

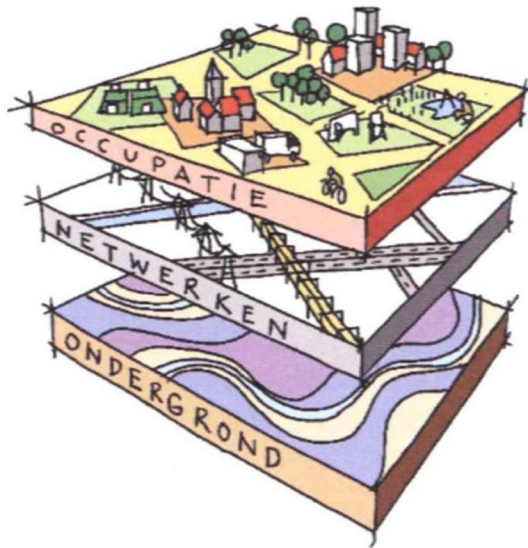


STATE OF THE COAST 2025

Knowledge Sharing & Knowledge Building

**WAGGONNER
& BALL**
A MOFFATT & NICHOL STUDIO

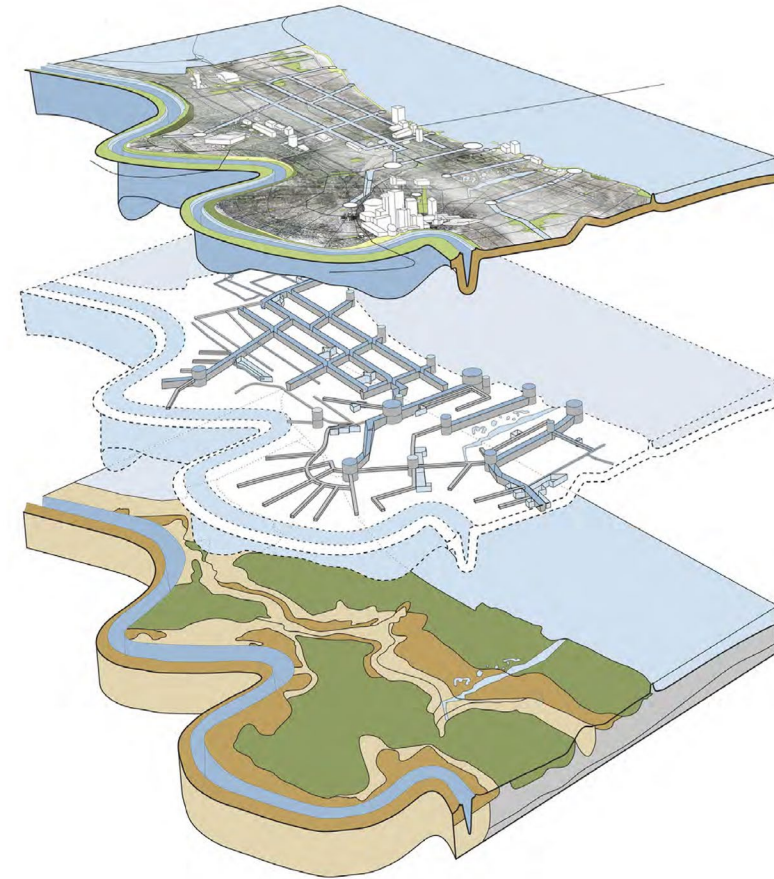
Shared Approach



Occupation
Landuse

Networks
Infrastructure

Foundation
Soils, watersystem
biodiversity



**Inhabitation
Land Cover**

