22nd International RIVER SYMPOSIUM

EXCELLENCE – COLLABORATION – INTEGRATION

20–24 OCT 2019, BRISBANE, AUSTRALIA

RESILIENT RIVERS

MANAGED BY

INTERNATIONAL RiverFoundation

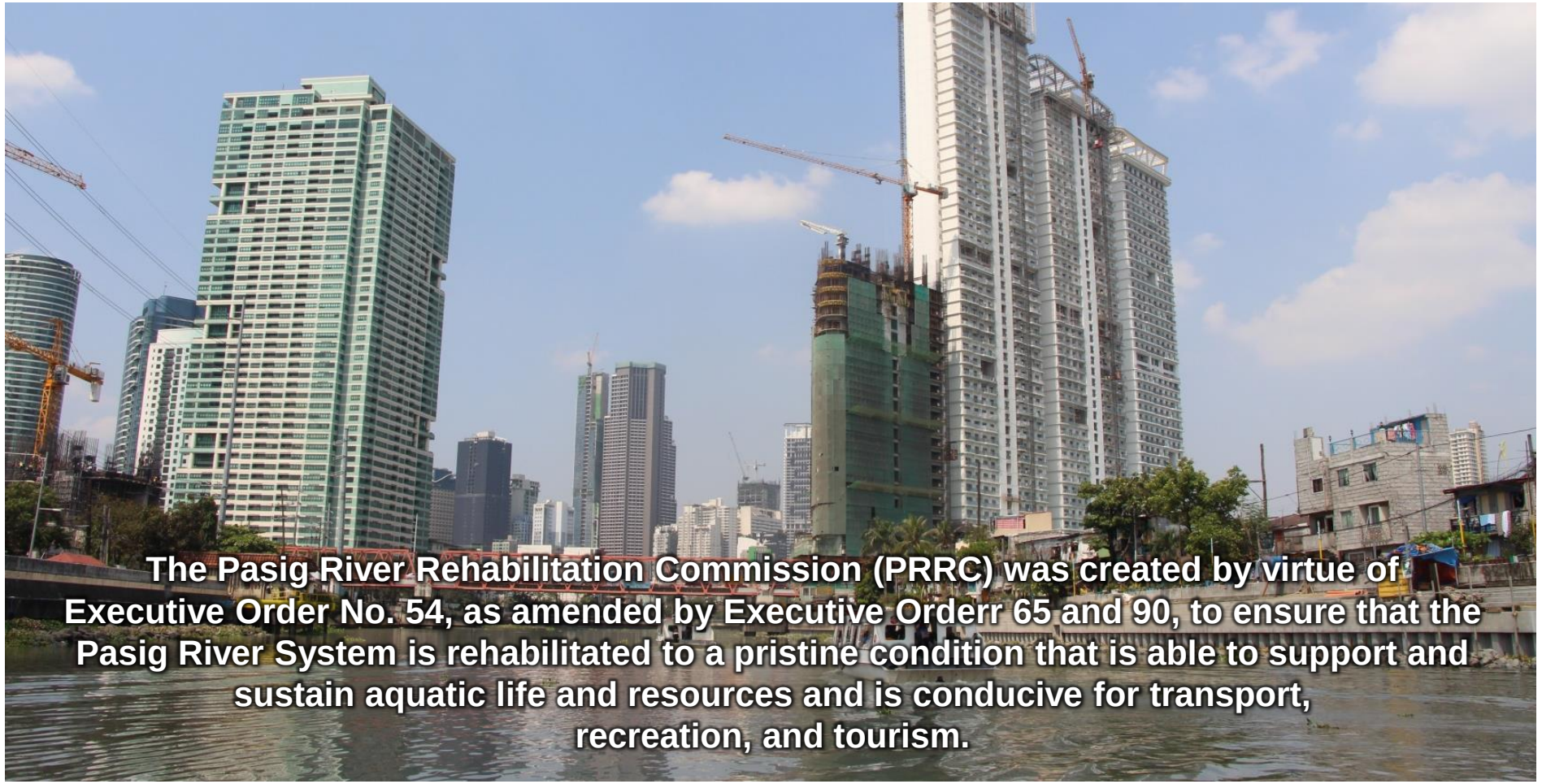
22nd International RIVER SYMPOSIUM
EXCELLENCE – COLLABORATION – INTEGRATION

