Integrated Asset management



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What is asset management

- 'Infrastructure' not 'financial'
- Municipal infrastructure (i.e.)
 - Sewer mains
 - Street Lights
 - Water Hydrant
 - City owned buildings
 - Fiber networks

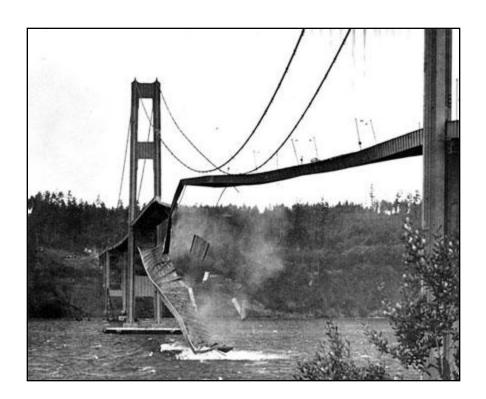
W's of Asset Management

- What assets do we own?
- Where are they located?
- What condition are the assets in?
- What is its value?

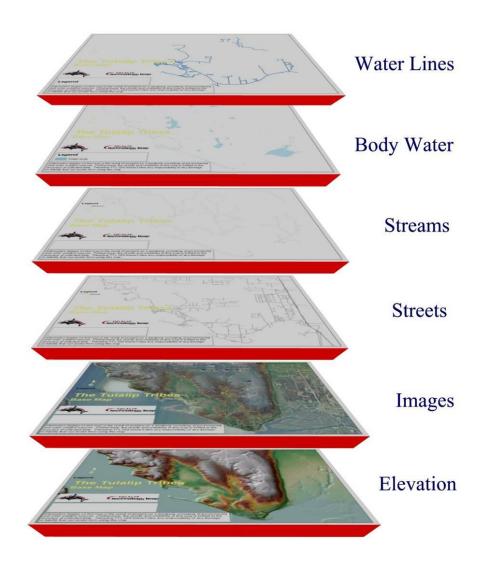
- What needs to be done to preserve the assets (repair, renewal, or replacement)?
- When do you need to do it and how much will it cost?

'W's of Asset Management

Knowing when, where, and why can help us anticipate the problems and proactively replace them before they fail



How does GIS fit in with AM?



Collecting the data was only half the battle...

we were....

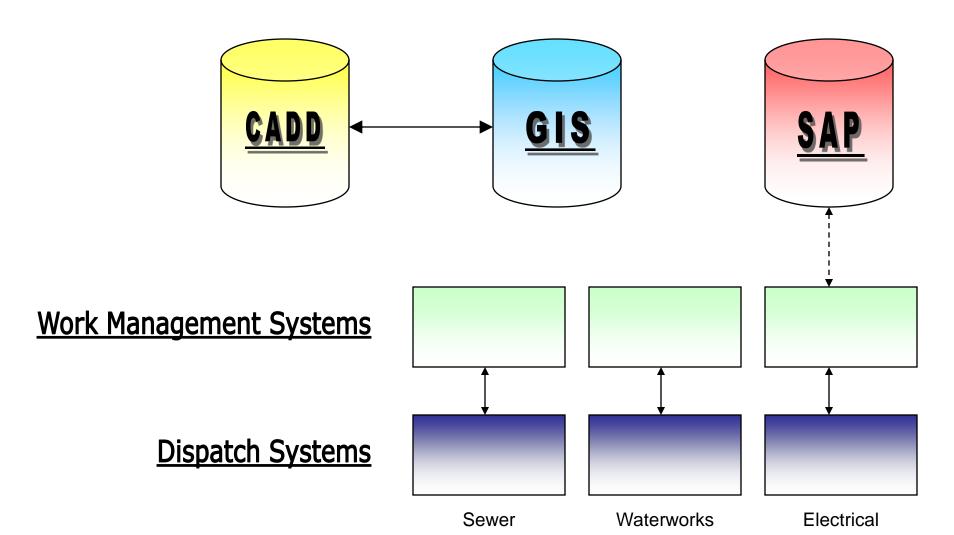
- Storing & displaying the as-built locations of the assets
- Maintaining a data dictionary describing the characteristics of the assets
- Still printing out paper maps

we weren't...

