

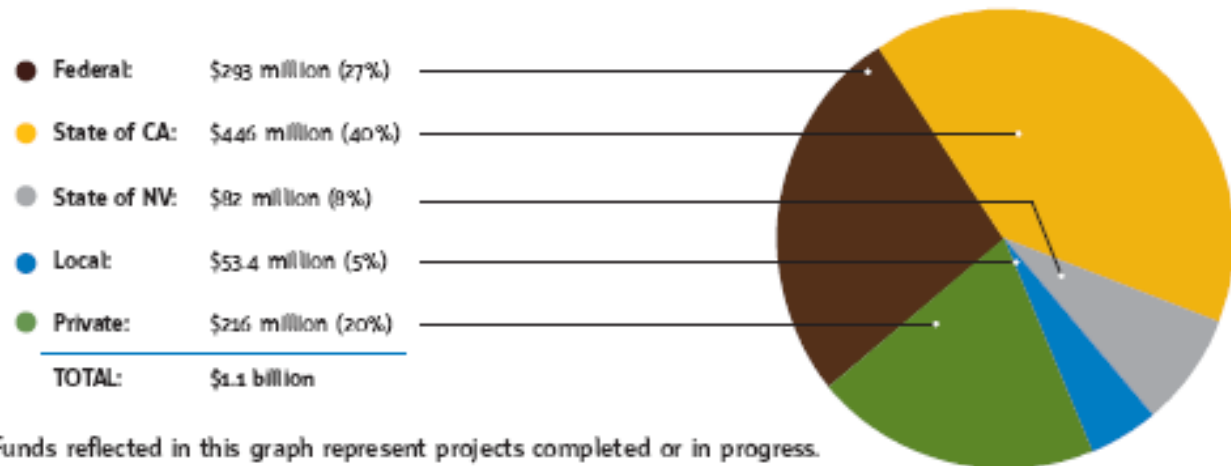
Working at the Policy-Science Interface

Ecosystem Management in a Complex Ecosystem

Zach Hymanson
May 21, 2010



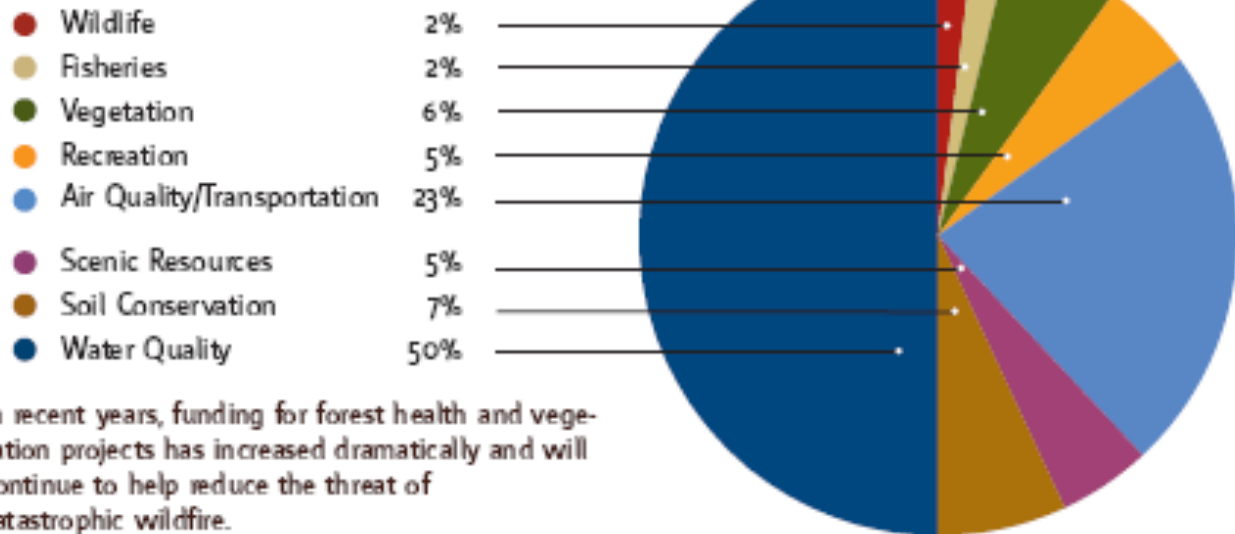
LOOKING BACK: EIP CAPITAL INVESTMENT IN PROJECTS BY FUNDING SECTOR: 1997-2006



Funds reflected in this graph represent projects completed or in progress.