**Infrastructure
Networks**

**Soils
Water
Biodiversity**

Dutch Dialogues® New Orleans

Greater New Orleans Urban Water Plan

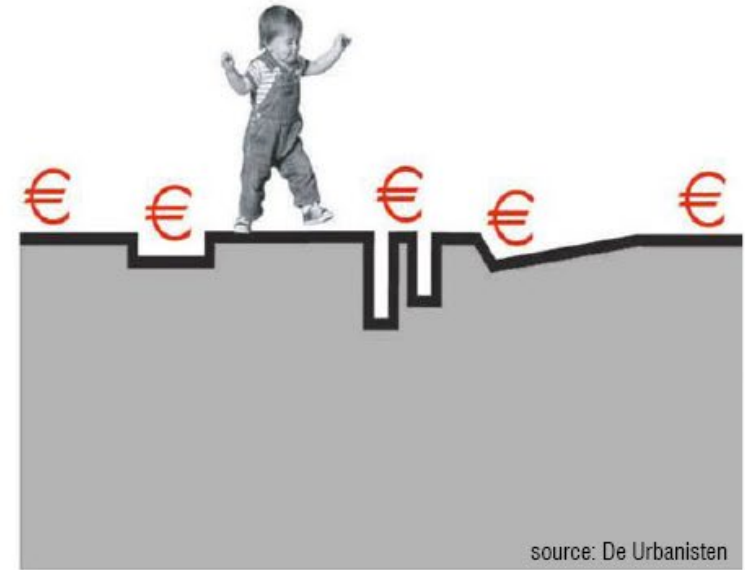
Dutch
Dialogues

 Ministerie van het Koninkrijk der Nederlanden

 American Planning Association

Waggonner & Ball Architects

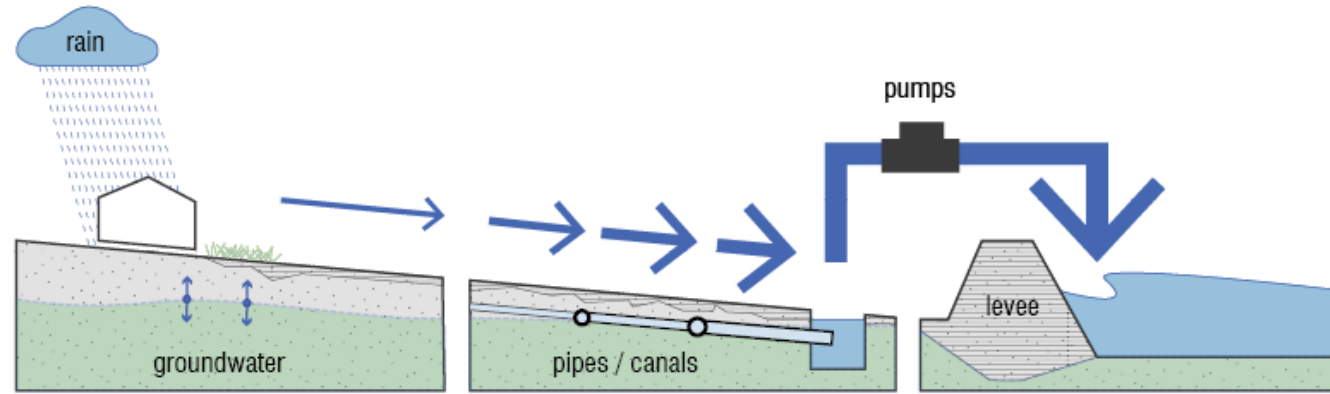
