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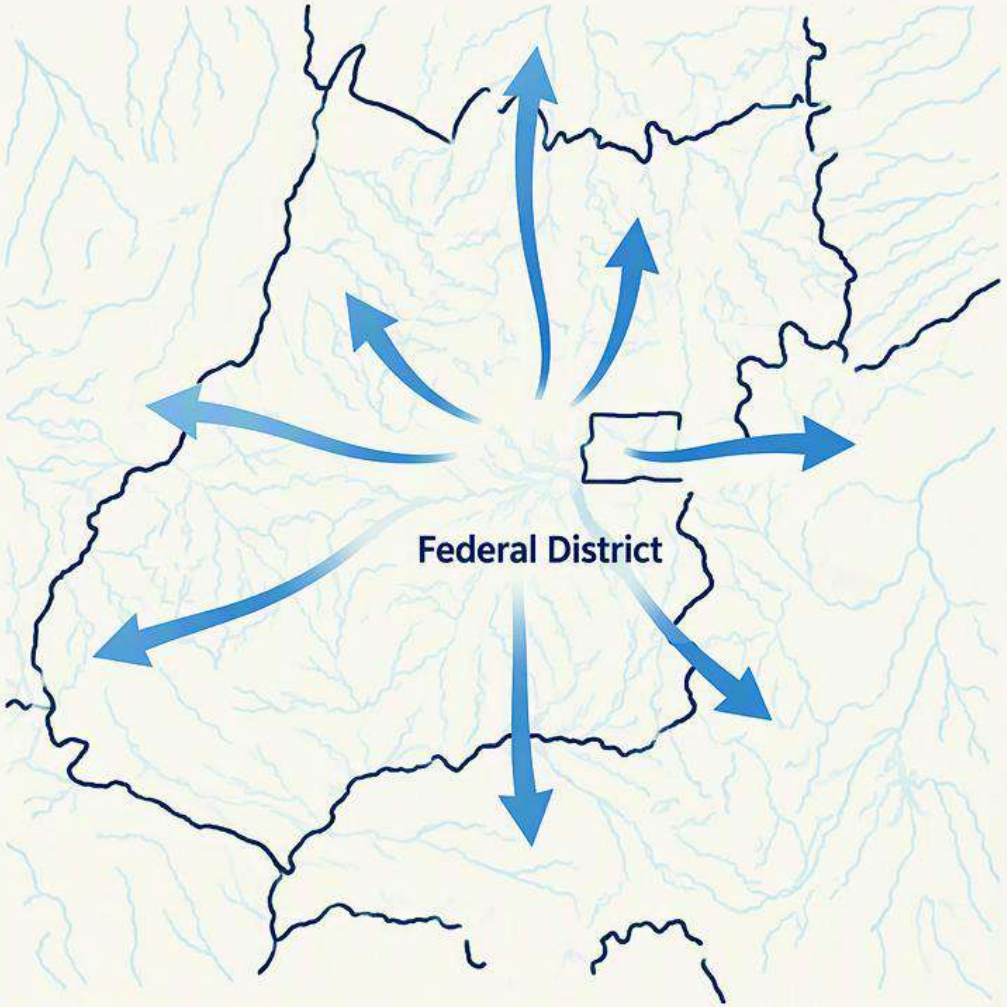
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From Wastewater to Resource: Brasília's Journey Towards Safe and Sustainable Water Reuse

Integrating Alternative Water Sources into the Water Mix for Long-Term Water Security

Executive Note: This presentation demonstrates how regulatory coordination transformed a water management challenge into an international model of water security and resilience.

Headwaters Context: The Governance Imperative



Source: Adapted from ADASA. Hydrographic basins of the DF.

Headwater Region (Central Plateau)

The Federal District lies on the divide of major Brazilian river basins. Water originates here rather than arriving from upstream watersheds.