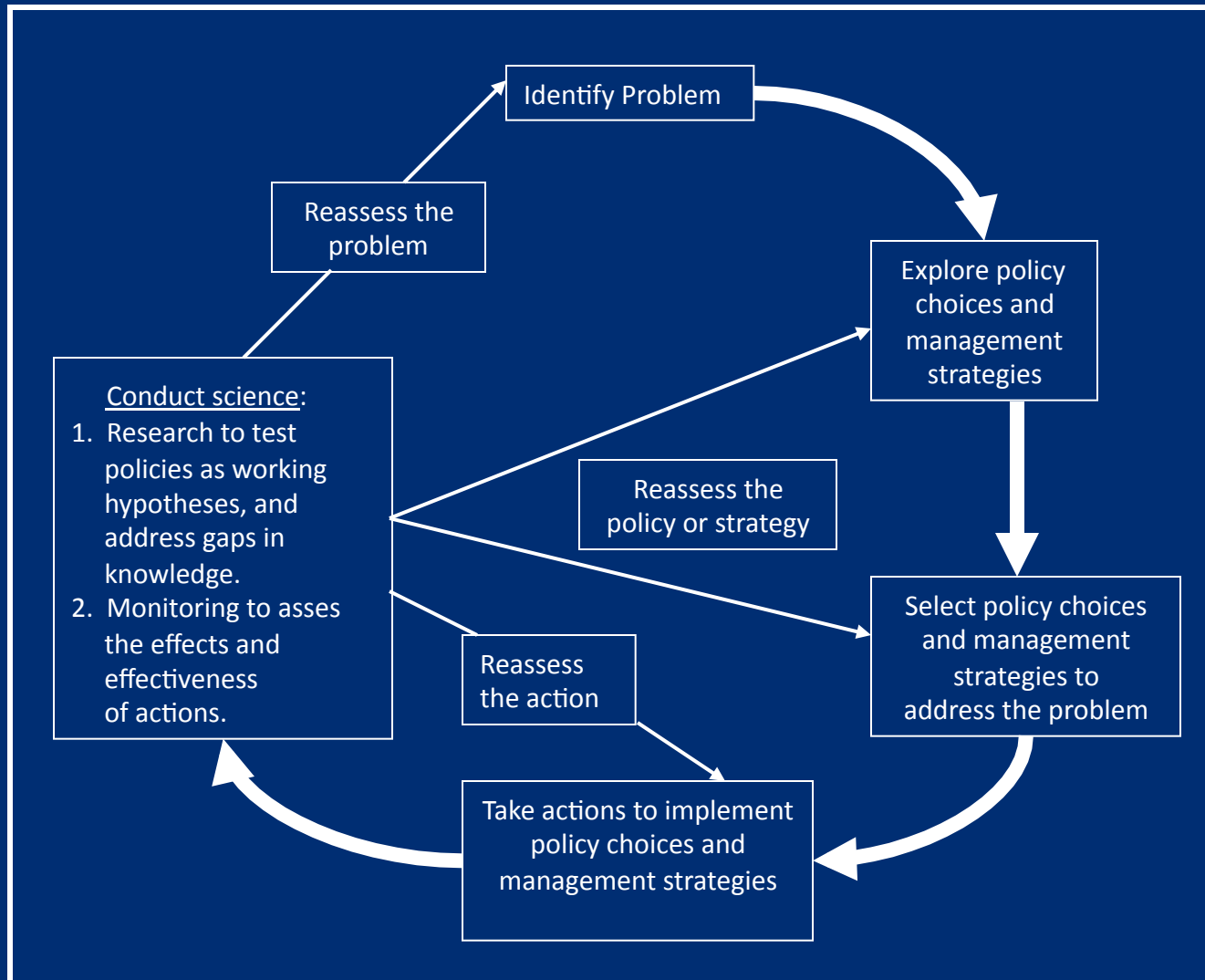
Categories of Investment

The environmental and ecological value of the Basin is expressed in terms of categories called the "Environmental Thresholds."

