

Why IT?



**AN INTRODUCTION TO THE CHAPTER'S
PW INFORMATION TECHNOLOGY
COMMITTEE**

**2017 SPRING CHAPTER CONFERENCE
APRIL 12, 2017**

Committee Chair Perspective



- **2013 – 2015 Master Planning effort**
 - Hydraulic model
 - ✦ Pulled from Computer Assisted Drafting (CAD) line work
 - Geographical Information System (GIS) development
 - GIS Tech position
 - 2014 Fall Conference: audience feedback & need
 - ✦ Municipal GIS user group?
 - ✦ GIS vs CAD vs both?
- **2014 – present: city's financial software selection**
 - Sold a bill of goods
 - ✦ Traditional RFP process
 - ✦ Implementation

Committee Chair Perspective



- **2015 – present: city’s facilities work order selection**
 - City Council – League of Oregon Cities conference
 - Facility Manager
 - Sold a bill of goods
 - ✦ Implementation
- **2016 – present: city-wide Operational Management System (OMS)**
 - July 2016 - Utility Worker
 - July 2017 – PW Information Technician
 - Dedicated staff (GIS / Info Tech / Purchasing)
- **City’s vision statement:**
 - Working everyday to be the premiere city in Eastern Oregon
 - City Council education and support

Operations Management System - Software Selection - City of Pendleton



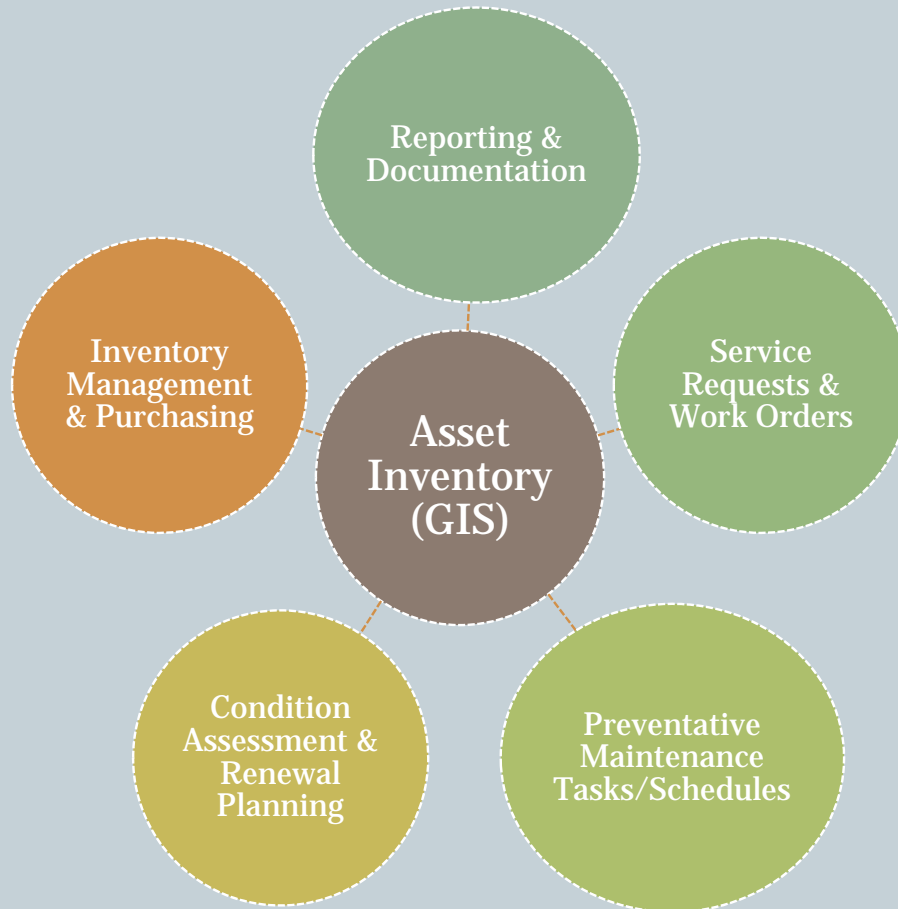
**CITY COUNCIL PRESENTATION
MARCH 21, 2017**

What is an Operations Management System?



