

Proposed Levels of Service

Preparing for Compliance with O.Reg 588/17 by July 1st, 2025 March 6, 2025



O.Reg 588/17 Compliance Requirements for July 1st 2025

Earlier requirements focused on current levels of service, asset conditions, and high-level risk management. The 2025 update requires a forward-looking approach that directly connects risk, lifecycle planning, and financial strategies to proposed levels of service.

Key additions:

- Proposed Levels of Service Define future service targets for each asset category and service
- Risk Assessment Tied to Service Levels Risks must be evaluated in relation to their impact on achieving proposed service levels.
- Lifecycle Management Strategy Plans must detail how assets will be maintained, rehabilitated, and replaced to sustain proposed service levels.
- Financial Strategy for Service Sustainability Outline how asset needs will be funded while meeting service targets over the long term.



Proposed Levels of Service



Asset Management Strategy

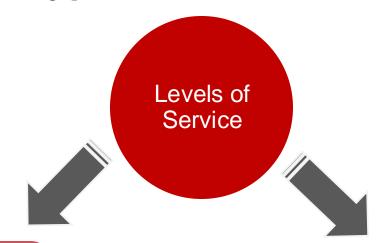


Each One Impacts the Others



Levels of Service Types

Qualitative measures of what the community receives from the service



Quantitative measures of the assets' ability to support community services

Community Levels of Service



Technical Levels of Service



Asset Levels of Service (Inform the Capital Plan)

Operating Maintenance
Levels of Service
(Inform the Operating
Plan)



Current TLOS vs Proposed TLOS

Asset Class

Current TLOS

Proposed TLOS

Groups of like assets serving a similar service function and governed by common LOS measures typically established by industry precedent.

The averaged ratings of all the assets in the asset class. Typically applies only to ALOS.

Targets selected by the municipality to ensure safe, adequate, efficient, effective and accessible services. Used for both ALOS and OMLOS.

Bridges

Average BCI = 65 (Fair)

ALOS: Minimum BCI = 70 (Good)

