



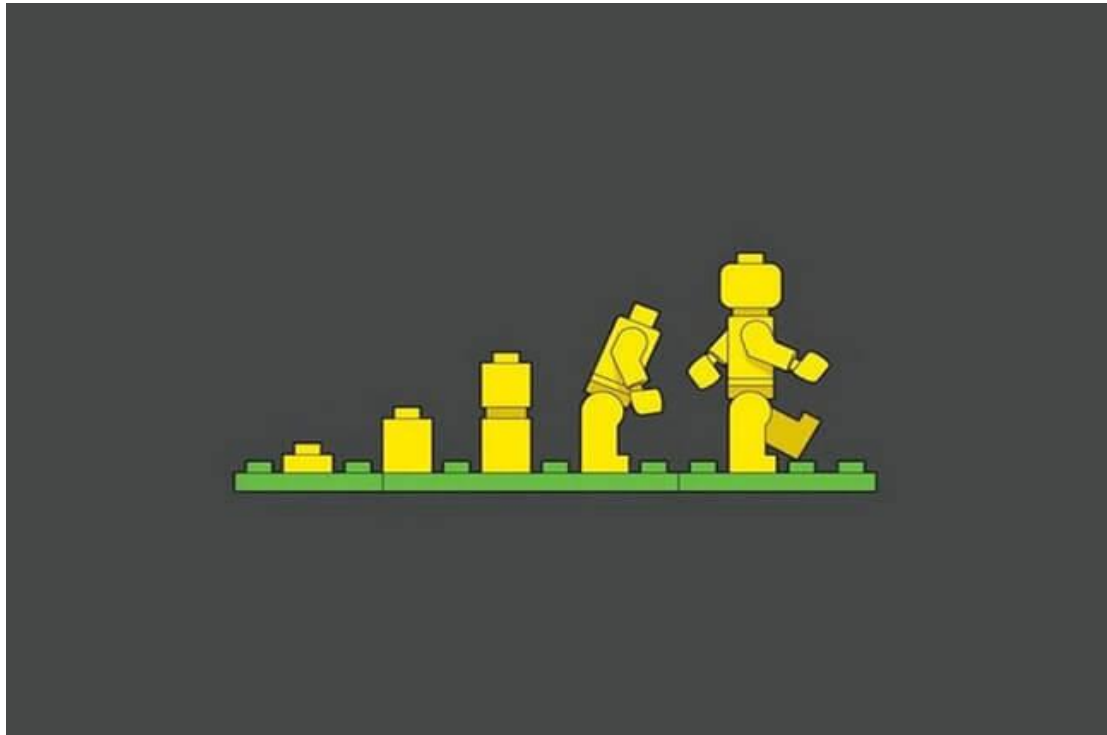
Understanding How Data Ties It All Together Calgary Parks

Oct 9, 2019

IAMA October Workshop

IAMA Trivia

What are some readily available pieces of information that you can use when starting off in asset management?





Calgary Parks History...The Dark Ages...

- Pre-1998 – Info 2000
 - DOS based activity tracking system
- 1998-2009 – PAMMS
 - Tracked ‘frequencies’ of activities
 - Primarily a T&L program
 - Historical data walked out the door



Calgary Parks History...The Renaissance

PARIS - Parks Asset Reporting & Information System

- 3.5 years in development & \$8.5M
- Record work performed on an asset
- Plan & schedule work based on ACR
- Integrated GIS & WAM and several other systems



PARIS

Parks Asset Reporting
& Information System





Drivers for Change

- Tangible Capital Assets Reporting - PSAS 3150
 - what, where, when and value for all 'known' assets
- Necessity to know all of our assets
- Confirm & develop processes to manage the inventory
- Shift towards Asset Management corporately