Natural Water Scarcity

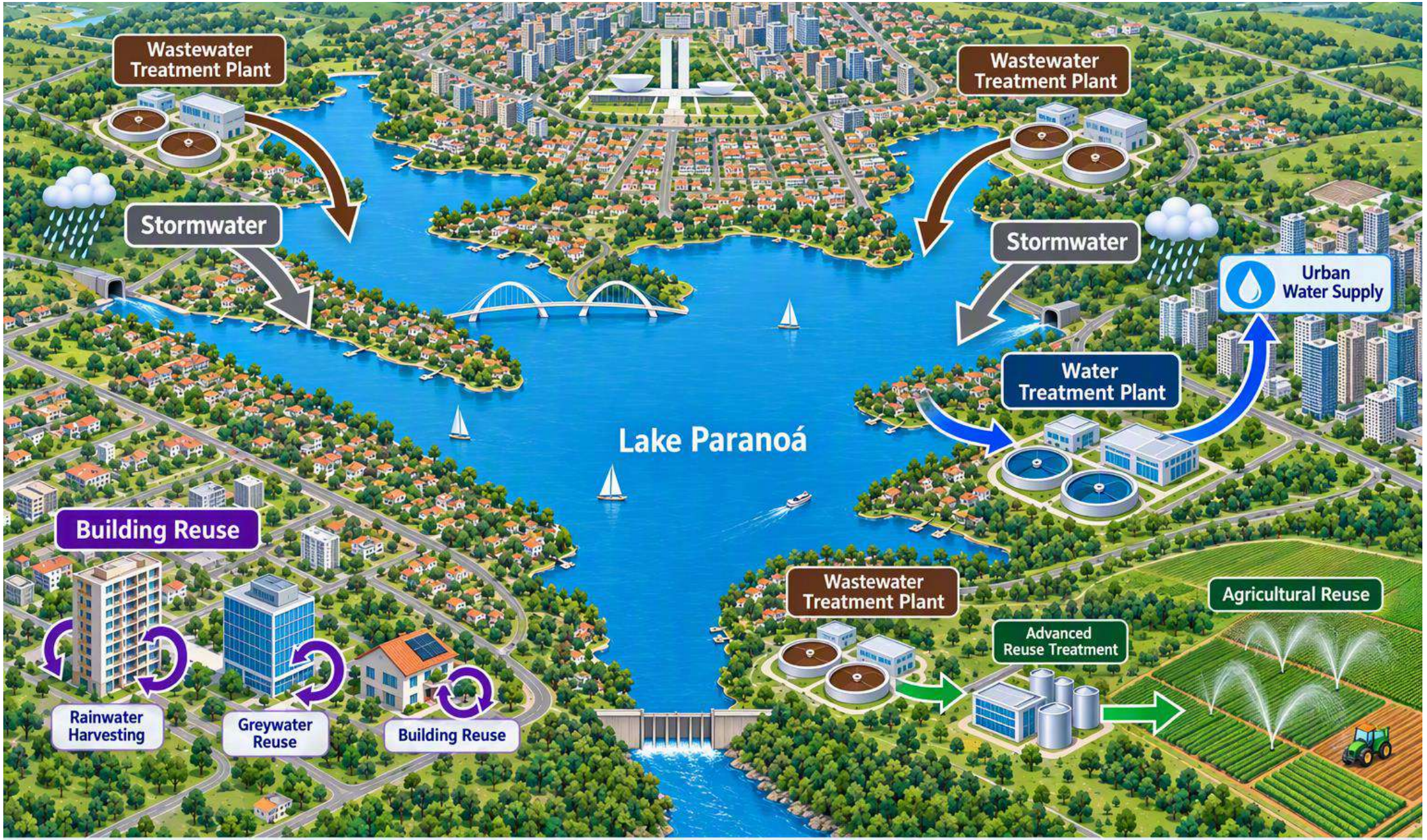
Lower water availability per capita than major Brazilian metropolitan regions.

The Governance Imperative

Dependence on local water sources requires strong governance and effective regulation. Integrated Water Resources Management (IWRM) is essential for long-term water security.

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Regulatory Innovation: From Buildings to Agriculture

2019: Pioneering Initiative

Regulation established the framework for non-potable water reuse in residential buildings.

2022: Expansion

Broadened application to commercial buildings and modernization of technical requirements.

