



PERÚ

Ministerio
del Ambiente



USAID
FROM THE AMERICAN PEOPLE

Canada

A Common Vision for Peru: Natural Infrastructure for Water Security

This session will be held in English and Spanish.
Headsets for interpretation are available near the door



Imperial College
London



ACHO





PERÚ

Ministerio
del Ambiente



USAID
FROM THE AMERICAN PEOPLE

Canada

A Common Vision for Peru: Natural Infrastructure for Water Security

This session will be held in English and Spanish.
Headsets for interpretation are available near the door



Imperial College
London

A common vision for Peru: Natural Infrastructure for Water Security

Dirk ten Brink – USAID Peru
dtenbrink@usaid.gov



Water Resources in Peru

- Very unequal distribution in time and space
- Rainy season getting shorter, more intense and more unpredictable
- **Torrential rains causing floods and landslides**
- **Prolonged dry seasons resulting in water stress**

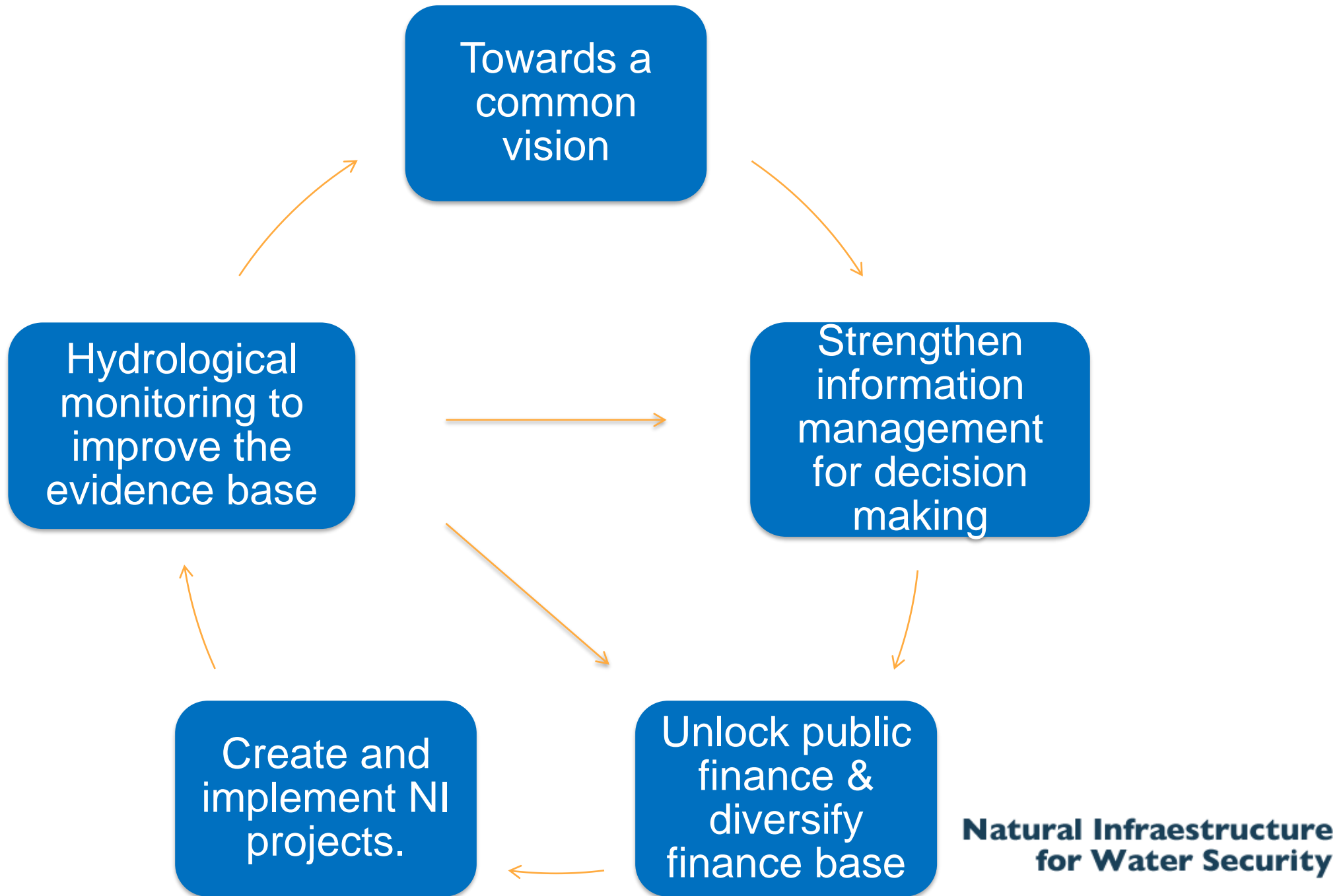


The Natural Infrastructure for Water Security project

- Unique trilateral US – Canada - Peru collaboration.
- \$27.5 M project implemented by a consortium of experts partners led by Forest Trends with international and local partners (2017-2023)
- **U.S. Global Water Strategy** (2017) which envisions a water secure world, where people have sustainable supplies of water of sufficient quantity and quality to meet human, economic, and ecosystem needs while managing risks from floods and droughts.
- **Canada's new Feminist International Assistance Policy** (2017) which integrates gender equality and the empowerment of women and girls in all other action areas such as environment, climate action and water management.

Peruvian leadership and a common vision for Natural Infrastructure for Water Security

- From piloting to scaling up...almost all ingredients are present
- Thanks to visionary Peruvian leadership during the past decade, Peru now has:
 - Comprehensive and legal & regulatory framework;
 - Tariffs for NI through PES mechanisms in drinking water sector;
 - Watershed councils + watershed management plans;
 - Climate Change Law (2018) – first in South America.



Dirk ten Brink – USAID Peru
dtenbrink@usaid.gov



A Common Vision for Peru

Natural Infrastructure for Water Security Project

Fernando Momiy



The theme of World Water Week 2018 is

**Water, Ecosystems, and
Human Development**



Lake Piuray is a critical source of water for the Andean city of Cusco, Peru

40%

of Cusco's water is
supplied by Lake
Piuray

- Sedacusco is the water and sanitation utility for Cusco, Peru (population 400,000)
- SEDACUSCO extracts 300 liters per second from Lake Piuray

In 2012, the communities of Lake Piuray and SEDACUSCO were in serious conflict

Lake Piuray Communities

"The city takes the water, while we don't have access to water and sanitation."

