

TABER

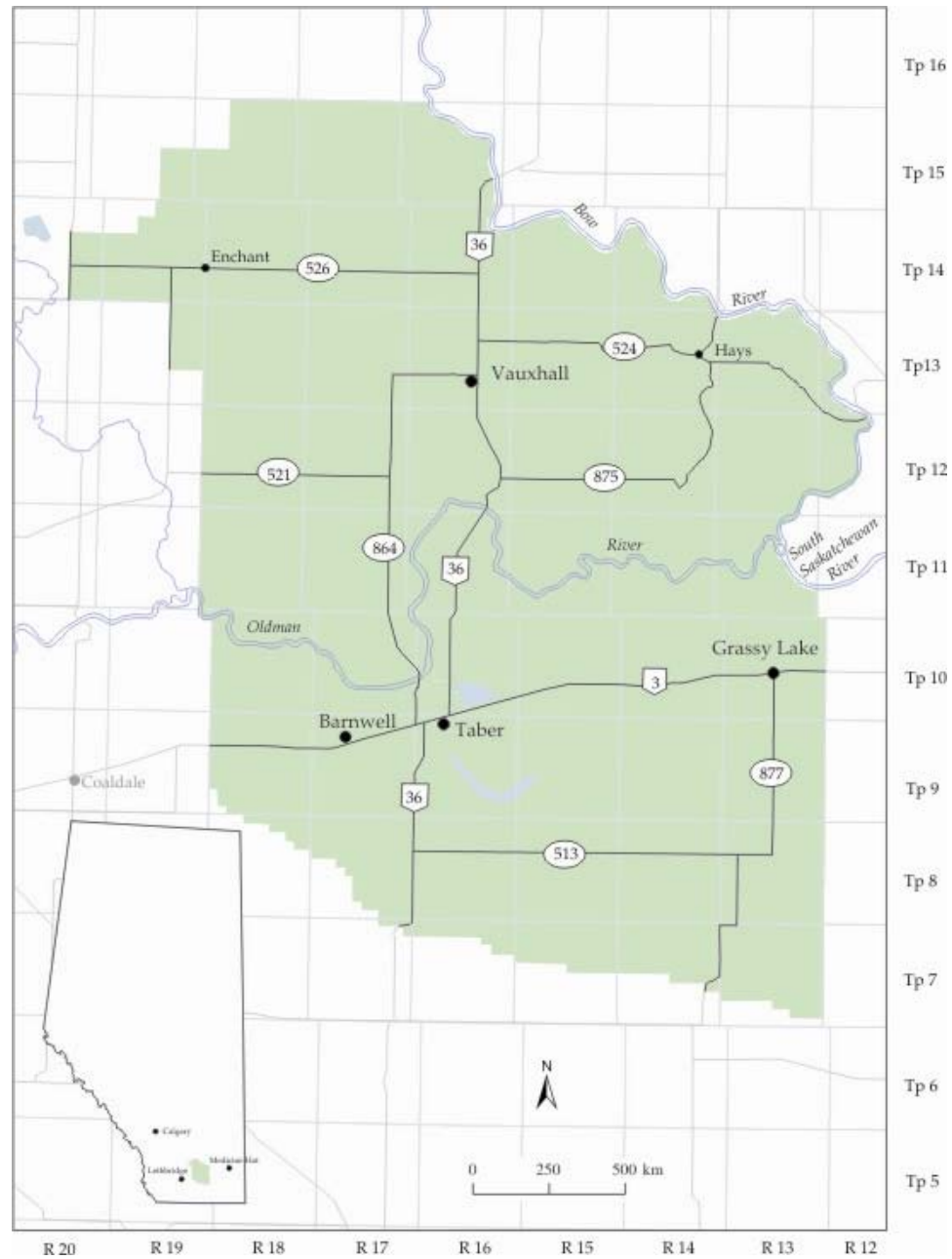
Vulnerability Assessment

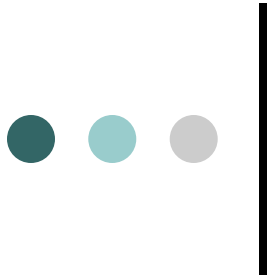
Susana Prado
University of Regina

The bottom right corner of the slide features a decorative graphic consisting of several sets of concentric circles, resembling ripples on water, rendered in a lighter shade of blue.



