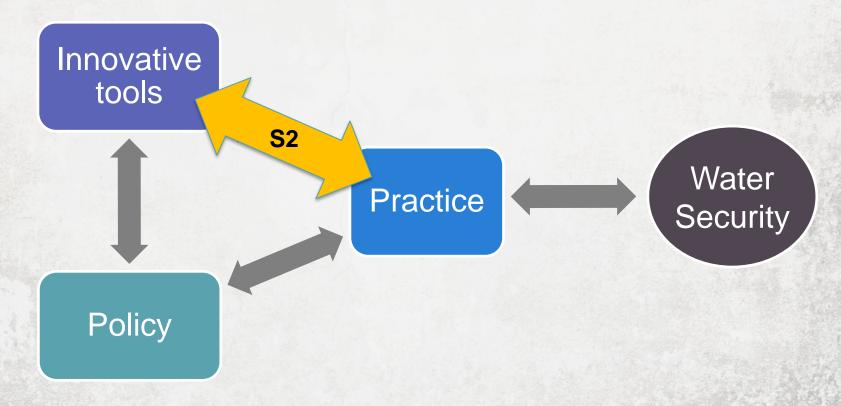


Ecosystem Based Water Management: Session 2





INNOVATION TO PRACTICE, SESSION 2



Building bridges from innovation to practice

KEYNOTE SPEAKERS:

Adrian VogI, Natural Capital Project: Challenges and opportunities to bridge innovation and practice

Tom Gleeson, University of Victoria: How much groundwater can we pump and protect environmental services?

INNOVATION TO PRACTICE, SESSION 2



Building bridges from innovation to practice



WORLD CAFÉ















ECOSYSTEM MANAGEMENT FOR WATER SECURITY:

Challenges and opportunities to bridge innovation and practice

Adrian L. Vogl

Natural Capital Project, Stanford University Seminar 4: Ecosystem Based Water Management: From Innovation to Practice avogl@stanford.edu

