

# Roadside Revegetation

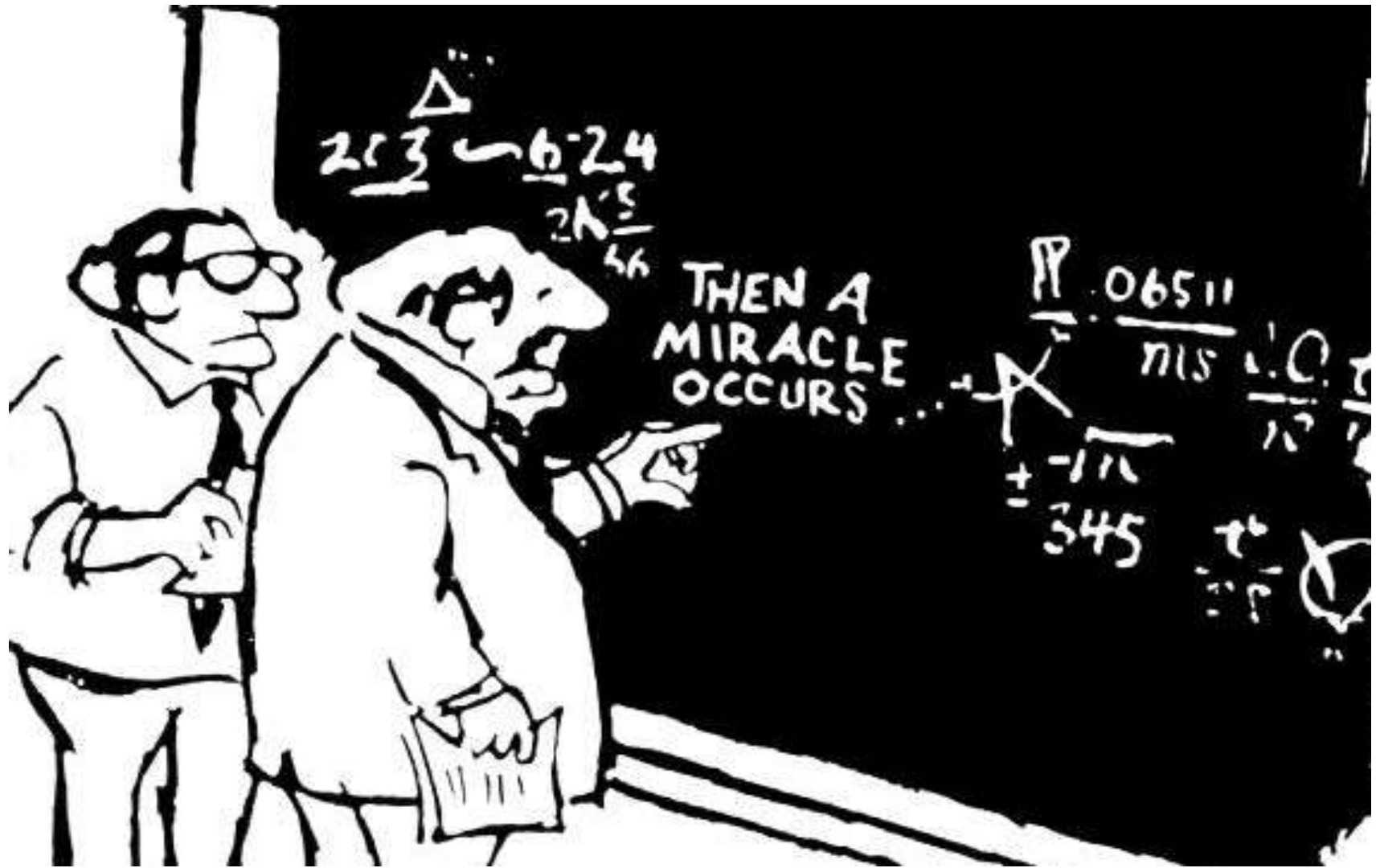
## An Integrated Approach to Establishing Native Plants

**David Steinfeld**

**Revegetation Specialist**

**USDA Forest Service**

**Pacific NW Region – R6**



**I think you should be more explicit here  
in step two**

# Miracles can come true



# ***Myth:* Revegetating highly disturbed sites is relatively easy**





# FHWA recognized a problem

- Done by road builders
- Last thing done
- Subcontracted
- No plant specialists
- No monitoring



