



The water-energy-food nexus in Latin America and the Caribbean

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THE WATER- ENERGY-FOOD NEXUS IN LATIN AMERICA AND THE CARIBBEAN

Trade-offs, Strategic Priorities and Entry Points



Context

- Abundant natural resources
- Economic growth
- Intensive environmental impacts



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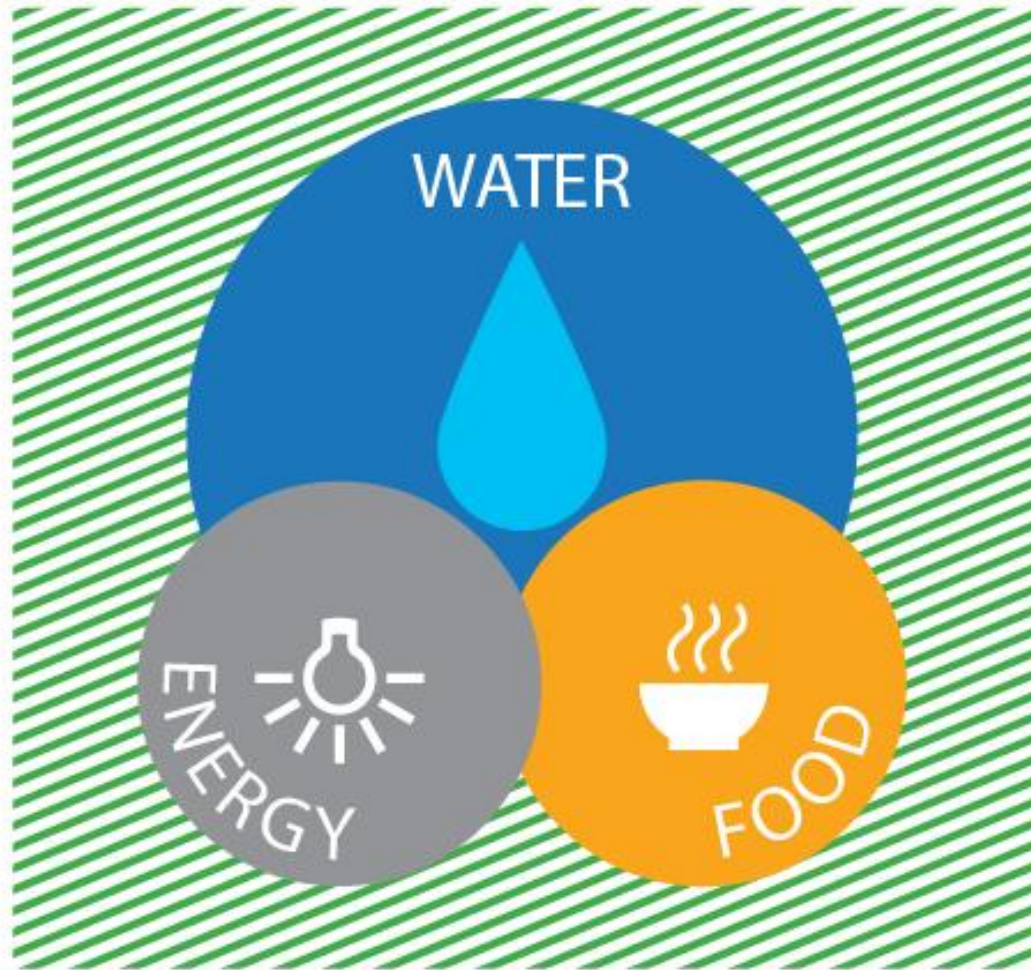
Future trends