Location





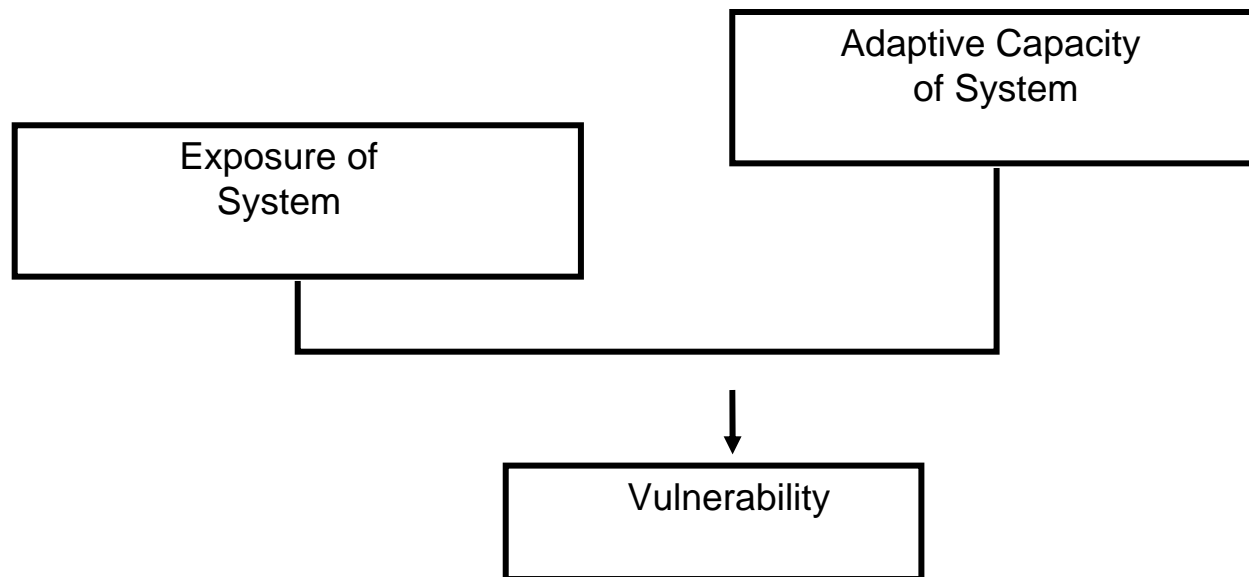


Respondents Profile

Occupation	No.	Age	No.	Residence	No.
Farmer/rancher	12	30-39	8	In town	18
Oil work	2	40-49	6	M.D.**	12
Business	3	50-59	8	Other	1
Local authority	4	60-69	2		
Organization/Association/Corporation	3	70-79	5		
Service	3	Unknown	2		
Retired	2				
Other	2				
Total	31*		31		31



Vulnerability Approach





Environmental Exposures

flooding

drought

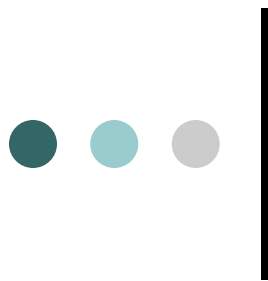


chinooks

Temperature fluctuation

Adaptive Strategies:

- Irrigation (TID)
- Rationing (TID)
- On farm water storage
- Use of non drinking water by some industries
- Hail and crop insurance



Economic Exposures

Adaptive Strategies

Internationally driven prices



High input costs



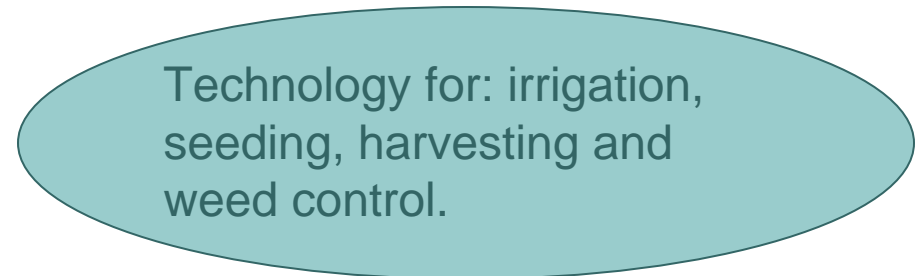
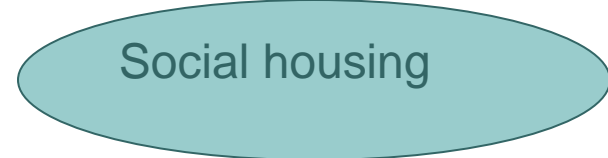
Housing is less accessible and available