# A different approach was needed



**Western Federal Lands  
Highway Division  
(WFLHD)**



**Forest  
Service**

# Keys to Success

- Science-based
- Integrated into the road timeline
- Collaborative & Innovative
- Adaptive

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# Expertise in Growing Native Plants



# Keys to Success

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# Typical Timeline

**Specs  
Written**

**Revegetation**



**2008**

**2010**

**2012**

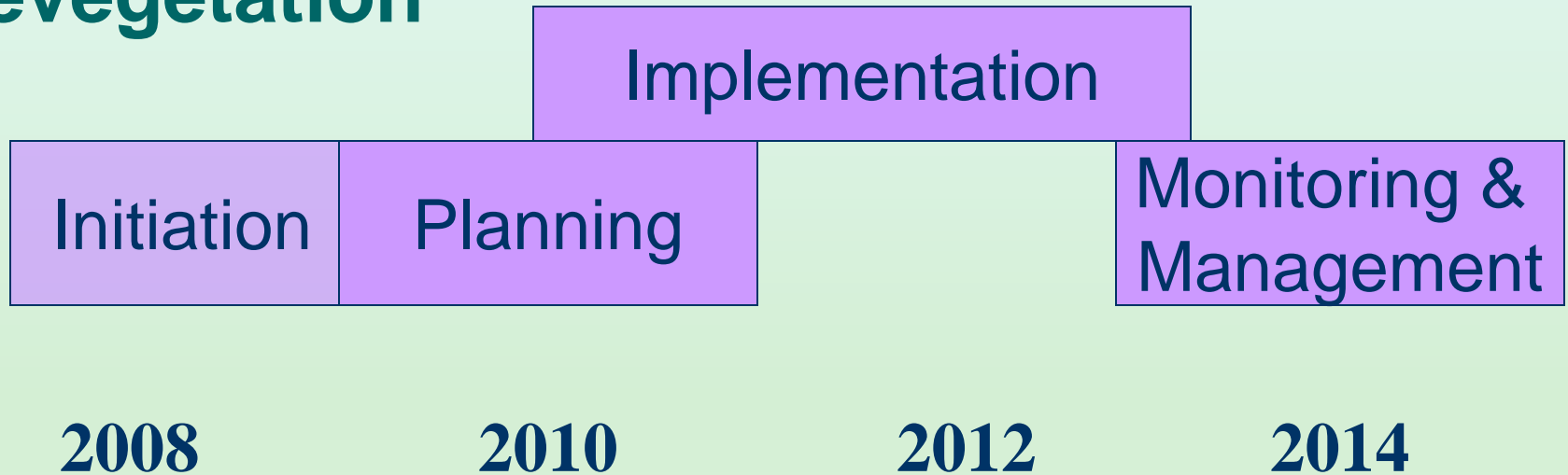
**2014**



**Road Project**

# Integration of Timelines

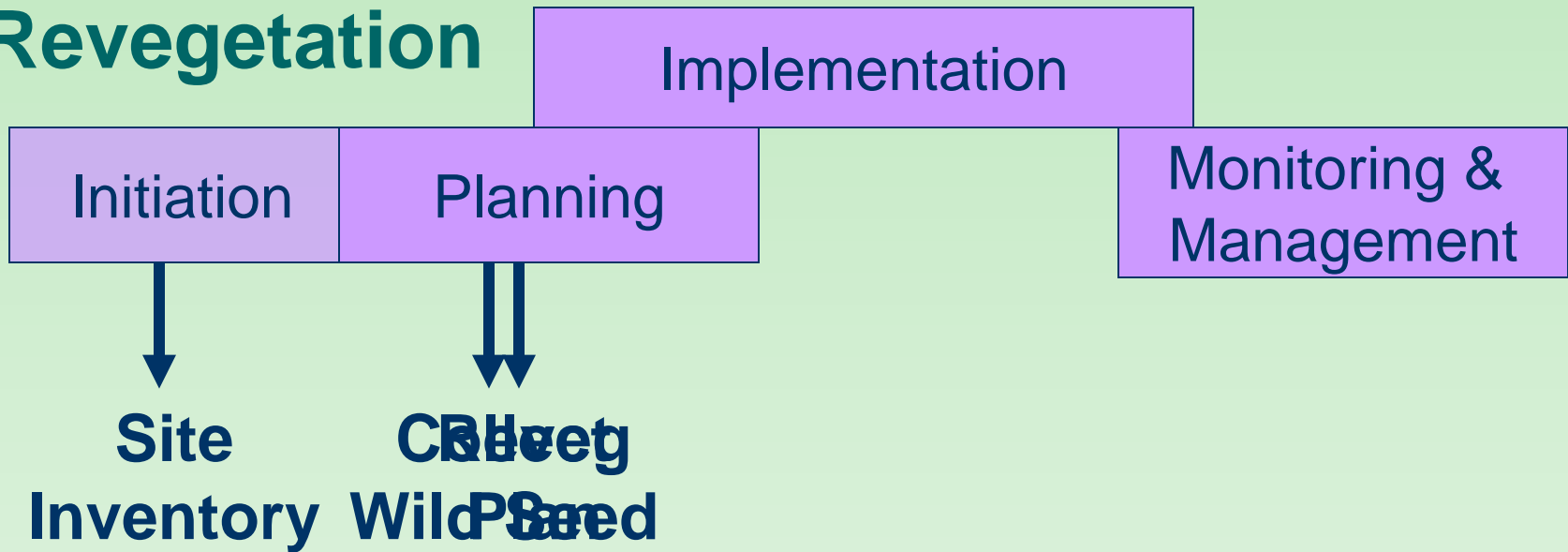
## Revegetation



## Road Project

# Integration of Timelines

## Revegetation



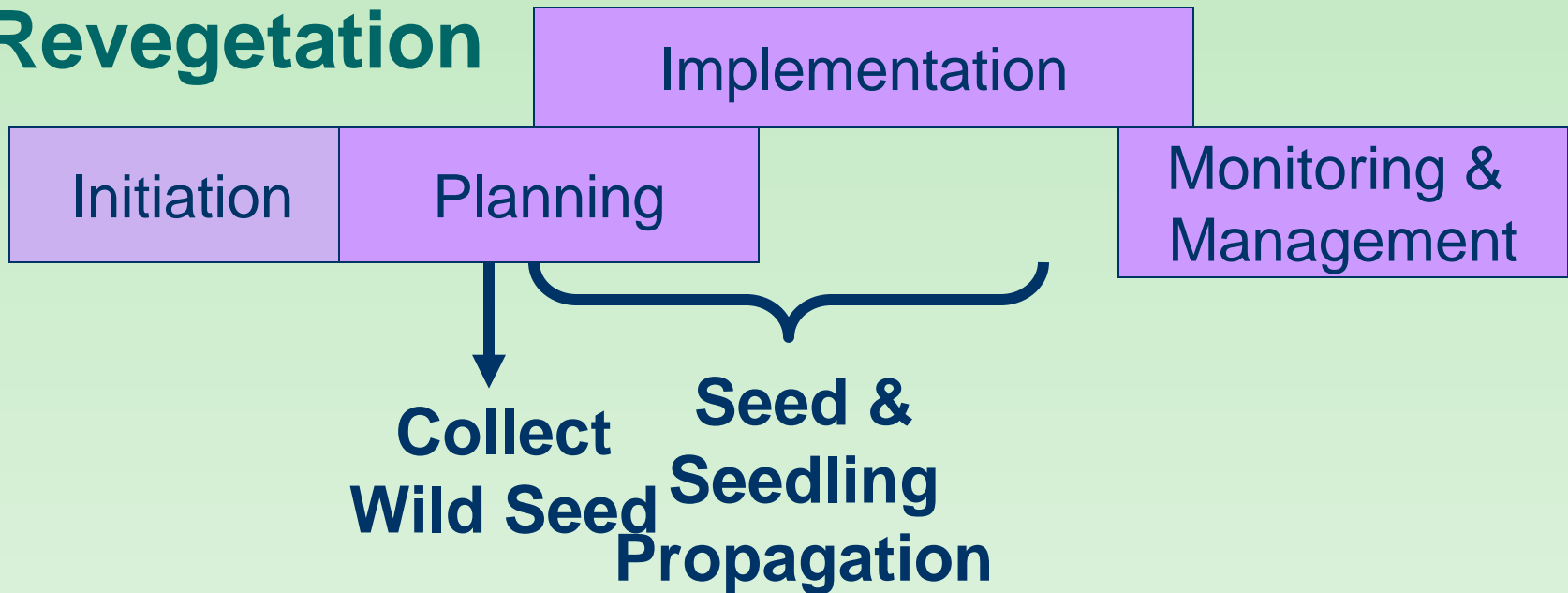
## Road Project

# Wild Seed Collections



# Integration of Timelines

## Revegetation



## Road Project

# Seed Propagation Contracts

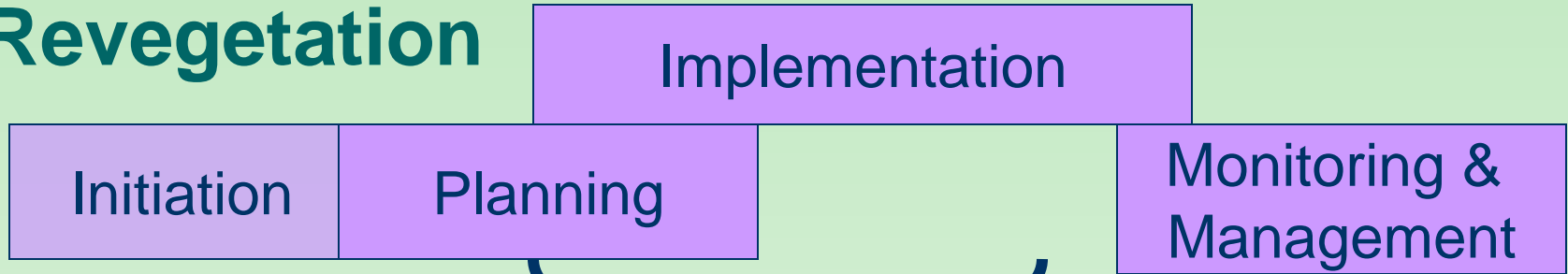