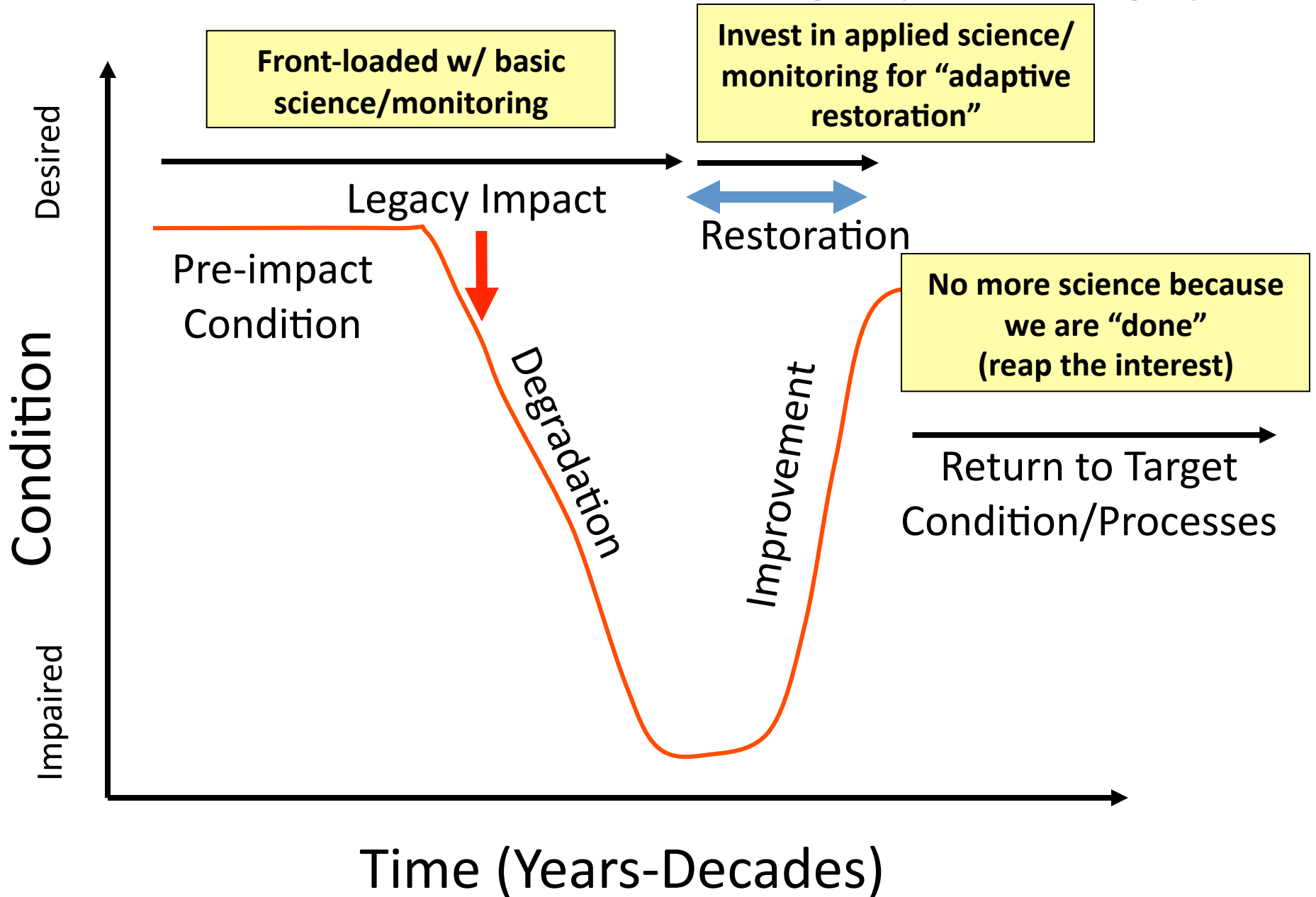


In recent years, funding for forest health and vegetation projects has increased dramatically and will