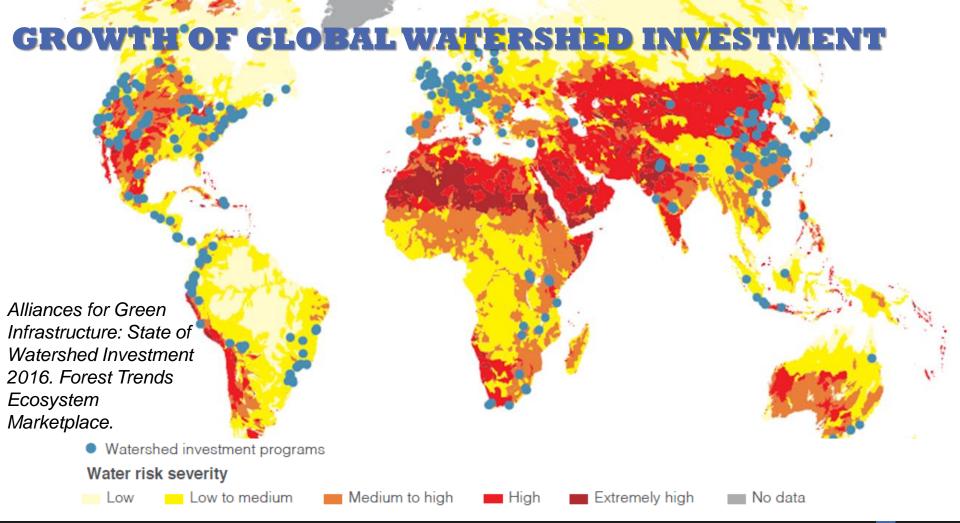
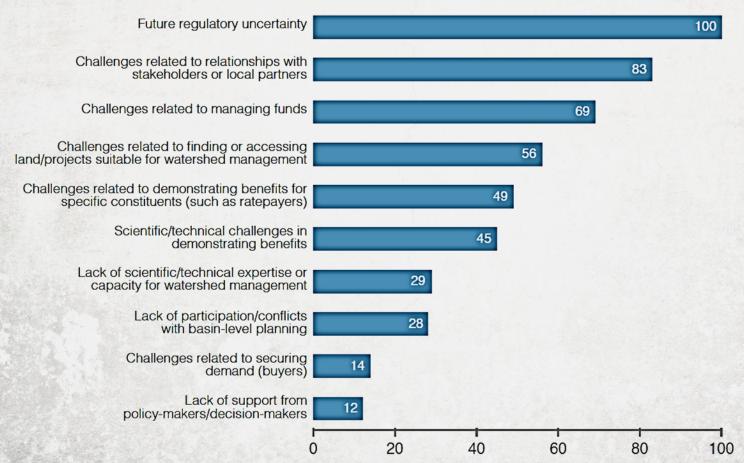
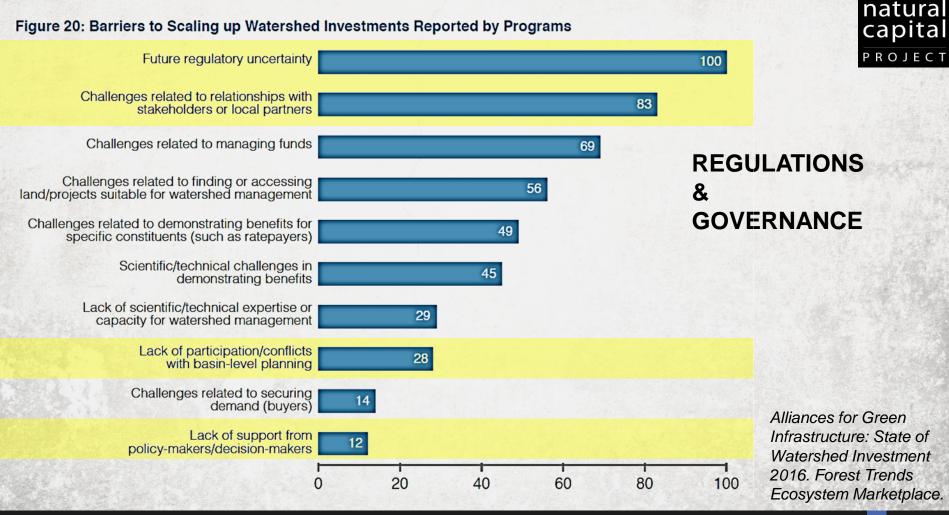


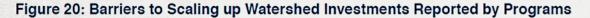
Figure 20: Barriers to Scaling up Watershed Investments Reported by Programs



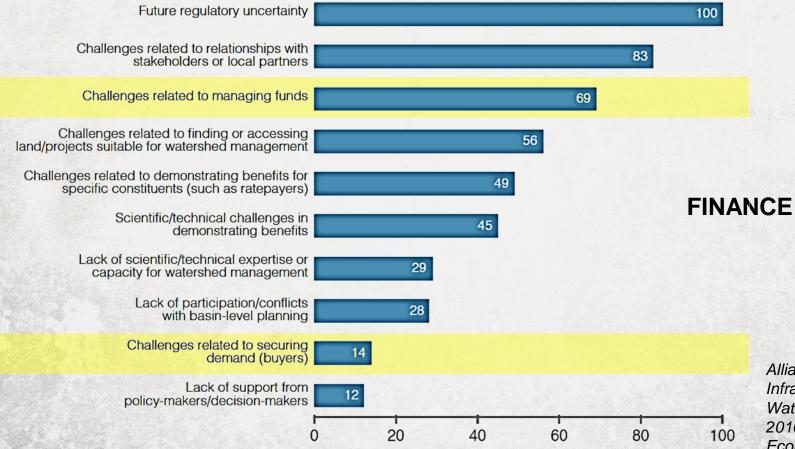


Alliances for Green Infrastructure: State of Watershed Investment 2016. Forest Trends Ecosystem Marketplace.