Paradigm Shift



source: De Urbanisten



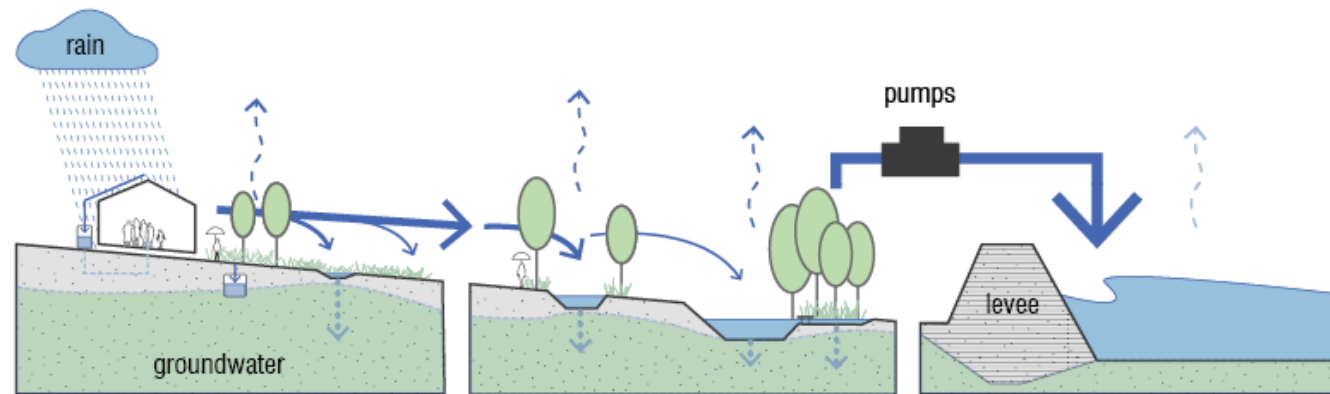
Paradigm Shift



PIPE

PUMP

DRAIN

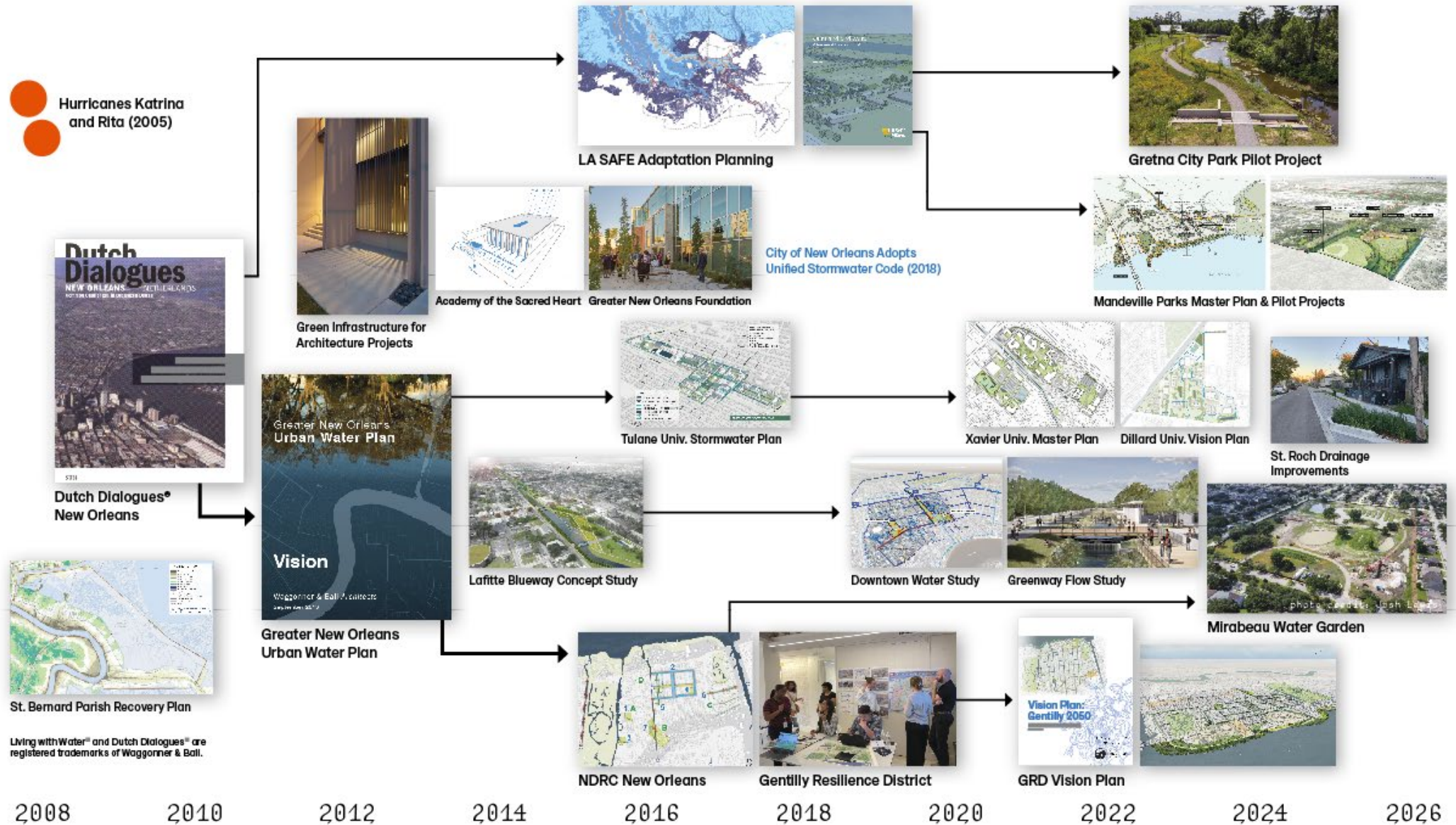


SLOW

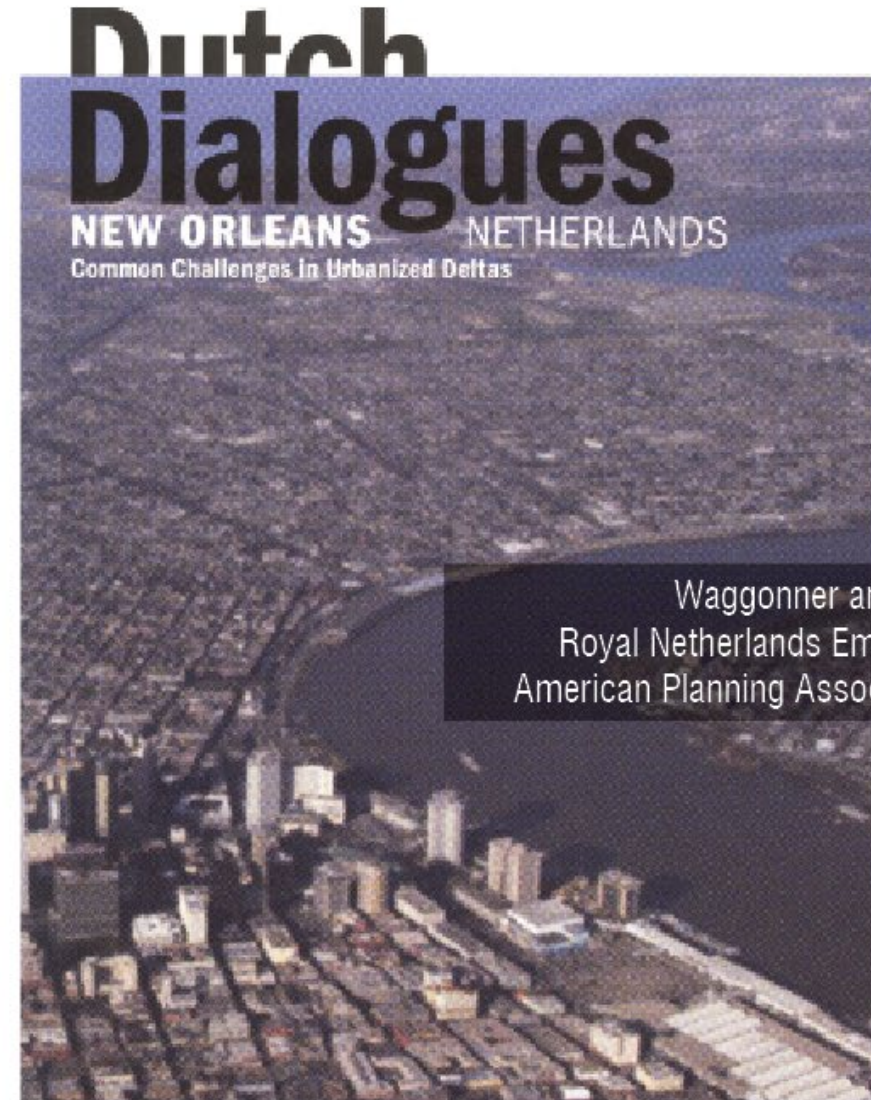
STORE

DRAIN
(when necessary)

Paradigm to Projects

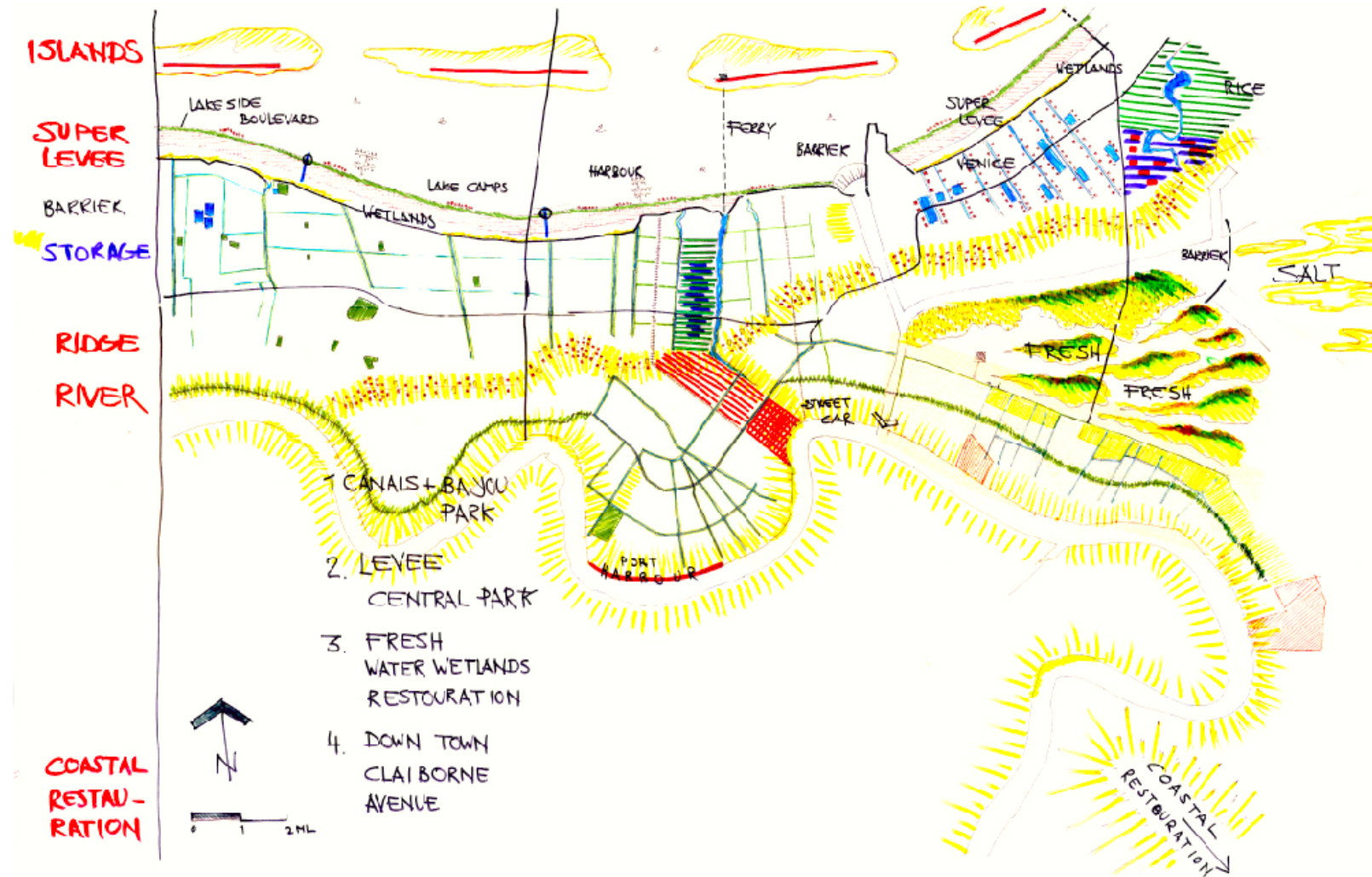


Dutch Dialogues® New Orleans (2010)