continue to help reduce the threat of catastrophic wildfire.

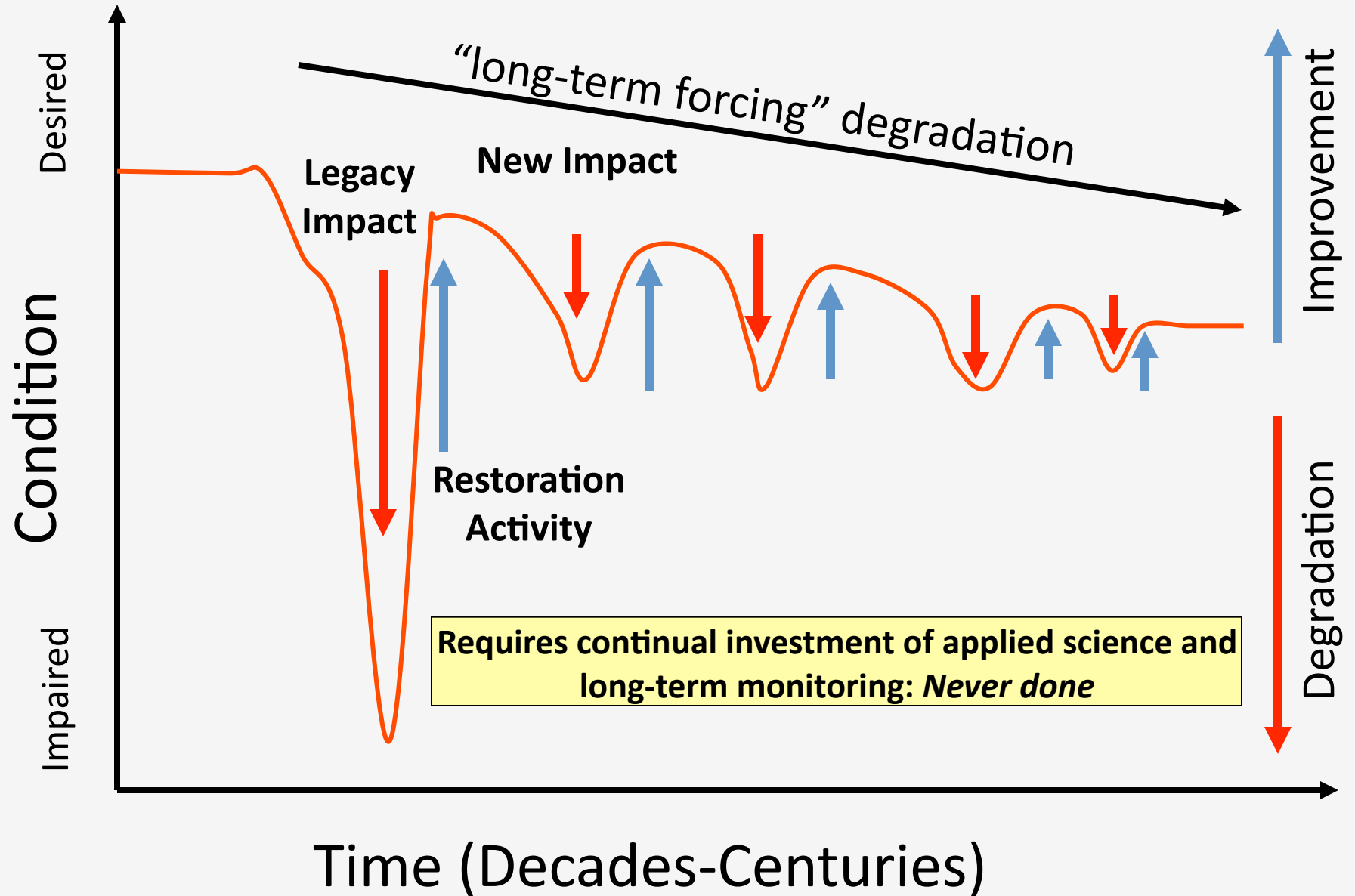
The Role of Science in Managing Complex Systems