OMLOS: Washed annually

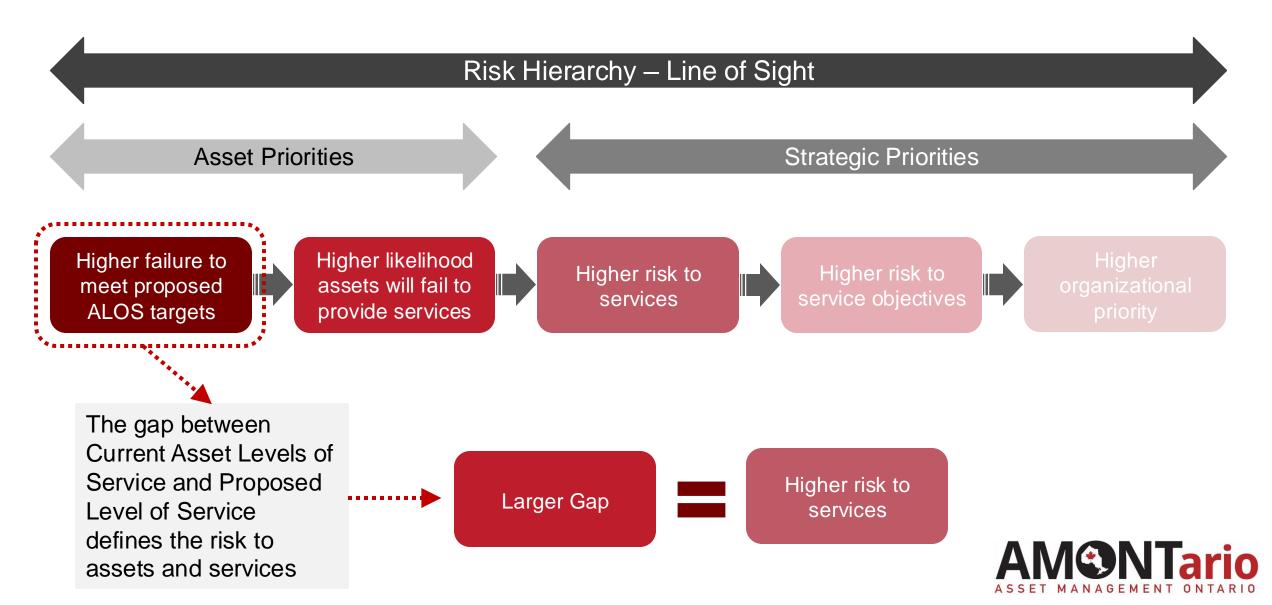
Recreation Facilities

Average FCI = 12% (Fair)

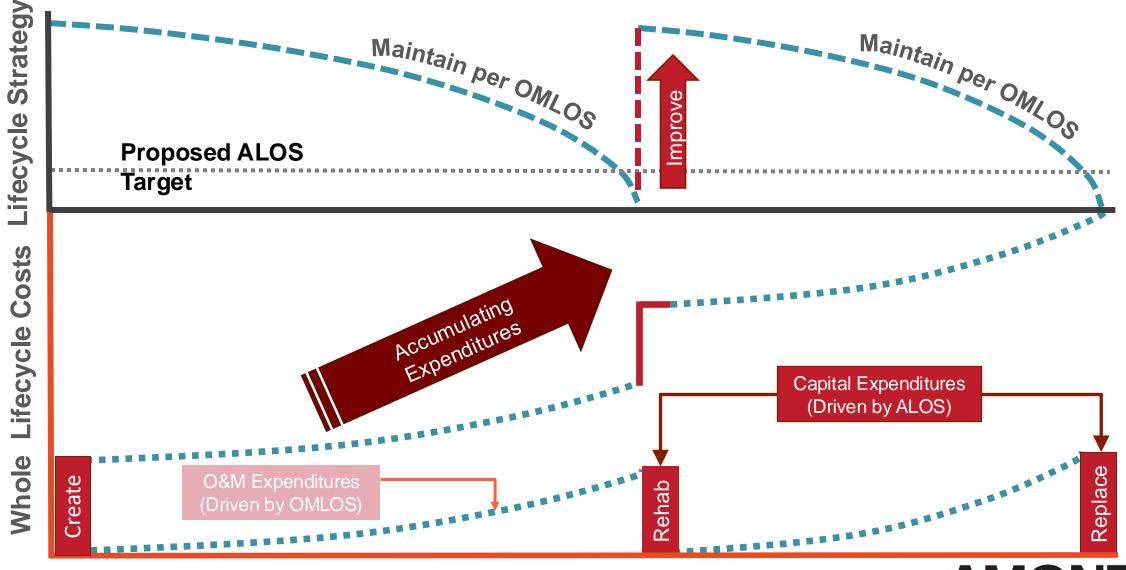
ALOS: Minimum FCI = 5% (Good)
OMLOS: Repaint every 4 years



Proposed ALOS informs Enterprise Risk Management



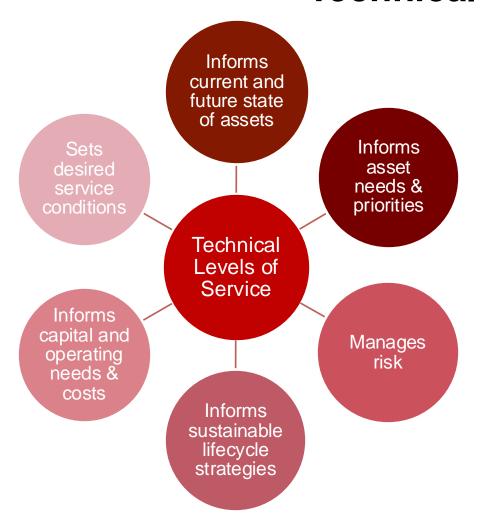
Proposed Levels of Service Drive Financial Planning



