

it's a Systems thing



Rangelands - and their use by people -
is a study in System dynamics

Unpacking the complex “cheatgrass
problem” can identify a set of solutions

These may appear to be unique issues with
discrete strategies, but once they move from
development to implementation, the complexity
challenge takes over, interactions result in
unintended consequences, failure on one front
exposes new issues on others...

current
components
of success

- **Restoration Science for 21st century**
- Improved management (grazing and weed treatments)
- Public land rules/regs to match the challenge
- Economic Incentives
- Adaptive management

Are we on track?

- Do we dump more money on the current solutions?
- What do we need to do differently?
- We probably have the strategic themes we need...
 - But linear solutions are falling short
- Complex, socio-ecological problems need Transformational Change...
- **What is our Theory of Transformational Change?**



Awareness

Will/Mobilization

Behavior/Actions



Policy and
public/private
partnerships
can help at
each step

Support and improve
existing efforts

**Encourage and fund
innovations**

Coordinate and
integrate