

PHMSA Public Meeting

Data Integration Process Issues and Opportunities

Feb. 7-8, 2007
New Orleans, La.

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Panhandle Energy

Panhandle Energy – GIS Group

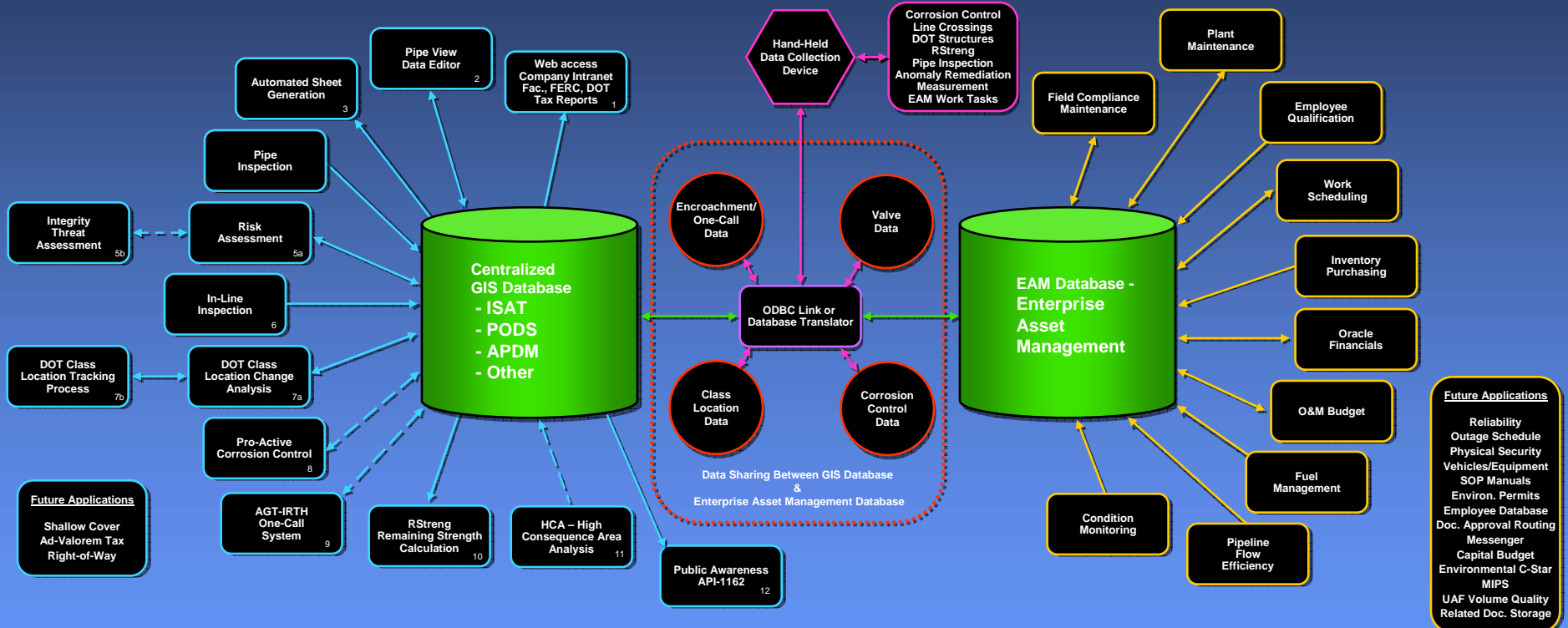


Panhandle Energy –

- Approx . 19,000 Miles of Large and Small Diameter Transmission Pipeline
- Transmission, Storage, Onshore, Offshore, LNG Facilities
- 79 Compressor Stations – Over 2,000 Employees

Panhandle Energy

GIS – EAM Configuration



What is Data?

Numbers

Characters

Renderings – Maps, Alignment Sheets, Reports

Photo's – Aerial, Video, Snapshot

Opinion

“Experts”

Analysis – Results

Data is not just Tabular

Data Structure

Text Files
Hard Copies
Databases

“Standardized” Database Models

ISAT
PODS
APDM
Others

One Centralized Database
Multiple Databases
Database Connectivity –ODBC,
Database Translators, Etc.

Common Users / Uses

Operations
Engineering
Administrative
Regulatory
Executive

Same Data - Different Groups
Same Data - Update Multiple Times
Same Data – Different Analysis

Red Blob Theory – Ranging Values

Integration

Insure Integrity of Data

Data Can't be Compromised

Stability – Trusted Data and Access

Capability – Can Do what you Want and need to do

Ability – Ability to do what you want AND the ability to NOT do what you want or somebody else wants

You are not the owner of the data in most cases – just the steward

Limitations and Opportunities

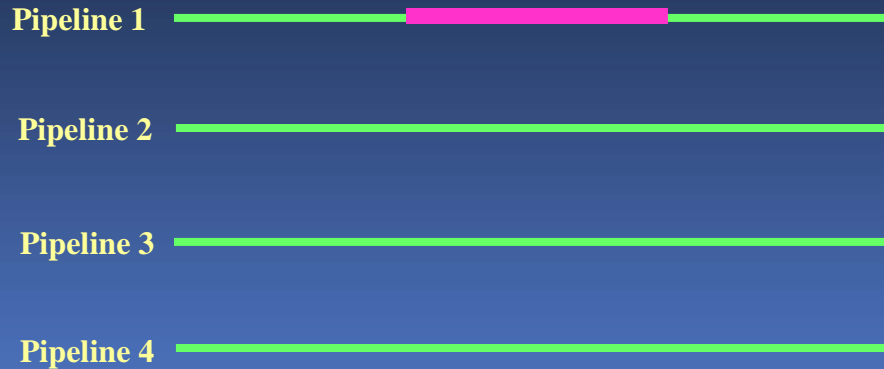
Communications - Band Width or
Communications Speed

Aerial Interpretation – Feature
Identification and Change
Recognition from Year to Year

Risk or Threat Algorithm not only
by Pipeline Segment but by Spatial
Area as Well

Spatial and Linear Threat Identification

Multiple Pipelines versus One Pipeline – what does it tell you, if in the same geographical area, values for one pipeline are in the undesired range and the other three pipelines are in the desired range – versus – all four pipelines in the same area are in the undesired range



Scenario 1



Scenario 2

Closing

Test the Conventional Wisdom - - -

Just because we've always done it,
doesn't mean we should continue
to do it

As well as

Just because we've never done it,
doesn't mean we shouldn't do it