# Seedling Propagation Contracts



# Integration of Timelines

## Revegetation



**Seed & Seedling  
Propagation**

**Prepare Site**



## Road Project

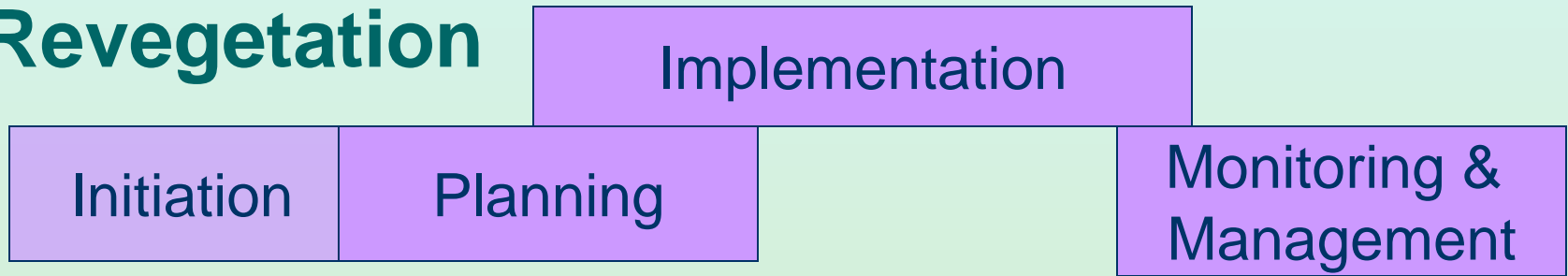
# Prepare Site



Topsoil Salvage & Placement

# Integration of Timelines

## Revegetation



**Seed & Plant**

**Prepare Site**



## Road Project

# Seeding

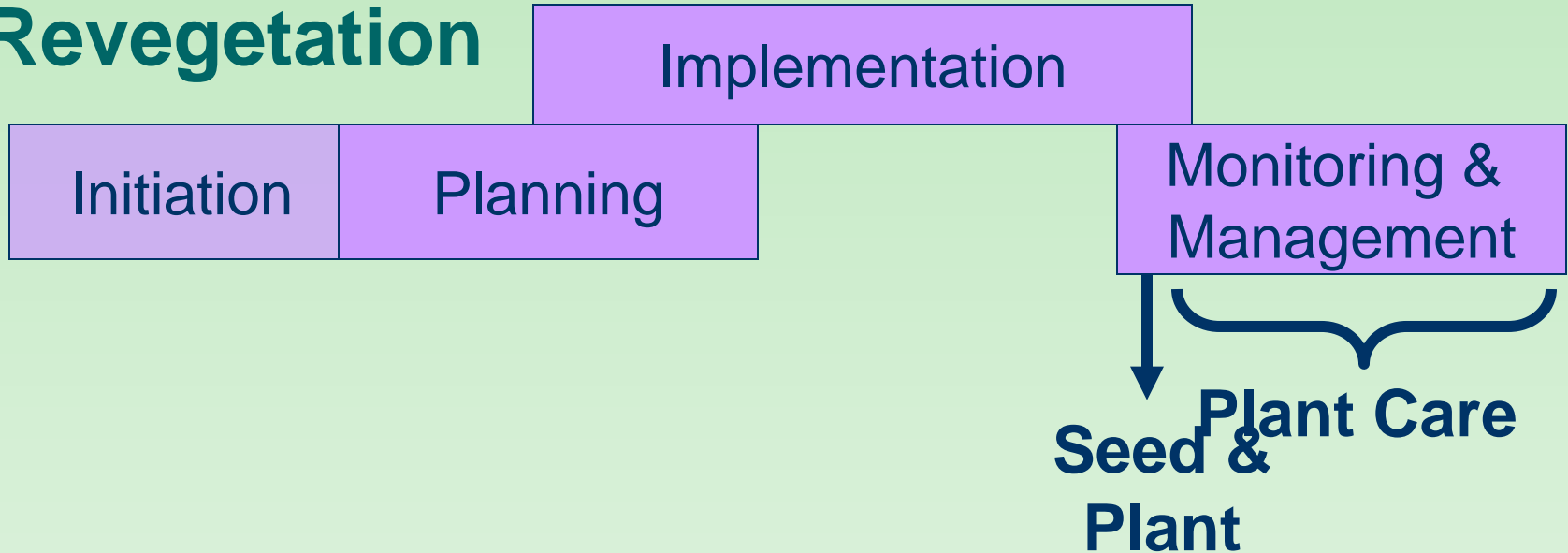