- Urbanisation
- Climate change



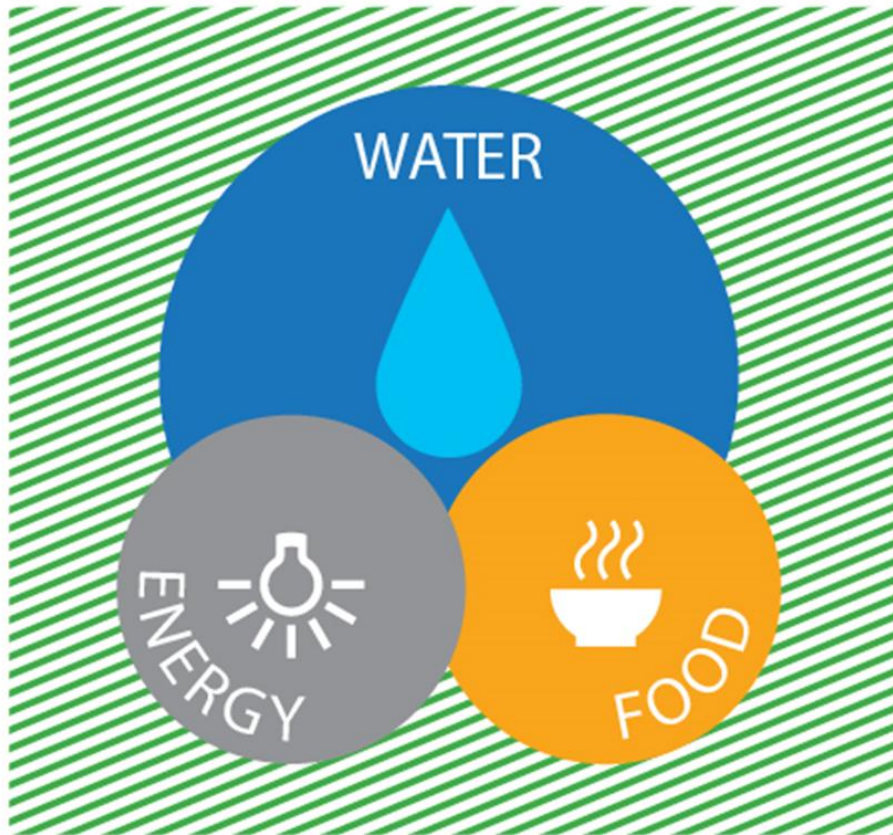
Interdependencies

ECOSYSTEMS



Key Trade-offs: Water and Energy

ECOSYSTEMS

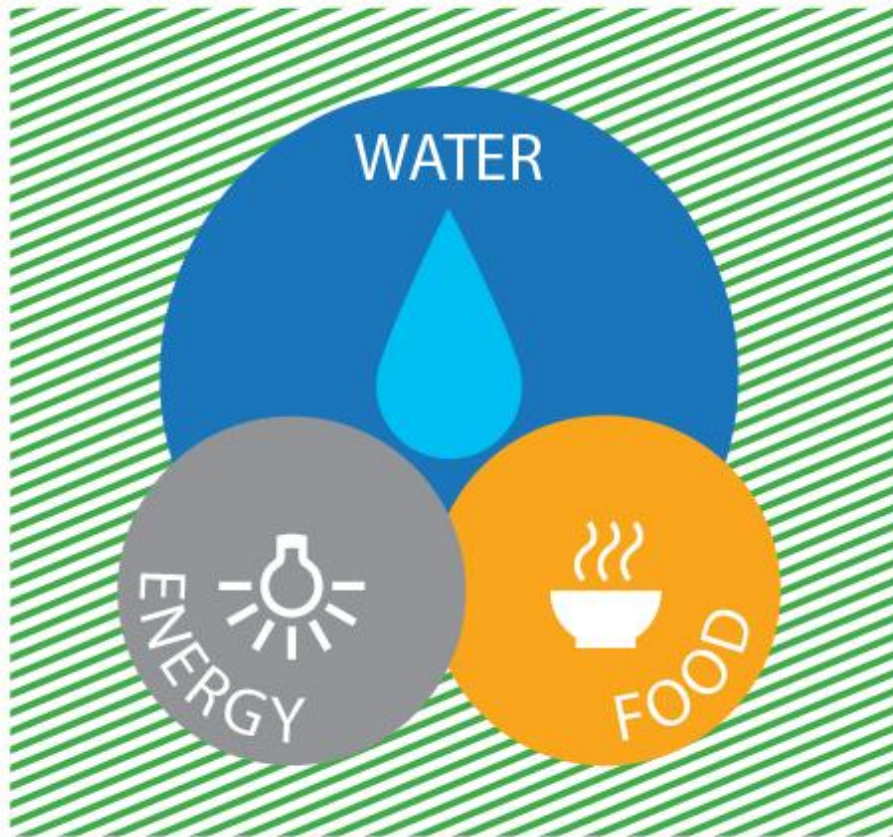


Hydropower and energy generation

Water-energy systems i.e. irrigation

Key Trade-offs: Water and Food

ECOSYSTEMS



Hydropower and energy generation