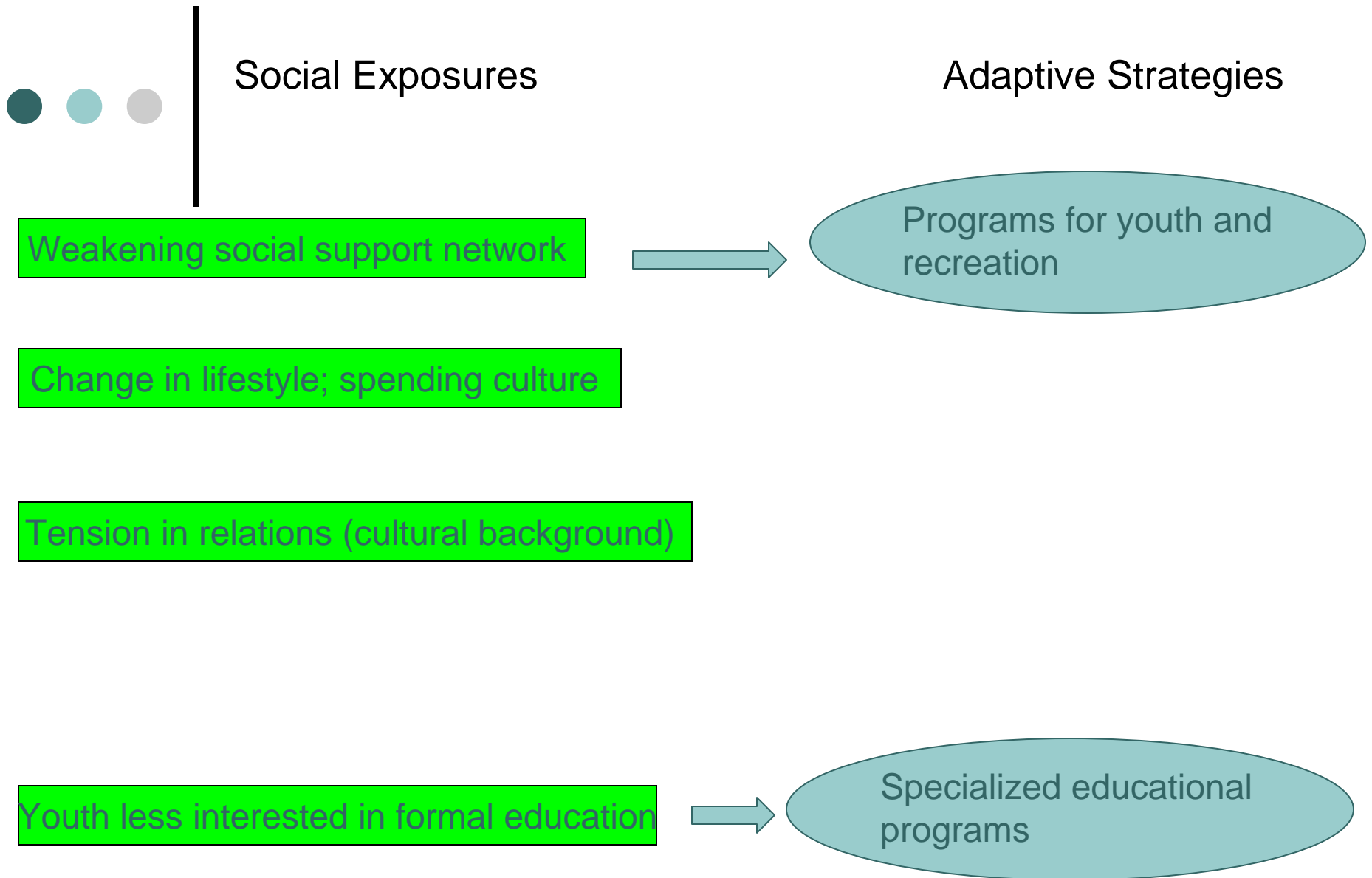


Labour shortage in agriculture



Agriculture is not a secure source of revenue







Institutions: Hindering or Promoting the Adaptive Capacity

International institution; NAFTA, WTO

Alberta Environment / dams

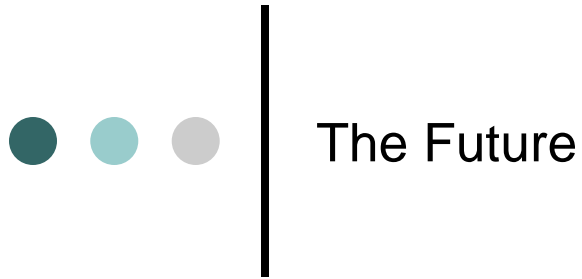
Alberta government /
Lack of long term support

Lethbridge weather station/research

+ TID & Alberta Agriculture

Provincial funding: water
infrastructure and roads

Alberta Agriculture and Environment/
water and climate change



- Future exposures-constraints

Dry periods are expected to occur.

Uncertainty about future climate.

Inter-provincial and international water conflicts.

- Future Adaptive Capacity-Opportunities

More heat along with availability of water can bring opportunities for agriculture.

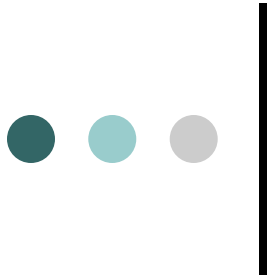
Technology will be a relevant mechanism to overcome water scarcity.

Improve conservation and use of water (education, dams)

Water management plant; upgraded or substituted.

To plan for population growth; housing, water, infrastructure.

Development of non traditional energy resources.



Conclusions

Optimism in the community.

There is certain adaptive capacity to deal with drought.

Diversified economy and connections among economic actors is favourable to the survival of agriculture.

Stressors affect people in different ways; according to economic activity.

Sustainability?



Thanks!

For further information:

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<http://www.parc.ca/mcri/index.php>