

Edmontonians know the origin of Biodiversity.

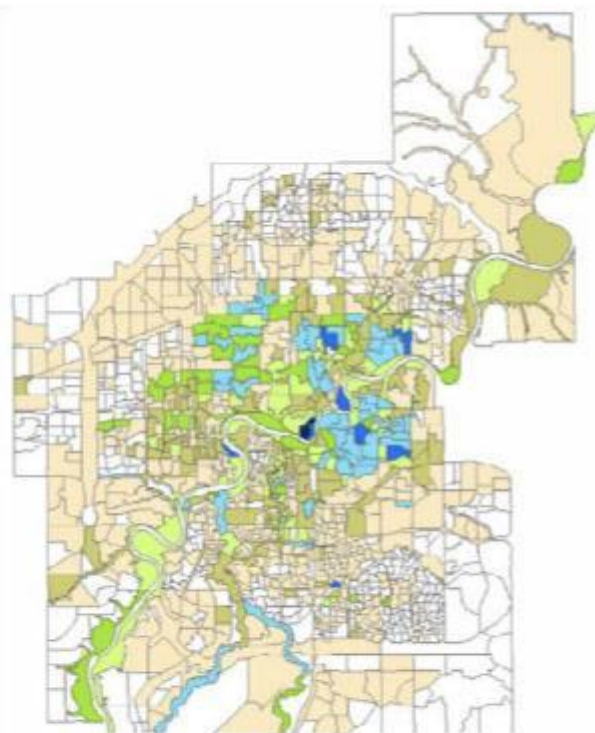
Vision (Updated)

The North Saskatchewan River Valley and Ravine System is a protected, connected, ecologically resilient landscape that honours our collective history and promotes healthy living through diverse opportunities for recreation, active travel, learning, and gathering in the tranquility of nature.



Risk for sub basins

Assessed Risk for Sub-basins in Edmonton Using Scenario 2 Weighting of Risk Dimensions

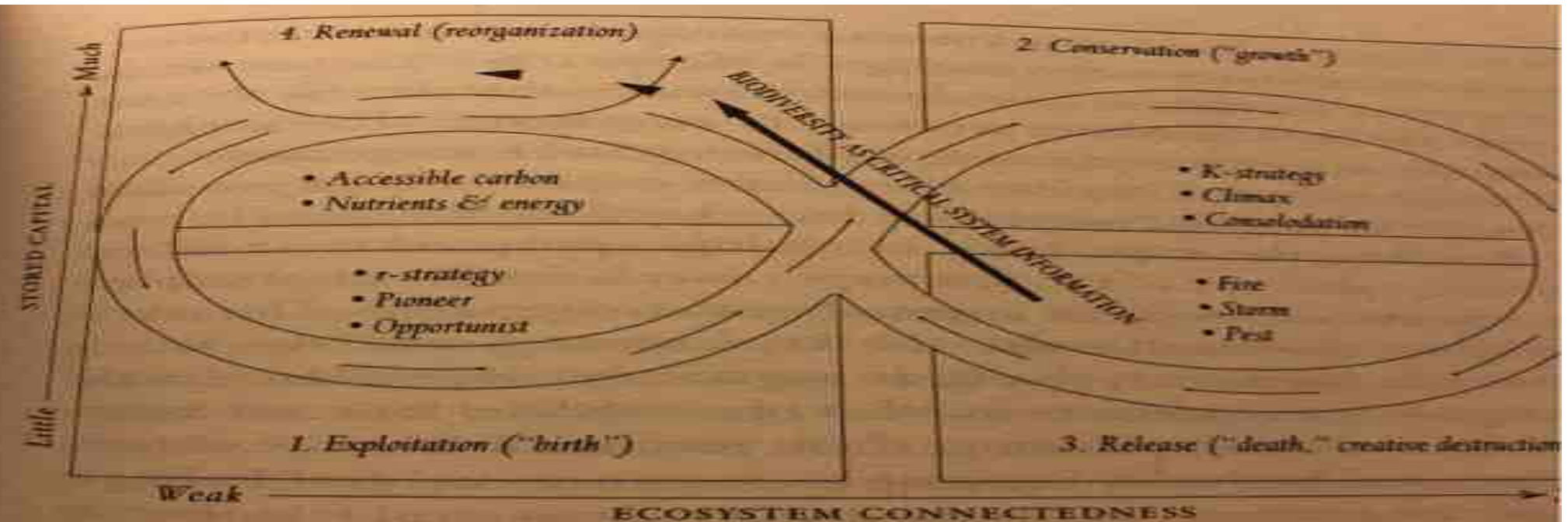


Groups A-C include High Risk Basins
Groups D-F include Medium High Risk Basins
Group G is Medium Risk Basins
Group H is Medium Low and Low Risk Basins

Group A – 1
Group B – 9
Group C – 51
Group D – 39
Group E – 66
Group F – 139
Group G – 543
Group H – 462

A
B
C
D
E
F
G
H

Holling's dynamic cycle of ecosystem development.