- Using the data to assist us in our decision making processes
- Integrating our GIS with our business systems

The Result

Systems separated by function



So along came IMS...

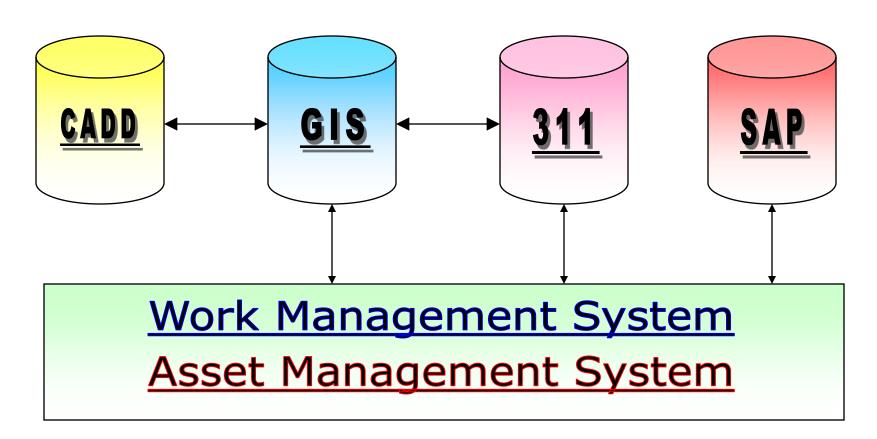
(Infrastructure Management strategy)

We'd identified a...

- Need to optimize use of dollars spent maintaining / replacing City's \$8 billion in infrastructure assets
- Need to minimize the risk of critical infrastructure failure
- Need to meet citizen's rising customer service expectations
- Need to create centralized way to monitor and record work history, condition, and data related to infrastructure assets
- Need to replace obsolete systems and disparate processes
- Need to establish better systems for financial accountability and capital planning
- Need to comply with new Public Sector Accounting Board (PSAB) requirements