Present / Future

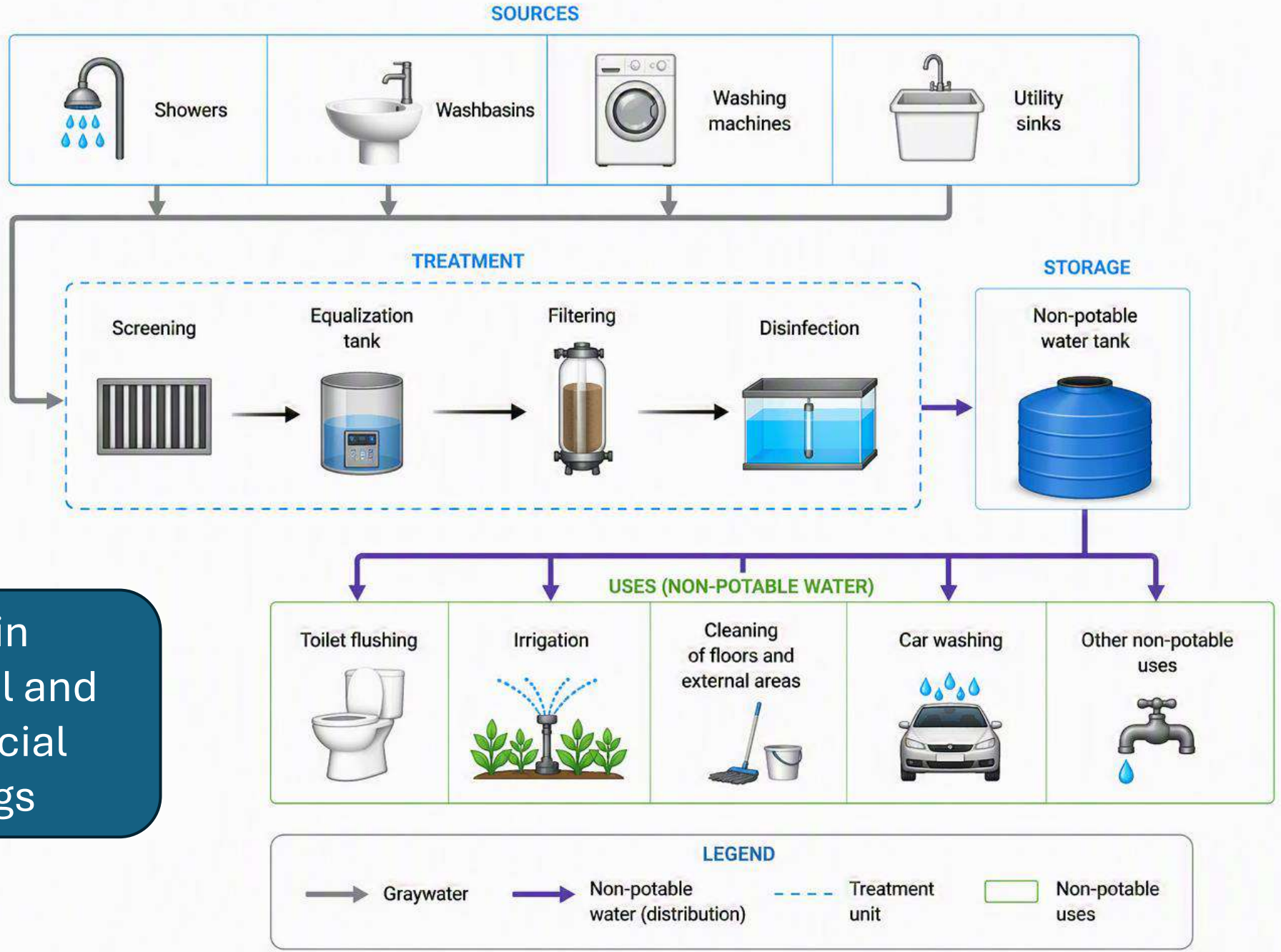
Diverse portfolio of solutions including buildings, public spaces, urban agriculture and future irrigation opportunities.

A diversified portfolio of reuse solutions creates a favorable environment for innovation, investment and water resilience.

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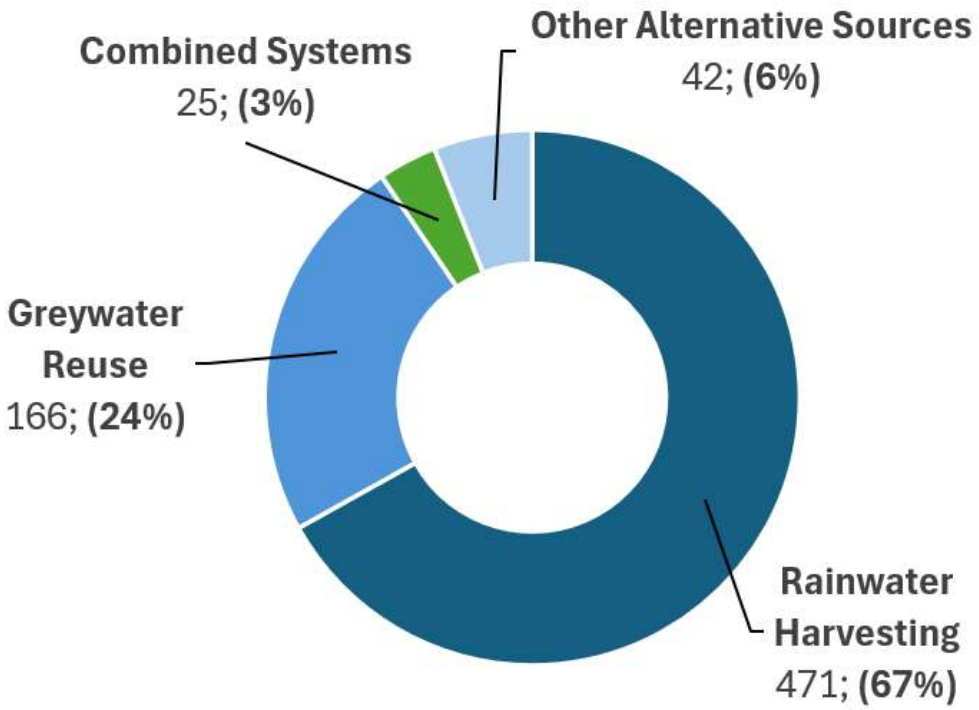
Reuse in Residential and Commercial Buildings



