



WORLD
RESOURCES
INSTITUTE

GLOBAL FOREST WATCH WATER

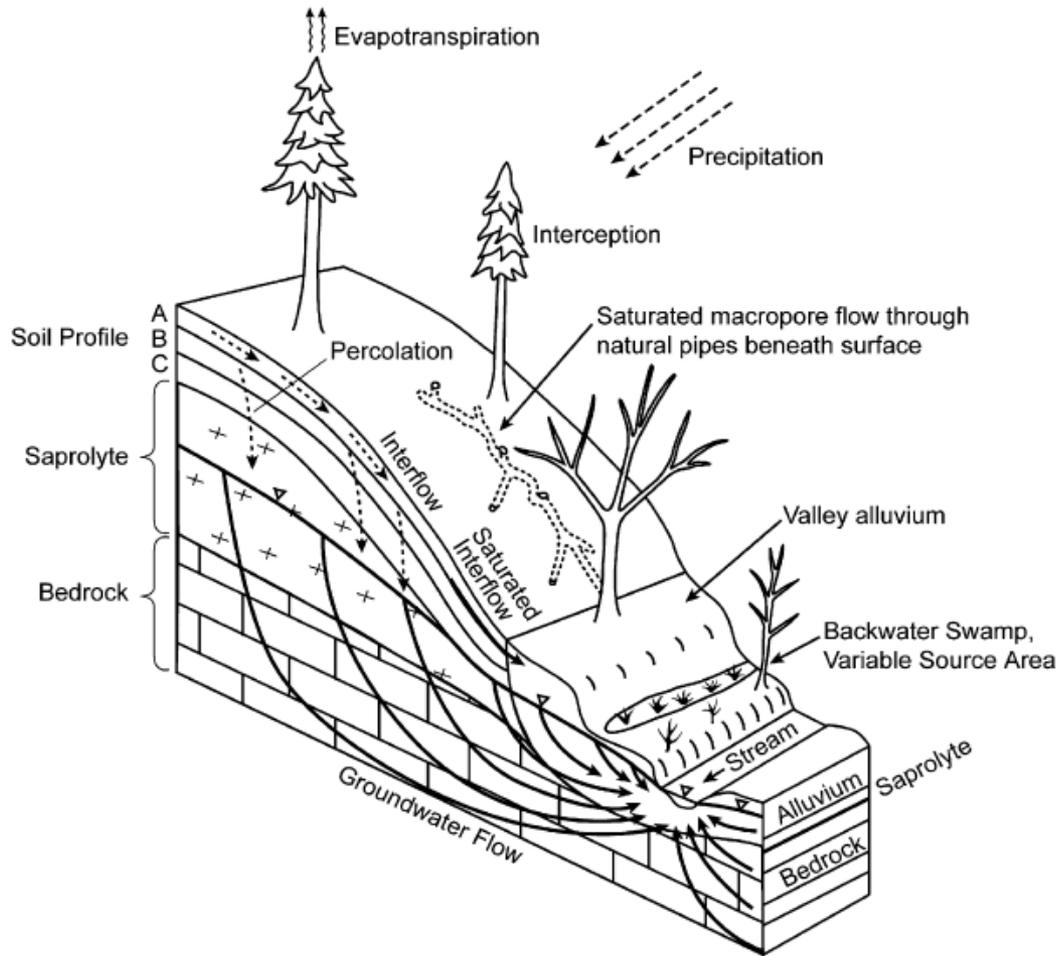
BETA

DEMO @ WRI | [Washington, DC](#) | [March 10, 2016](#)

**GLOBAL
FOREST
WATCH
WATER**

THE APP

WATER AND LAND



Purify water



Regulate hydrologic cycle



Mitigate flood and drought



Reduce erosion



Conserve biodiversity



Sustain livelihoods



USERS PROFILES

DOWNSTREAM BENEFICIARIES



- Visualize & understand watershed conditions
- Inform policy for watershed management
- Optimize investment

FINANCING & DEVELOPMENT



- Identify investment opportunities
- Prioritize geographies and approaches
- Monitor progress

CIVIL SOCIETY & RESEARCH



- Advance research & monitoring
- Advocate for watershed protection
- Inform resource management decisions

