



Green River Lowlands Scenario Planning

Update on Workshop 1

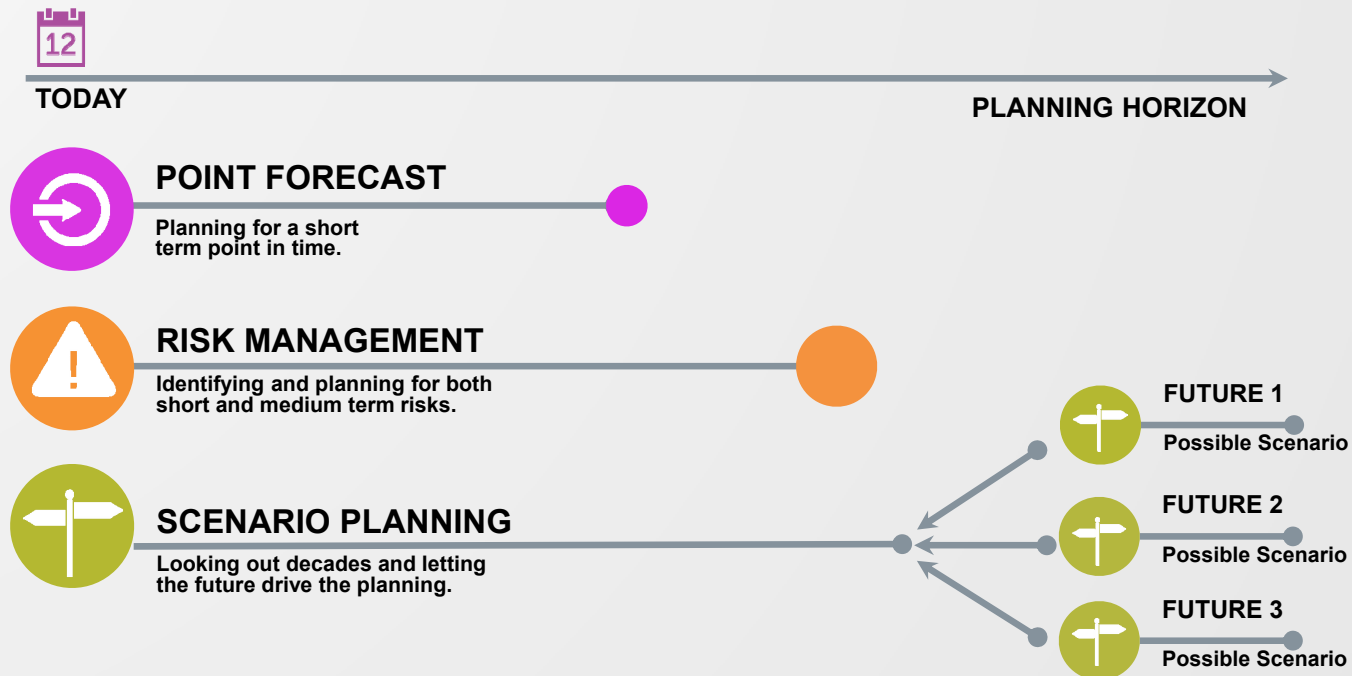
April 13, 2022

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What is Scenario Planning?



Outcomes

- 1) Four scenarios
- 2) Strategies
- 3) Indicators
- 4) Report



Workshop 1



March 16, 2022
21 Participants

ISWS Presentation



Vlad Iordache

I ILLINOIS

Illinois State Water Survey

PRAIRIE RESEARCH INSTITUTE

- *Water Demand in the Rock River Water Supply Planning Region, 2010-2060*
- How ISWS Collects Its Data
- Limits of Data
- “Demand forecasts alone will not make for effective scenario planning”

Driving Forces of Change

“...[F]actors that are causing challenges in the present, as well as those likely to cause challenges in the future.”

