



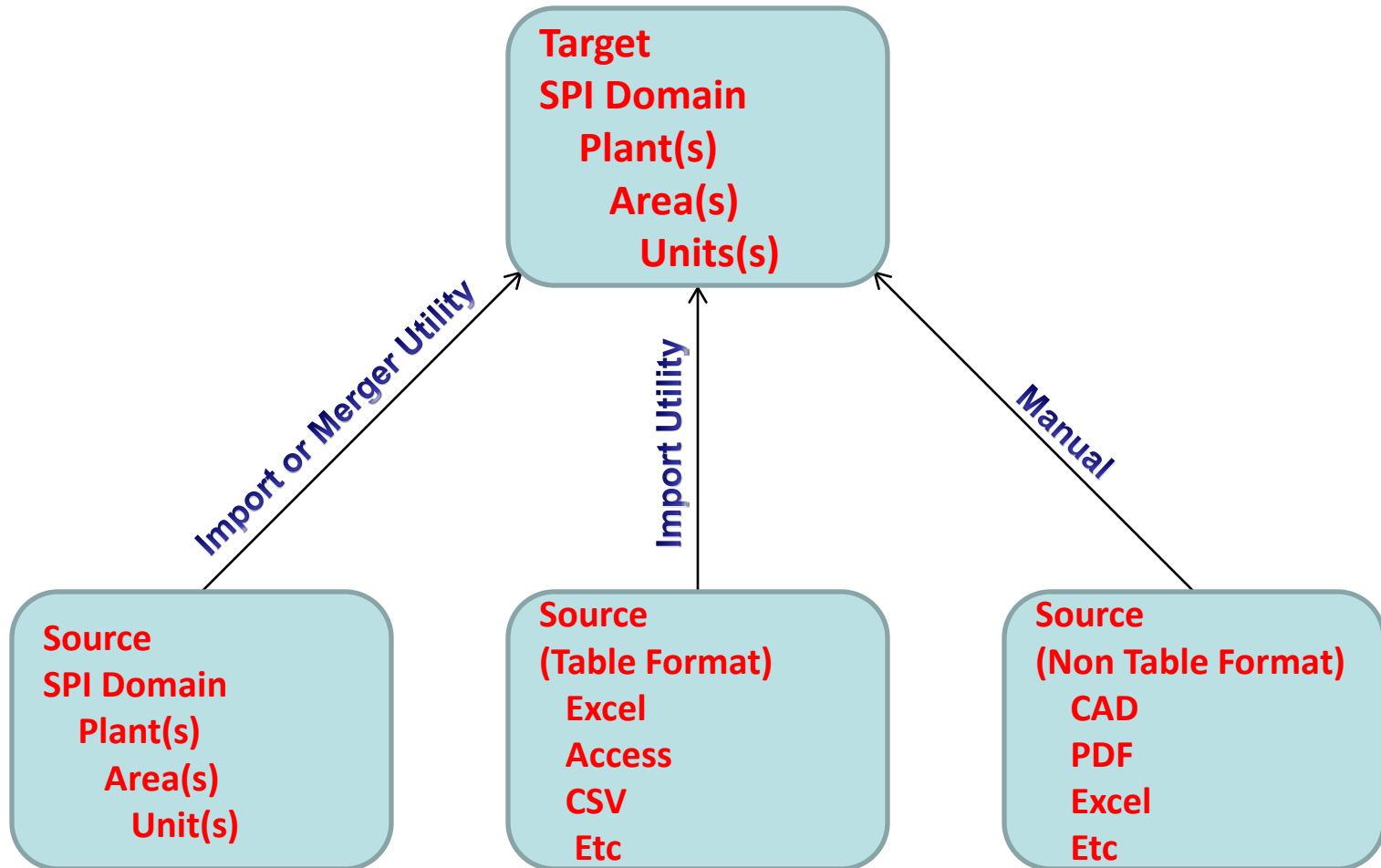
**SmartPlant Instrumentation
Data Migration and Merging
Nezar M. Faitouri
SPI Group Manager / SPI SME**



