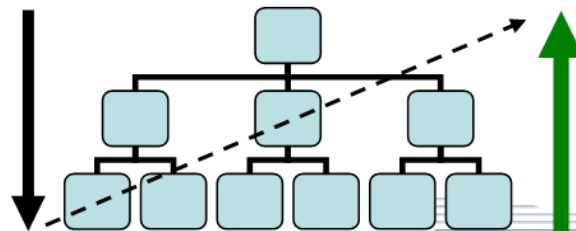




CITY OF
PRINCE GEORGE

From Top-Down to Bottom-Up



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In for the Long Haul...

- Projects:
 - Strategic Infrastructure AM Plan (2004)
 - Top-Down Network Level Assessment (2005)
 - Systems Business Requirements and Implementation (2006)
 - Update to Network Level Assessment (2008)
 - RIVA Pilot Review - Downtown Core (2008)
 - RIVA Implementation (2009)



Strategic Infrastructure AM Plan (2004)

Strategic Infrastructure Asset Management Program Options (Increasing Detail and Complexity)

	Option 1 Basic	Option 2 Knowledge	Option 3 Competence	Option 4 Advanced	Option 5 Sophisticated
1. What do you have?					
2. What is it worth?					
3. What is its condition?					
4. What is the remaining service life?					
5. What do you need to do & When do you need to do?					
6. What is the impact on City cost?					

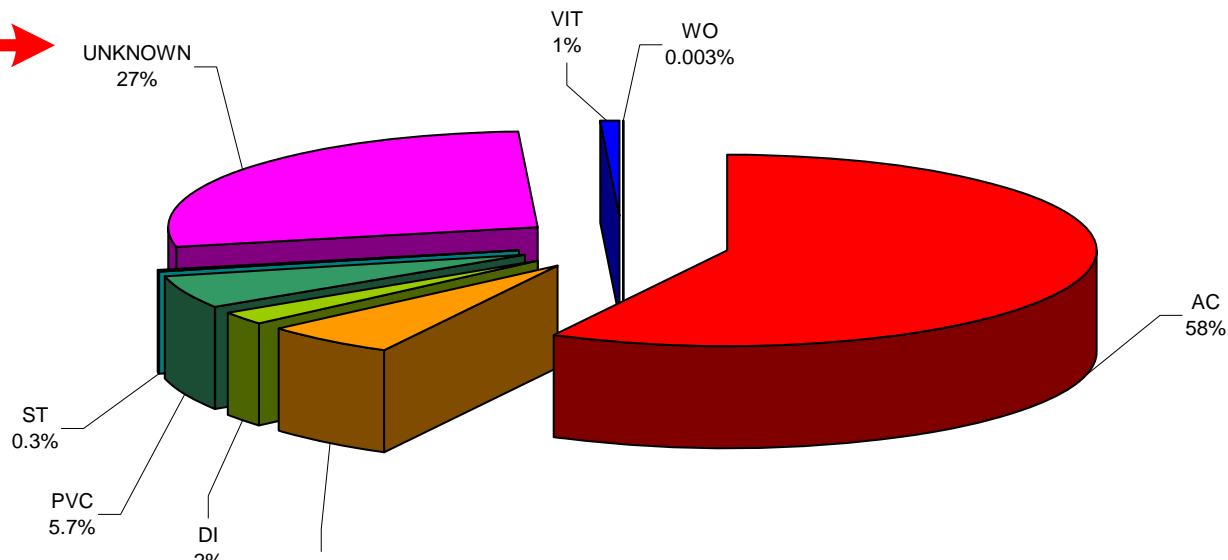


Top-Down Network Level Assessment (2005)

Water Mains		
Asset	Length (m)	Replacement Value (\$)
AC	303,528	\$ 193,971,108
CI	30,292	\$ 18,198,206
DI	11,964	\$ 11,631,880
PVC	29,726	\$ 17,691,297
ST	1,521	\$ 1,500,161
UNKNOWN	143,500	\$ 94,680,931
VIT	4,593	\$ 2,466,413
WO	14	\$ 7,301
TOTAL	525,138	\$ 340,147,296

