
 - Manage Background, PQL and Risk based
- **Risk Assessment Data Comparison**
 - Compare and report site data to the standards
- GIS Viewer Risk Tool
 - Spatially query and compare to standards
- Advanced Temporal Plotting
 - Include Rad-error, detection limit and advanced symbology to plots

GIS Feature Extraction Module High-level GIS data - Extract data as GIS files **Download to GIS Analyst PC 3D** Visualization Paper Comparison of 3D Software **DGI** earthVision **C-Tech EVS**