INTERNATIONAL RiverFoundation

Low Impact Development Strategies on Riverbanks for Climate Change Resiliency

Case of the Pasig River Integrated and Strategic Master plan (PRISM)

The Pasig River Rehabilitation Commission



20 1999 - 2019 YEARS

PASIG RIVER REHABILITATION COMMISSION 1999

puso para sa ILOG PASIG

(Love for the Pasig River)

Brisbane, Australia | 20-24 October 2019

Insert your logo

The Pasig River, Philippines

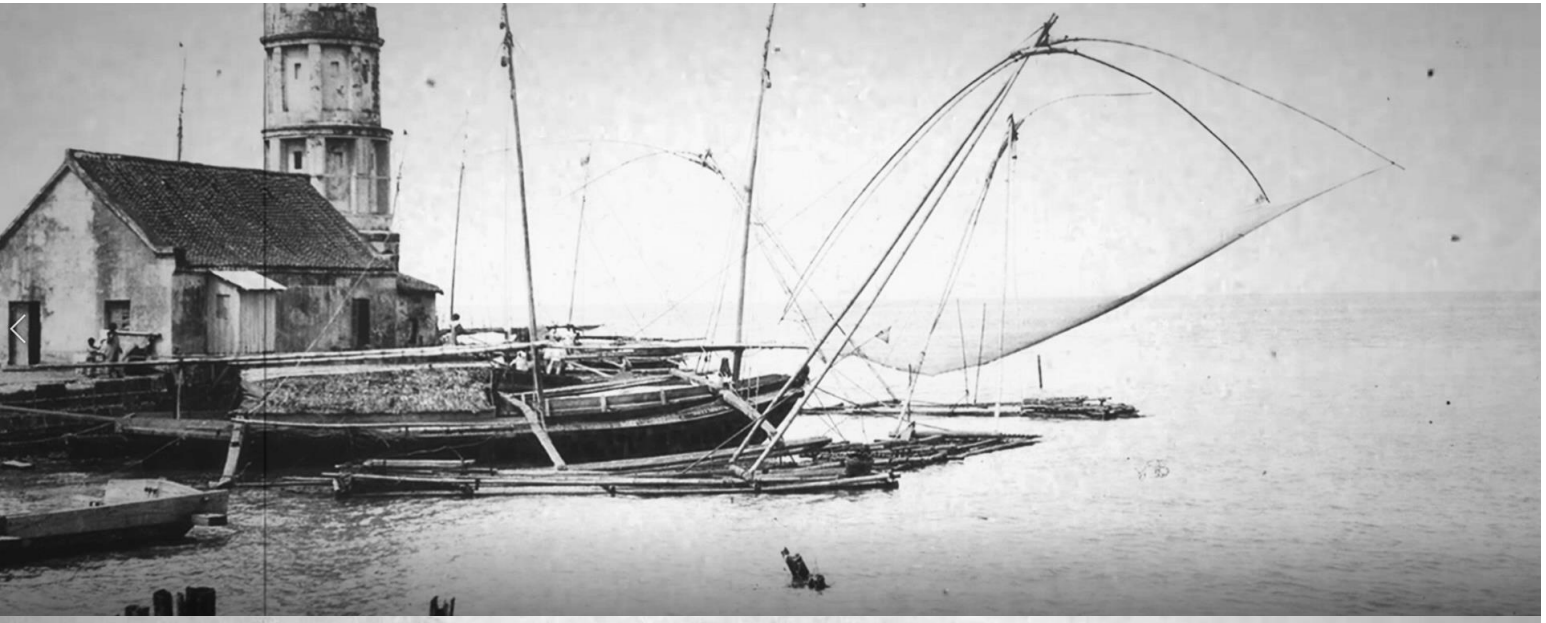
The 27-kilometer Pasig River System has a total watershed of 663 square kilometers and 47 identified major and minor tributaries across 23 cities and municipalities in Metro Manila and nearby provinces.