- ❖ S ocial/demographic
- ❖ T echnological
- ❖ E conomic
- ❖ E nvironmental
- ❖ P olicy/political

Source: Futrell, J. (2019, July/Aug). How to Design your Scenario Planning Process. *APA: PAS Memo*.

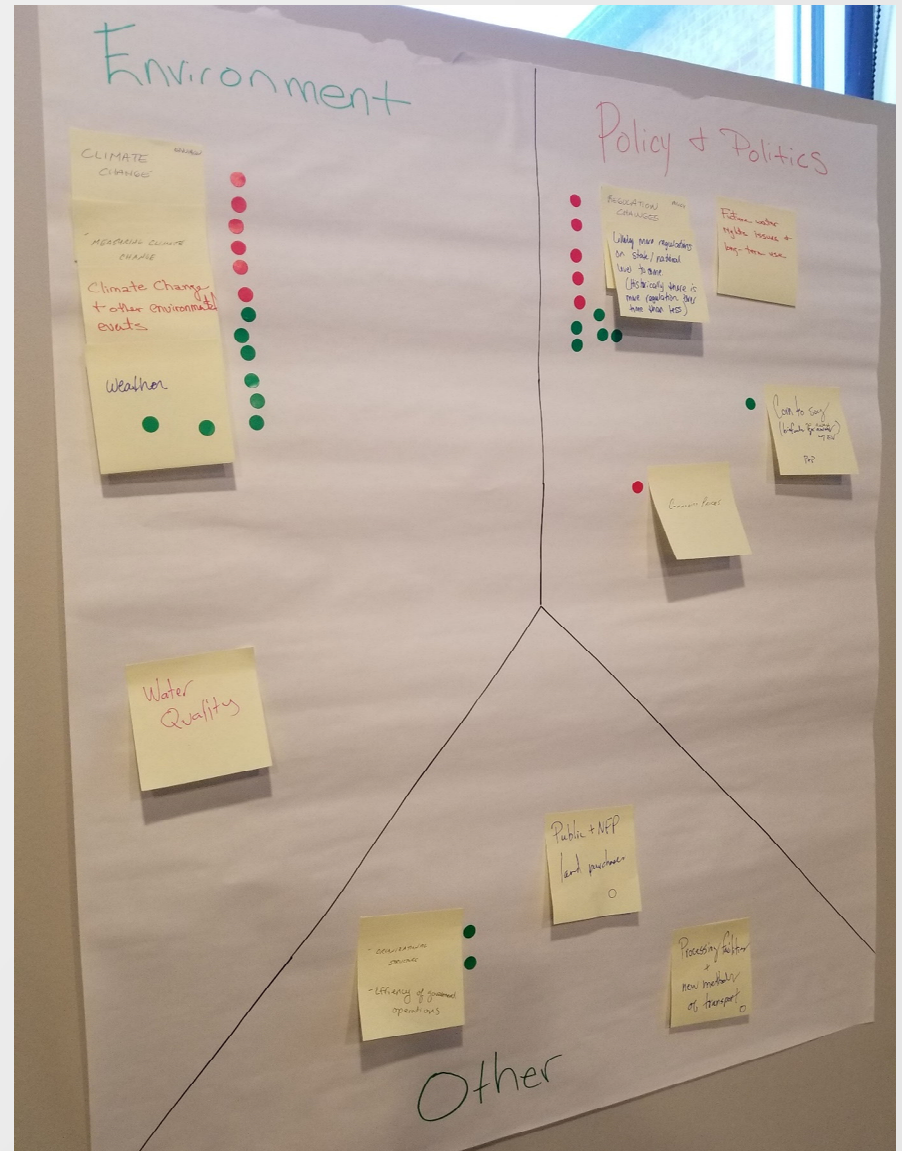
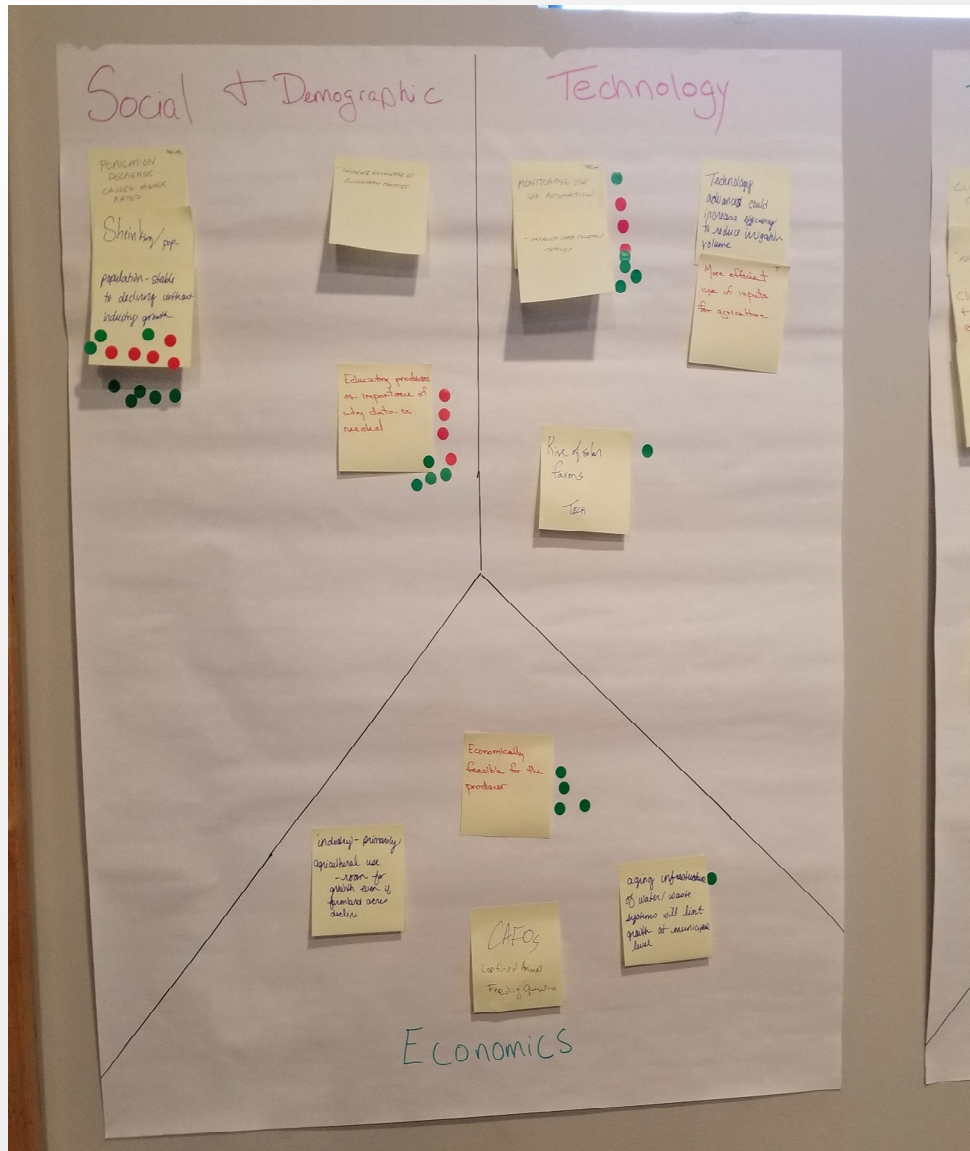
Tasks