Financial Plan



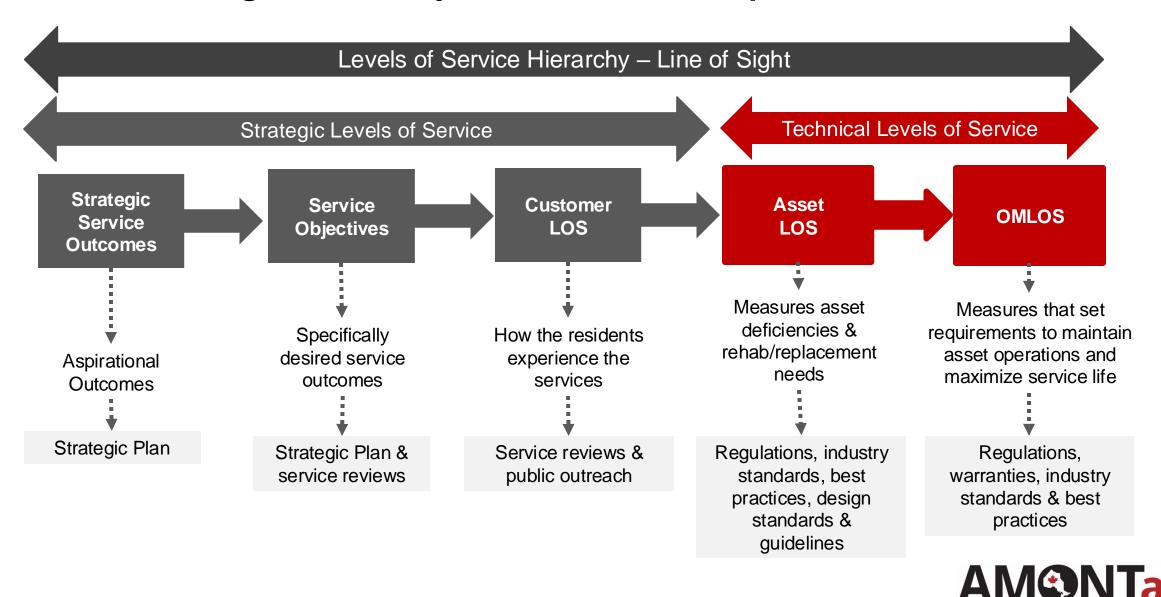
Technical Levels of Service



- Align with strategic service objectives
- Applied consistently across the asset class to measure each assets' ability to provide services
- Maximize asset value
- Provide multifunctional uses for planning & decision making
- Are simple, outcome-based & few as possible
- Use industry precedent & regulations as much as possible when defining LOS



Connecting Service Objectives to Asset Requirements



Proposed Levels of Service – Roads

Roads



CLOS



Proposed TLOS

A safe, reliable road network that is accessible year-round







Condition

Proposed PCI =70 (Good)

Performance

Properly designed geometrics, sightlines and platform width per Geometric Design Standards for Ontario Highways