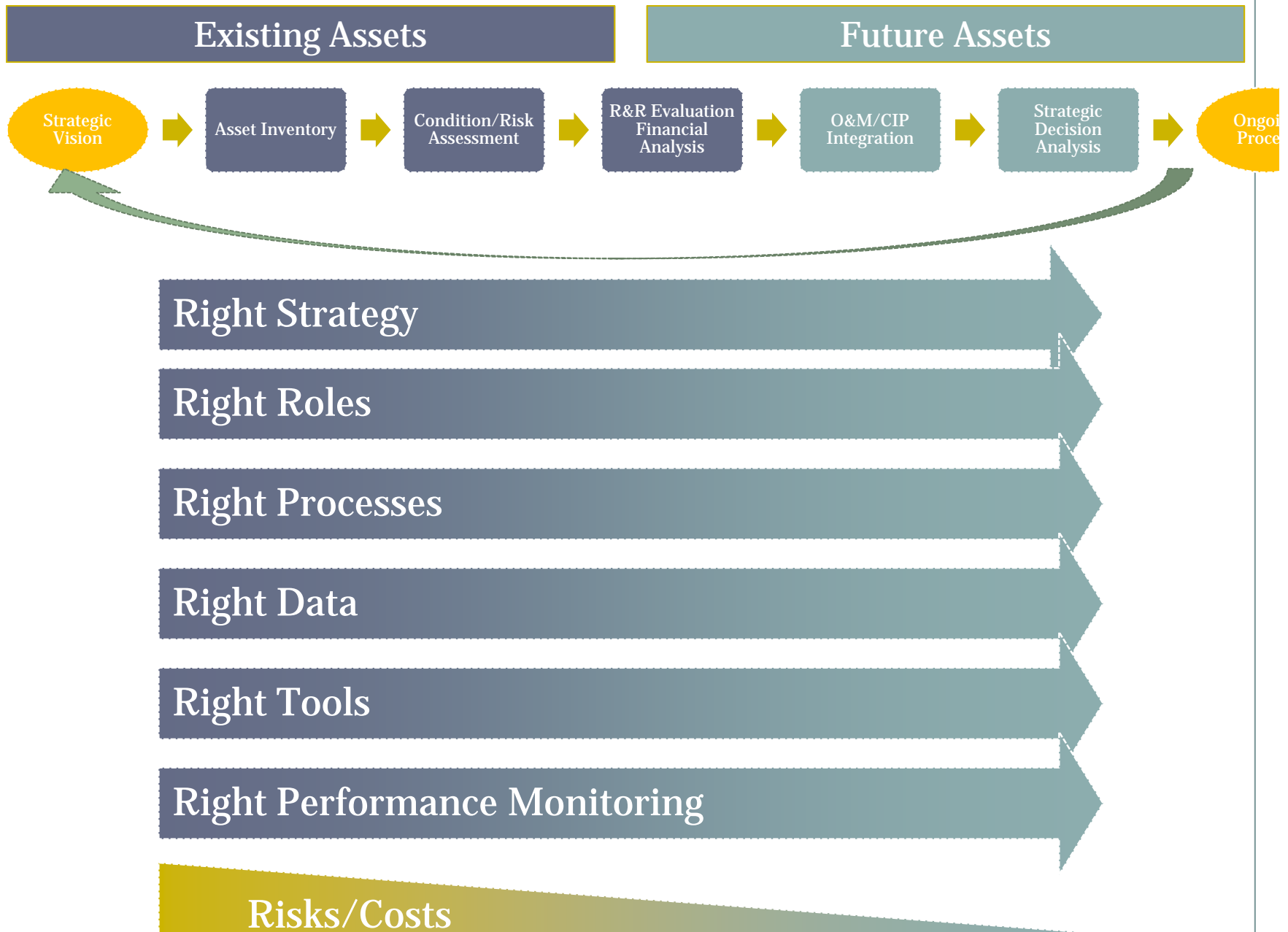
- **Asset Management**: a set of principles that guide the best management practices for an agency's assets
 - Manages the maintenance, repair, and replacement of assets in a cost-effective manner to reduce risk and meet the agency's service goals and objectives
- **What information does it give you access to?**
 - Access to asset maps specific to your job
 - Ability to have O&M manuals and SOP's
 - History of work on an asset
 - Succession planning for the future
 - Schedule work & maintenance