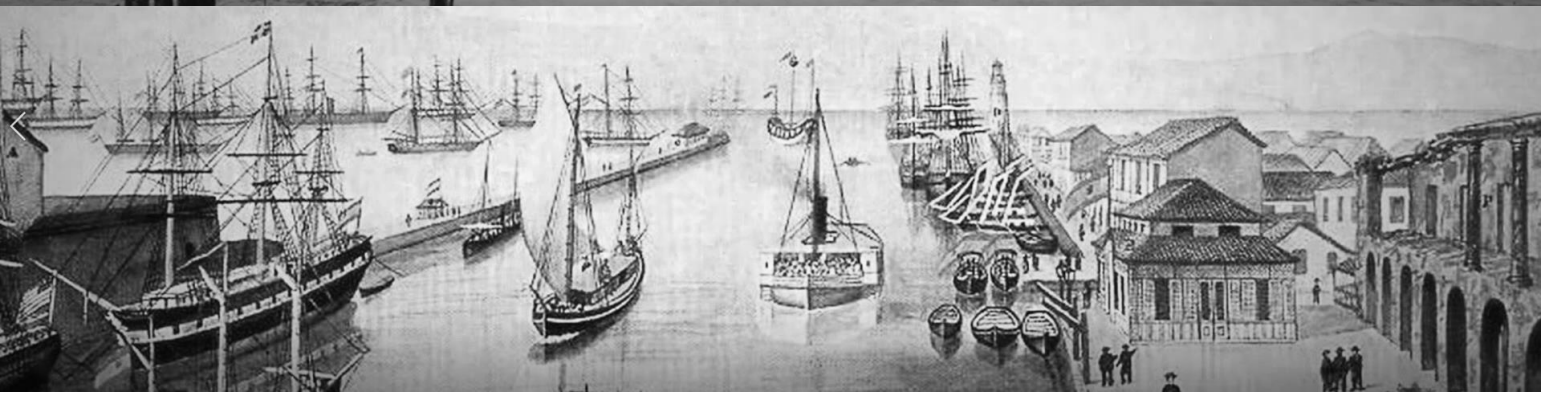
Insert your logo

It serves as the only connecting channel to two equally important large bodies of water: the Manila Bay in the west and the Laguna Lake in the east.

Insert your logo

The Pasig River, Philippines





It has been the main artery for transport, trade, and cultural exchange since the pre- and post-colonial eras and have figured prominently in Philippine history up to the present and modern times.

Insert your logo

22nd International RIVER SYMPOSIUM
EXCELLENCE – COLLABORATION – INTEGRATION

INTERNATIONAL RiverFoundation

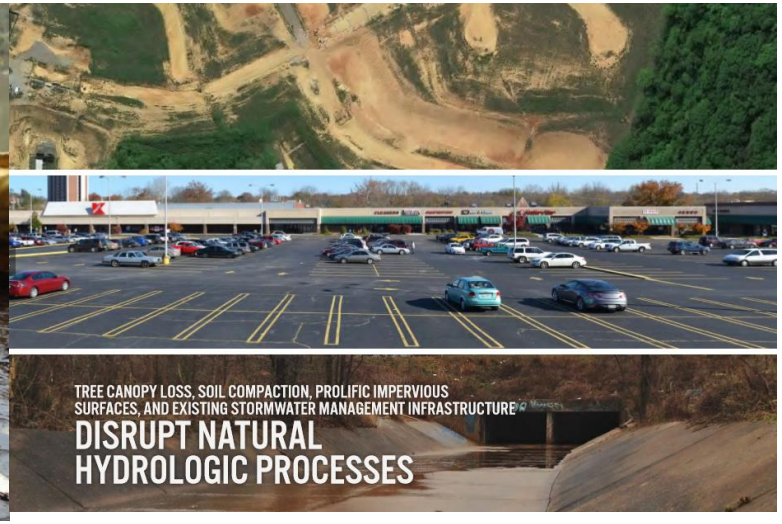
The Pasig River is home to a population of 12 million which accounts to almost 40% of the country's gross domestic product.