"SEDACUSCO extracts too much water and without paying."

"Stop using our water!"

SEDACUSCO (Water utility)

"The community contaminates the lagoon with chemical fertilizers, pesticides, untreated wastewater, and solid waste."

"The phosphate and nitrate levels of the water are at the maximum permissible limit."

"We need to invest in a better water treatment plant."

In 2013 SUNASS approved include a % tariff for Payment for Ecosystem Services

PIURAY LAKE – CUSCO

Projected contribution for PES in the first five years
2013 - 2017

	TARIFF INCREASES	INCOME (\$)	INCOME (\$)
Tariff for PES	9.0 %	7'979,223	2'493,507

Source: SUNASS

The Piuray lagoon's Case: Objectives

- Maintain the water quality of the lagoon
- Reduce social conflict
- Rehabilitation of Soil, conservation, forestation and reforestation of the micro-basin.
- Implementation of an organic agriculture program.
- Control of animals approaching water sources
- Improvement the sanitation of the communities
- Improved the living conditions of the people with an income





Problems and Opportunities for scaling up NI in Perú

- Now we have 28 utilities with PES tariffs
- Around \$30M allocated in separate and special accounting
- Build capacity and clear guidance to design effective, sustainable projects and to have a solid portfolio of NI projects
- Need a gender-focused NI Projects
- Base income for projects limited;
- NI Projects incorporated in the budgets of local and regional governments
- Developers depend on international cooperation, which limits the scale;
- Requires inter-institutional coordination

**Opportunity for scaling up
natural infrastructure in Perú**

Opportunities for scaling up NI in Perú

- Legal and regulatory framework developed by MINAM and SUNASS.
- Emerging watershed councils and watershed management plans is an opportunity to engage new sectors.
- Unparalleled commitment from water sanitation sector
- Water and sanitation program for rural areas by Minister of housing, construction and sanitation
- Special accounting for Disaster risk and CC Tariffs
- RCC
- Sierra Azul
- Agro Rural

Project objectives



Implemented Projects: Committed funds will be mobilized for NI projects, from US \$ 1 million annual to more than US \$ 12 million.



Critical mass of people with strengthened capacities: More than 1000 developers and evaluators for design, measurement and management of projects and portfolios of NI effective, sustainable, including gender focus.



Cross-sector collaborative work: A shared vision and road map for the Natural Infrastructure will be shared based on performance, incorporated at the national level and at the basin level.



The expanded financial base: New payers and financial investors will be involved, ensuring sufficient resources for the entire project cycle, from pre-investment to monitoring and evaluation.

