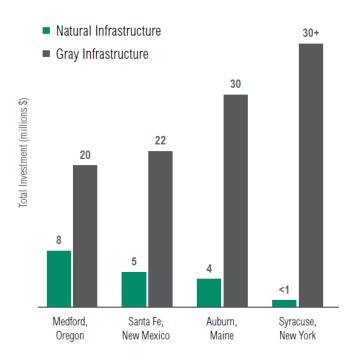
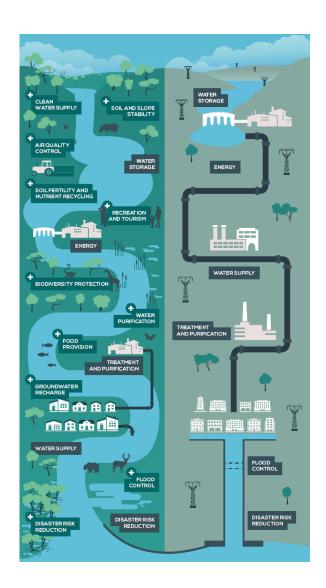


#### WHY GREEN + GRAY?

Reduce capital expenses and treatment costs

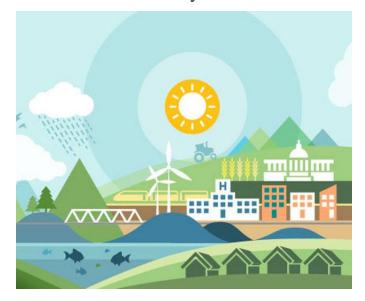


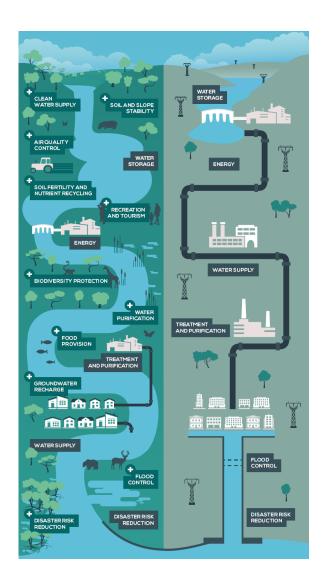


Source: IUCN 2015

#### WHY GREEN + GRAY?

Improve climate resilience & business flexibility





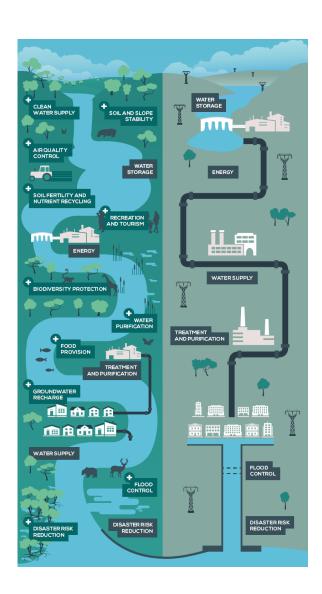
Source: IUCN 2015, App Developer



#### WHY GREEN + GRAY?

Meet SDG, urban-rural development and water stewardship goals