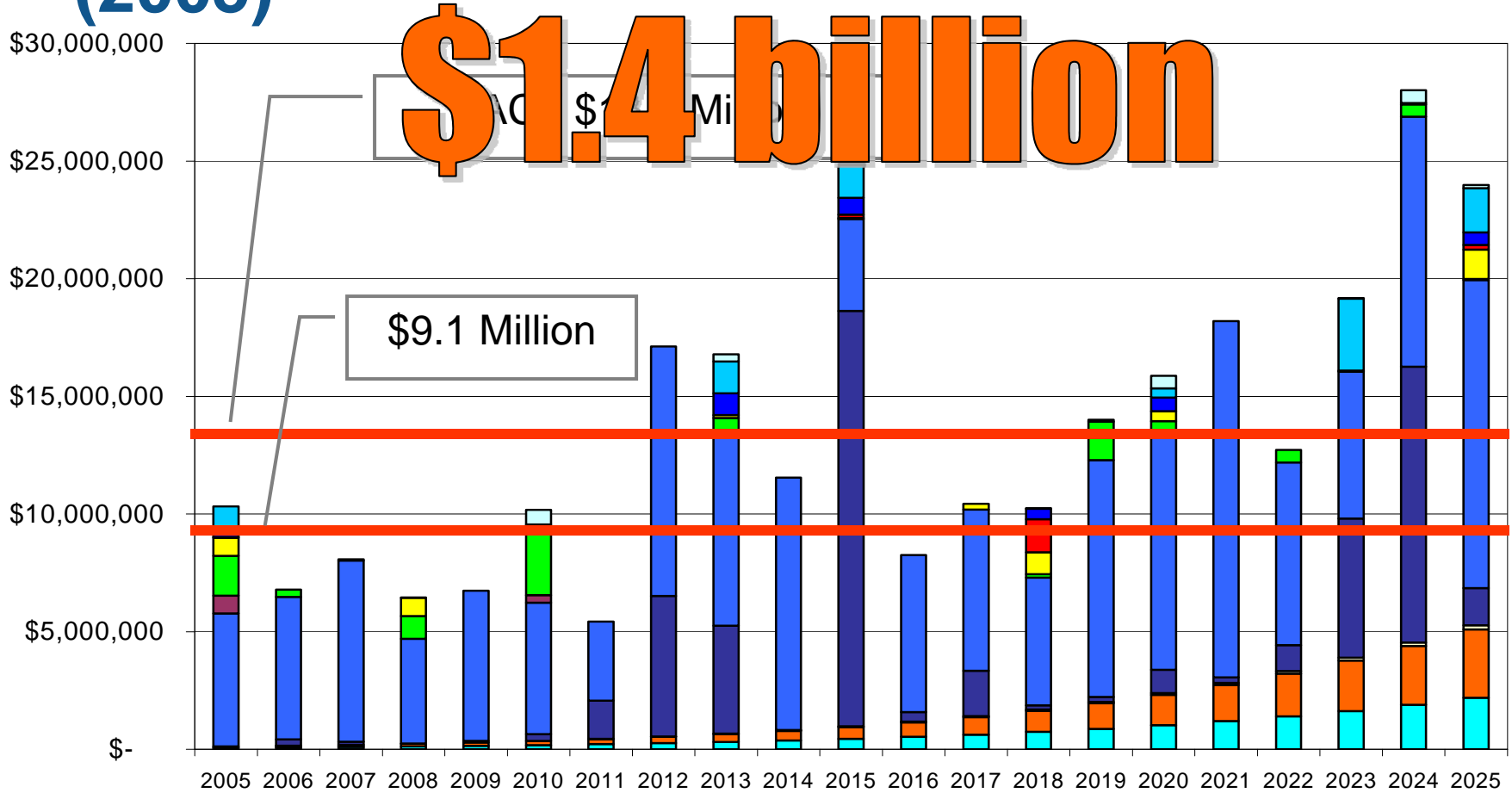


City of Prince George: Breakdown of Water Main Materials



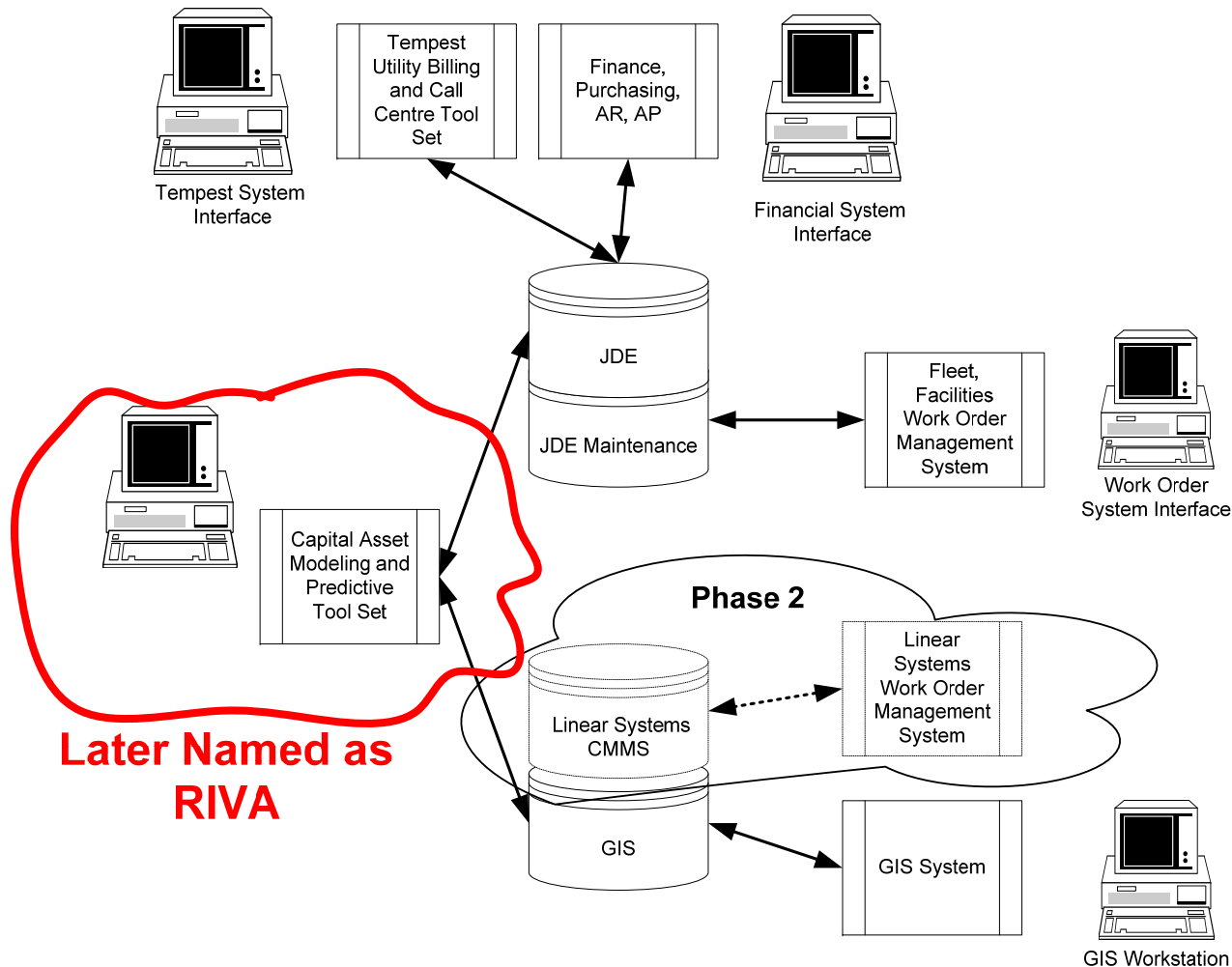