Overview of an Operations Management System



- Aligns with Public Works and other Department goals
- Upgrades how we collect & use information important to us
- Supplements interaction between staff, work flows, and city assets
- Continual updating of asset inventory

Asset Management Process



Benefits of Adopting Operations Management System Software



- Reduces paperwork
- Reduces risk/liability
- Increases ability to quantify our position
- Reduces frustrations by providing more information at job sites (post learning curve)
- Increases knowledge base for current & future employees
- Better able to plan for future
- Makes it simpler to communicate with the public
- Succession planning

Typical Selection Process



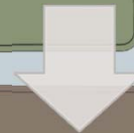
Develop and Issue RFP



Evaluate Vendor
Proposals

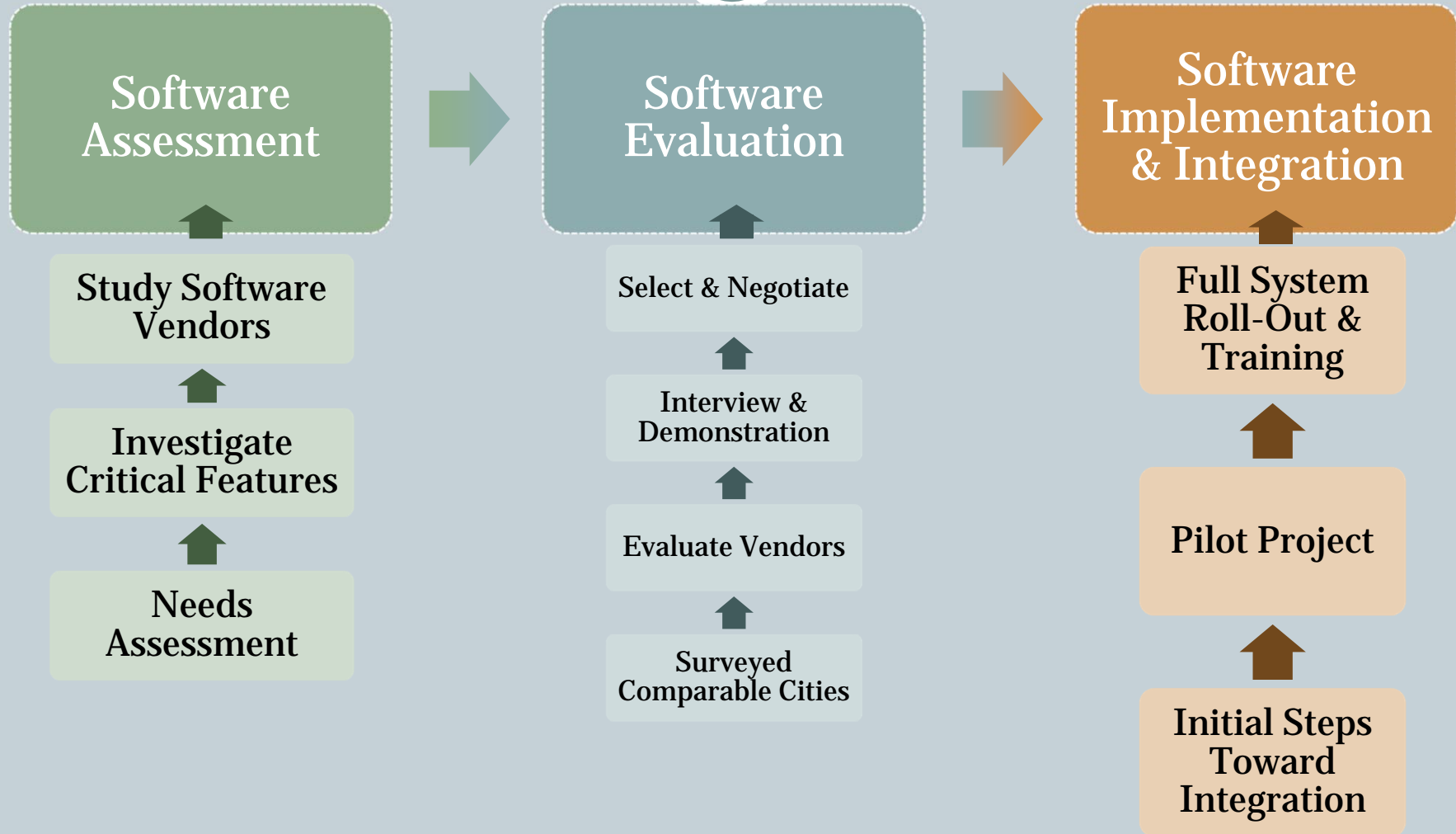


Conduct Vendor
Demonstrations



Select and Negotiate with
Preferred Vendor

Assessment, Evaluation, Implementation & Integration Process



Take Away



1. *Dedicate staff for OMS, GIS, and Purchasing to make full use of OMS application*
 - ✦ Cities from site visits did not have this complete resource and noted it would improve their OMS capabilities
2. *Allow staff to perform assigned editing to GIS & OMS to alleviate workload of GIS staff*
3. *Recommendation and comment from an individual after experience with two of our final vendors*
 - ✦ Editing ability by front-line employees in the field is worth the extra expense allowing ownership of asset data by front-line employees

Pendleton's Immediate Future



- **In-house implementation of OMS**
- **Assists with PW accreditation**
 - Work flow
 - Standard operating procedures
 - Instruction manuals / videos
 - As-built
 - Other documents
- **Assists with succession planning**
 - Retirement: anytime to next 6-years:
 - ✦ PW Director, Water Super, PW Super, WWTRRF Super, Assoc. Engineer, Engineering Tech, City Planner, UW leads, Facility Manager, etc.
- **Unmanned Aerial Systems (UAS) development**

PW Information Technology Committee



- **Committee member intros:**