- Fill out Driving Forces worksheet individually
- Come back together and discuss
- Decide on top 5-7 and write on post-it notes
- Put post-its on Driving Forces wall



Focal Question

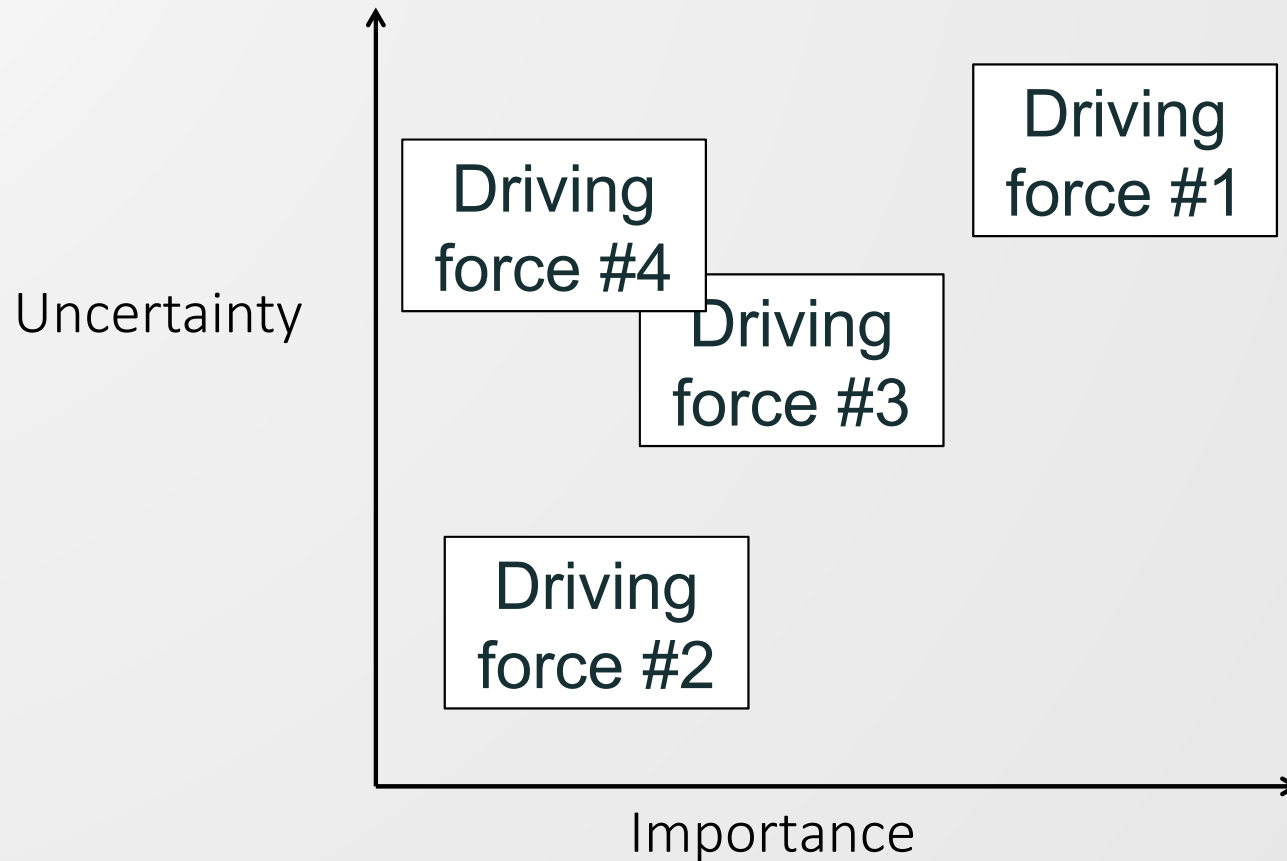
How do we provide reliable, safe, and sustainable water supplies for current and future human and non-human residents and businesses in the Green River Lowlands?

