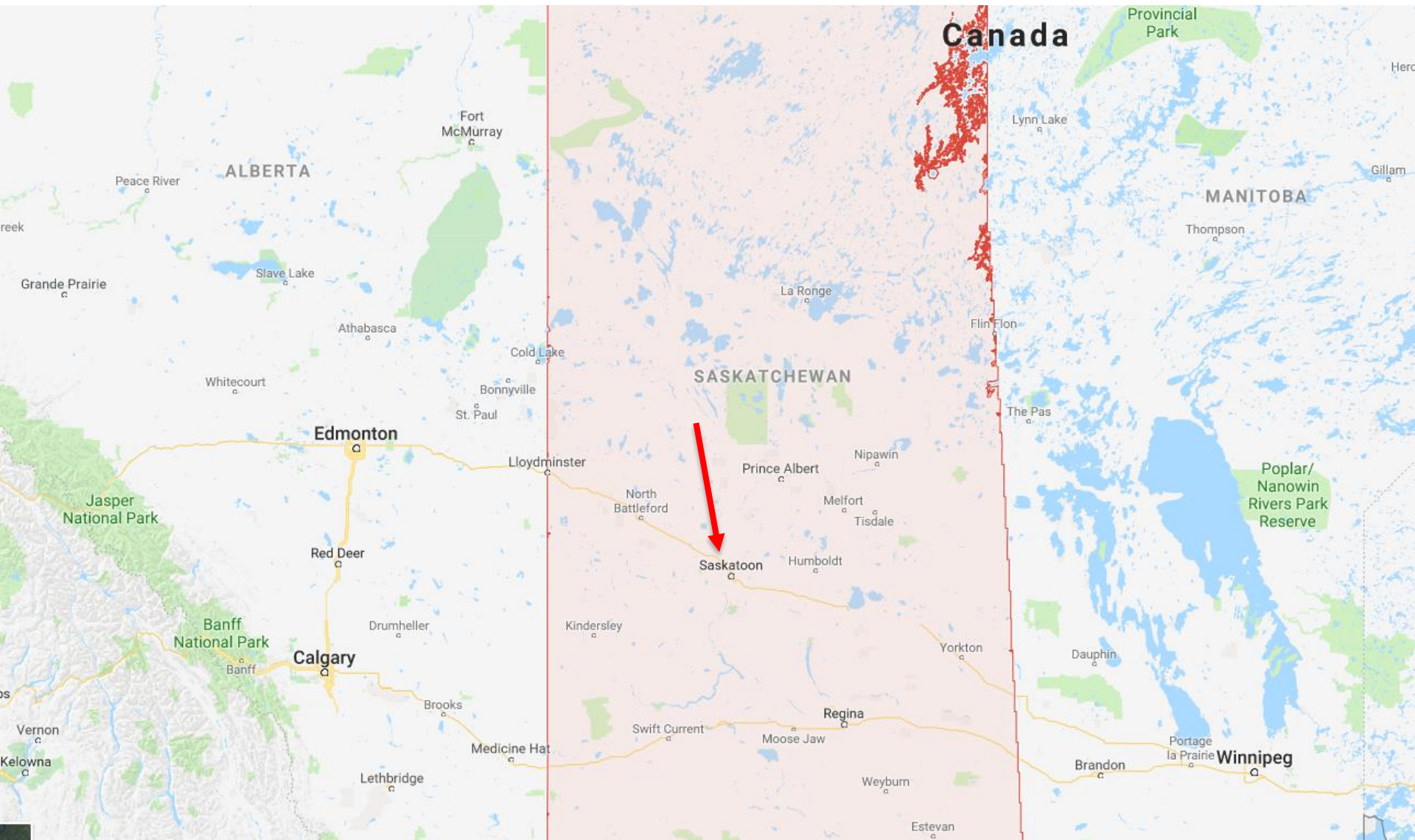


Climate Change Adaptation City of Saskatoon

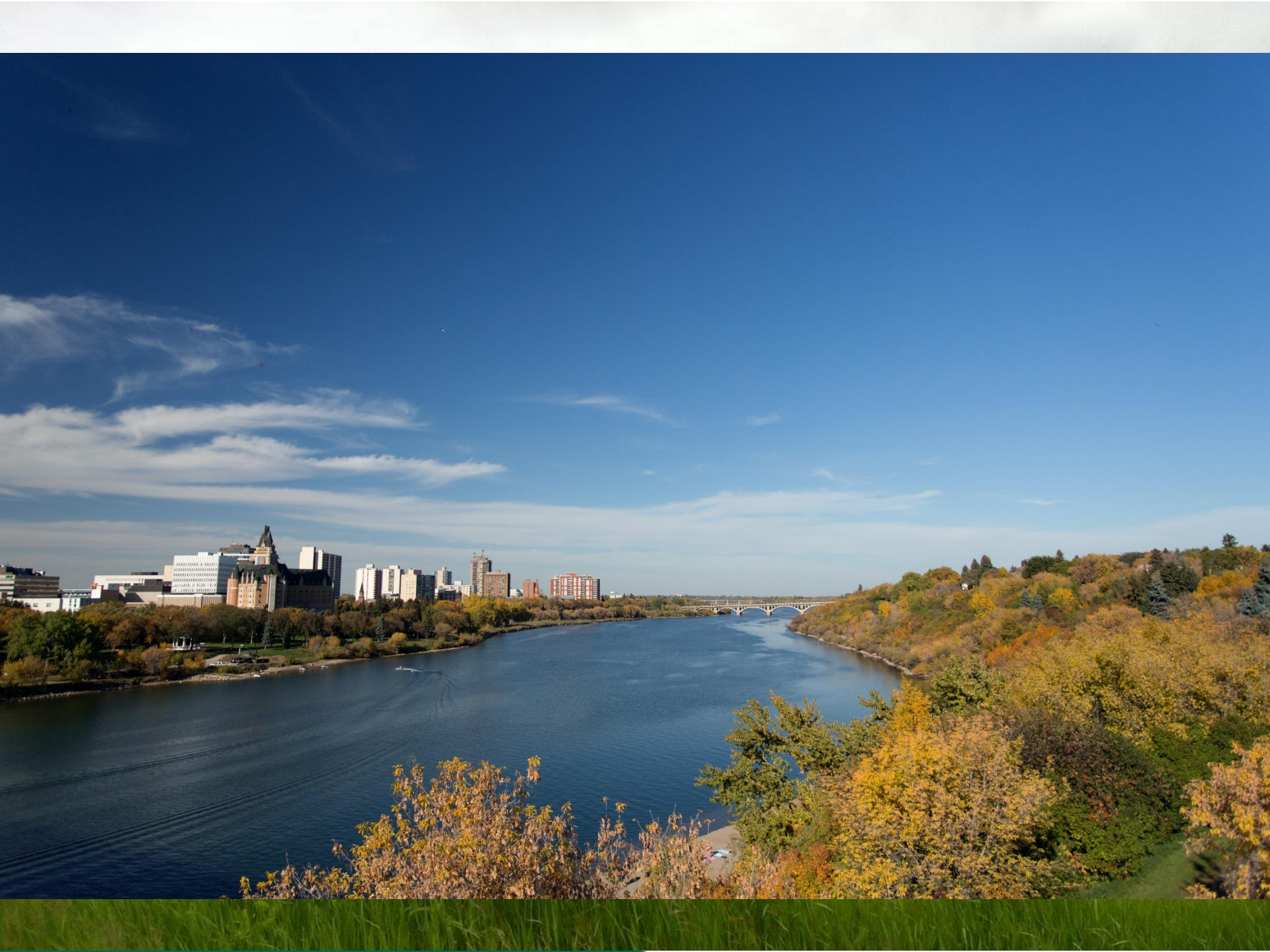
May 4, 2018

Agenda

1. Climate change in the City of Saskatoon
2. Collaborative approach
3. Adaptation in Saskatoon
4. Climate and Asset Management Network