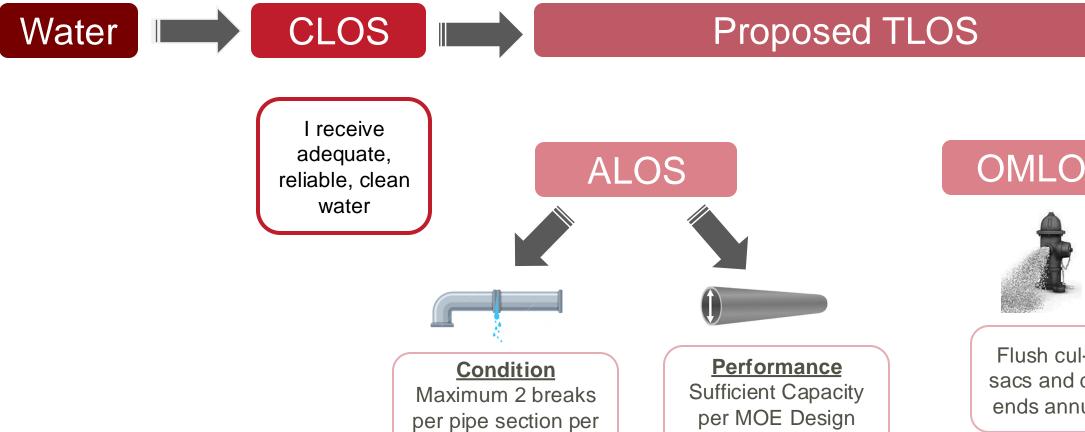
OMLOS



Repairs, maintenance and inspections meet Provincial Minimum Maintenance Standards



Proposed Levels of Service – Water



Council directive

Guidelines

OMLOS

Flush cul-desacs and dead ends annually



AMONTario Level of Service Template Example: Water

	Program Service Objectives	Community Levels of Service	Service Division	Supporting Asset Classes	Technical Levels of Service						
Service							Current Asset Levels of Service		Operating Maintenance Levels of Service		
					Asset Levels of Service Description (by Asset Class)	Proposed Target	Asset Class Average	Distribution by Asset Rating % % % % %	Activity	Current LOS	Target LOS
				Pumping Stations	Condition	Condition Condition					
	Safe, reliable and efficient potable water services	Consistent and reliable			Mechanical Process Systems	Good	Fair		Vibration Testing	Every 5 years	Every 2 years
		water supply			Electrical Process Systems	Good	Fair	10 80 10	Major Equipment Inspection	Every 2 years	Annually
					Distribution Civil Assets	Good	Fair	10 10 70 10	Standby Generator Testing	Annually	Annually
		The system is efficiently designed and managed			Performance		Performance				
					Operational Functionality	Good	Fair	2 66 5 22 6			
					Capacity to Meet Demands	Good	Good	80 10 10			
					Operational Resiliency	Good	Fair	71 7 15 6			
Water					Environmental Resiliency	Good	Good	100 50 50			
vvatei				Treated Water - Storage	Condition	Condition Condition					
		The system is efficiently			In-ground Storage Cells	Good	Fair	80 20	Condition Inspection	Annually	Annually
		designed and managed									
						••••••••		<u> </u>	•		
		The water system is kept in good condition			Performance		Performance		1		
					Operational Functionality	Good	Good	60 40			
					Capacity to Meet Demands	Good	Fair	40 60	•		
					Operational Resiliency	Good	Good	100			
					Environmental Resiliency	Good	Good	100	•		

Performance Ratings and Corresponding Likelihood of Failure

VERY GOOD	GOOD	FAIR	POOR	VERY POOR
- Exceeds or fully meets performance	- Meets performance requirements.	- Just meets performance requirements with	- Does not meet several performance	- Does not meet many or most performance
requirements.	- No affect to services	some limitations	requirements.	requirements.
- No affect to services		- Possible minor affects to services.	- Minor to moderate and/or sporadic affects	- Moderate to significant and/or ongoing
			to services	affects to services.
Likelihood of Failure	Likelihood of Failure	Likelihood of Failure	Likelihood of Failure	Likelihood of Failure
Very Unlikely	Unlikely	Possible	Likely	Very Likely or Certain