Top-Down Network Level Assessment (2005)





Systems Business Requirements and Implementation (2006)



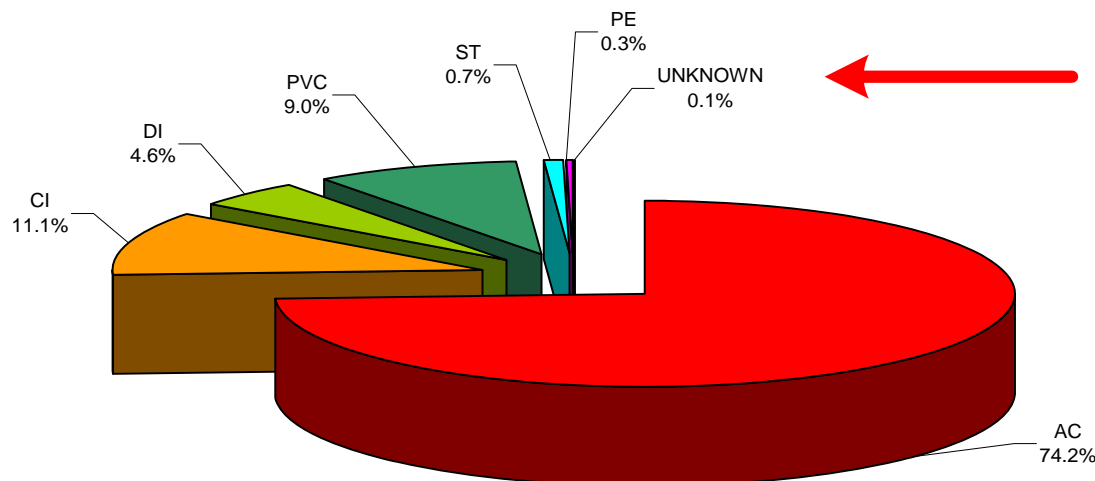


Update to Network Level Assessment (2008)