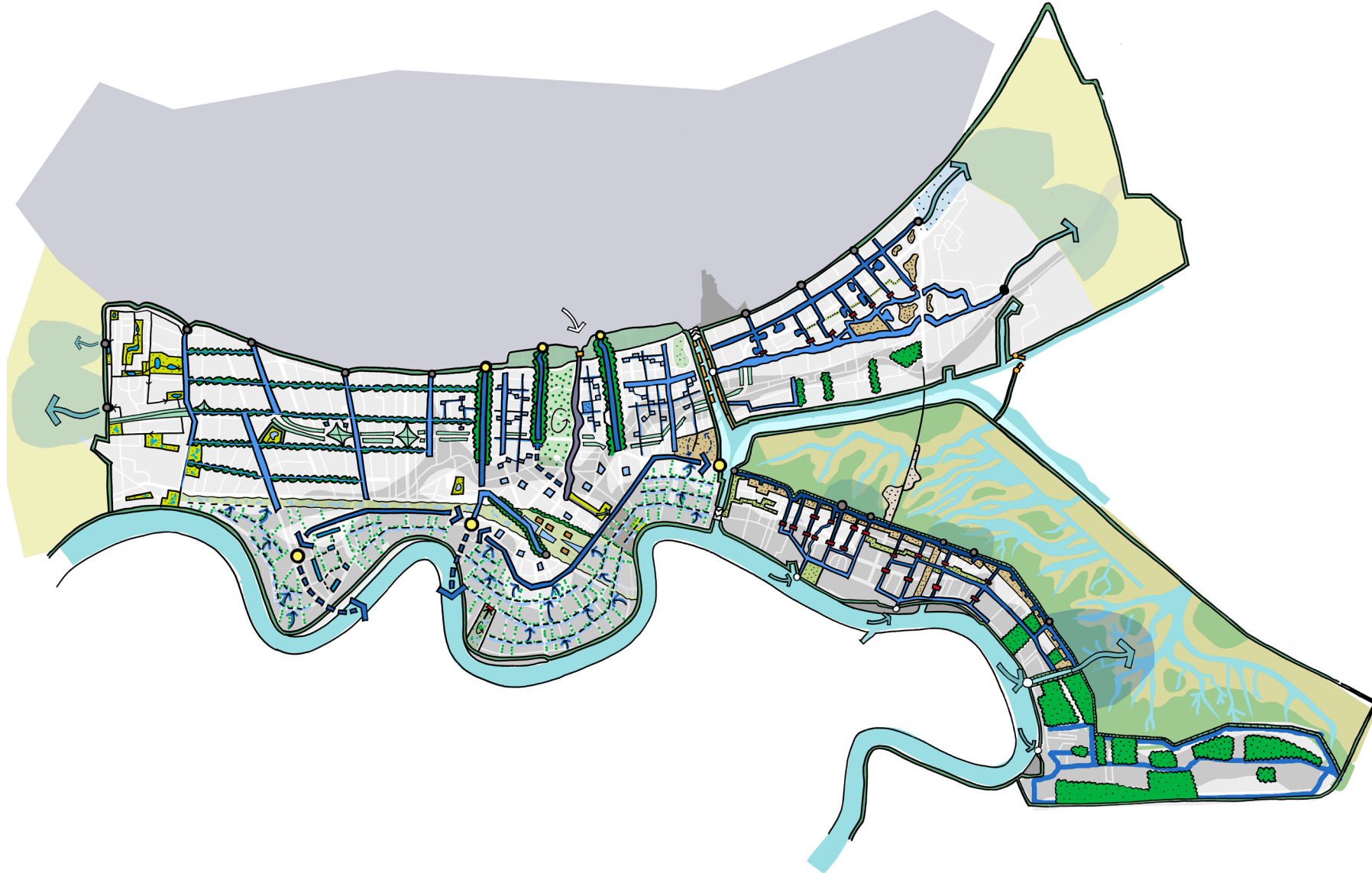


source: "The Commonwealth Approach" via "Dam[ned] Landscapes"

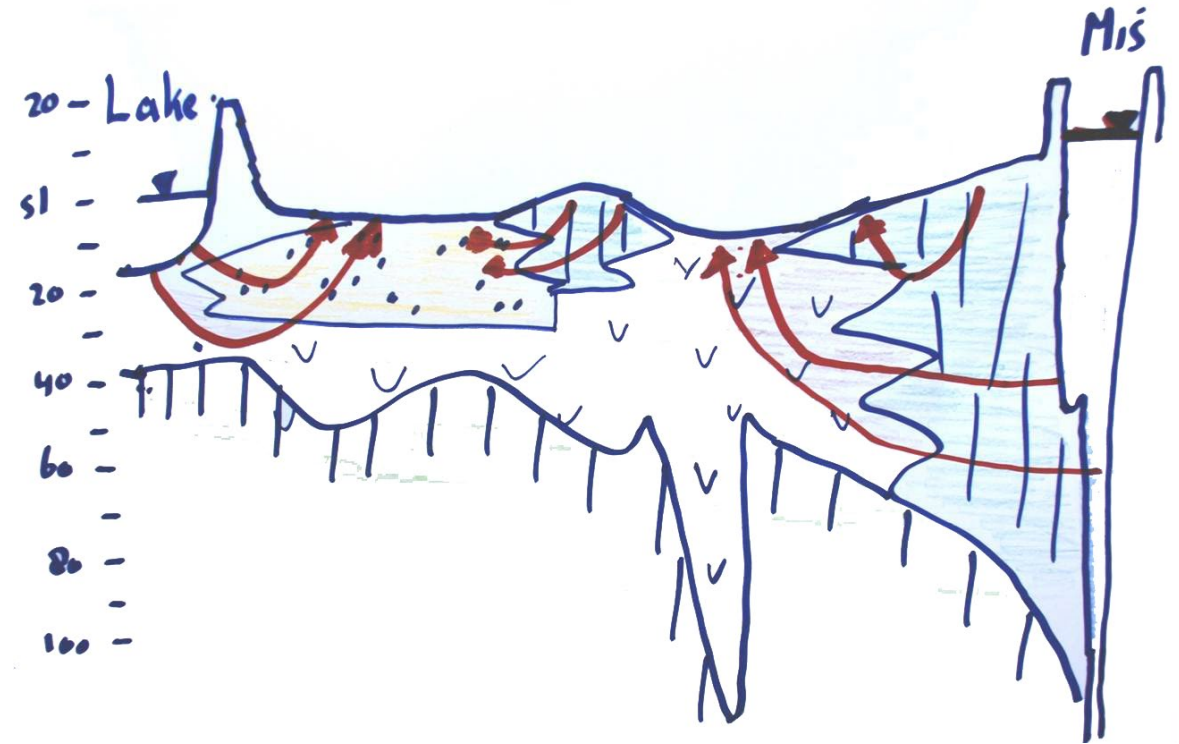
Dutch Dialogues® New Orleans (2010)



Greater New Orleans Urban Water Plan (2013)