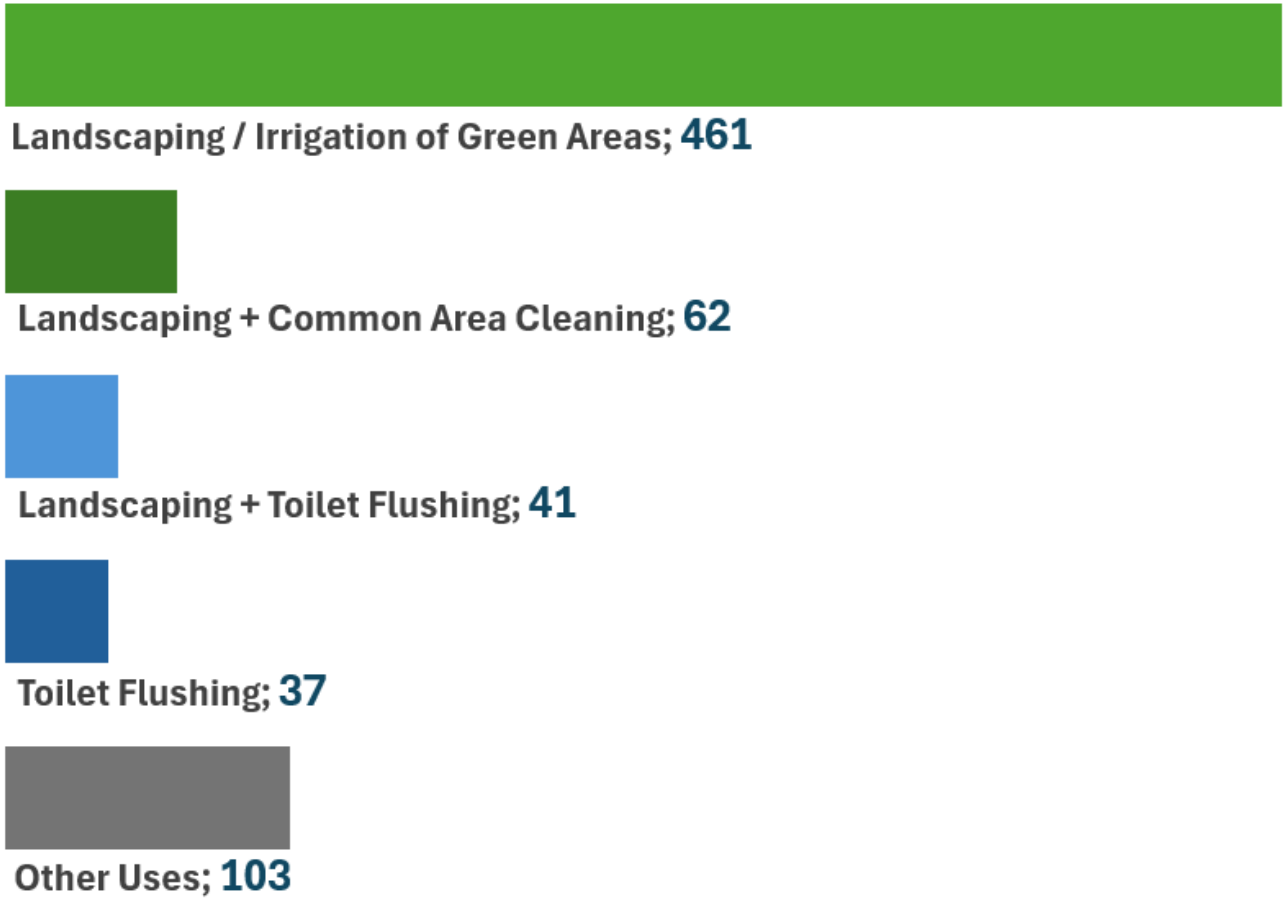
Alternative Water Sources Adoption in the Federal District (2013–2025)