Source: IUCN 2015

# Catastrophic Events

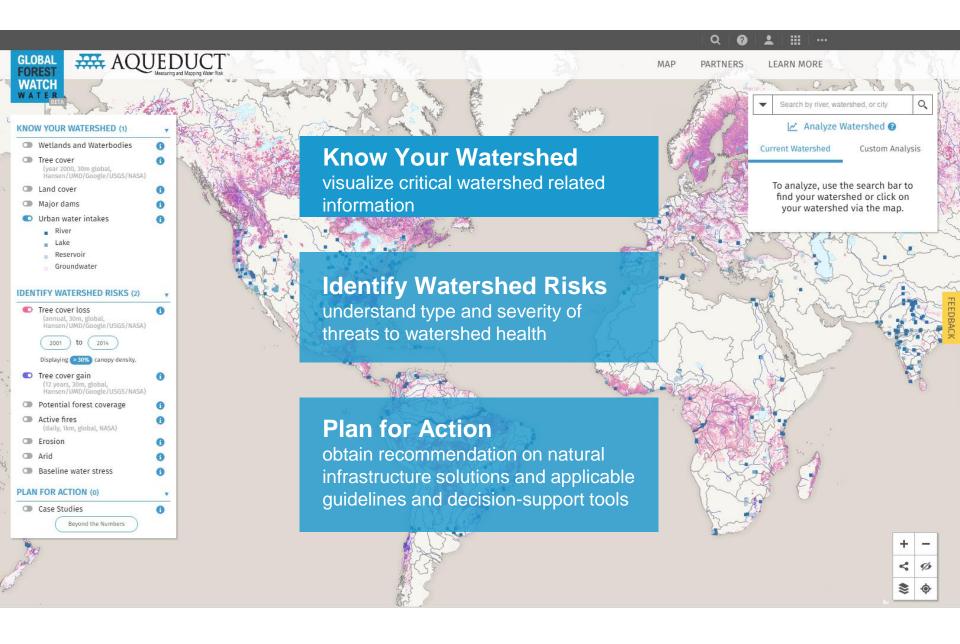


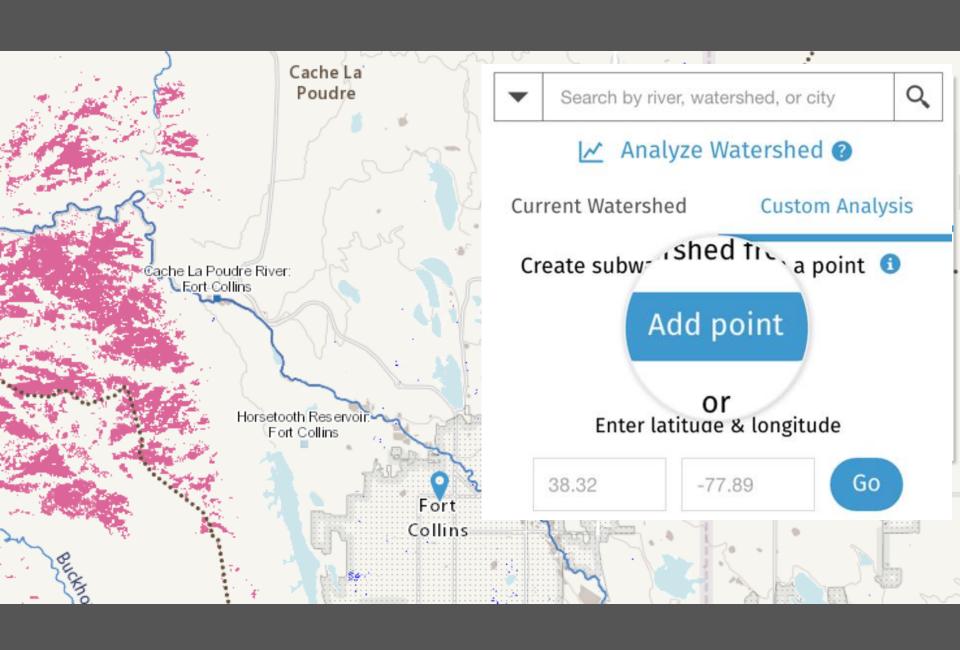
# Pipeline of Investable Projects









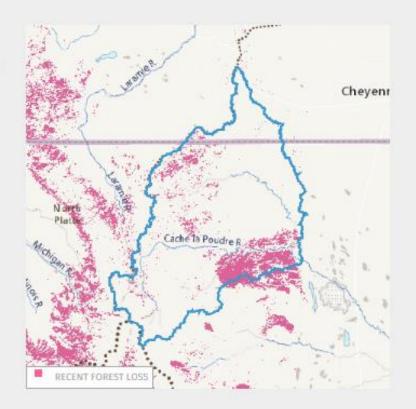


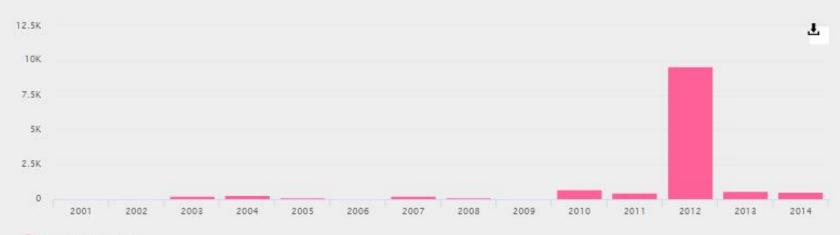
#### RECENT FOREST LOSS RISK SCORE: 5/5

This watershed experienced 12,902 Ha of tree cover loss from 2001 to 2014, accounting for 10.73% of total tree cover (2000), presenting a positive trend.