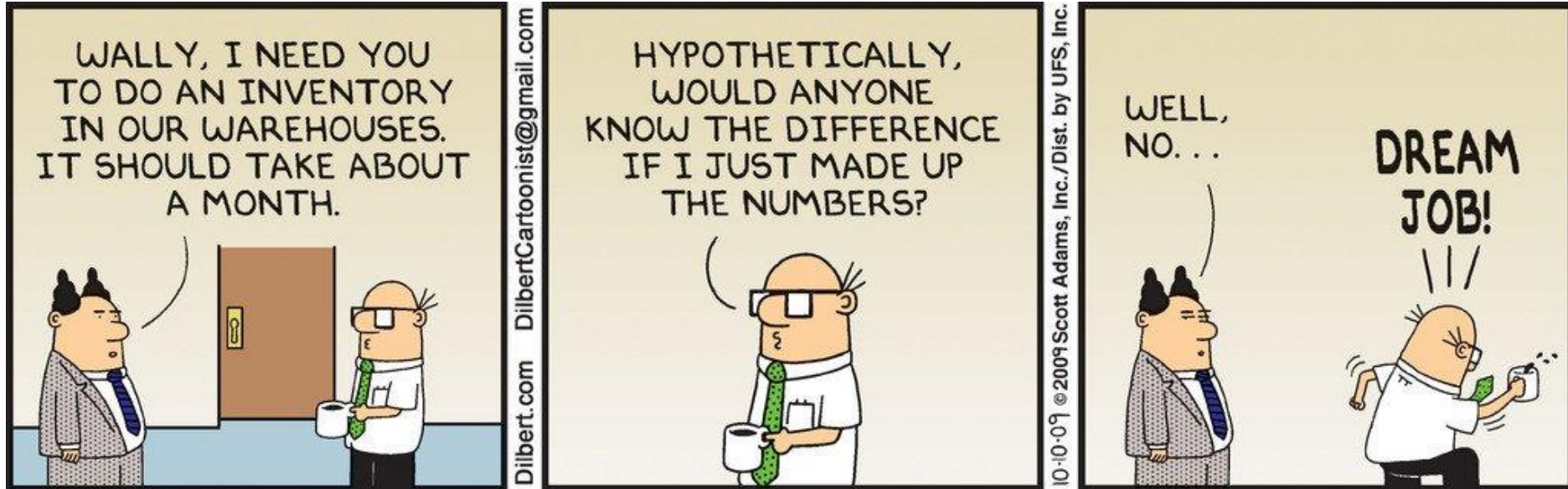


What are the basic pieces of information required for asset management?