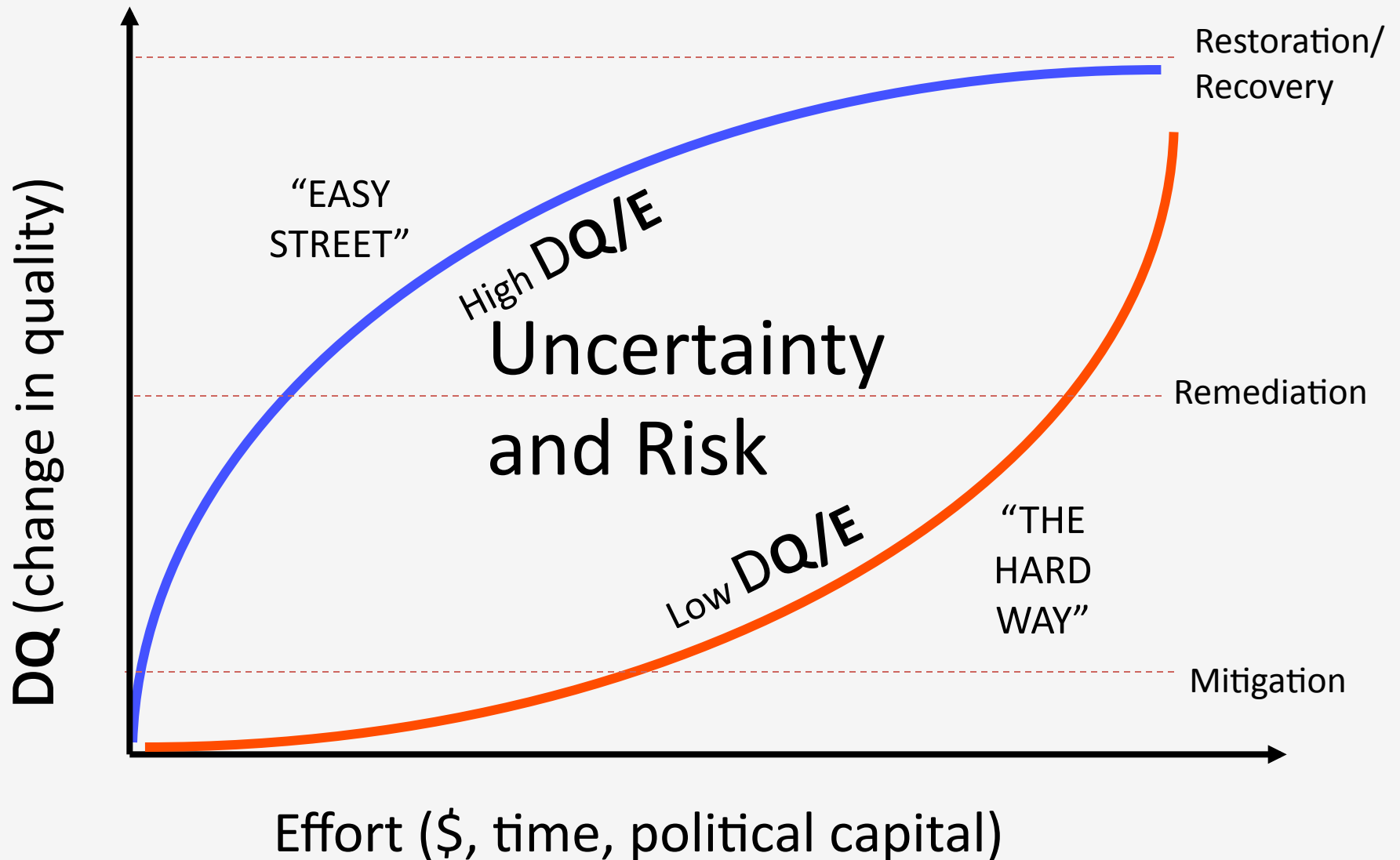
“Back-to-Nature Restoration” (dealing only with the legacy)