Brisbane, Australia | 20-24 October 2019

Insert your logo

Insert your logo

Low Impact Development

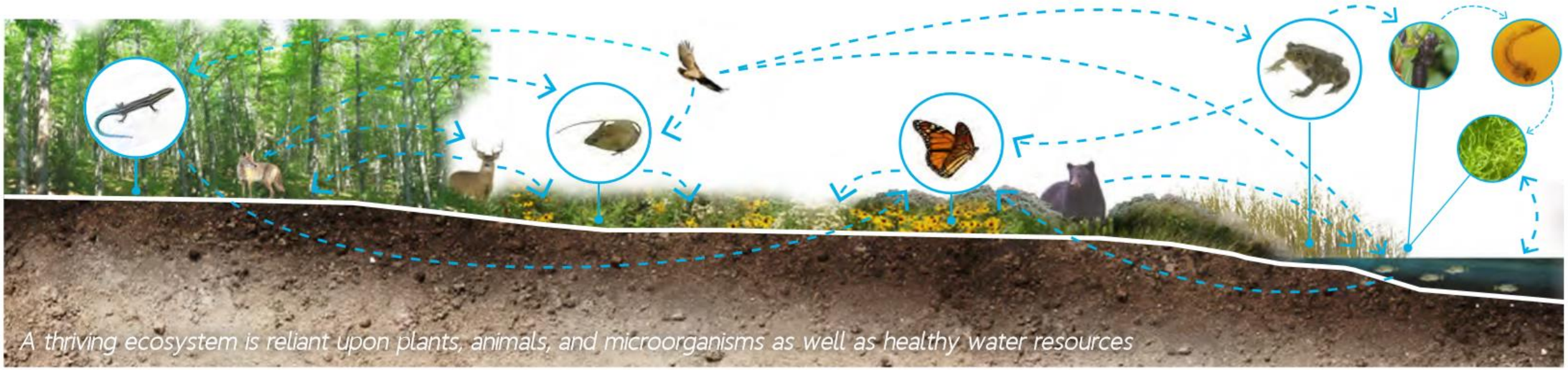


- Low-impact development (LID) is a term used to describe a land planning and engineering design approach to manage stormwater runoff as part of green infrastructure.

Insert your logo

Low Impact Development

- LID emphasizes conservation and use of on-site natural features to protect water quality.