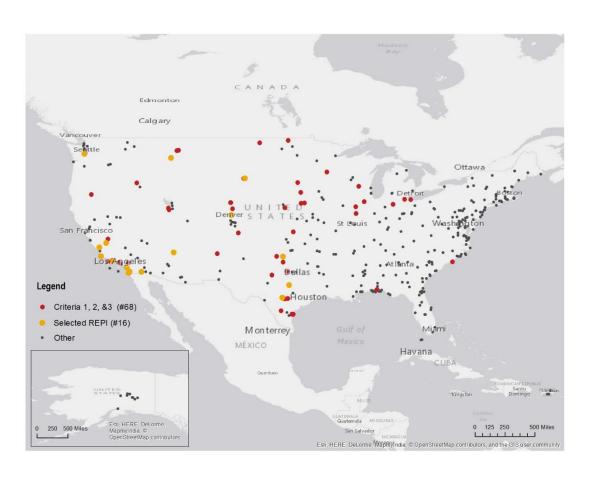
Recent forest loss risk was measured by the area of total forest loss from 2001 to 2014 as a share of total forest extent (year 2000). The threshold of canopy density for identifying forest and forest loss is set to 30 across the globe, which may include natural forest, plantations and other forms of vegetation depending on the region. This risk score is not applicable to arid areas and areas where total forest extent (year 2000) is less than 10% of watershed.

Recent forest loss estimates the potential of damaging impact from recent changes (2001 – 2014) in the extent of forest cover in a watershed. As forests are converted to other land uses or are unnaturally disturbed, their ability to regulate flow and purify water diminishes, putting communities at risk of flood, drought, higher cost of treatment, and greater incidence of drinking water contamination. In addition to the area of forest removed, the duration and magnitude of a watershed's response depends on various factors, including age and type of forest removed, climate, topography, and size of the watershed.





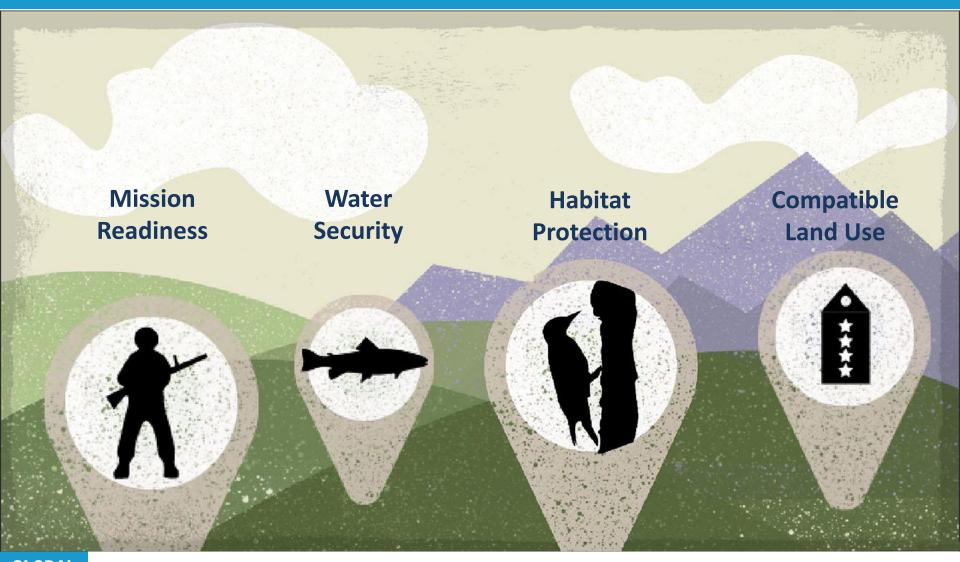
#### U.S. DOD Installation Water/Watershed Risk Prioritization



THE SCHERMAN FOUNDATION



# U.S. DOD Installation Multi-Benefit Approach





## 2017 on Pace for Worst US Fire Season on Record



Source: US Forest Service Photo Credit: Jim; The Oil Drum

#### Western Forests in Crisis

# PROBLEM: OVERGROWN FORESTS

- Overgrowth intensifies drought and wildfire
- Water quality threatened
- Hydropower generation severely affected
- US Forest Service facing rising suppression costs