Water-energy systems efficiency

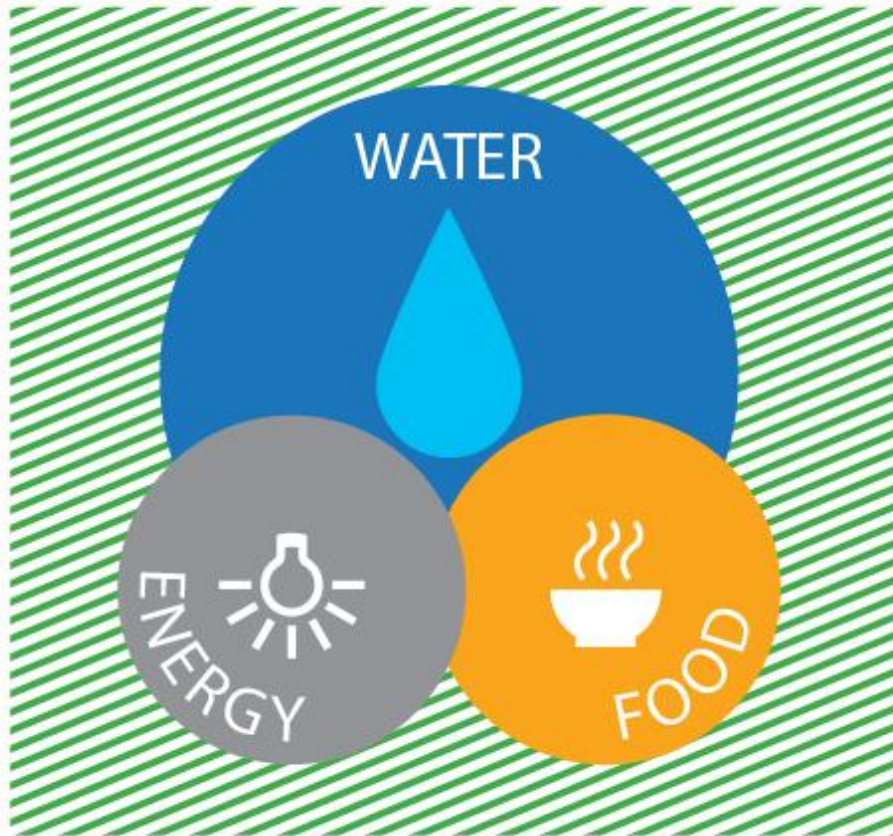
Agricultural production

~70% water withdrawals

Main driver of deforestation

Key Trade-offs: Food and Energy

ECOSYSTEMS



Hydropower and energy generation

Water-energy systems efficiency

Agricultural production
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Main driver of deforestation