# Seed Covering



# Integration of Timelines

## Revegetation



## Road Project

# Plant Care



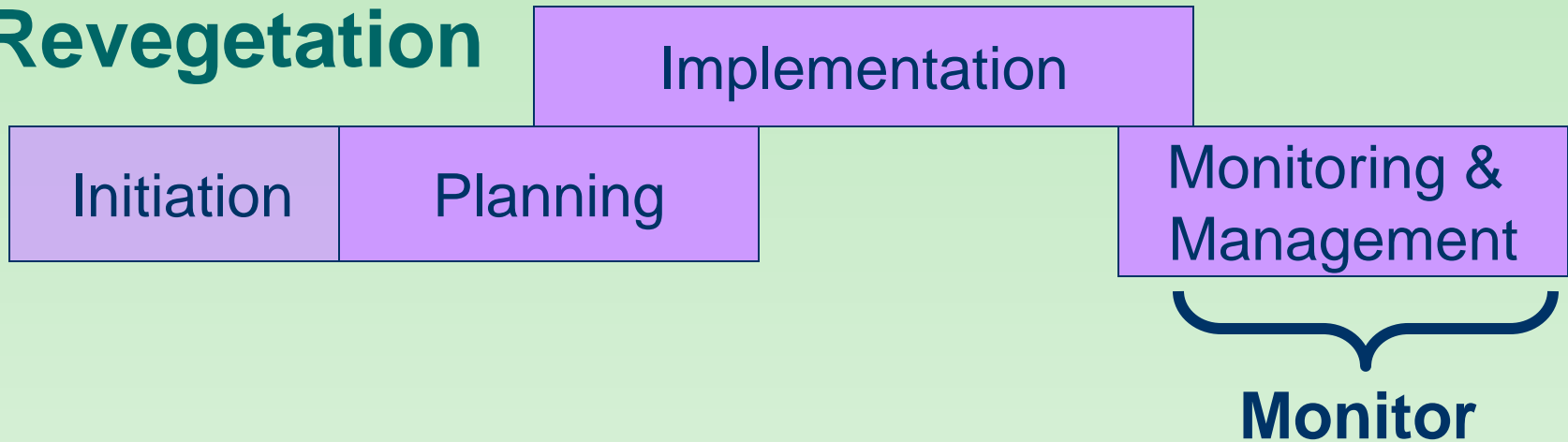
Mulch



Hydro-Fertilize

# Integration of Timelines

## Revegetation



## Road Project

# Keys to Success

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- Science-based
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- **Collaborative & Innovative**
- Adaptive