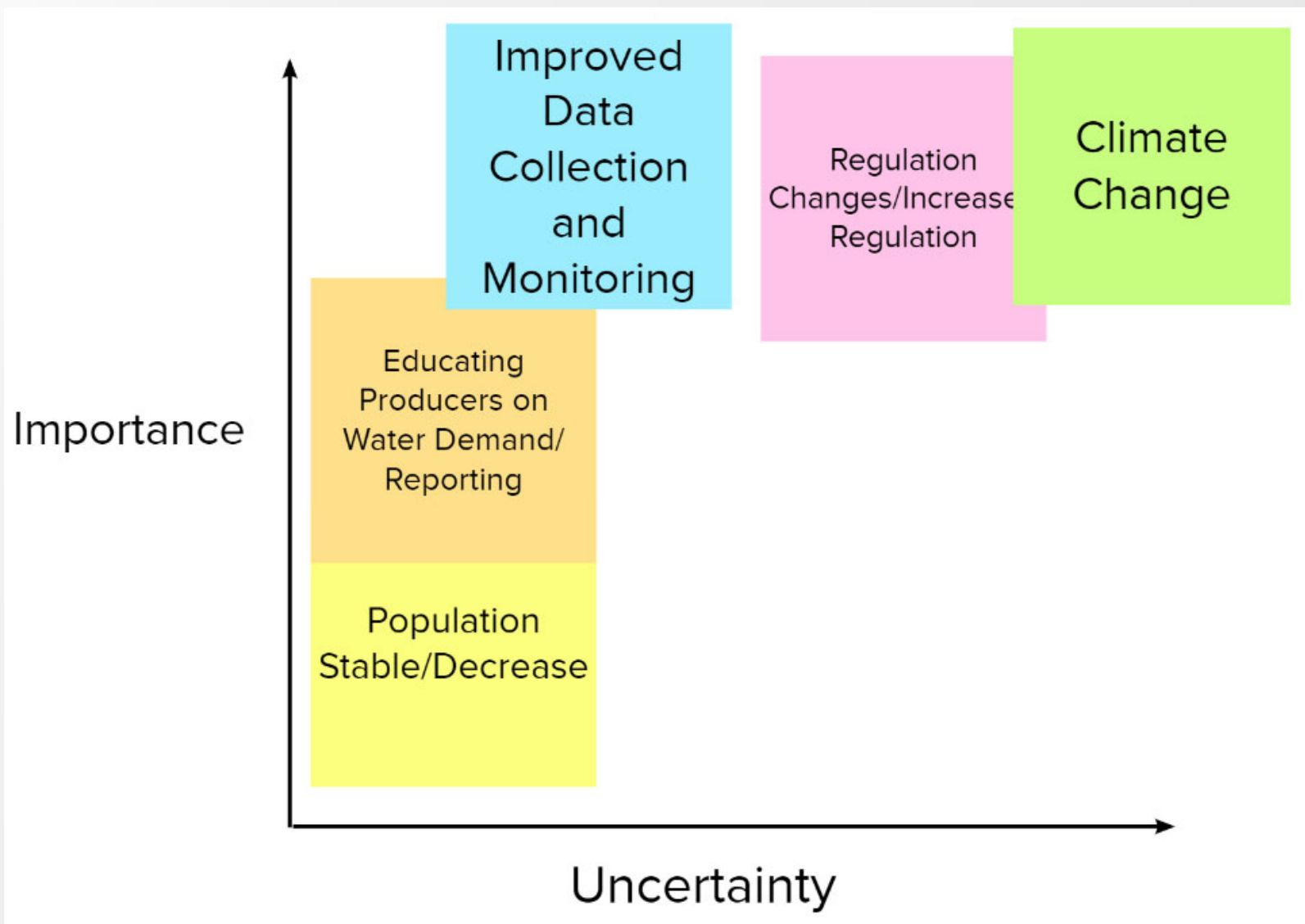


Driving Forces

SOCIAL & DEMOGRAPHIC	TECHNOLOGY	ECONOMICS	ENVIRONMENT	POLICY & POLITICS	OTHER
<p>Population decrease (13)</p> <p>-</p> <p>Increase knowledge of conservation practices (0)</p> <p>-</p> <p>Educating producers on importance of data collection (8)</p>	<p>Improved data collection (8)</p> <p>-</p> <p>Technology advances in agriculture that increase efficiency and reduce irrigation (0)</p> <p>-</p> <p>The rise of solar farms (1)</p>	<p>Economically feasible for producer (4)</p> <p>-</p> <p>Agriculture industry can still grow (0)</p> <p>-</p> <p>Confined animal feeding operations (0)</p> <p>-</p> <p>Aging infrastructure of water/waste systems will limit growth at municipal level (1)</p>	<p>Climate change (14)</p> <p>-</p> <p>Water quality (0)</p>	<p>Changes in regulations (10)</p> <p>-</p> <p>Future water rights issues (0)</p> <p>-</p> <p>Corn to soy as biofuel demand shrinks (1)</p> <p>-</p> <p>Commodity prices (1)</p>	<p>Efficiency of government operations (2)</p> <p>-</p> <p>Public and not-for-profit land purchases (0)</p> <p>-</p> <p>Processing facilities and new transportation methods (0)</p>

What is most important (impactful)?
What is most uncertain?