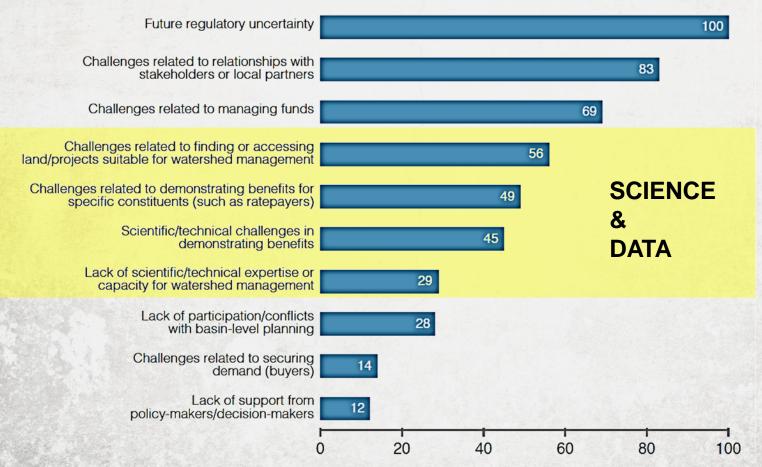




Alliances for Green Infrastructure: State of Watershed Investment 2016. Forest Trends Ecosystem Marketplace.

Figure 20: Barriers to Scaling up Watershed Investments Reported by Programs





Alliances for Green Infrastructure: State of Watershed Investment 2016. Forest Trends Ecosystem Marketplace.



PROJECT

Innovative

tools

drivers,

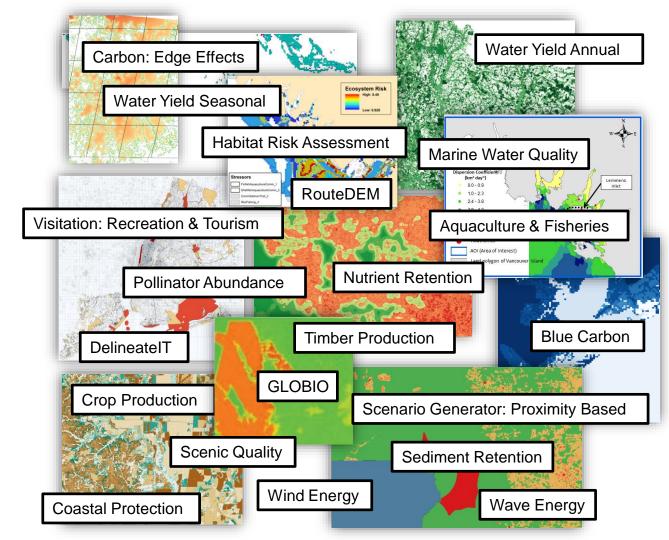
actors & values

policy scenarios



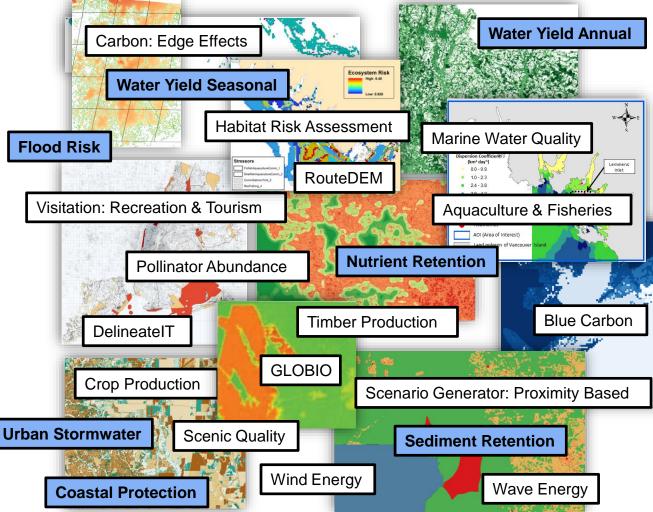


http://naturalcapitalproject.org/









http://naturalcapitalproject.org/



HOW DO WE KNOW THIS "WORKS"?