The Goal

Integrated Systems



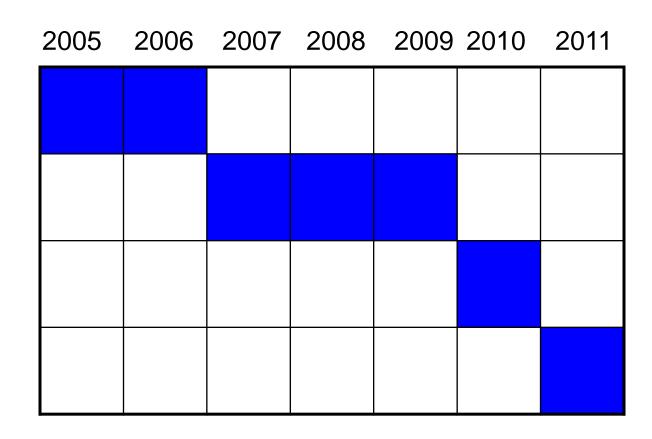
TIMELINE

Pre-Release

Release 1

Release 2

Release 2.x

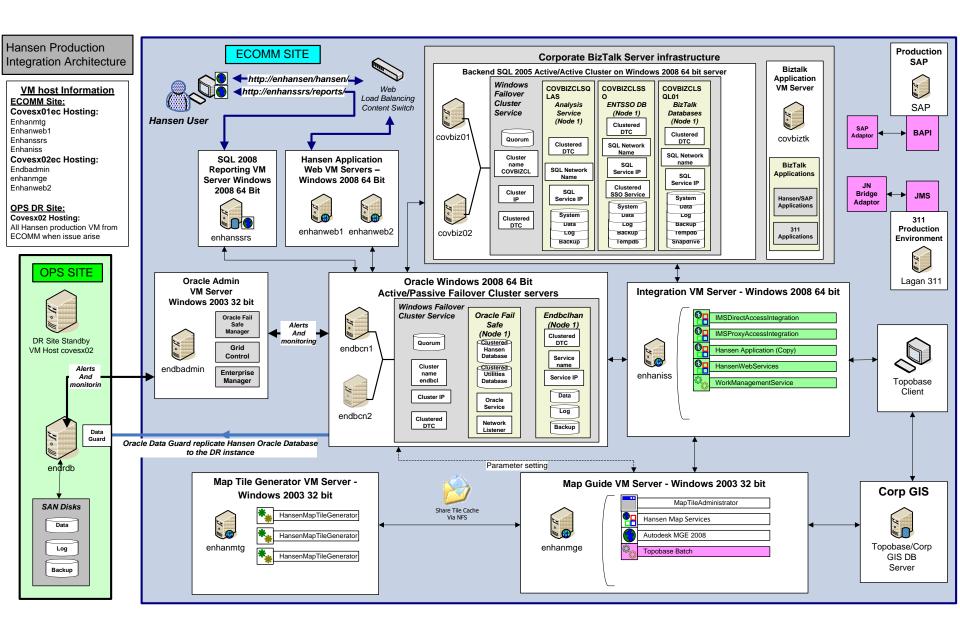


What was delivered?

A system that featured:

- consistent business-driven work management processes impacting over 500 staff
- integration with our SAP financial system
- integration with our 311 call centre for trouble calls
- asset valuation models for many of our asset classes
- an integrated GIS front-end
- custom SSRS reporting interfaces

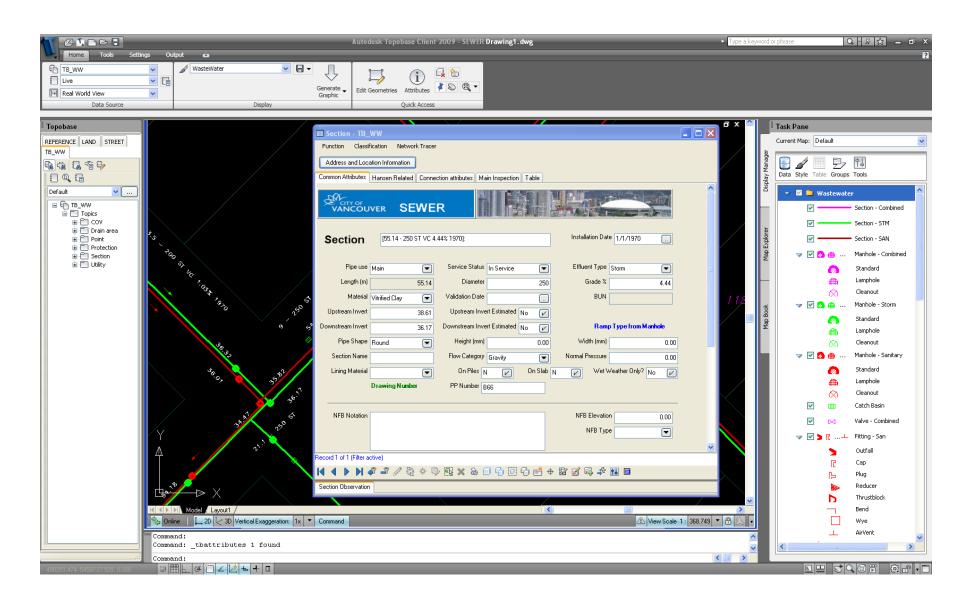
<u>A scary IT slide</u>



What is left to do?