PES
is a powerful **TOOL** for

Recover or protect ecosystems

Contribute to Human Development

Preserve water sources

**“we have the moral responsibility
to do it”**

**“If we want to go far, if we want to go
fast, we have to go together”**



Thanks



fmomiy@forest-trends.org

Forest-trends.org

Panelists

Lucia Ruiz

Vice Minister of Strategic
Development of Natural Resources
Ministry of Environment

Ivan Lucich

President of the Board
National Superintendent of
Sanitation Services (SUNASS)

Walter Obando

Chief
National Water Authority

Moderator:

Isabel Calle

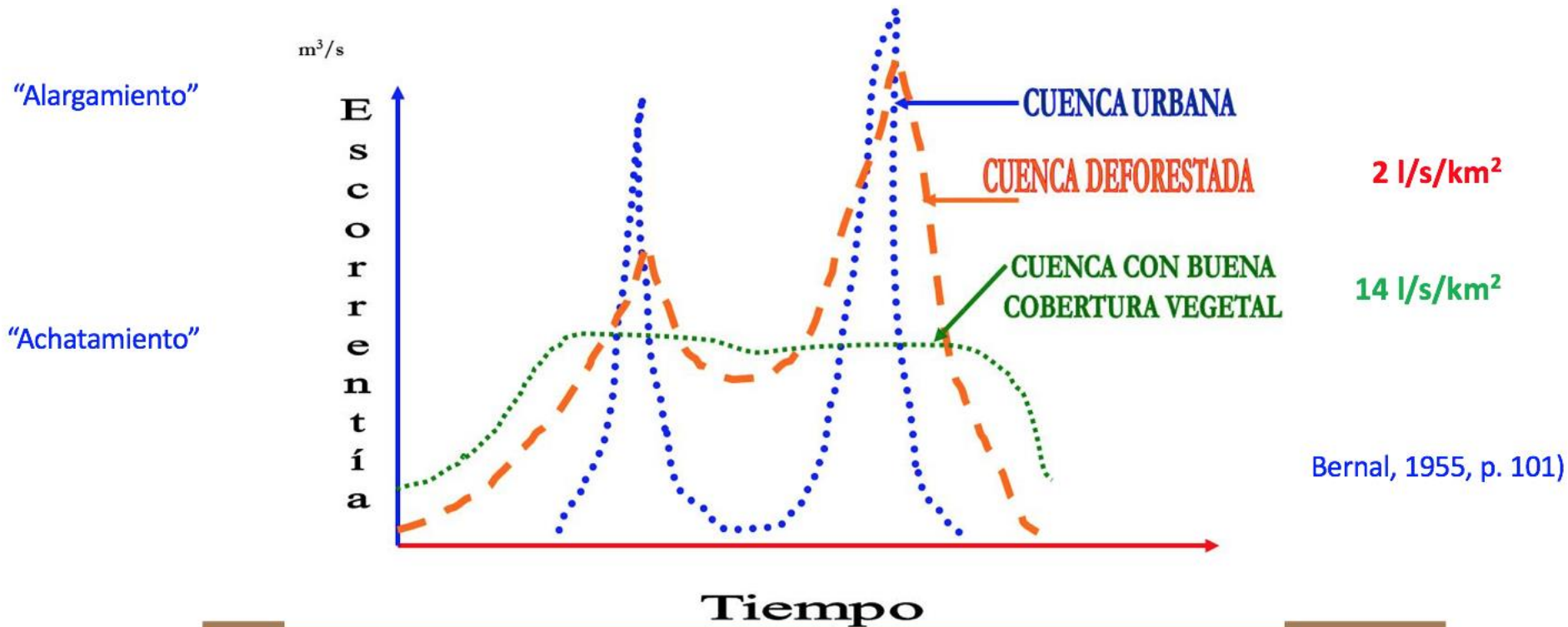
Peruvian Society of Environmental Law

**Natural Infrastructure
for Water Security**

Emblematic commitments of the National Water Authority

- Strengthen the watershed councils.
- Incorporate a representative of the domestic water users in the watershed councils.
- Incorporate natural infrastructure in the national water resources plan and the watershed management plans.
- Design proposals for integrated natural infrastructure interventions.
- Link the economic retribution for water to natural infrastructure
- Strengthen the national water resources information.

HIDROGRAMAS DE CUENCAS HIDROGRÁFICAS



Replanteamiento de balances hídricos con infraestructura gris y verde (natural)

**Natural Infrastructure
for Water Security**



Thanks!