- What it is
- Where it is
- What condition is it in



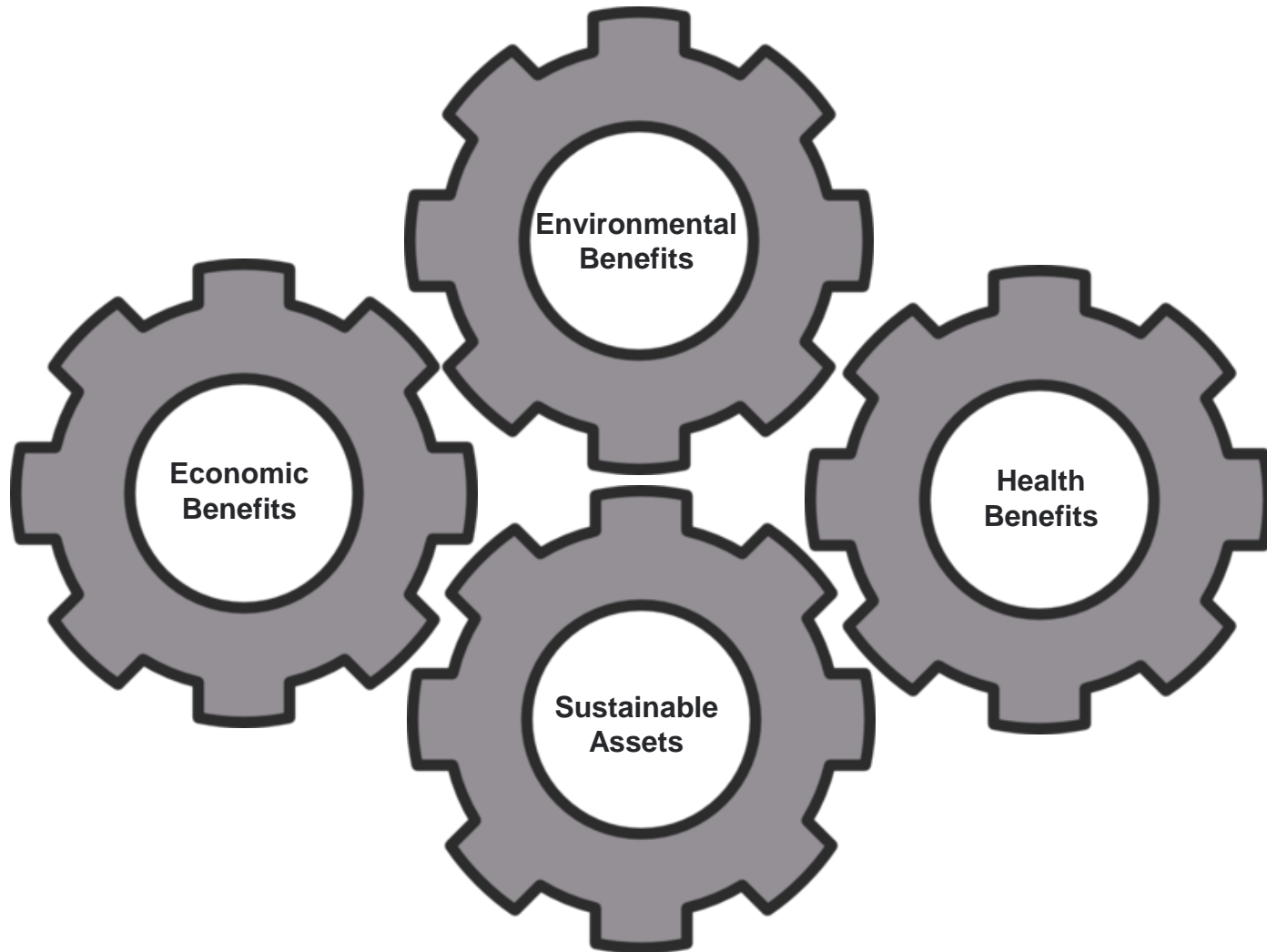
Parks Asset Management – Where To Start?



- Confidence in our asset data
- Condition ratings

Now we have data – so what?