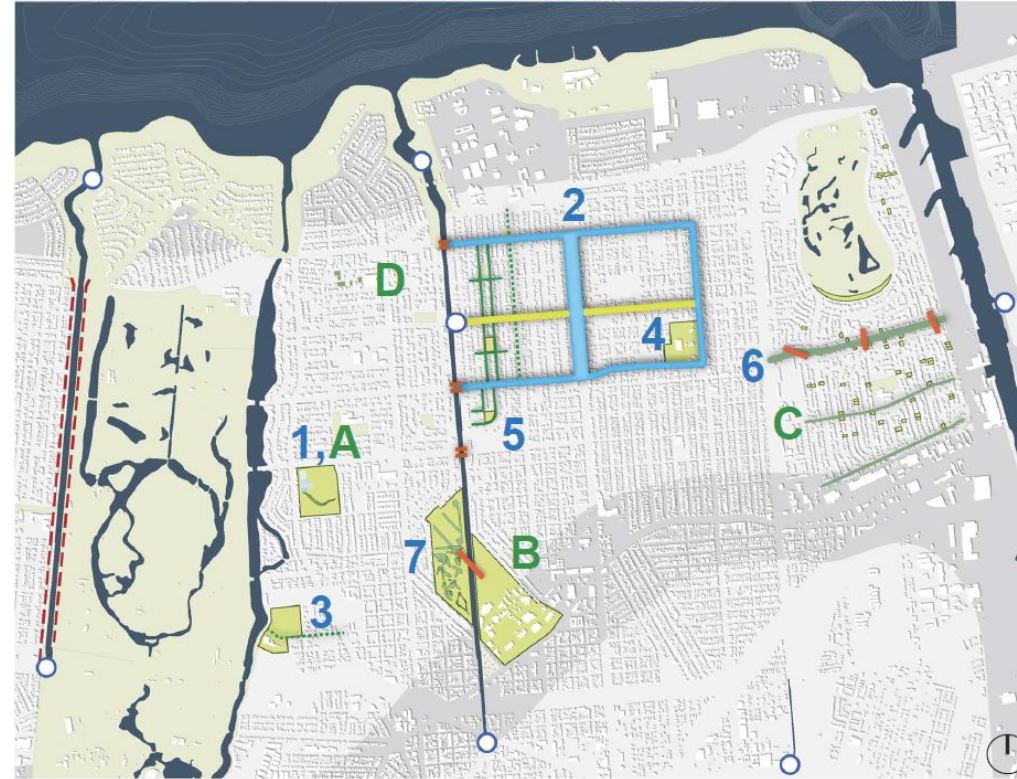
Groundwater Field Investigation (Deltares 2013)



Gentilly Resilience District Funding (2016)



\$285m Proposed



\$141m Funded

NDR-Funded Urban Water Projects:

1. Mirabeau Water Garden (Phase 2)
2. Blue & Green Corridors
3. St. Bernard Neighborhood Campus
4. Milne Campus
5. St. Anthony Green Streets
6. Dwyer Canal
7. Dillard Wetlands

FEMA HMGP-Funded Projects:

- A. Mirabeau Water Garden (Phase 1)
- B. Dillard Campus Green Infrastructure
- C. Pontilly Neighborhood Stormwater Network
- D. Oak Park Green Infrastructure

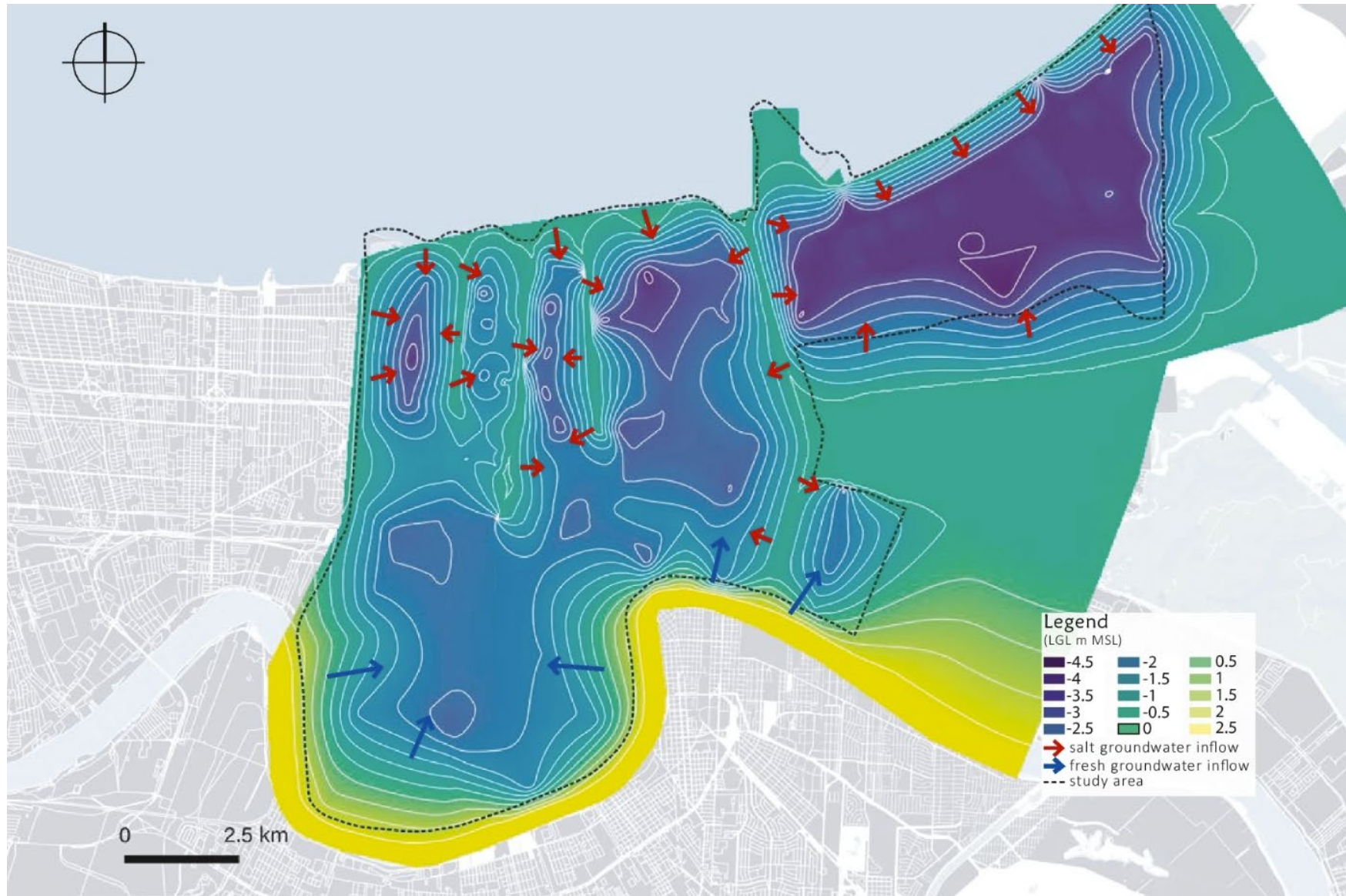
NDR-Funded Programs:

- Community Adaptation Program
- Reliable Energy & Smart Systems
- Workforce Development
- London Ave. & Orleans Ave. Canal Placemaking