- Mobile computing
- Legacy systems still in use
- New business areas
 - –Land Fill
 - -Fiber Networks
 - -Facilities Management
- Business Intelligence

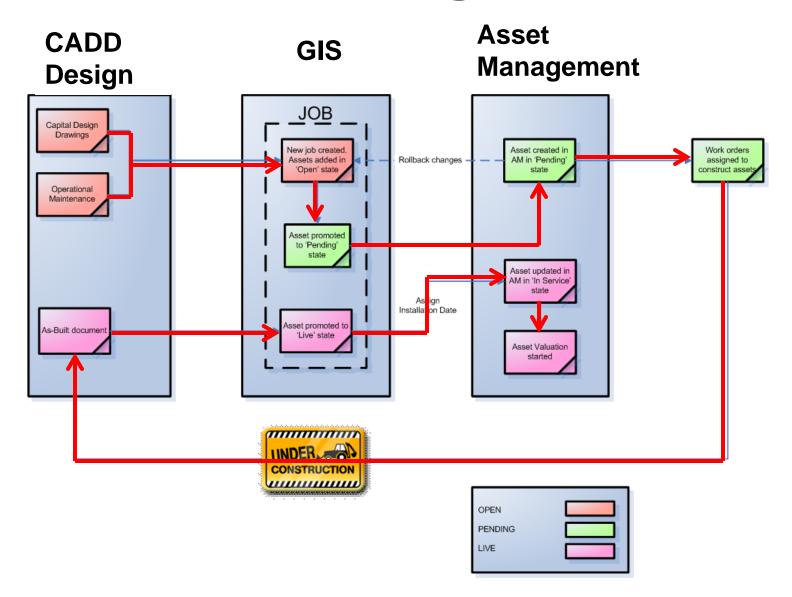
A few more words about GIS...



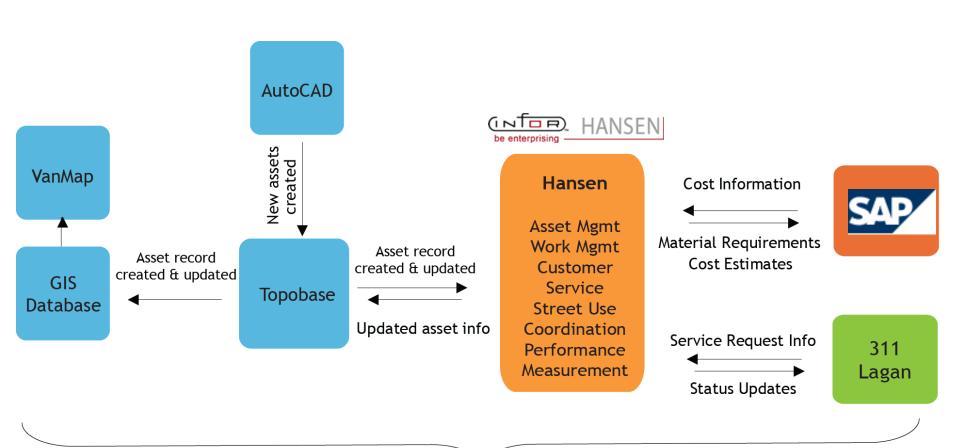
New concepts

- GIS as a front-end to asset management system
 - -Two-way updates
- As-built vs. Design time

GIS asset integration



Integrated Asset Management

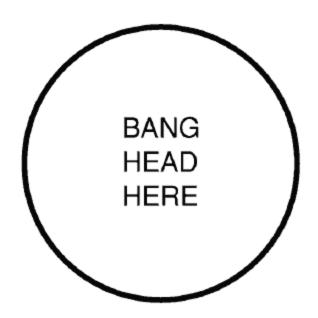


Data is integrated for Systematic Reporting and Operational Efficiency

Please note...it wasn't easy

ANTI-STRESS KIT

- 1. PLACE ON A FIRM SURFACE
- 2. FOLLOW DIRECTIONS IN CIRCLE
- REPEAT UNTIL YOU ARE UNSTRESSED OR BECOME UNCONSCIOUS



But thanks to a talented dedicated team...

We succeeded!



At least for now...

QUESTIONS?