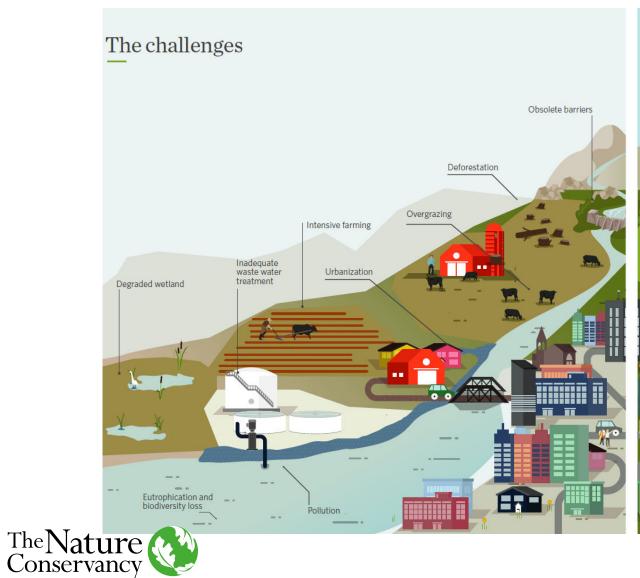




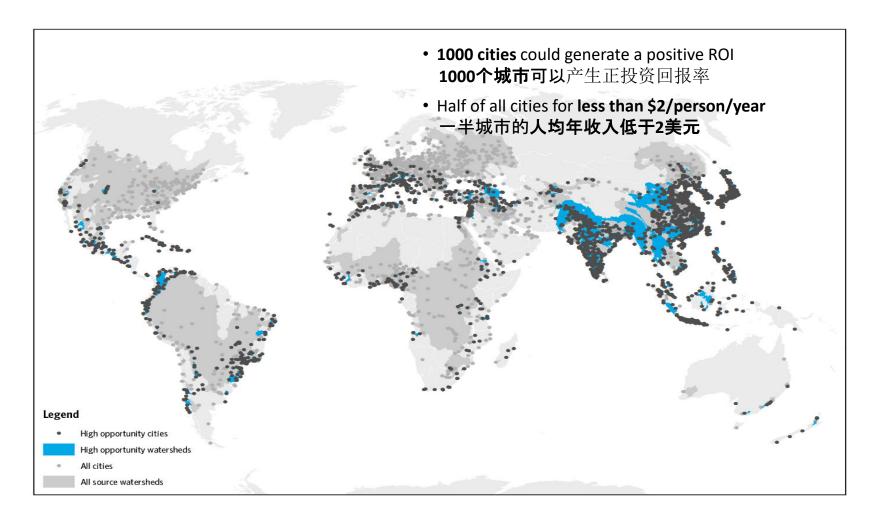
We envision that water systems can be managed to be regenerative and restorative to nature 我们设想可以对水系统进行管理,使其再生并恢复自然





NBS to improve water quality: a global opportunity NBS改善水质: 全球机遇







Source: TNC, Beyond the Source (2017)

State of knowledge regarding the efficacy of NBS 关于NBS效用的知识状况

WATER SECURITY CHALLENGE	WATER A	VAILABILITY	DISASTER RISK	WATER	QUALITY	Potential for
Ecosystem benefit	Dry season flows	Groundwater recharge	Flood risk	Erosion & sediment	Nutrients & pollutants	multiple co-benefits
Protection						
1 Targeted habitat protection	✓	✓	11	/ /	✓	
Restoration						
2 Revegetation	✓	✓	/ /	/ /	✓	
3 Riparian restoration	✓	✓	✓	/ /	√ ✓	
4 Wetlands restoration	✓	✓	*	✓	√ √	
5 Floodplain restoration	✓	✓	11	4 4	✓	
Management						
6 Agricultural BMPs		✓		11	44	
7 Ranching BMPs	✓	✓		✓	✓	
8 Forestry BMPs	✓			✓	✓	
9 Fire Management			//	44	✓	
Created Habitats						
10 Artificial wetlands	✓	✓	✓	✓	√ √	
11 Sustainable Urban Drainage Systems (SuDS)	* *	✓	11	✓	44	



LEGEND	LOW	MEDIUM	HIGH
Magnitude of water security benefit			
Depth of evidence		✓	44
Potential for multiple co-benefits			