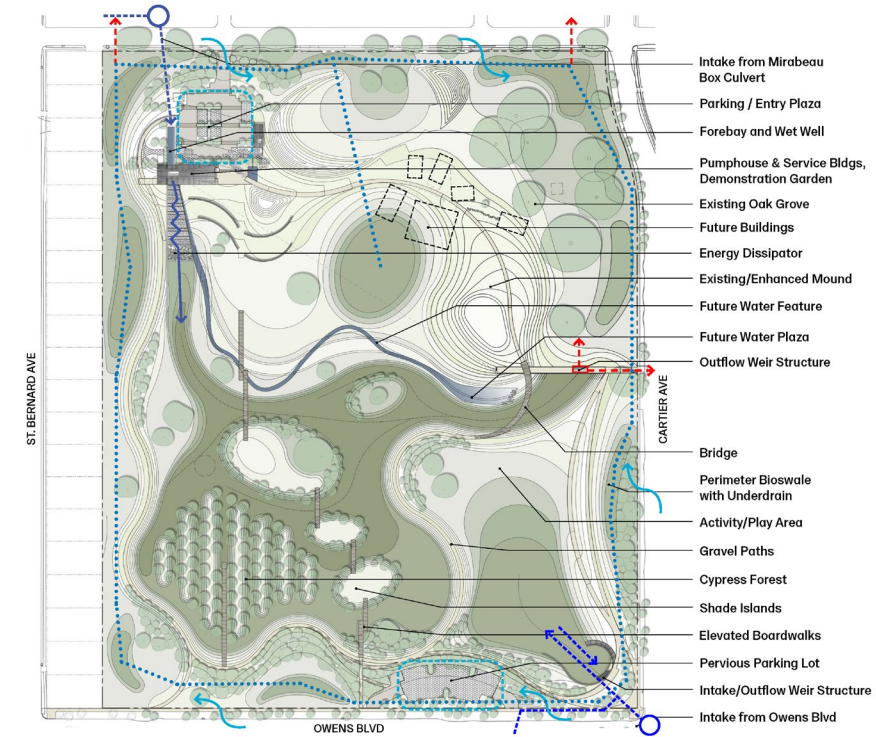
Gentilly Resilience District Planning (2024)



Groundwater Mapping (Deltares 2021)



Mirabeau Water Garden (2016-present)



Mirabeau Water Garden (2016-present)



Paradigm to Project

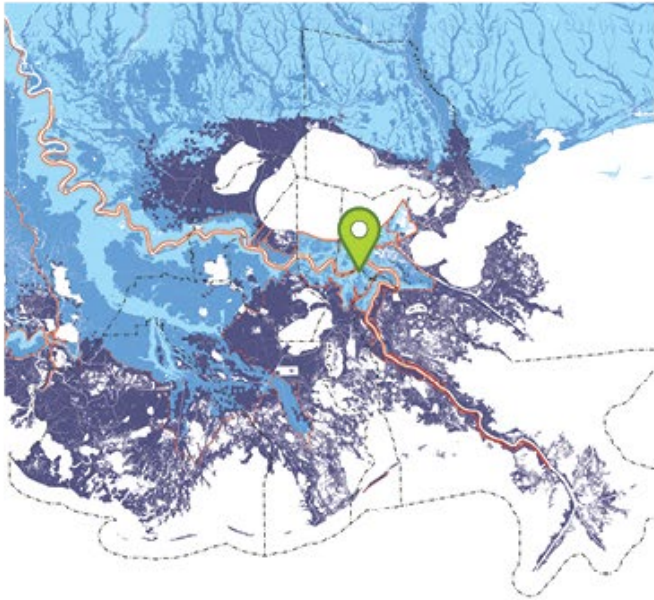
LASAFE Regional
Strategy



Jefferson Parish
Adaptation Strategy



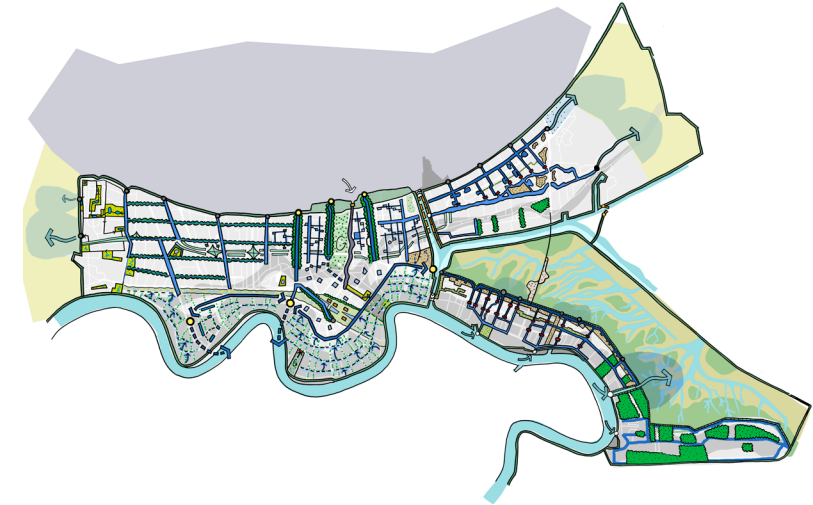
Gretna City Park
Pilot Project



Urban Water @ 10



Charleston Water Plan (2024)



Dutch Dialogues® Charleston (2019)



Gentilly Polder Management



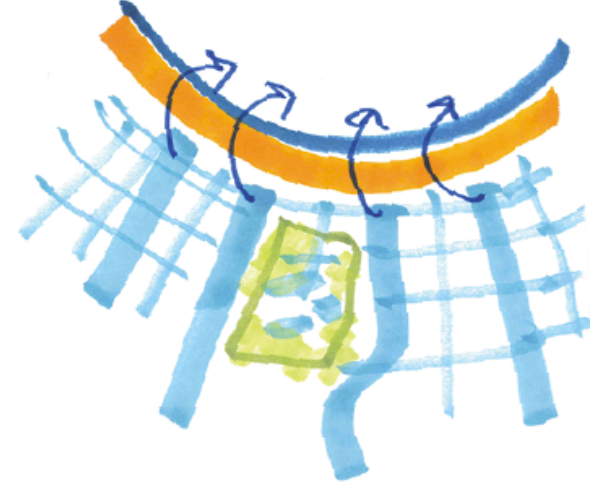
**Pre-Katrina:
Open Canals**

- Lake/Estuary/Surge reaches deep into city through canals
- Canals always open
- No pumps at lakefront



**Urban Water Plan /
Gentilly Resilience District**

- Perimeter protection closed in major storms
- Canals usually open
- Pump at lakefront rarely



**Gentilly 2050:
Sea Level Rise Ready**

- Perimeter protection closed permanently
- Pump at lakefront
- Develop internal circulating system