Driving
force #2

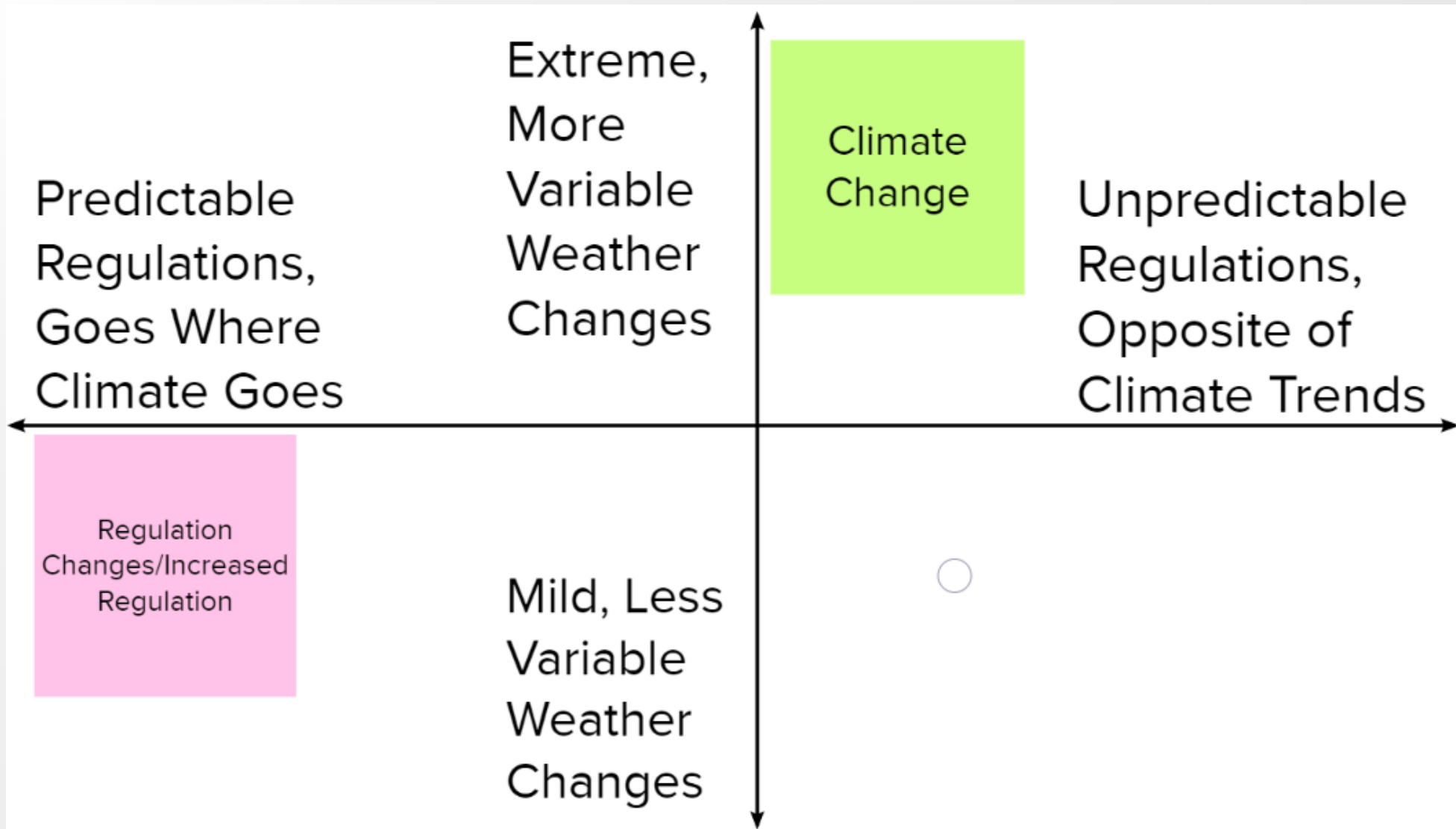
Scenario A

Scenario B

Driving
force #1

Scenario C

Scenario D



Regulation Changes

- Look at Additional vs. Removed Regulation
- Look at More vs. Less Regulation
- Look at Predictability of Regulation



Climate
Change

Scenario A

Unregulated water use
with extreme weather
events

Extreme,
unpredictable
weather
events

Scenario B