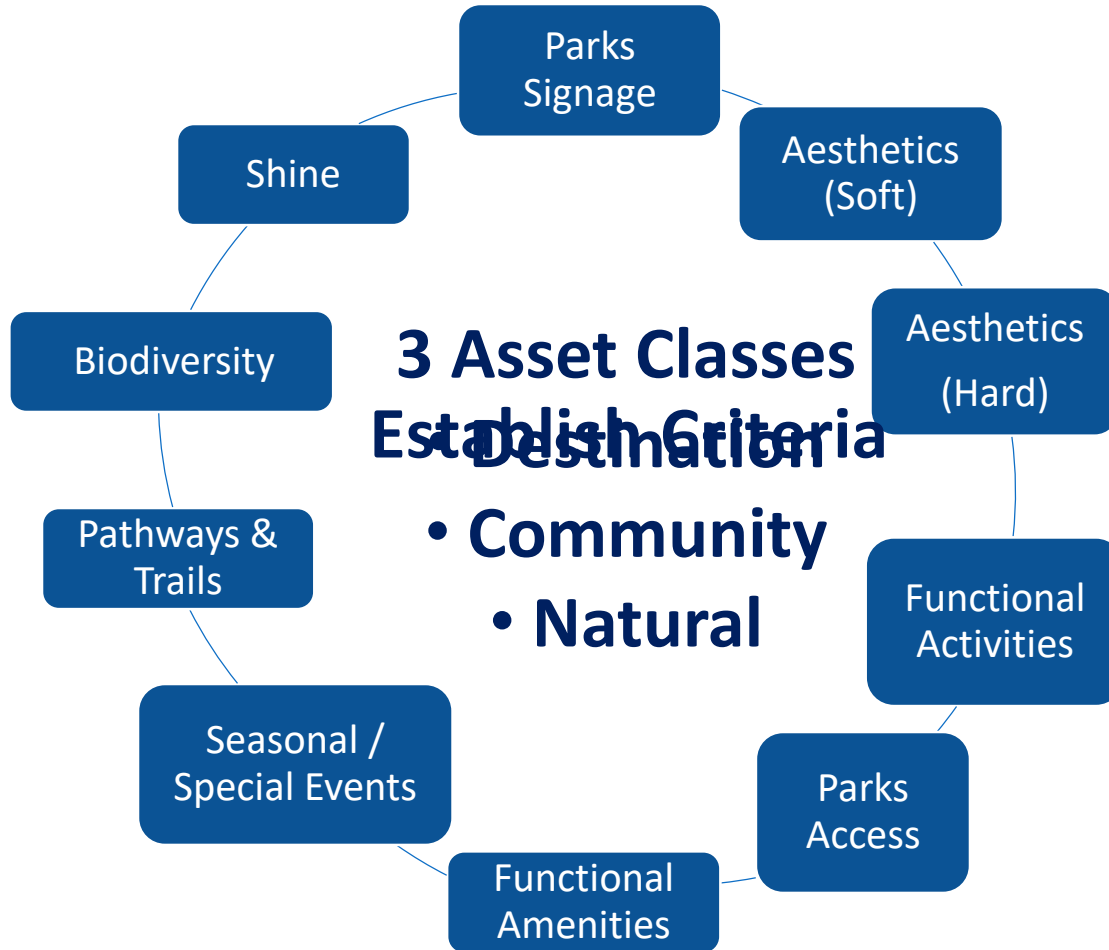


Asset Condition Rating – Informing Decisions

1 - Excellent	Monitor
2 - Good	
3 - Fair	Ops
4 - Poor	Capital
5 - Fail	




Customer Level of Service



CLOS in Practice



Central Memorial Park – Downtown Destination Park – CLOS 2.0

- Highly maintained
- Budget constraints  decrease in level of service





CLOS in Practice

Service Category	Pair Wise Weighted Value	Central Memorial (Actual)	Central Memorial (Adjusted)
Park Access	0.06	[Redacted]	[Redacted]
Park Signage	0.02		
Park Aesthetics (Soft)	0.21		
Park Aesthetics (Hard)	0.09		
Functionality – Activities	0.17		
Functionality – Amenities	0.12		
Functionality – Seasonal / Sp Events	0.12		
Pathways & Trails	0.19		
Biodiversity	0.02		
Shine	-0.25		
Total			



Central Memorial Park CLOS = 2.5

- Reduced edging on trails
- 1 fountain left off an additional month
- Result:
 - ✓ Savings of 20% in maintenance costs
 - ✓ No citizen complaints

CALGARY LAWN BOWLING CLUB

TURF
G-28000184
CLASS B

1236

10m
40ft

Map Coords:
X = -6343.93



park pavilion and overlook

alley

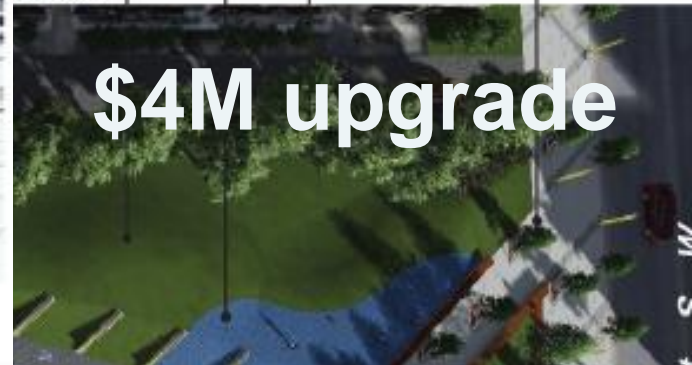
open green space

new north playground
with rubberized surface

existing trees to
remain

- 11th street c
- undulating seat walls
 - illuminated columns
 - custom tree grates
 - urban forest