# Listening is essential



# Keys to Success

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# Adaptive Management

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**Investigate**

**Try it**

**Learn**

**Change**

**Share**

# Central Oregon Highway Projects







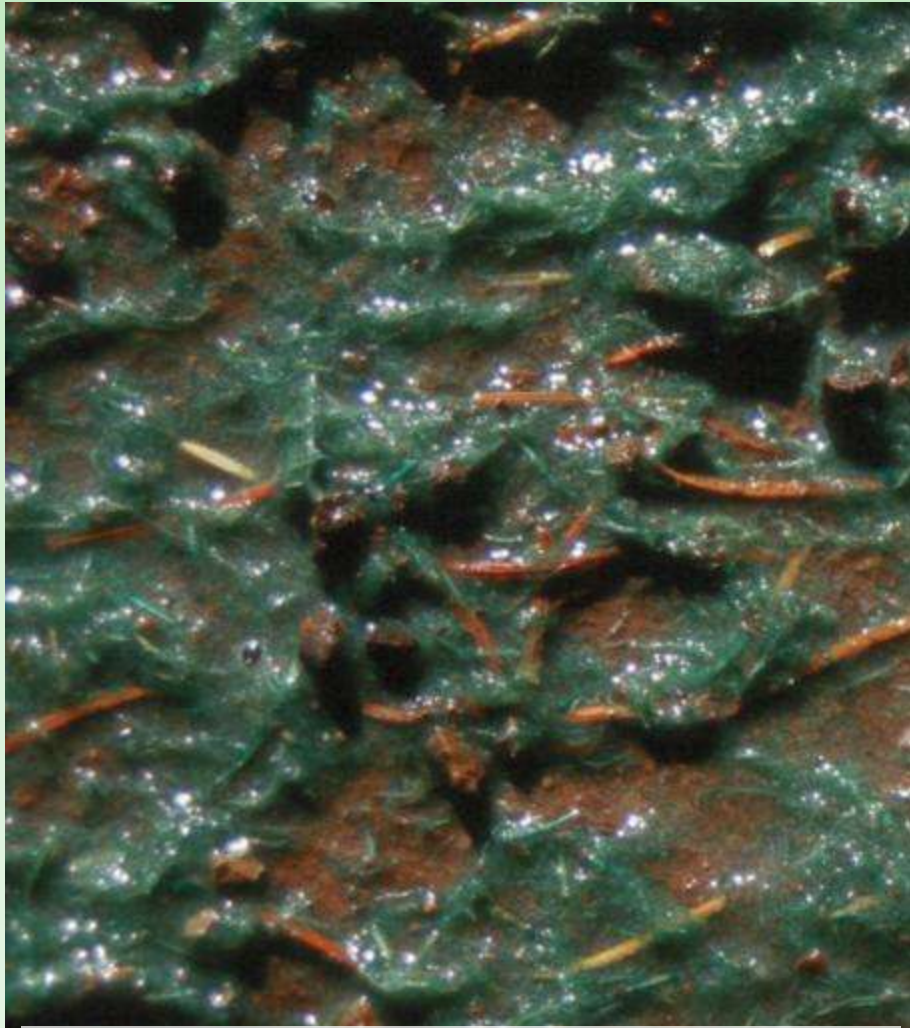
# INVESTIGATE: Rainfall Simulation



# TRY IT: Gentler Slope Shaping



# INVESTIGATE: Seed Covering



**Hydromulch**



**1" Mulch**

# TRY IT: Mulch Seedbed

**Slash**



**Mulch**



**Grinding Shredding**



# TRY IT: Mulch Seedbed



# LEARNED & CHANGED



# Adaptive Management

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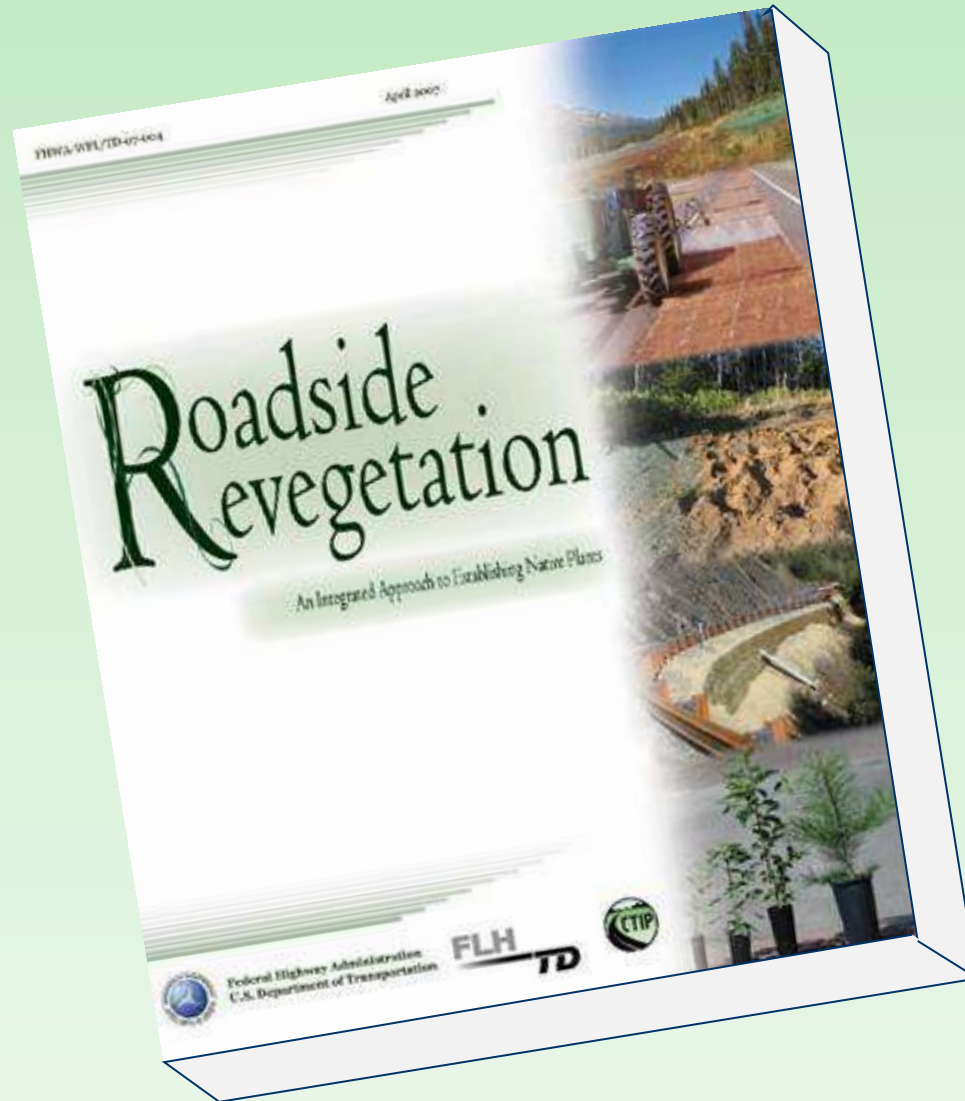
 Western Forestry and  
Conservation Association

**Restoration of Disturbed Sites  
with Native Plants:  
AN INTEGRATED APPROACH**

**Workshop  
Wenatchee WA  
June 14-17, 2010**



# Roadside Revegetation Technical Guide



# Roadside Revegetation Website

<http://www.nativerrevegetation.org/>

## ROADSIDE REVEGETATION

An Integrated Approach to Establishing Native Plants



the  
**art&science**  
of revegetation



This web site contains three integrated and interlinked modules dedicated to explaining the art and science of roadside revegetation. Each module contains similar topics, but communicates them differently depending on informational needs. You may begin with any module and continue through it step-by-step or you may use the *in depth* links to visit related information in other modules to reinforce what you are learning.

LEARN »

TRAIN »

VISUALIZE »