“Sisyphean Restoration” (continued local and long-term forcings compromise restoration efforts)



Restoration Response Functions



Modified from Jack Schmidt, et al., 2004, AGU Annual Meeting.

Data

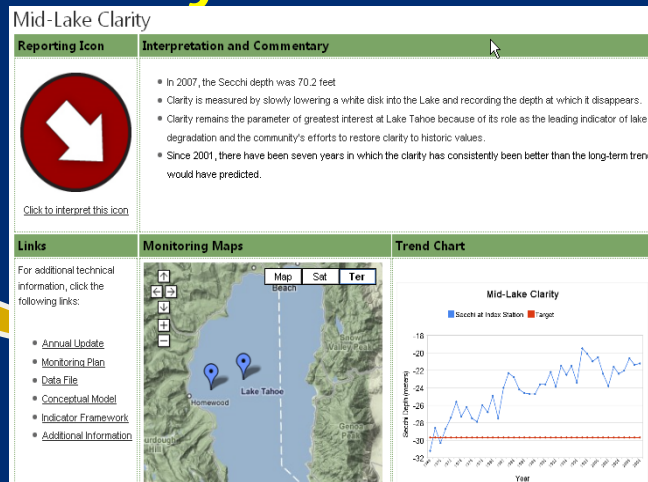
Date	Secchi Depth (m)
19-Nov-2008	22
13-Jan-2009	22.6
19-Jan-2009	20.95
30-Jan-2009	24.2
27-Feb-2009	29.35
18-Mar-2009	27.7
6-Apr-2009	24.95
17-Apr-2009	20.65
1-May-2009	21.2
13-May-2009	17.5
2-Jun-2009	18.1
10-Jun-2009	16.5
29-Jun-2009	20.25
8-Jul-2009	18.25

Decisions/Actions



Information

Knowledge



- Effective
- Timely
- inexpensive

- Ineffective
- Slow
- Expensive

Reporting

Science Planning

United States
Department of
Agriculture
Forest Service
Pacific Southwest
Research Station
General Technical Report
PTSR-GTR-226
January 2009



An Integrated Science Plan for the Lake Tahoe Basin: Conceptual Framework and Research Strategies



Science Communication

Hosted by:


5th Biennial Lake Tahoe Basin Science Conference March 16 & 17, 2010

Tahoe Center for Environmental Sciences
Sierra Nevada College Campus
291 Country Club Drive, Incline Village, Nevada