APP FEATURES

Global Scale



Custom Area



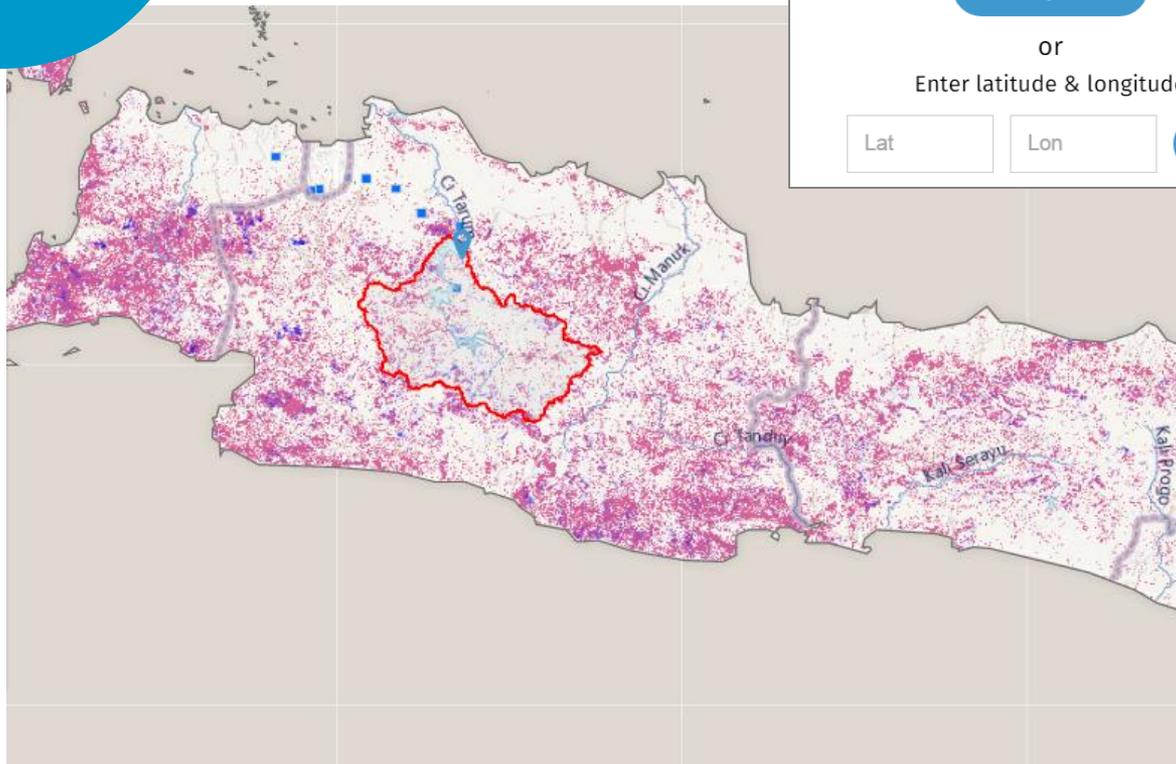
Best Data & Near-real-time



Beyond Numbers



Custom Area



▼ Search by river, watershed, or city 🔍

[Analyze Watershed](#)

Current Watershed Custom Area

Create subwatershed from a point ⓘ

[Add point](#)

or

Enter latitude & longitude

Lat Lon [Go](#)

THE DATA LAYERS

KNOW YOUR WATERSHED



- Wetlands & Waterbodies
- Tree Cover (2000)
- Land Cover
- Dams
- Urban Water Intakes

IDENTIFY WATERSHED RISKS



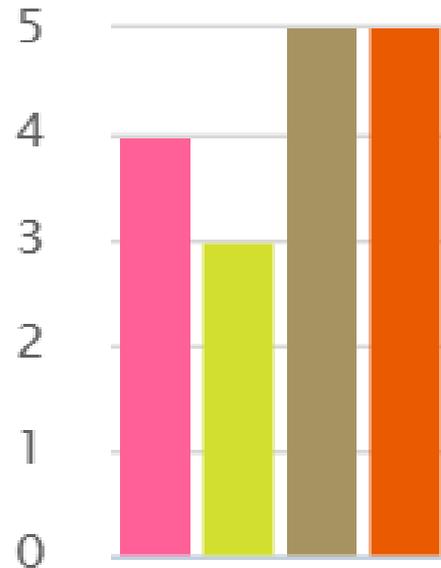
- Recent Tree Cover Loss
- Historical Tree Cover Loss
- Erosion
- Fire
- Baseline Water Stress

PLAN FOR ACTION

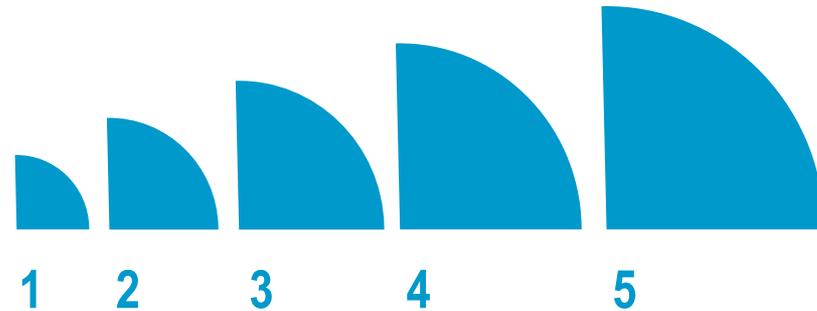


- Strategies
- Success Factors
- WRI Resources
- Case Studies

WATERSHED RISK SUMMARY



- Recent tree cover loss
- Historical tree cover loss
- Erosion
- Fire



Watershed risk is defined as the chance of damaging effects to watershed health and its potential to deliver critical functions in regulating water quantity and quality.