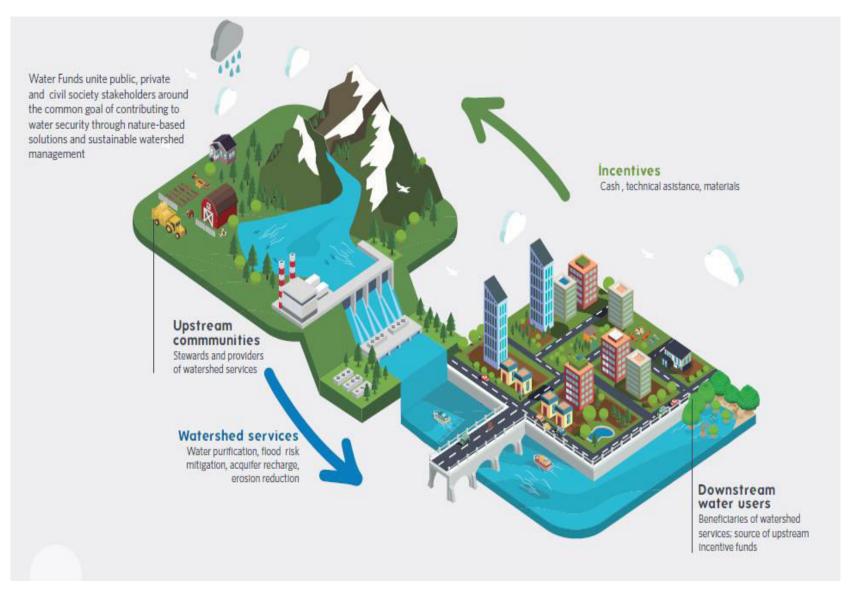
Source: TNC/AFD How to Guide

Challenges 挑战

- Lack of clarity regarding costs and benefits of NBS relative to other investments
 与其他投资相比, NBS的成本和收益不明确
- Lack of ability to work beyond jurisdictional boundaries, or to create collective action 缺乏超越管辖范围开展工作或采取集体行动的能力
- Lack of data and evidence of impact
 缺乏影响的数据和证据
- Lack of enabling policies or at least, the absence of policy barriers 缺乏扶持政策,或者至少没有政策障碍



Water Funds are location specific mechanisms to deliver Nature-based Solutions





TNC water fund track record touches every region: over 215 partners to create 46 water funds in 13 countries.

Outcomes include over 530,000 hectares of land under improved management and an estimated 100,000 people with increased place-based economic opportunity. We have received 300+ requests pending to help invest in nature-based solutions for water security from corporations, governments, utilities and financiers.



NBS in agriculture is the most cost-effective opportunity





Nature Based Solutions in agriculture is the most cost-effective opportunity



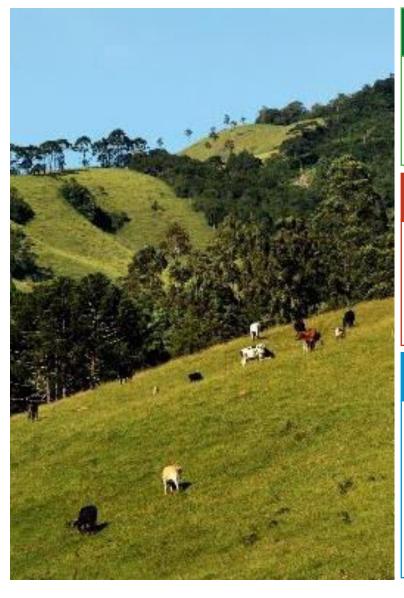


US\$3 million/year in increased agricultural yields for smallholders

27 million more liters of water flow into Nairobi each day

50% reduction in **sediment concentration** in rivers

Investment model: Regenerative Agriculture



Main ecosystem services

- > Water quality
- > Carbon sequestration
- > Biodiversity
- > Improved soil health

Beneficiaries

- > Farmers and landowners
- > Water and sewerage utilities
- > Public authorities
- > Downstream water users

Revenue streams & potential funding/financing solutions

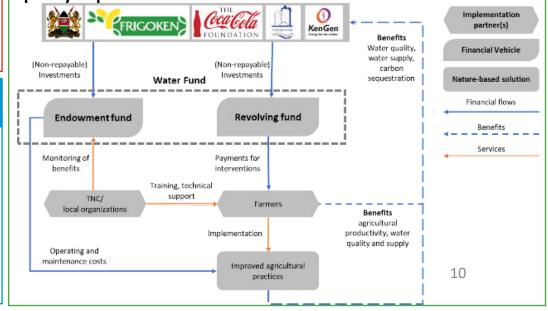
- Revenues from sale of naturefriendly agricultural products
- > Operating cost savings
- > PES (Carbon credits)
- > Water funds
- > Sustainability-linked loans

Case study: Nairobi Water Fund

Water fund implemented in the Tana river watershed to **secure sufficient water of adequate quality for Nairobi**. Tana river provides 95% of Nairobi's water and 50% of Kenya's electricity generation

The Tana WF supports farmers in adopting sustainable agricultural practices such as terracing, implementing grass strips, agroforestry methods and establishing water pans to harvest rainwater

4MUSD raised from fund members - 45,000 farmers involved 1.9 million m³ of /year of water to be harvested- 11% water quality improvement



Thank you