Where do we invest our limited resources in green infrastructure for the biggest impact?















Collaborative investment portfolio for Agua Por La Vida fund (Cauca valley, Colombia) CUENCA HIDROGRAFICA

<u>Data</u>

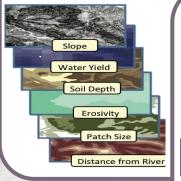


Distance from River





Collected environmental and cost data relevant to water fund objectives.



Analysis

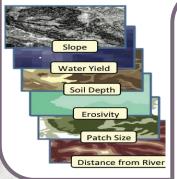
Developed alternative investment options through estimated provision of: Water Supply Regulation Erosion Control Terrestrial Biodiversity Groundwater Recharge







Collected environmental and cost data relevant to water fund objectives.



<u>Analysis</u>

Developed alternative investment options through estimated provision of: Water Supply Regulation Erosion Control Terrestrial Biodiversity Groundwater Recharge





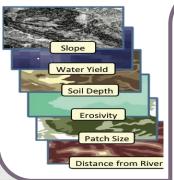
Ranking tool indicates optimal places and management activities for financial returns and biodiversity & ecosystem service (BES) provision.

Insight



Data

Collected environmental and cost data relevant to water fund objectives.



Analysis

Developed alternative investment options through estimated provision of: Water Supply Regulation Erosion Control Terrestrial Biodiversity Groundwater Recharge

Score High



Ranking tool indicates optimal places and management activities for financial returns and biodiversity & ecosystem service (BES) provision.



Insight

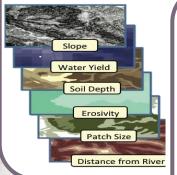
<u>Decision</u>

Budget allocation according to BES outputs, cost data, stakeholder preferences and investment amount.

\$3 million over 5 years

Data

Collected environmental and cost data relevant to water fund objectives.



Analysis

Developed alternative investment options through estimated provision of: Water Supply Regulation, **Erosion Control** Terrestrial Biodiversity Groundwater Recharge





Ranking tool indicates optimal places and management activities for financial returns and biodiversity & ecosystem service (BES) provision.



Insight



Decision

Budget allocation according to BES outputs, cost data, stakeholder preferences and investment amount.

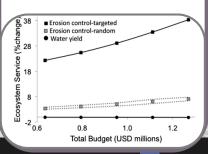
> \$3 million over 5 years

Returns

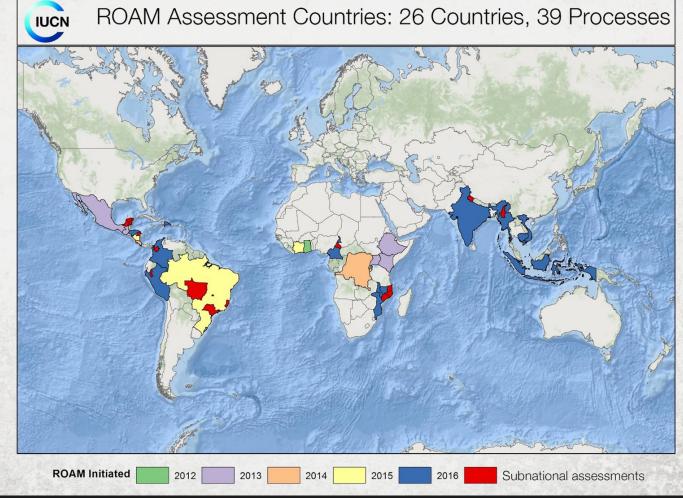
natural capital

PROJECT

Improved water supply and filtration. Water improvements are between 40 and 200% higher than with ad-hoc investments.