We consider four watershed risks and the scores range from 1 – 5. A higher risk score indicates that the watershed health is more likely to be impacted as a result of exposure to that stressor and more urgent action is needed to mitigate the risk.

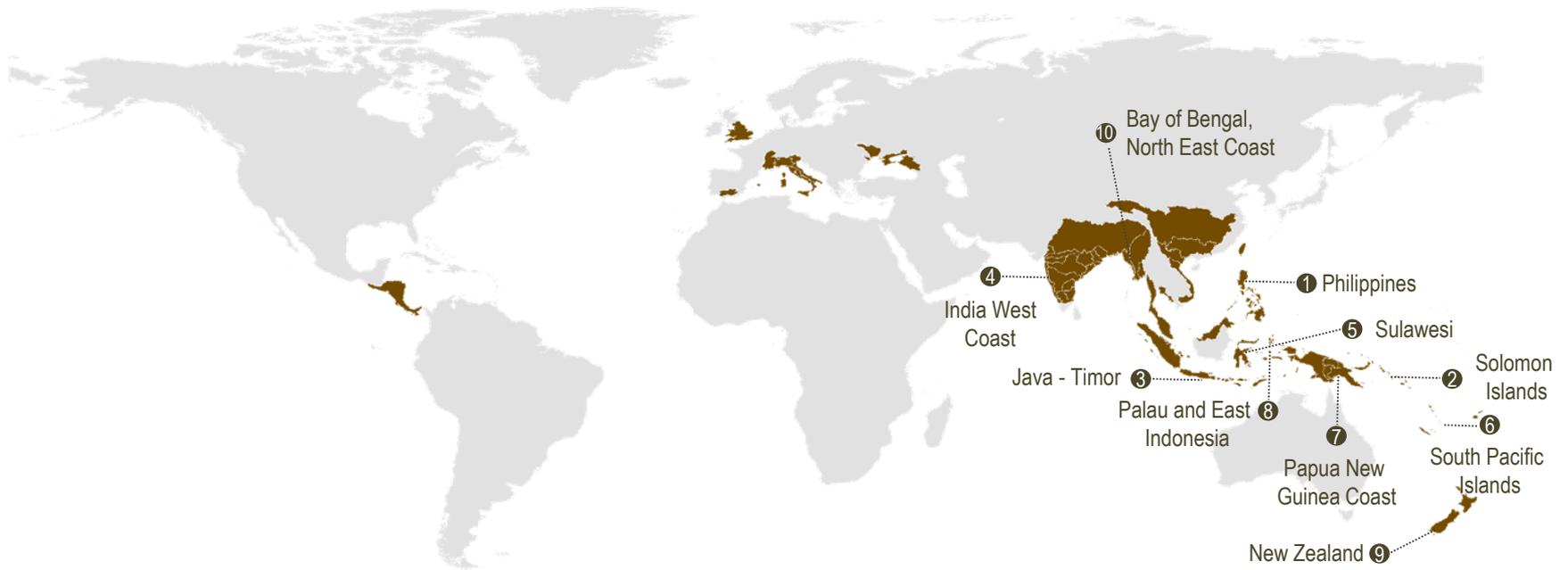
Recent Tree Cover Loss



Historical Tree Cover Loss (Pending)



Erosion



Fire



NATURAL INFRASTRUCTURE STRATEGIES

	STRATEGY	RISK
	Forest Protection	 Recent forest loss
	Reforestation	 Historical forest loss
	Agricultural Best Management Practices	 Sedimentation
	Riparian Restoration	 Sedimentation
	Forest Fuel Reduction	 Fire

WRI RESOURCES

Awareness Raising

Business Case

Roadmap + Diagnostics

Financing

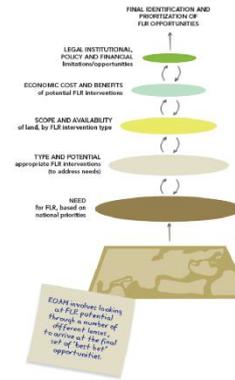
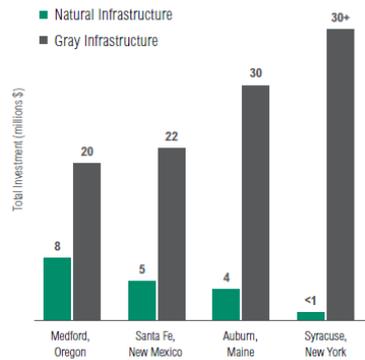