Source: C. S. Holling, "The Resilience of the Terrestrial Ecosystem: Local Surp and Global Change," in W. C. Clark and R. E. Munn, Eds., *Sustainable Development Biosphere* (Cambridge: Cambridge University Press, 1986)

Neonicotinoid insecticides

- applied as foliar spray and seed treatment
- contaminate water, insects, insectivores

Hallman et al., 2014, Nature

Li et al. 2020, Nature Sustainability



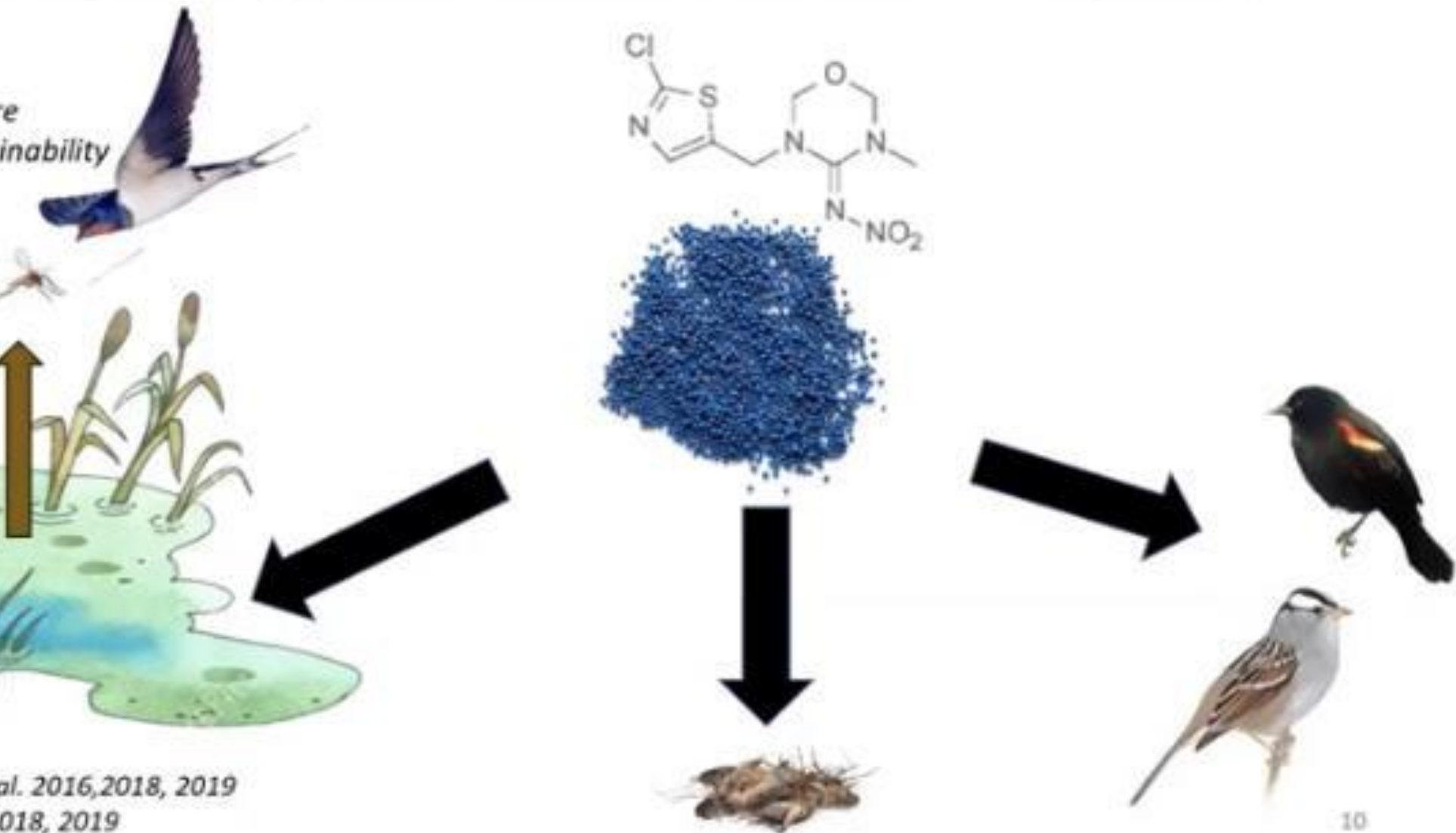
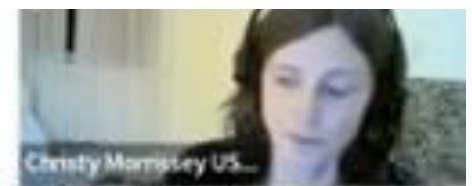
Morrissey et al. 2015; Cavallaro et al. 2016, 2018, 2019

Maloney et al. 2016, 2018, 2019

and insecticides

for spray and seed treatment

water, insects, insectivorous birds and seed eating birds



al. 2016, 2018, 2019
2018, 2019