**Today** 

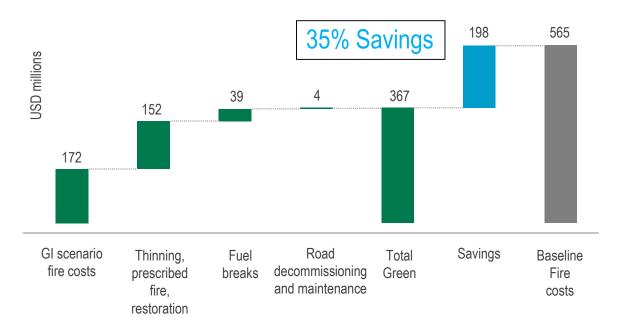


Photo Credit: US Forest Service, Viewing Forests Through a Historical Lens, Fall 2009

## The Business Case: Northern Front Range, CO

Preliminary summary financials for natural infrastructure Approaches for managing fire risks in Northern Front Range, CO

Present value of investments over 20 years, Base Case Scenario

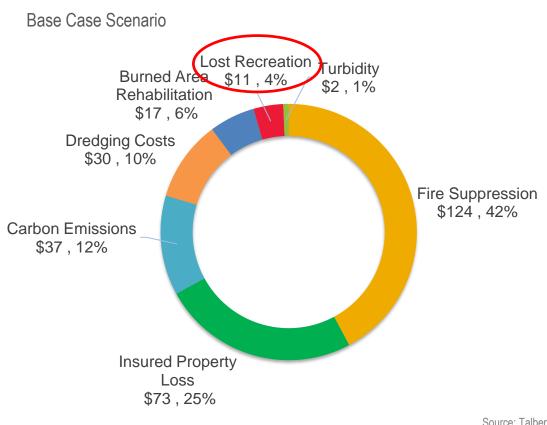


Source: Talberth, J. et al. 2014. Analysis of the Cache la Poudre and Big Thompson Watersheds of Colorados Front Range – Preliminary Report: WRI and CSE



## The Business Case: Northern Front Range, CO

Preliminary summary financials for Northern Front Range, CO Distribution of (real-time) Savings, USD millions





Source: Talberth, J. et al. 2014. Analysis of the Cache la Poudre and Big Thompson Watersheds of Colorados Front Range – Preliminary Report: WRI and CSE

## Recreational Values and Connection to Place



Source: Vail Resorts

#### Restoration Solution = Jobs in the Forest



1,000 acres (405 ha) = 15 new forest positions & another 30 spin-off jobs

Goal to decrease local unemployment rate 2% over 10 years (450 jobs)

Source: , Community Stewardship Project, 2011; Economic Development Authority Director for Tuolumne County,

# Moving from Pilot to Policy - AB 2480



Why Forests Matter

What We Do

POLICY

#### PROMOTING WATER SECURITY, NATURALLY

California's population is projected to hit 50 million by 2050, increasing demand for an already scarce resource—cool, clean water. This increased demand in a warmer and drier state dramatically highlights the critical need to improve the reliability of our primary water supply. To help address this, Pacific Forest Trust is working closely with California Assemblymember Richard Bloom on his pioneering

legislation, AB 2480, which recognizes source watersheds as infrastructure and a critical component of the state's water system. AB 2480 also calls for a prioritized and comprehensive investment plan to restore and conserve key



#### CONSERVATION FINANCE NETWORK

About

Getting Started

Boot Camps

Forest Agriculture Water Open Space Oceans Cities All News

Green Bonds Are a New Source of Financing for Water

Security

Logan Yonavjak June 22, 2016

Topics: Water

San Francisco Public Utility

Commission - \$350M



In this interview, Todd Gartner, senior associate and natural infrastructure for water manager at World Resources Institute (WRI), provided a high-level perspective on how green bonds can support natural infrastructure for water security.

CFN: Whom do you see as the major players in the space right now with regard to green bonds for natural infrastructure?

Gartner: There have been a lot of enthusiasm and conversation increasingly over the last couple of years with actual issuance in the green-bonds space.

Within the last month, San Francisco issued a bond related to water security. Also, DC has clearly been receiving a lot of attention for its green century bond, even though that bond was primarily focused on built infrastructure. Connecticut and