Biofuel production

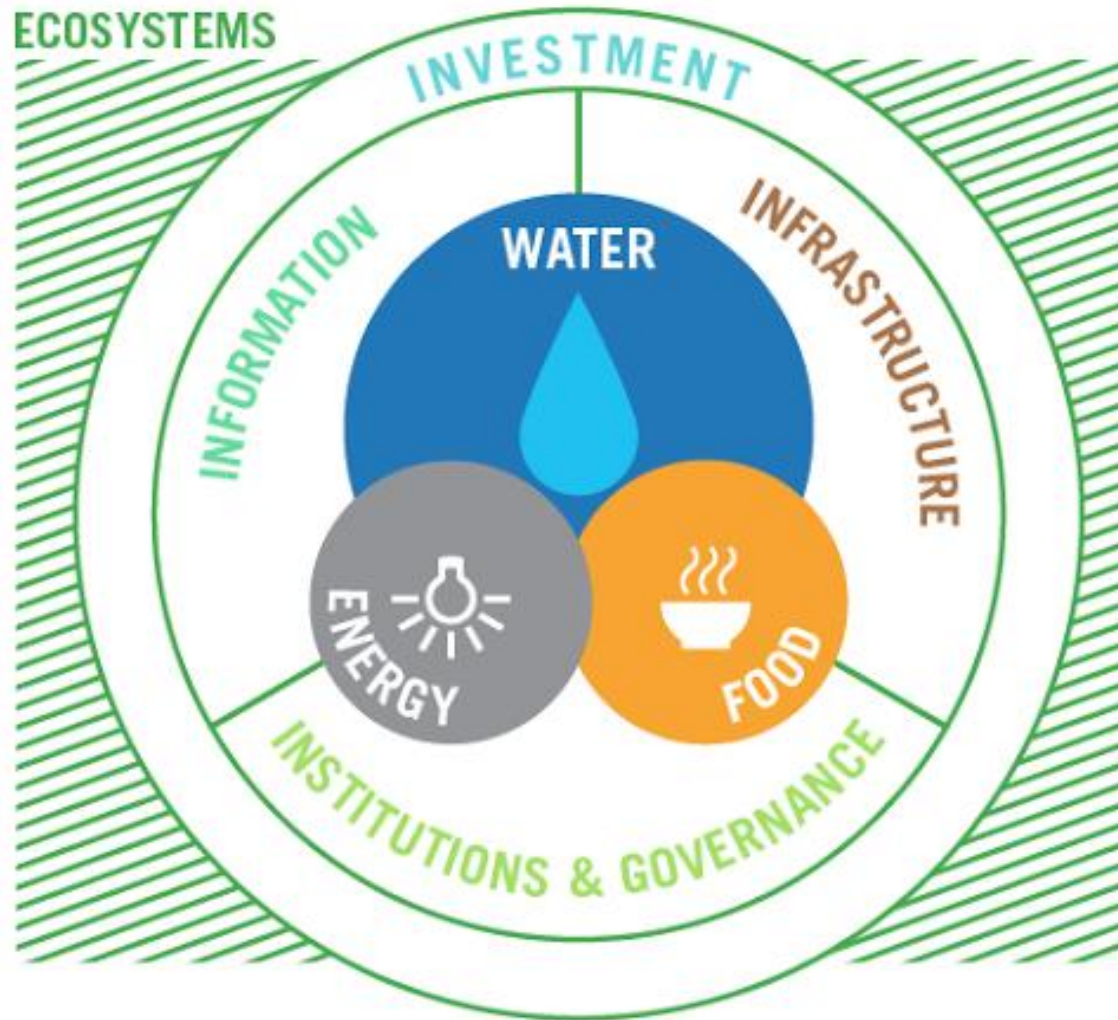
Case Study: Water conflicts in Brazil

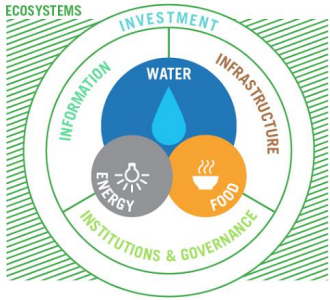


Case Study: Climate Change Adaptation Plan in Huila Department, Colombia



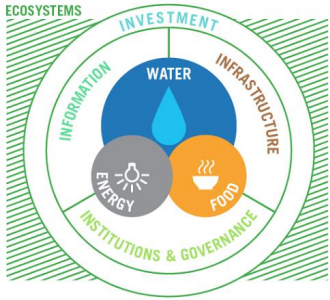
A Framework for Action





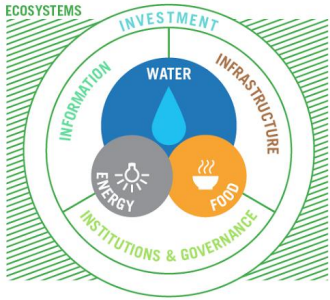
Infrastructure

- LAC region has big plans for large infrastructure projects
- How support WEF?
 - Multi-purpose projects
 - Natural infrastructure
 - Integrate climate risks
 - Coherent planning at scale



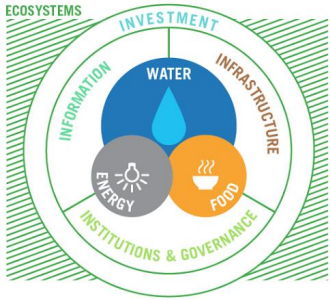
Institutions & Governance

- Integrated Water Resources Management
- Implementation gap
- Water governance fragmentation
- Admin gap – different scales of governance



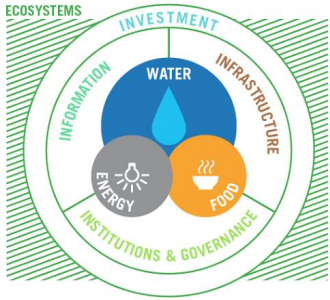
Information

- Improve monitoring systems
- Quantify trade-offs
- Decision-support tools
- Private sector accounting & disclosure initiatives



Investment

- What economic tools can promote nexus-friendly investment?
 - PES/water funds
 - Green commodities
 - Tariffs and fees
 - PPPs



Entry Points

- Urban planning
- Climate change adaptation
- New infrastructure projects
- Corporate stewardship commitments
- Ambitious international commitments
- PES/water funds
- Integrated Water Resources Management

Thank you!

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Download the report at:

<http://www.globalcanopy.org/materials/water-energy-food-nexus-latin-america-and-caribbean>