Water Mains		
Asset	Length (m)	Replacement Value (\$)
Asbestos Cement	397,855	327,704,527
Cast Iron	59,385	49,156,245
Ductile Iron	24,435	38,868,924
PVC	48,164	41,519,481
Steel	3,842	5,060,762
Polyethylene	1,763	5,017,164
Unknown	436	331,852
Vitrified Clay	-	-
Wooden Stave	-	-
TOTAL	535,880	467,658,955



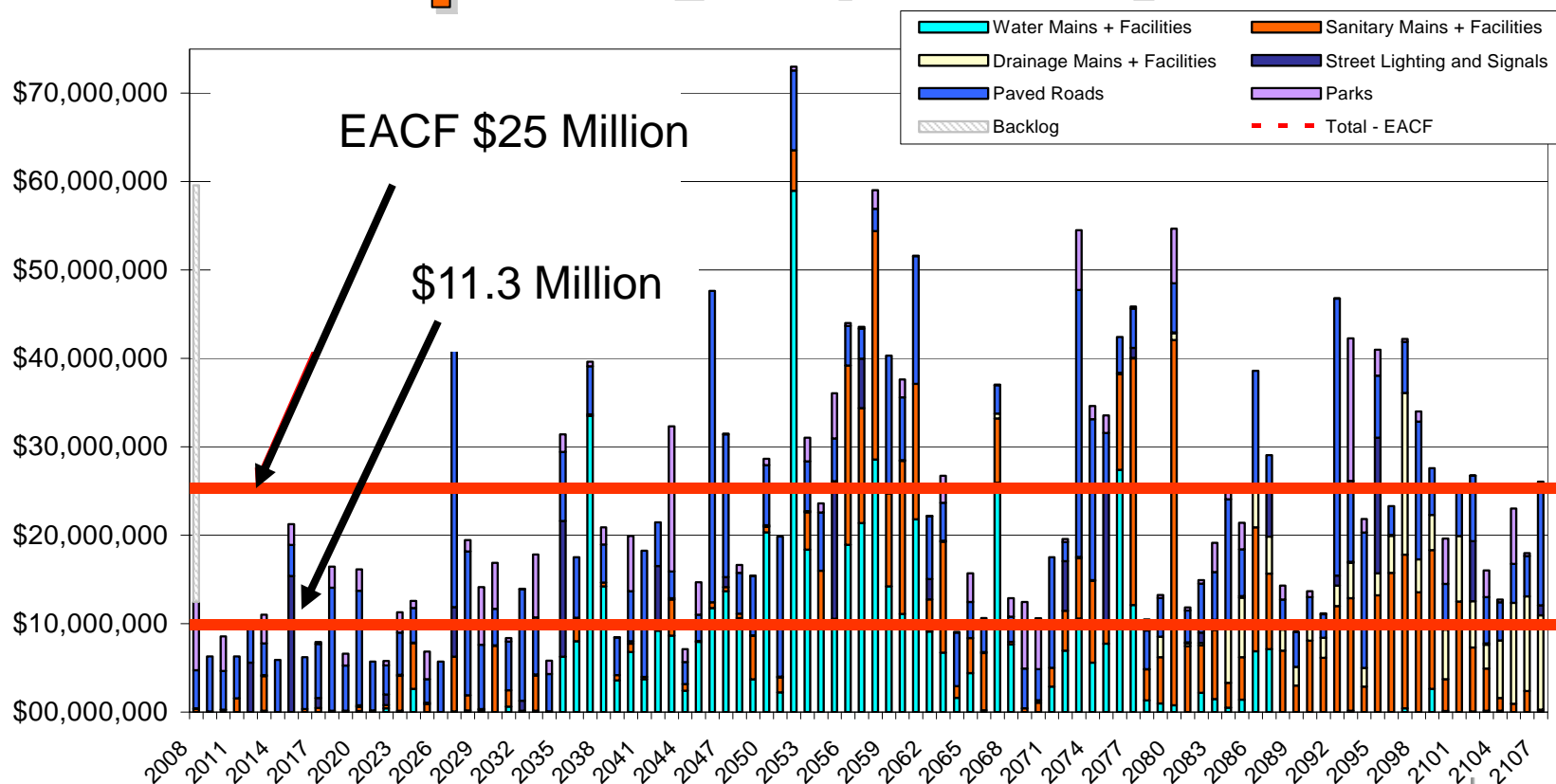
City of Prince George: Breakdown of Water Main Materials