 - Pendleton: Bob, Mike Rave, Lieden Cook
 - Eugene: Patrick Cox, Dan Kaler, Eric Cariaga
 - Others: Arnab Bhowmick, Jon Summerville
- **Goals**
 - GIS user group: utility focus for networking
 - Conference technical sessions
 - Chapter committee web page
 - Technology library
 - New technology related to PW
 - ✦ Conferences
 - ✦ Short School

GIS User Group



- **Planning centric**
- **Urban & Regional Information Systems Association (URISA)**
 - Oregon / Washington Chapter
 - Conference next week
 - Utility (private) user group
- **Oregon Chapter**

Conference Technical Sessions



- **Focus:**
 - Technology application(s) by chapter members / others
 - New technology roll-out by chapter members / others
 - 2 or more sessions
- **Presentation spreadsheet**
 - Running list of technical sessions and speakers
 - Call for papers

Chapter Committee Web Page



- Tie to National's "Engineering & Technology" committee
- Library development (next slide)
- Presentation spreadsheet
- Other

Technology Library



- **Technologies adopted / implemented by municipalities:**
 - Asset Management
 - Document Management
 - Financial / General Ledger Management
 - Drones
 - Pavement Management
 - Emergency / Utility Notification
 - GIS
 - CAD
 - LiDAR
 - Vehicle based or stationary laser scanning
 - Social media
 - Etc.
- **Links to members / user groups**

New Technology



- **Conferences**
 - Exhibitor based mini-technical sessions
 - Focus on new or upcoming technologies
- **Short school development and implementation**
 - Latest and greatest
 - Upcoming
 - Dedicated members to provide overview

Next Steps



- **Feedback – are we on the right track?**
 - Group discussion
- **Assistance**
 - Additional committee members
 - It takes a village
- **Committee name?**
 - PW Information Technology?
 - PW Technology?
 - Other?
- **Fall conference**
 - 4 or more technical sessions
 - Pendleton UAS range tour (& demo?)

Contact information:



- **Bob Patterson**
 - 541.966.0241
 - Bob.Patterson@ci.Pendleton.or.us
- **Lieden Cook**
 - 541.966.0245
 - Lieden.Cook@ci.Pendleton.or.us
- **Future: Chapter Website**