nature:
mountains



\$4M upgrade



open green
space & picnic
area

work
here

new planting area

existing
space f



curved pathway through park, water feature and north play area

Holistic LOS approach (Thompson family Park)

Asset	Cost	CLOS
Irrigation	\$200	3
Garbage collection	\$800	4
Hard surface (reactive)	\$500	4
Playground Inspection	\$500	3
Mow	\$1,000	4
Tree & Shrub Pruning (Reactive)	\$1,100	3
Furniture (reactive)	\$500	4
Total	\$4,600	3.5



Holistic LOS approach (Thompson family Park)

Asset	Cost	CLOS
Irrigation	\$16,000	2
Garbage collection	\$3,500	2
Playground Program	\$1,000	2
Turf Management	\$10,000	2
Tree & Shrub Pruning (Reactive)	\$10,000	2
Water Feature	\$30,000	2
Furniture	\$10,000	2
Flowers	\$20,000	2
Ice Rink	\$30,000	2
Shine a.k.a. Customer Clean up	\$20,000	2
Electrical	\$10,000	2
Snow Removal	\$20,000	2
Total	\$180,500	2

Putting it All Together – Informing Decision Making and Forecasting



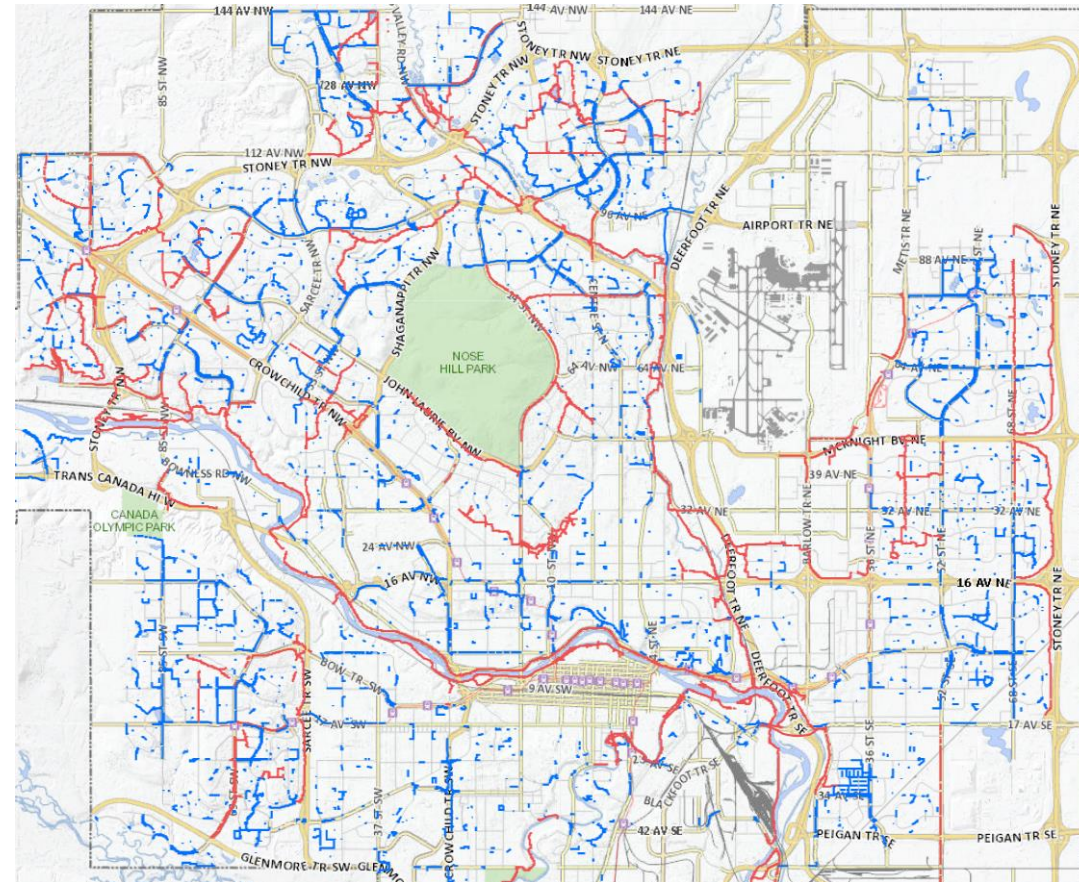
Use all pertinent data:

- Physical
- Functional
- Demand
- Customer level of service actual & target

Adding to the Story – Operational Data

SNIC 2018-2019

- ▶ ~ 400 Km of Pathways
- ▶ ~ 600 Km of Sidewalks
- ▶ ~ 2,000 Traffic Islands and Medians

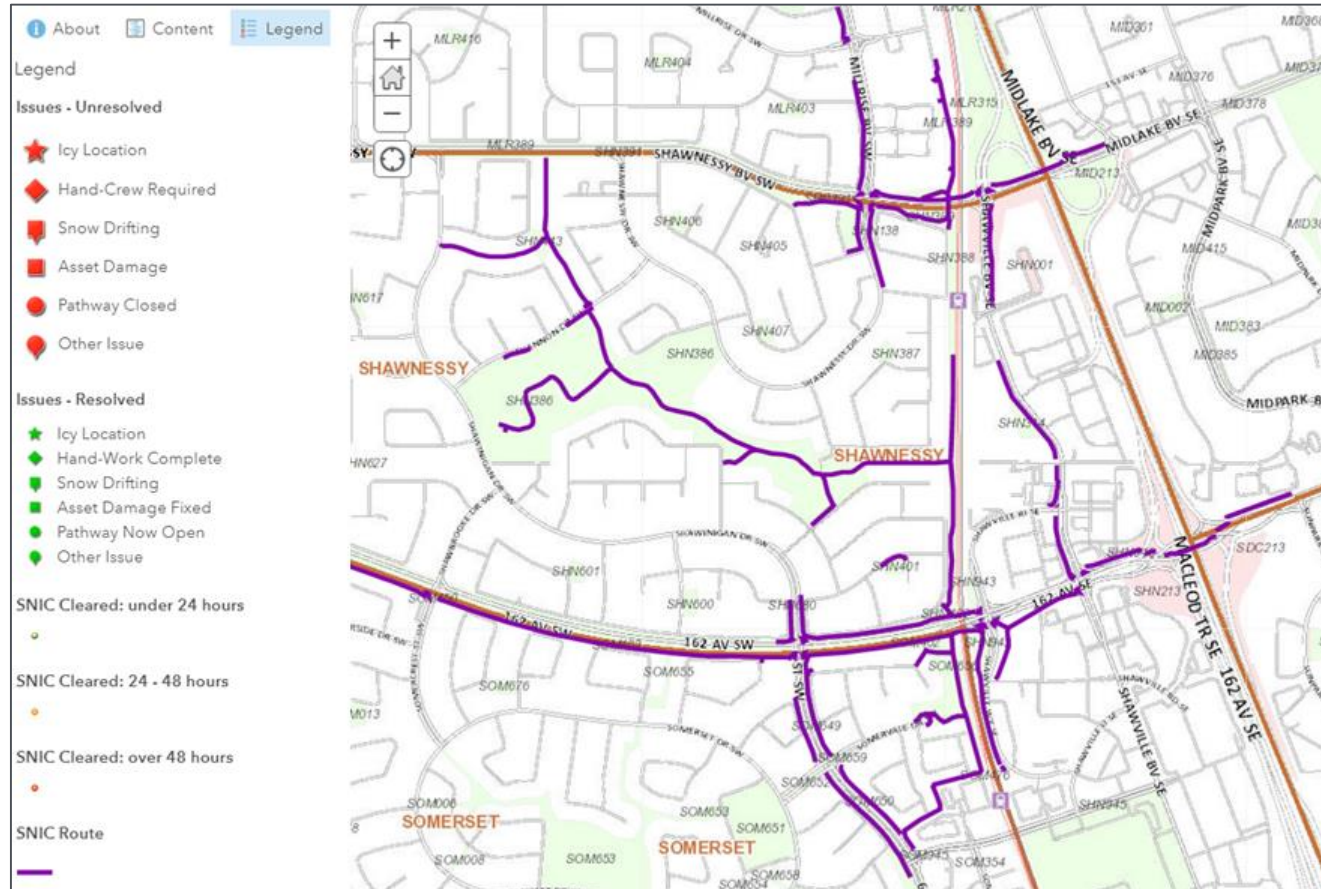


Adding to the Story – Operational Data

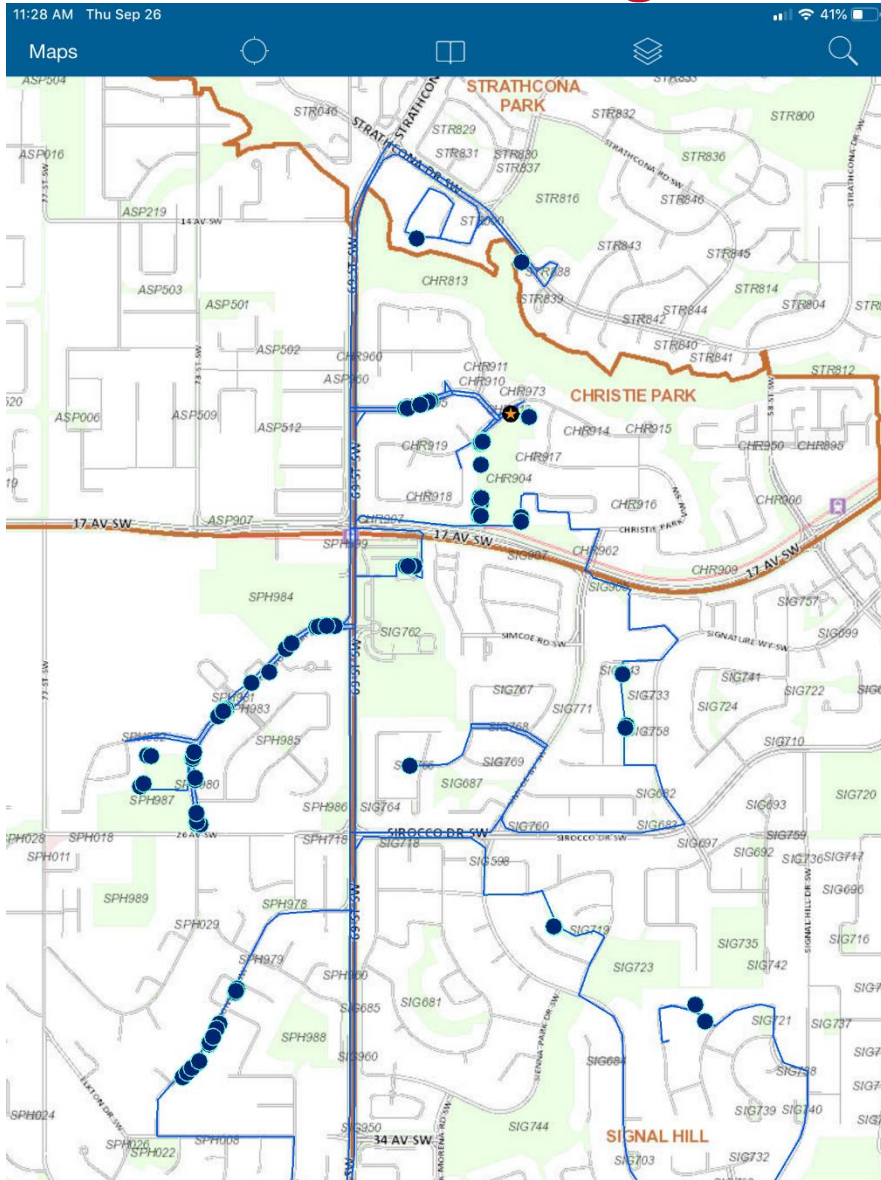
SNIC 2018-2019

24-hours to clear
all Pedestrian
Infrastructure

Total Cost =
\$1.5M



Adding to the Story – Operational Data



Tree Watering

- ▶ Watered for first 5 years
 - ▶ New trees – every 7 days
 - ▶ 1 yr old – every 14 days
 - ▶ 2 yrs old – every 30 days
 - ▶ 3-4 years – every 75 days
- ▶ Over 200,000 waterings
- ▶ Total cost = \$1.6M



Adding to the Story – Operational Data

Mowing

- ▶ Over 3700 hectares mowed
- ▶ Total Cost = ~\$5M

Amount mowed in out of Total # of Turf Assets

330 / 521

Last update: a few seconds ago

Passed Inspections

258

Last update: a few seconds ago