Table 7 | Summary of Natural Infrastructure Finance Mechanisms

FINANCE MECHANISM	TYPICAL REVENUE ALLOCATION			TYPICAL TYPE OF FINANCE MECHANISM
	LAND ACQUISITION	EASEMENTS	LAND MANAGEMENT ACTIVITIES	
Direct Investment by Governments and Utilities				
Rates	X	X	X	Utility
Municipal bonds (revenue-backed)	X	X		Utility
Municipal bonds (general obligation)	X	X	X	Government
Rates surcharges	X	X	X	Utility
Earmarked Proceeds	X	X	X	Government
Development impact fees	X	X	X	Government
Reverse auction	X	X	X	Government
State revolving funds	X	X	X	Utility
Farm bill programs			X	Government
Water Infrastructure Finance and Innovation Authority	TBD	TBD	TBD	Utility

CSO ENGAGEMENT



INDIA

Ecological Society

Centre for Ecology Development
and Research (CEDAR)

Environics Trust



INDONESIA

ECOTON

Yayasan Mitra Insani
(YMI)

Hutan Riau

GFW WATER 2.0 LOOKING FORWARD

1. Improve relevance of data, model, and functionalities

- + GFW updates
- + Country/region data
- + Complete data set
- + Observed data
- + Land use
- + Upload boundaries

2. Strengthen solution-oriented decision support package

- + Socio-economic, Legal & institutional contexts
- + Refined solution sets
- + Integrated other decision support tools
- ...

3. Increase awareness and mainstream tool adoption

- + GFW partners
- + Capacity building
- + Knowledge sharing

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PROJECT UPDATE

FINANCING



South America

 Bonaire	 Suriname
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Africa

 Burkina Faso	 Mozambique
 Egypt	 Rwanda
 Ethiopia	 South Africa
 Ghana	 Tanzania
 Kenya	 Uganda
 Malawi	 Zambia



Asia

 Bangladesh	 Philippines
 Indonesia	 Vietnam
 Myanmar	

FINANCING



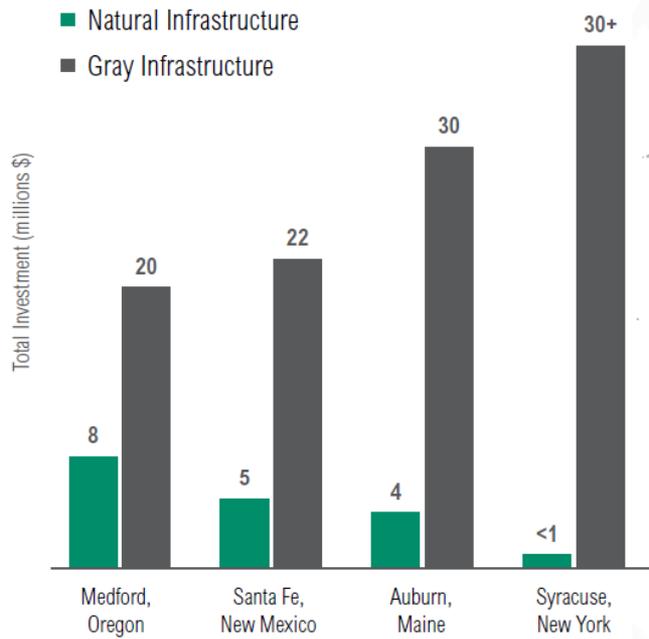
THE WORLD BANK

Treasury

Green Bonds: Sustainable Investment Opportunities



BUSINESS CASE



FUNDAÇÃO GRUPO BOTICÁRIO
DE PROTEÇÃO À NATUREZA



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GUIDANCE

Investing in Natural Infrastructure for Drinking Water: Lessons from 13 Watershed Investment Programs in the United States (2016)

THEME	SUCCESS FACTOR
Building Momentum	<ul style="list-style-type: none">■ Presence of drivers or windows of opportunity for natural infrastructure investments■ Presence of champions and effective advocates■ Investment is supported by a sound business and economic case■ Effective partnerships are established for source water protection■ Effective public outreach and communication
Designing	<ul style="list-style-type: none">■ Landscape assessments are conducted to identify priority areas for investment■ Sustainable financing mechanisms are available
Implementing	<ul style="list-style-type: none">■ Partners have defined responsibilities and the capacity for implementation■ Capacity to work across different types of landownership
Maintaining	<ul style="list-style-type: none">■ Outcomes are monitored and reported based on an agreed upon definition of success■ Capacity to leverage sufficient funding to achieve landscape scale impacts■ Capacity to look ahead and plan for the future

**GLOBAL
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WATCH
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**COLLABORATION
& INTEGRATION**