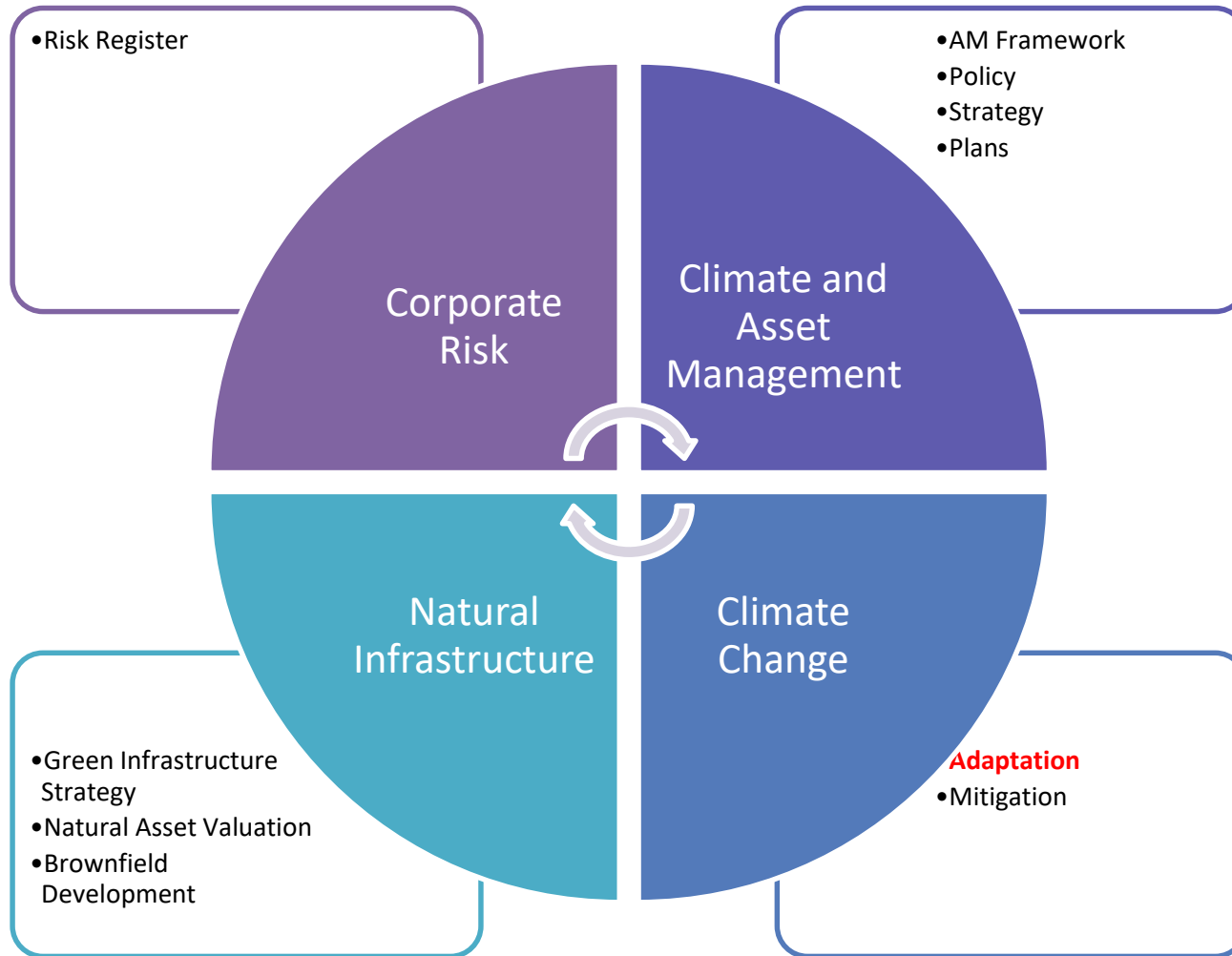
Covenant of Mayors



Partners for Climate Protection



Collaborative Approach



Adaptation in Saskatoon

Three Phased Approach:

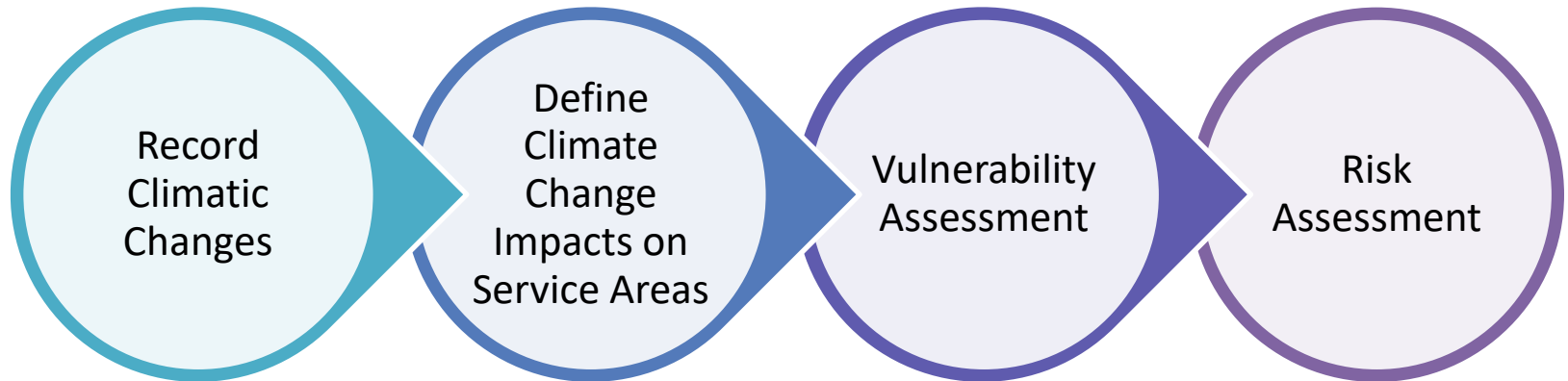
1. Reliable forecasting
2. Risk mitigation
3. Service level adjustments



Adaptation in Saskatoon



Adaptation in Saskatoon



Vulnerability Assessment

Figure 4 - Sensitivity Assessment Scale

Sensitivity Scale				
If the impact occurs, will it affect the functionality of the service area?				
No - Functionality will stay the same	Unlikely - Functionality will likely stay the same	Yes - Functionality is likely to get worse	Yes - Functionality will get worse	Yes - Functionality will become unmanageable
S1	S2	S3	S4	S5

Source: ICLEI Canada

Figure 5 - Adaptive Capacity Assessment Scale

Adaptive Capacity Scale				
Can the service area adjust to the projected impact with minimal cost and disruption				
No - Will require substantial costs (\$\$\$\$\$) and staff intervention	No - Will require significant costs (\$\$\$\$) and staff intervention	Maybe - Will require some costs (\$\$\$) and staff interventions	Yes - But will require some slight costs (\$\$) and staff intervention	Yes - No to little costs (\$) and staff intervention are necessary
AC1	AC2	AC3	AC4	AC5

Source: ICLEI Canada

Figure 6 - Sensitivity and Adaptive Capacity Mix

Sensitivity and Adaptive Capacity Mix					
	S1	S2	S3	S4	S5
AC1	V2	V2	V4	V5	V5
AC2	V2	V2	V3	V4	V5
AC3	V2	V2	V3	V4	V4
AC4	V1	V2	V2	V3	V3
AC5	V1	V1	V2	V3	V3

Source: ICLEI Canada

Risk Assessment

Climate Change Impacts	Consequence Rating Total	Likelihood Rating	Total Risk Assessment Score
Increased frequency of freeze/thaw cycles impacting road infrastructure	50	1	50
Increased risk of blackouts due to demand for electricity	90	3	270
Increased demand for water - irrigation and personal use	48	5	240
Higher risk of fires close to Saskatoon	70	5	350
Increased risk of flooding to basements, roads, and other infrastructure	60	5	300
Increased cost for storm water management	54	5	270
Increased risk of flooding to basements and roads, caused by sewer overflows or waste water bypasses	75	5	375
Increase in demand to city operations when responding to severe precipitation	72	5	360

Adaptation in Saskatoon

- Fires
- Flooding
- City operations





Climate and Asset Management Network (CAMN)



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Thank you