Regulated water use
with extreme weather
events

Regulations Significantly Increased
and Follows Climate Patterns

Regulation
Change

Regulations Rolled Back and Unpredictable

Scenario C

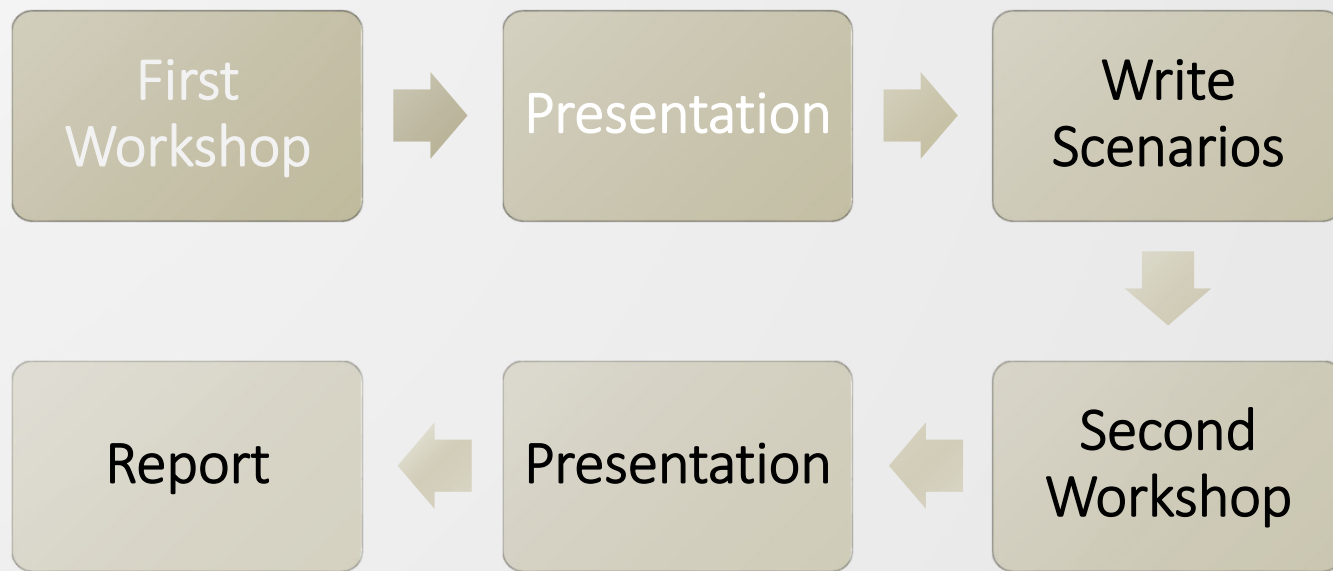
Unregulated water use
with mild weather
events

Mild,
predictable
weather
events

Scenario D

Regulated water use
with mild weather
events

Next Steps



Questions?