Update to Network Level Assessment (2008)

\$2.0 billion





RIVA Pilot Review - Downtown Core (2008)

Pavement

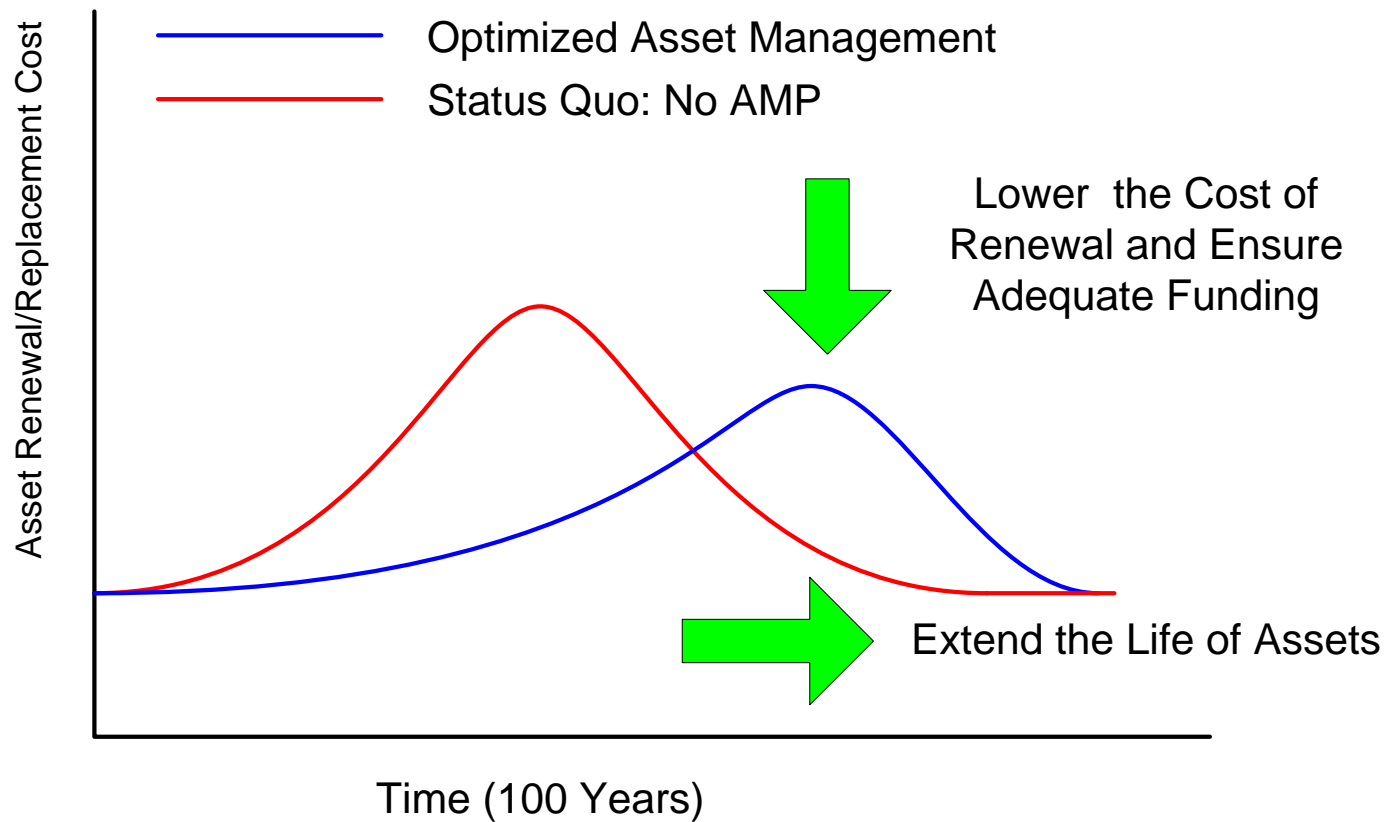
Water
Sewer



Work scheduling can be adjusted to optimize costs



RIVA Implementation (2009) and Beyond





Observations:

- Clear vision is essential to maintain direction.
- Creating employee and council buy-in, and bridging department silos, is crucial.
- Completing pilot studies for advanced AM software is worthwhile – understand what your getting into.
- Only make the change to advanced decision making software if you have the resources to operate it, and the intention to use it.
- Going from Top-down to Bottom-Up takes a long time.



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Thank you.

Over to Frank Blues, City of Prince George

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