Technical Levels of Service vs Key Performance Indicators

Technical Leve	Key Performance Indicators		
ALOS	OMLOS	(KPIs)	
Measures used to assess the state of each asset and to identify specific deficiencies and capital needs.	Measures of the regular ongoing activities to keep assets properly operating and/or maximize service life.	Measures the outcomes of Technical Levels of Service Targets	
Proposed Condition ALOS: Minimum condition of Storm Sewer Pipes must be PACP 3 (Fair) or better. <u>Decision</u> : All pipes below PACP with PACP = 4 or 5 ('Poor' or 'Very Poor') need relining or replacement to mitigate potential failures.	Proposed OMLOS: Condition assessments are performed on 10% of the stormwater sewer network each year. <u>Decision</u> : Are the pipes being inspected frequently enough to mitigate potential failures?	Percentage (%) of stormwater sewer assets in 'Fair' condition or better. <u>Decision</u> : How are we progressing toward meeting proposed ALOS and OMLOS targets?	
Proposed Performance ALOS: Sufficient urban road storm sewer capacity to accommodate a 5-year storm event. <u>Decision</u> : All pipes with less than 5-year storm capacity need upgrading to mitigate excessive overland flooding.	Proposed OMLOS: Inspect and clean catch basins every 2 years. <u>Decision</u> : Are catch basins being inspected and cleaned frequently enough to ensure proper operation to mitigate excessive overland flooding?	Number of road flooding occurrences during 5-year or less storm events. <u>Decision</u> : How are we progressing toward meeting proposed ALOS and OMLOS targets?	



Selecting Effective Proposed Asset Levels of Service

A good proposed Condition Asset Level of Service

- "Maintain recreation facilities at a facility condition index of 5% (Good) or better"
- Decision outcomes:
 - Sets a clear target that states that every facility not meeting an FCI of 5% or better requires capital upgrades
 - Provides a measure for determining the risk at each facility
 - Uses a common industry measurement
 - Says to the community that safe, efficient and accessible facilities are important to the municipality

A poor proposed Condition Asset Level of Service

- " Maintain the average FCI of the recreation facility portfolio at 5% (Good)
- Decision Outcomes: Incomplete
 - Does not state or require that all buildings need to be to the same standard (some can be "Very Good", and some can be "Very Poor but the proposed ALOS is met if the average is 'Good')
 - Does not say to the community that all buildings are valued equally and maintained to the same standard
 - Potentially understates the portfolio needs and risks complicates decisions.

Selecting Effective Proposed Operating Maintenance Levels of Service

- A good proposed Operating Maintenance Level of Service
 - "Public spaces in recreation facilities are cleaned daily"
 - "The interior of the facilities are painted every 4 years"
 - "Critical systems are inspected and/or tested monthly"
 - Decision outcomes:
 - Defines the specific operating activity and frequency
 - Sets a benchmark against which to evaluate, calculate and validate operating costs
 - Says to the community that safe, clean and appealing facilities are important to the municipality
- A poor proposed Operating Maintenance Level of Service
 - "Maintain the average operating costs of the recreation facilities at \$X per square metre"
 - Decision Outcome: Unclear
 - Does not set specific activities or targets necessary to maintain facilities at desired service levels or costs.
 - Does not provide the transparency to analyze what is driving costs and what to adjust to manage costs
 - Does not state what is valuable to the customer (safe, clean, appealing facilities)



LOS and Decision Outcomes – Recreational Facilities

Service Objectives

Community LOS

Proposed Asset LOS

Proposed Operating Maintenance LOS

Measures

"Welcoming, accessible recreational services that meet the needs of the community"

Measured by:

- Bookings & registrations
- Rentals & space utilization

"The recreation centres provide affordable services that the community wants" Measured by:

- Registration levels
- Demand for new services
- Space utilization

- Facility condition using FCI
- Facility **performance**:
 - Adequacy of space
 - Flexibility of space uses
 - Efficiency & capacity of HVAC, electrical, water & sewer

- Regular facility inspections
- Minor maintenance routines (cleaning, painting)
- Inspection & testing of emergency/critical systems

largets

- Minimum space utilization = X% / year
- Minimum Fee collection = X% of operational costs

Bookings and registrations for programs and services = a minimum of X % of capacity space and program capacity

- Condition: FCI = 5% (Good) or better
- Performance:
 - Facility Spaces = Good
 - Facility Systems = Good

- Annual condition inspections
- Clean weekly, paint annually
- Test/inspect critical systems monthly

Decisions

Are we meeting strategic goals?