- 09Q787 6/5/2019 Jeff.Hodges
- RED576 6/5/2019 Jeff.Hodges
- DOV010 6/5/2019 Jeff.Hodges
- ERI066 6/5/2019 Jeff.Hodges
- DOV777 6/5/2019

Turf Assets Mowed in Last 2 Weeks

330

Last update: a few seconds ago

- MRL522 6/5/2019 Devi.Dayal.APX 27,210.44
- COR369 6/5/2019 Sheldon.Barriault_apx 65.22
- COR356 6/5/2019 Sheldon.Barriault_apx 1,386.67
- COR368 6/5/2019 Sheldon.Barriault_apx 141.65
- COR352 6/5/2019 Sheldon.Barriault_apx 138.39
- COR349 6/5/2019 Sheldon.Barriault_apx 59.26
- COR348 6/5/2019

Failed Inspections

16

Last update: a few seconds ago

- FLN606 6/5/2019 Jeff.Hodges
- ALB632 6/5/2019 Jeff.Hodges
- FHT591 6/5/2019 Jeff.Hodges
- WHI012 6/4/2019 Jeff.Hodges
- MPK539 6/4/2019 alison.keeler

The City of Calgary | The City of Calgary.

Legend

- Slope - Do Not Mow
- Issue Point - Construction
- Issue Point - Resolved
- Issue Point
- Failed Inspection

Unresolved Issue Points (All Zones)

- TRIMMING BobbiJo.Russell
- OTHER Sheila.Brookes_thecityofcalgary
- OTHER Rhayne.Vandel_apx
- OTHER Patrick.Gerald_APX
- OTHER Patrick.Gerald_APX
- OTHER Patrick.Gerald_APX
- OTHER Patrick.Gerald_APX
- OTHER Shane.Stanford

CTMCD Last update: a few seconds ago



The “Happily Ever After” of the AM Story

- Informed Capital decisions (using ACR then adding other data such as demand, functionality)
- Ability to identify operational efficiencies – ex. Central Memorial Park
- **Know your numbers** - ability to explain the cost of services AND what budget cuts could mean to level of service
- **Know your numbers** - more funding when Council/Administration ask for a higher level of service
ex. Pathway SNIC priority applied to sidewalks
- **Know your numbers** - informed operating budget decisions



What's the theme of this presentation

- Start with the data you have
- Know why you are gathering the data
- Know your numbers so you can tell your story



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