Insert your logo

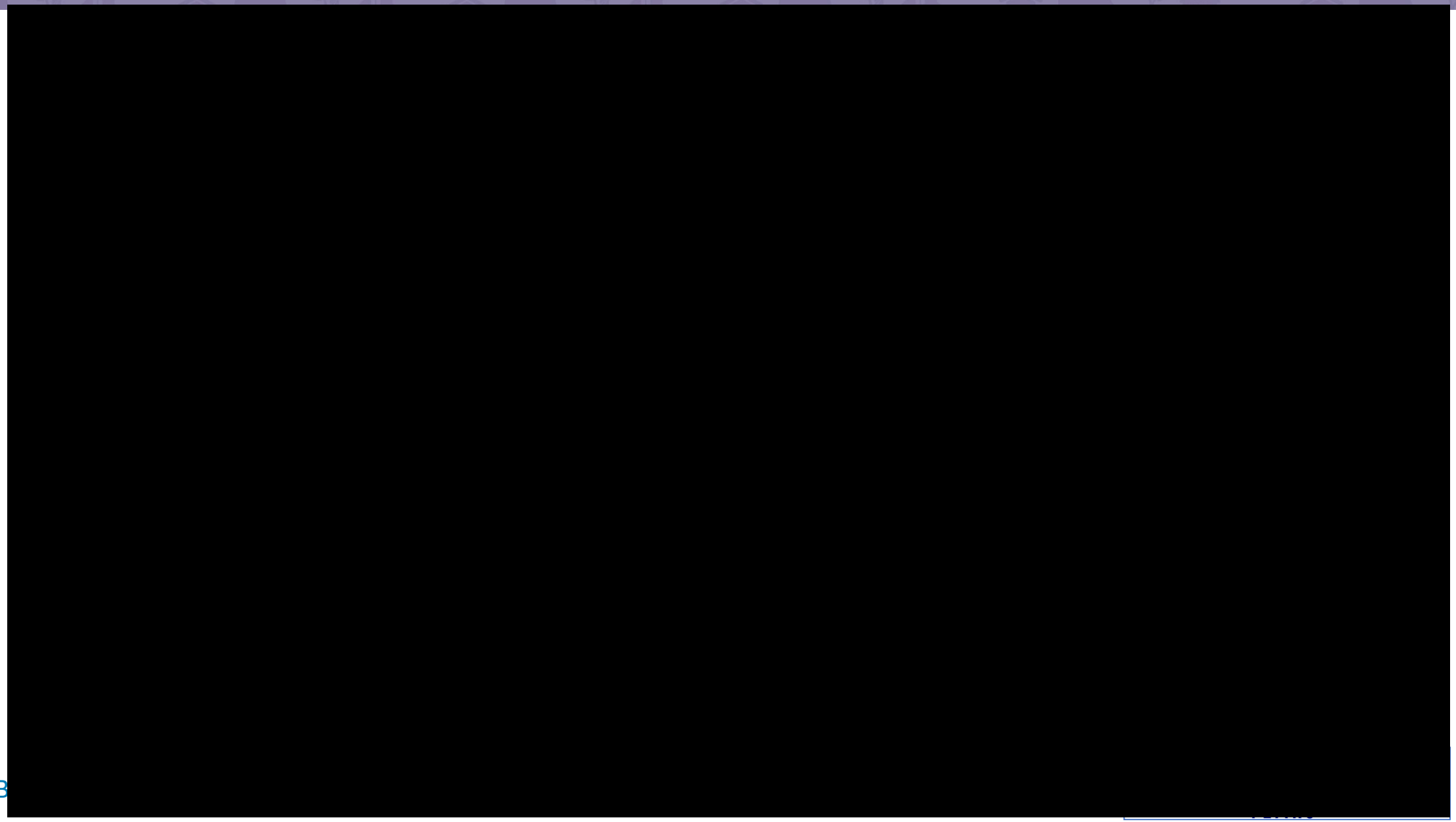
Low Impact Development

- This approach implements engineered small-scale hydrologic controls to replicate the pre-development hydrologic regime of watersheds through infiltrating, filtering, storing, evaporating, and detaining runoff close to its source.

Insert your logo

The Pasig River Integrated and Strategic Master plan

Insert your logo



The Pasig River Integrated and Strategic Master plan

- The PRISM is a fifteen- year comprehensive and holistic rehabilitation plan to improve the current state of the Pasig River making it a conducive habitat for aquatic resources and a viable means of transport, recreation, and tourism.

Insert your logo

The Pasig River Integrated and Strategic Master plan

- The stakeholders identified the benefits and/or uses, as well as issues of the Pasig River, which resulted to the identification of elements relative to the functionality of the river namely:

(1) **land uses and landscapes**,

(2) **riparian buffers and easements**,

(3) **streamflow conditions**, and

(4) **water quality**. In addition, the new vision for the Pasig River in the next fifteen years has been set.

Insert your logo

The Pasig River Integrated and Strategic Master plan

"By 2032, Pasig River and its surrounding basins are resilient life-sustaining ecosystems able to support diverse human needs and biodiversity toward inclusive, harmonized, and balanced development co-managed by competent and adaptive institutions with responsible and empowered communities."

Insert your logo

Low Impact Development

- LID Key Concepts Applied in PRISM: 1. The PRISM exemplifies the preservation and/or conservation of the natural state of the riparian zone and catchment of the Pasig River system.