Peninsula Polder Management

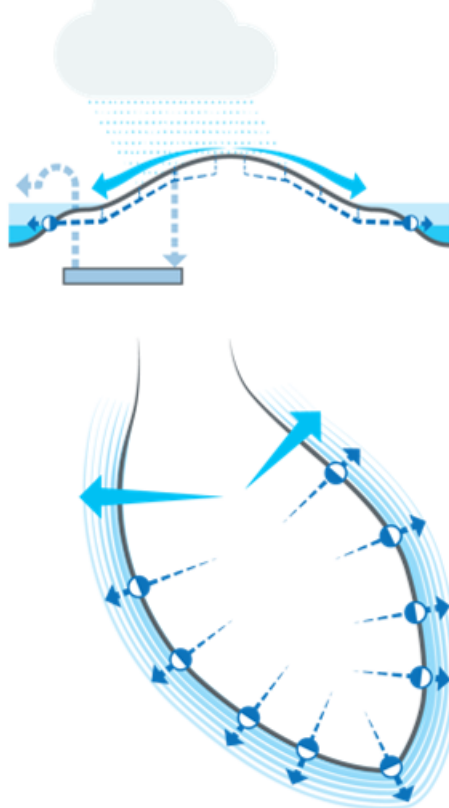


Peninsula Water System

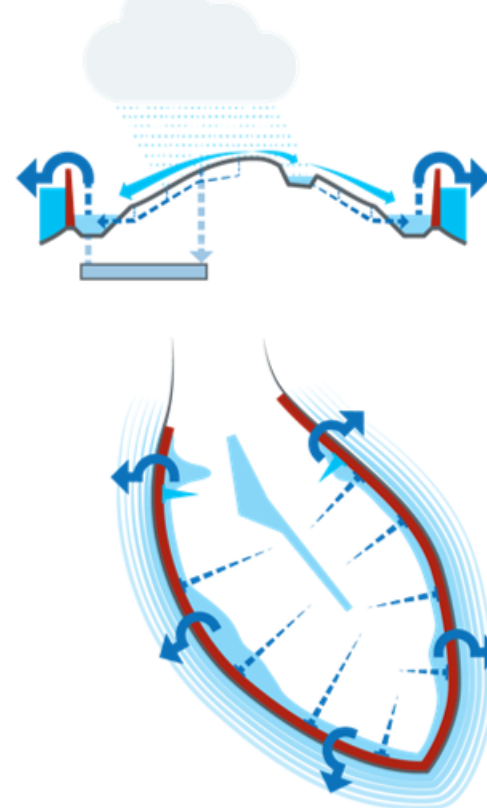
City of Charleston
Water Plan

Raised edge and lateral interconnections (polder).

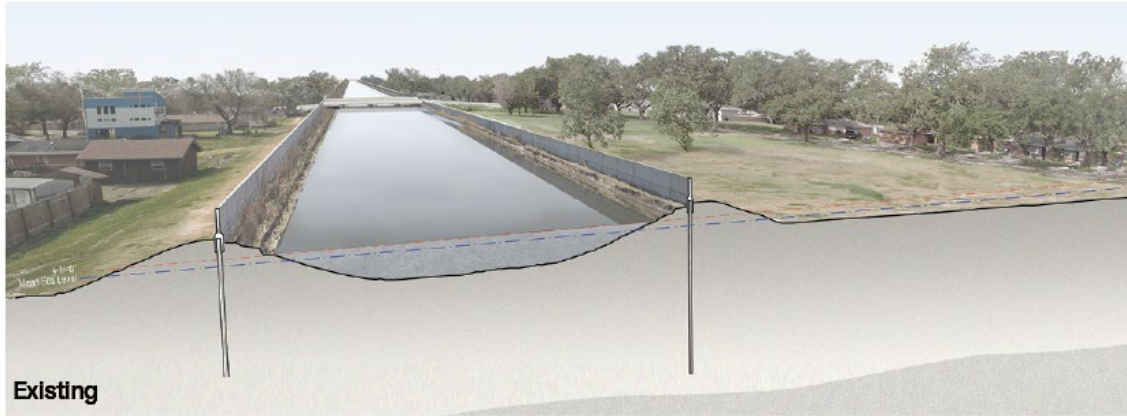
Gravity Drainage (Existing)



Raised Edge & Pumps (Proposed)