Purpose

- Introduction
- Benefits
- Cost
- Cost vs. Benefits
- Execution Steps
- Questions

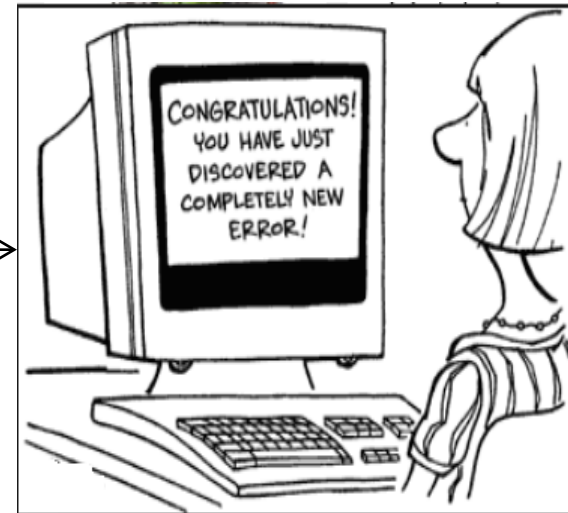
Introduction



Introduction



Results



Caution:

This is SPI. You can not just take data from point A to point B

Introduction



Results



**This is SPI. With proper configured data, the users will be Happy
Oh, also SPI will be HAPPY**

Data Migration Benefits

- Utilization of SPI as one repository
 - Information Technology (IT)
 - Database Setup
 - Database Maintenance
 - Database Backups
 - Database relocation (movement)
 - Utilization of Data by Users:
 - Data maintenance (Engineering and Design)
 - Plant run and maintain activities
 - Ensuring SPI data integrity
 - Eliminating duplicate data
 - Eliminating updates for multiple source files

Data Migration Benefits

- Interfaces with other software
 - SAP
 - Meridium
 - Maximo
 - Other SmartPlant Products
 - Etc
- Cost Saving Estimate
 - At least up to 25% to 35%



Data Migration Cost

- There are several factors that impacts the cost
 - Source data and SPI Owner Standards
 - SPI supporting tables
 - » Instrument types
 - » Manufacturers and Models
 - » UOM's
 - » Etc
 - Source data and SPI compatibility
 - Upgrade
 - Engineering Mode vs. Owner Operator Mode

Data Migration Cost

- Source Data Quality
 - Auditing the source data
 - » INAudit
 - » SPInspector
 - » Other 3rd party auditing tools
- Customization
 - ESL Symbols and Macros
 - Spec forms
 - UDF's and UDT's
 - Etc

Cost vs. Benefits

- What is important to the Organization?
 - SPI Data Management
 - SPI and multiple data resources
 - Excel sheets and hard copies
 - Etc
- Think about
 - Long Term vs. Short Term
 - Users and their efficiency with instrumentation data
 - Plant run and maintain data



Execution Steps

- Upgrade if necessary
 - Merger Utility requires both source and target to be the same version
 - Import utility does not; however, recommended to do so
 - Manual efforts does not require any upgrades
- Audits
 - Fixing source data issues
 - Fixing source data to match target data such as supporting tables

Execution Steps

- Communication
 - UDF and UDT data where target is not defined
 - Custom spec forms (add or match target)
 - Customization with UOM's, ESL, browser views, etc
 - Revisions
 - SPI items (New vs. Existing)
- Preparation
 - Prepare for the merge process
 - » Source data cleanup
 - » Preferences
 - » SPI items (New vs. Existing)

Execution Steps

- Prepare for the import process
 - » Source data cleanup
 - » Data Extraction (New vs. Existing)
 - » Import Links
- Preparation for Manual efforts
 - » Interpretation of hard copies of data sheets or CAD drawings into SPI
- Data Migration
 - Merger or Import utility
 - » Test Phase
 - » Production Phase

Execution Steps

- Post Data Migration
 - Merger or Import utility
 - » SQL statements to fix issues if any
 - » SQL statements to update necessary fields that the merger and import utility do not trigger
 - » SQL statements to either migrate or fix ESL tables
 - » Manual work for existing items
- Final Review and Delivery

Questions