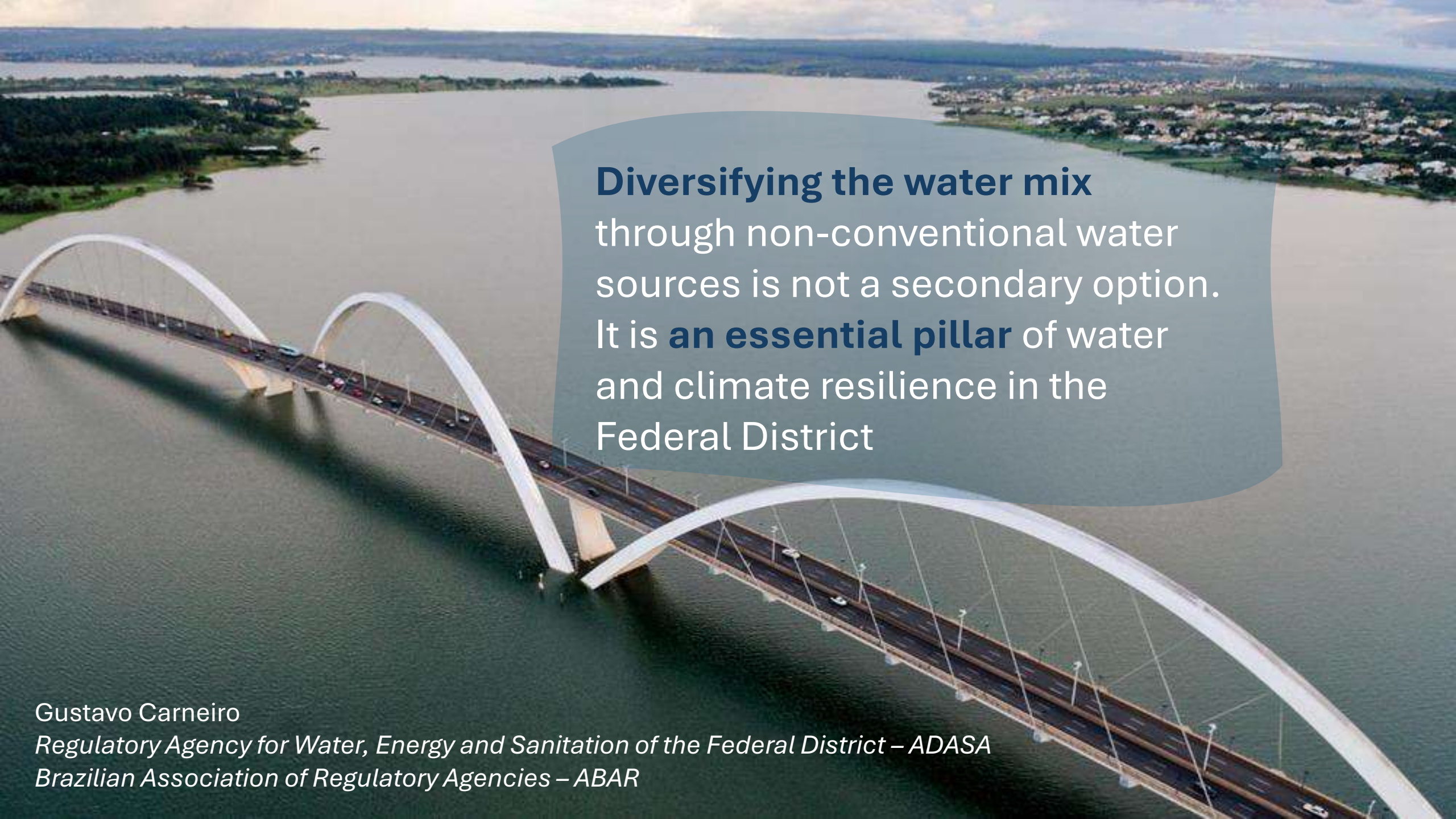
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Registered Non-potable Systems



Intended Uses





Diversifying the water mix through non-conventional water sources is not a secondary option. It is **an essential pillar** of water and climate resilience in the Federal District

Gustavo Carneiro
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Brazilian Association of Regulatory Agencies – ABAR