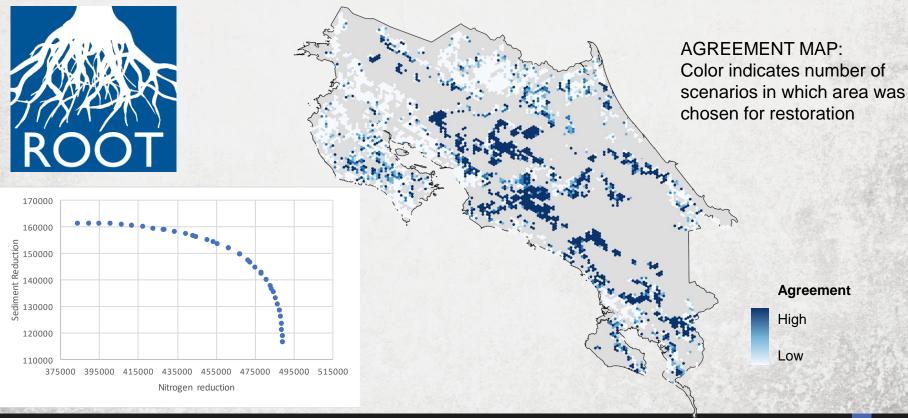






A NEW TOOL FOR OPTIMIZING INVESTMENTS IN GI







Landscapes, at your service

Applications of the Restoration Opportunities Optimization Tool (ROOT)

Craig R. Beatty, Leander Raes, Adrian L. Vogl, Peter L. Hawthorne, Miguel Moraes, Javier L. Saborlo and Kelly Meza Prado

First edition









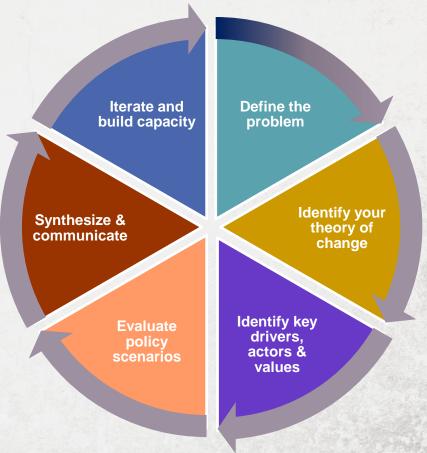


https://portals.iucn.org/library/node/47805

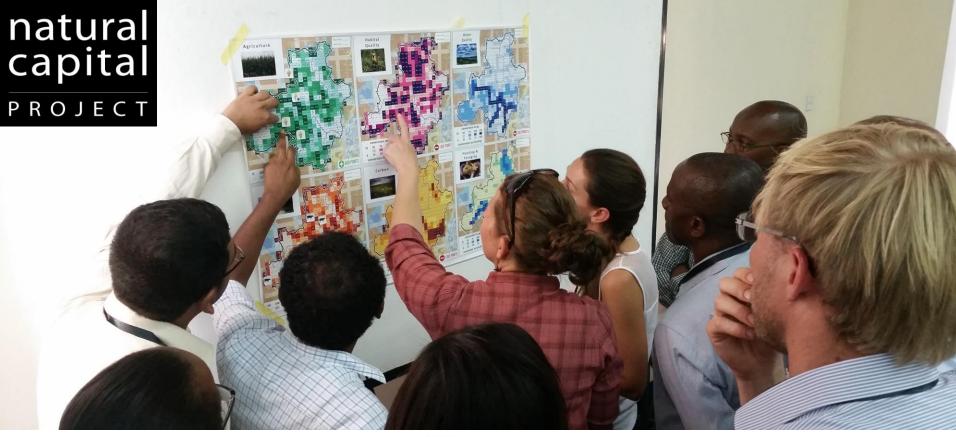


CO-DEVELOPMENT

INCREASES
RELEVANCE
& UPTAKE!



natural capital













University of Minnesota

Driven to Discover[™]