Insert your logo

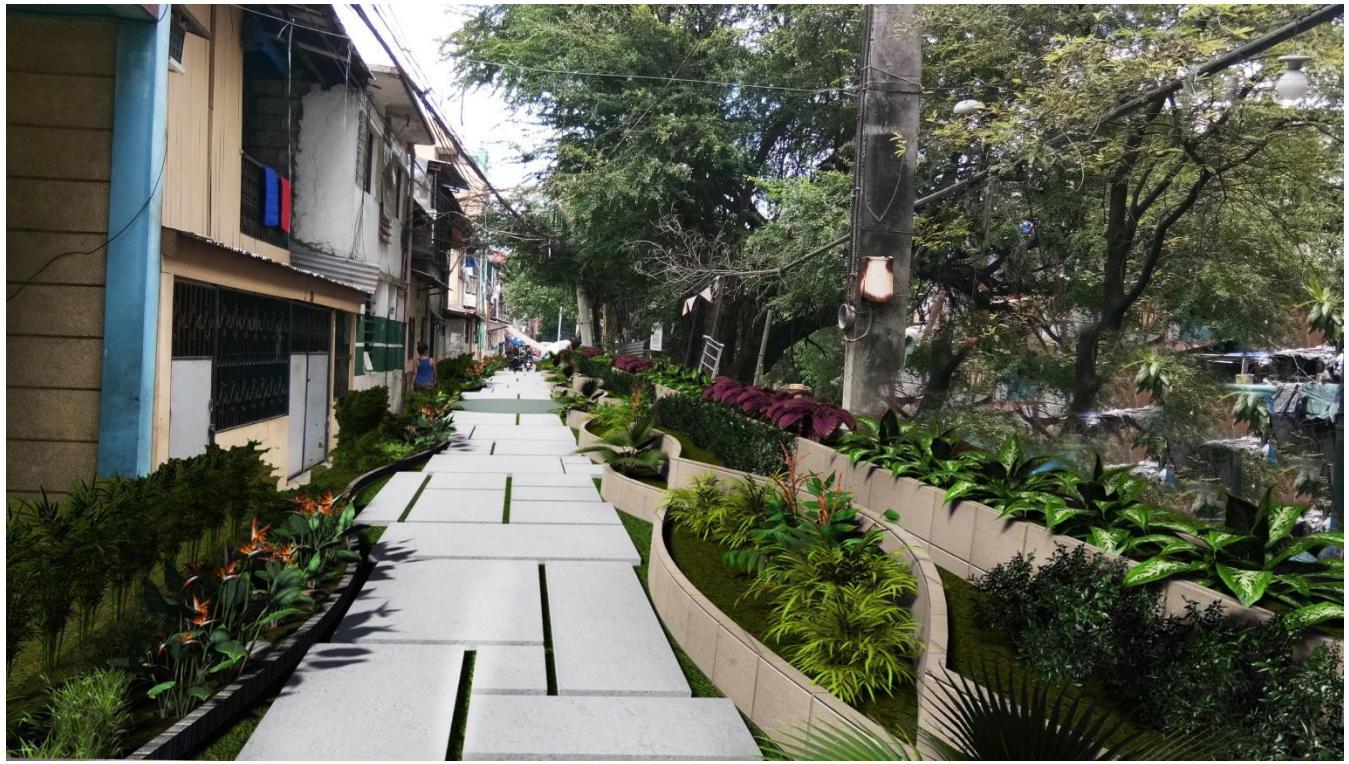
Low Impact Development

- LID Key Concepts Applied in PRISM: 2. It highlights alternative site design strategy that uses natural and engineered infiltration and storage techniques to control storm water where it is generated.

Insert your logo

Low Impact Development

- LID Key Concepts Applied in PRISM: 3. These infrastructures provide temporary retention areas; increase infiltration; allow for nutrient (pollutant) removal; and control the release of storm water into adjacent waterways.



Insert your logo

Low Impact Development

- LID Key Concepts Applied in PRISM: 4. It has also cross cutting impacts. These functional open green spaces provide area for socio-cultural activities and at the same time serve as carbon sink to lessen greenhouse gas emissions.

Insert your logo

Low Impact Development

- LID Key Concepts Applied in PRISM: 5. In highly urbanized cities where the Pasig River cuts across, development is designed to produce minimal impacts to the aquatic environment and consider the social and economic dimensions of the communities living along and beyond the waterways.

Insert your logo