*"Measuring the Success of
Ecosystem Restoration in the
Lake Tahoe Basin"*

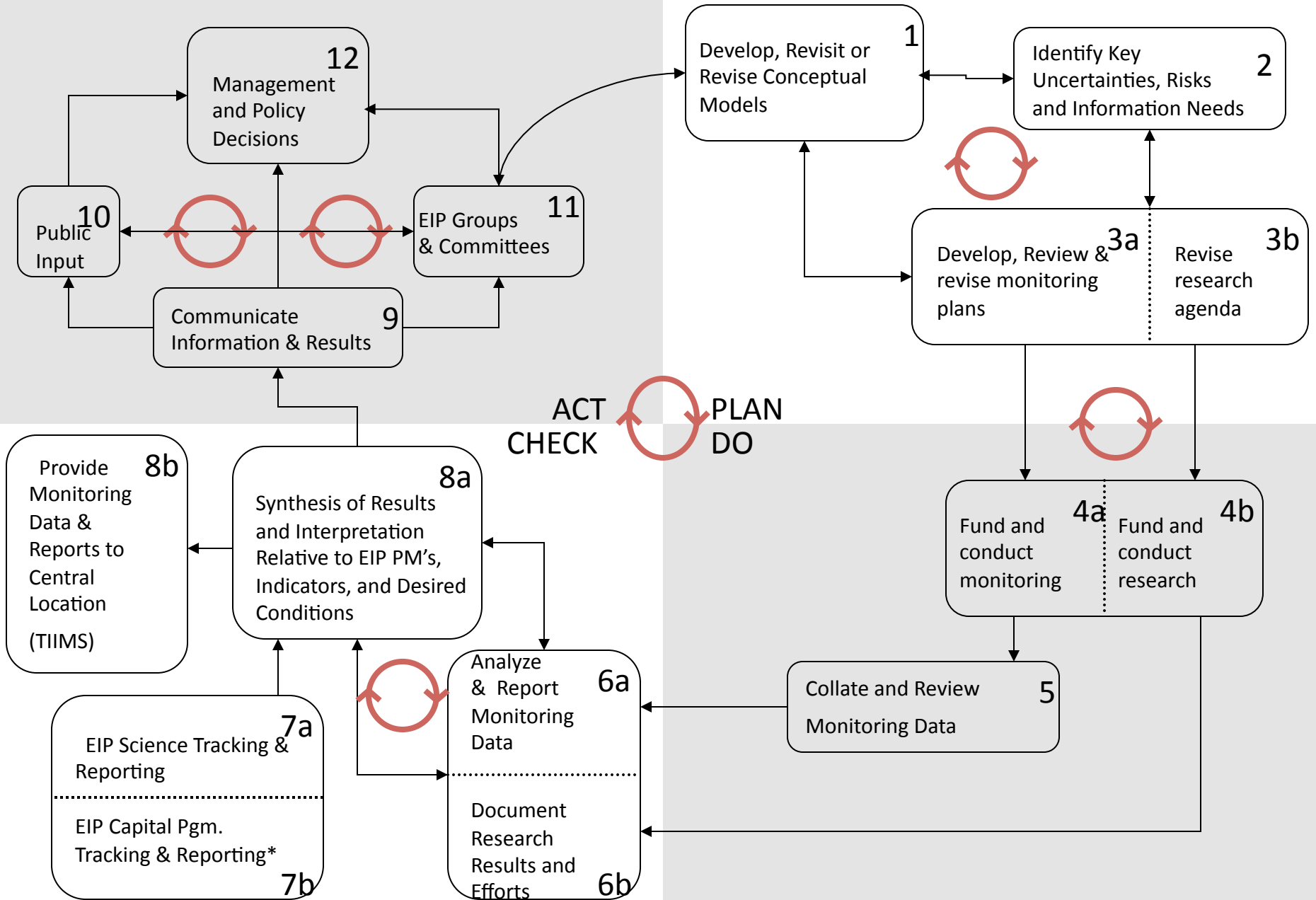
Congressional Commitment

A BILL

To provide for environmental restoration activities and forest management activities in the Lake Tahoe Basin.

3 “(6) SCIENCE.—Of the amounts to be made
4 available under section 18(a), \$30,000,000 shall be
5 used to develop and implement the science program
6 developed under section 11.

EIP Science Focus Area Management System



For More Information



www.tahoescience.org



www.dri.edu



<http://environment.unr.edu/>



<http://terc.ucdavis.edu/>



<http://www.usgs.gov/>



<http://www.fs.fed.us/psw>