Outfall Canals

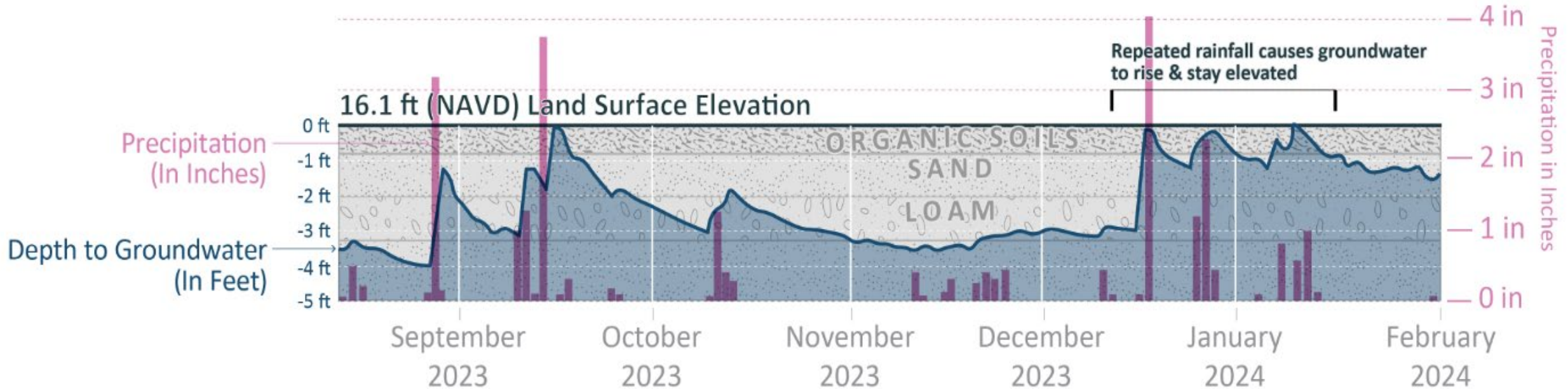


New Orleans Polder

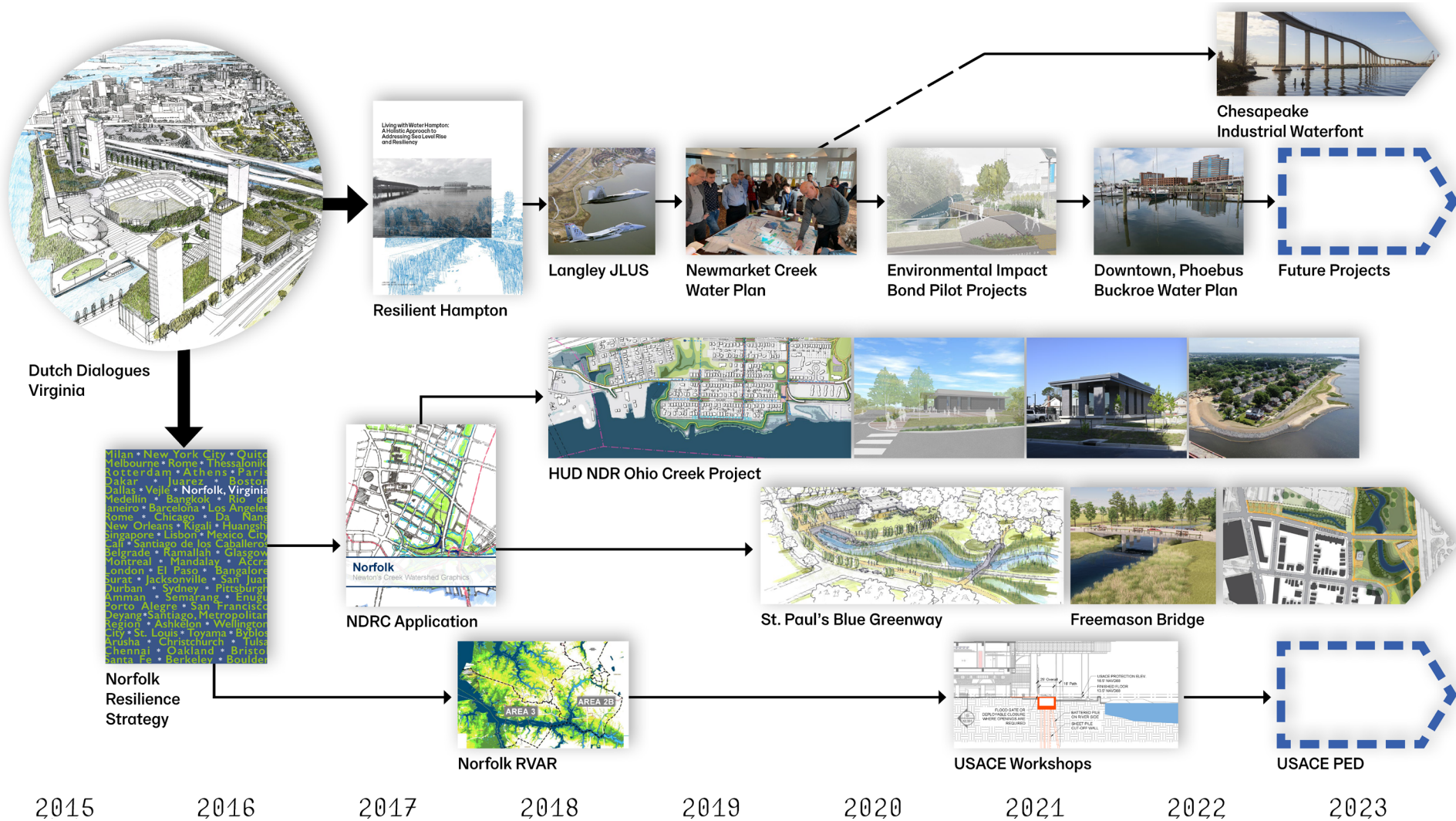


Charleston Peninsula

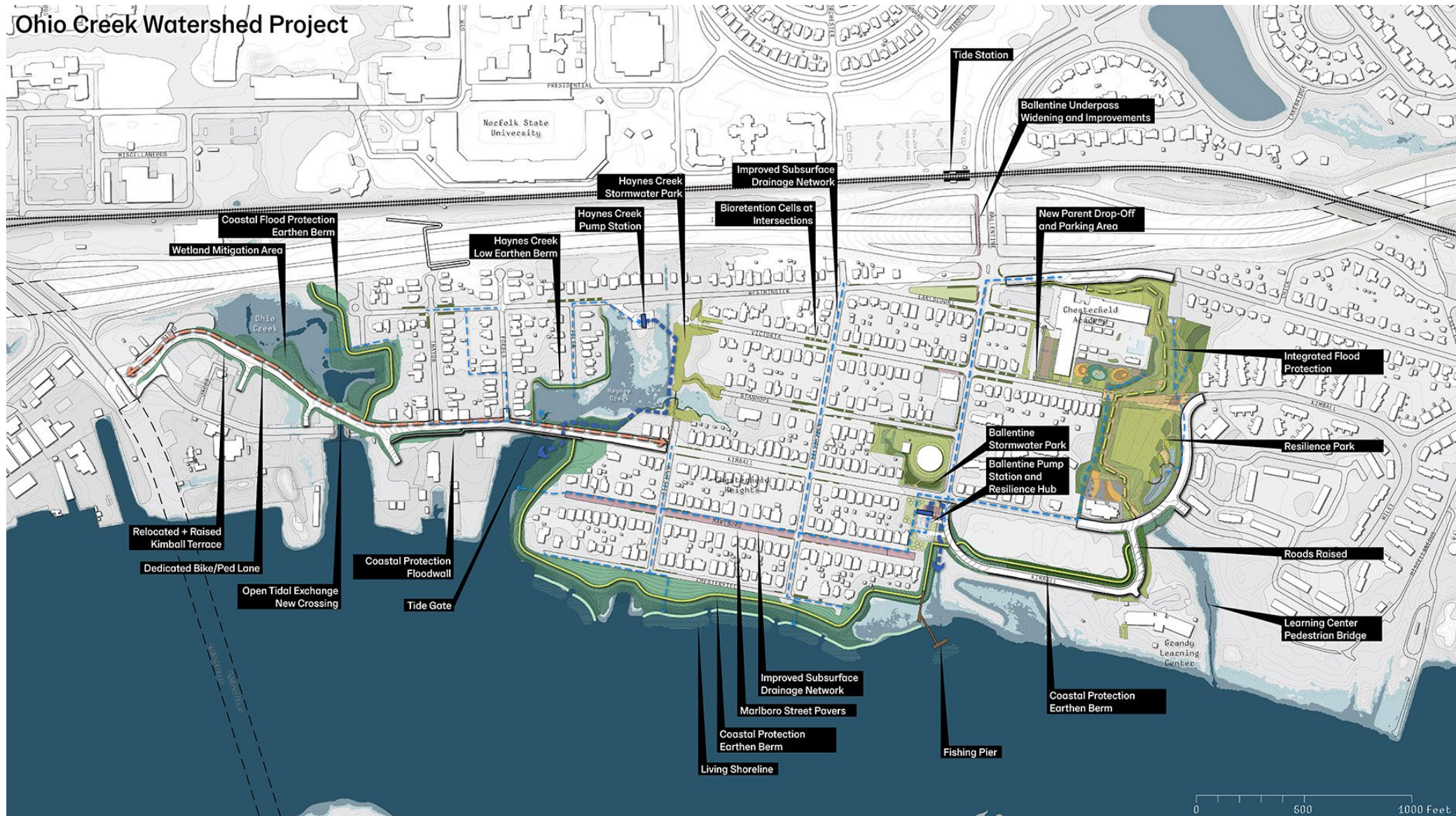
Groundwater Monitoring



Catalyst for Coastal Virginia Resilience



Norfolk Ohio Creek Resilience District (2016)



Norfolk Ohio Creek Resilience District (2023)



Norfolk Ohio Creek



Norfolk CSRM (ongoing)