Are we meeting community service expectations?

Which facilities require capital upgrades and what are the costs to support service expectations?

Are the annual operating activities and costs appropriate and sustainable for supporting service expectations?

Tips for Selecting Technical Levels of Service

- Critical assets should be given higher LOS targets
 - i.e. use measures that equate to "Good"
- Use precedent as much as possible when selecting measures and targets:
 - Industry standards and guidelines
 - Regulations
 - Best practices
- Focus on selecting effective Technical Levels of Service
 - Avoid using design criteria: too numerous and detailed
 - Measures must have a clear relationship between the assets and services
 - Should lead to effective decision outcomes
 - Avoid KPIs
- The measures can be applied consistently to each asset in the asset class
 - Strong enough to detect critical deficiencies in the asset portfolio



AMONTario Levels of Service Strategy

Asset Levels of Service	Measurement Attributes Using Industry Measures, Ministry Design Guidelines, Regulations, & Other Precedents	Proposed ALOS Targets			
Condition	Physical state of the asset measured by condition rating systems: PCI, BCI, FCI, PACP, "Very Good" to "Very Poor," etc.				
Operational Functionality	 Efficiency and effectiveness of service delivery. Ability to meet minimum current design and/or safety requirements. Level of operational problems experienced and whether they affect community services. Compliance with current Regulations and/or Standards (including the level of "grandfathering"). Whether all required elements are present. Relevance and effectiveness of technology. Efficiency of resource consumption. To what degree capacity satisfies current demands and minimum community service levels. Level of operational problems experienced. Are there noticeable negative impacts on community service levels or stakeholders. 				
Capacity to Meet Demands					
Operational Resiliency	 To what degree minimum service requirements are maintained/protected with back-up systems, spare capacity, or alternative supply. To what extent the assets are secure from acts of vandalism, trespassing, theft, assault, or terrorism. 				
Environmental Resiliency	 To what extent the assets are resilient to environmental stresses; e.g., impacts from wind, fire, flooding, excessive rainfall/snowfall, etc. To what extent are the assets are made resilient to the impacts of climate change. 				

AMONTario Levels of Service Strategy

	Predominant Community Service Outcomes							
Asset Levels of Service	Health & Safety	Reliability	Quality	Quantity	Efficiency	Accessibility		
Condition	X	X	X	X	X	X		
Operational Functionality	X	X	X		X	X		
Capacity to Meet Demands	Х	Х	Х	Х	X	Х		
Operational Resiliency	Х	Х				Х		
Environmental Resiliency	Х	X				Х		



AMONTario Levels of Service and Risk Management Strategy

Asset Level of Service and Corresponding Likelihood of Failure										
	Condition Lev	els of Servic	е	Performance Levels of Service						
ALOS Measures	Correspon	ding Likelihoo Measures	d of Failure	ALOS M	leasures	Corresponding Likelihood of Failure Measures				
Varies by asset type and rating method.	Likelihood of Failure Ratings	Estimated Timeframe	% Likelihood of Failure	Operational Functionality	ALOS Rating	Likelihood of Failure Ratings	% Likelihood of Failure			
Very Good to Good	Very Unlikely	>20 yrs.	<10%	Capacity to Meet Demands	Very Good	Very Unlikely	<10%			
Good to Fair	Unlikely	11-20 yrs.	10%-30%		Good	Unlikely	10%-30%			
Fair to Poor	Possible	6-10 yrs.	30%-60%	Operational	Fair	Possible	30%-60%			
Poor to Very Poor	Likely	1-5 yrs.	60%-90%	Resiliency Environment	Poor	Likely	60%-90%			
Very Poor	Very Likely or Certain	<1 yr.	>90%	al Resiliency	Very Poor	Very Likely or Certain	>90%			





