



PIPELINE OPEN DATA STANDARD

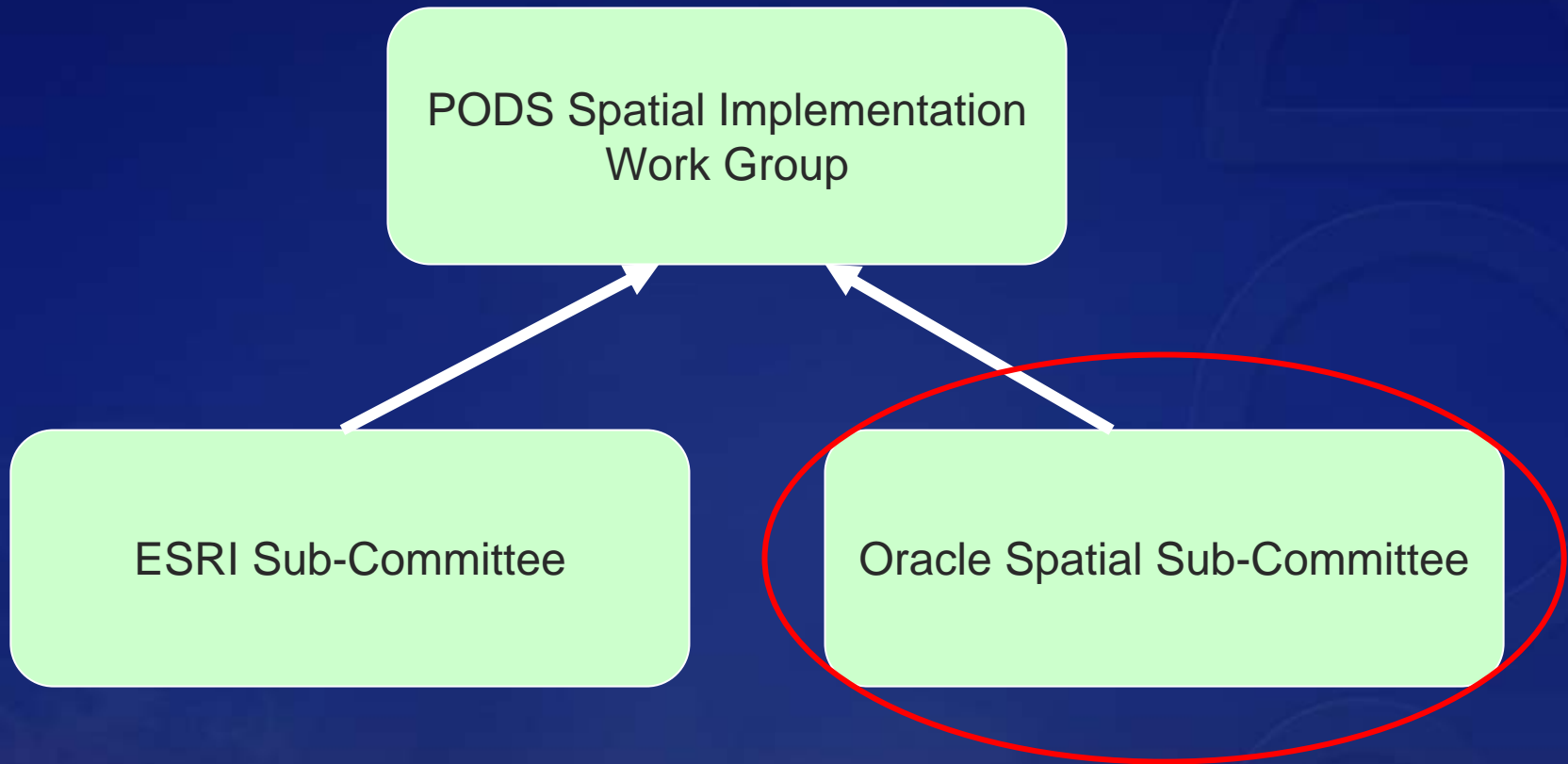
PODS Oracle Spatial Work Group

September 27, 2007

Working Group Members

Haller, Joe	Southwest Gas
Herbig, Eliana	Michael Baker Jr., Inc
King, Michael	BP 
Kotzabassis, Costas	Bitshou
Frost, Mike	Intergraph
Grabowski, Brad	GE - Smallworld
Philpot, Blake	GE - Smallworld
Ravada, Siva	Oracle
Saunders, Alan	Autodesk
Smith, Cyndi	Bentley
Whiting, Sue	Ubisense Consulting

Who are we?



Progress

- Original Working Group formed early 2006.
- Charter approved April 21, 2006.
- Working group re-established August 23, 2007
 - Original Chairperson had an increase in job responsibilities and travel which prohibited him from continuing on.
- Developing prototypes to work out spatial options.
 - Linear Reference System (LRS) Prototype 1 - First review in October 2007.
 - Linear Reference System Prototype 2 - TBD

Charter Overview

Development of industry standard PODS-compatible database model(s) or extension(s) that will spatially enable the PODS database to facilitate proprietary applications and PODS GIS integration.

Objective

Maintain the "vendor neutral" open concept but at the same time recognize the need to integrate with proprietary spatial technologies.

LRS Prototype

- Linear Referencing System
 - Part of Oracle's Advanced Spatial Engine
 - Supports data that can only be modeled as measures.
 - Linear such as condition of a section of pipe
 - Point such as anomalies along a pipe
 - Supports using actual XY locations (when known) for pipes, fittings, etc.
 - Minimal impact to number of PODS tables modified



LRS Prototype 2 (optional)

- Refinement of how coordinates are stored with PODS.
- Drivers based on following evaluation of LRS prototype 1:
 - Performance
 - Ease of use (visual and analysis)
 - Scalability

Needs !!!

- Sample Data
 - We have some but it is limited and we need more data to test performance and scalability.
- Populated Location Model?
 - If anyone has this, once again it would be a help to the group to work with “real” data.
- Use Cases
 - Visualization – we will be using Oracle MapViewer to do basic look and feel evaluation.
 - Analysis – looking for real life scenarios.

Next Steps

- Working group to review and evaluate LRS prototype.
- Provide findings to PODS Technical Committee.
- Determine if we should do the SDO prototype.