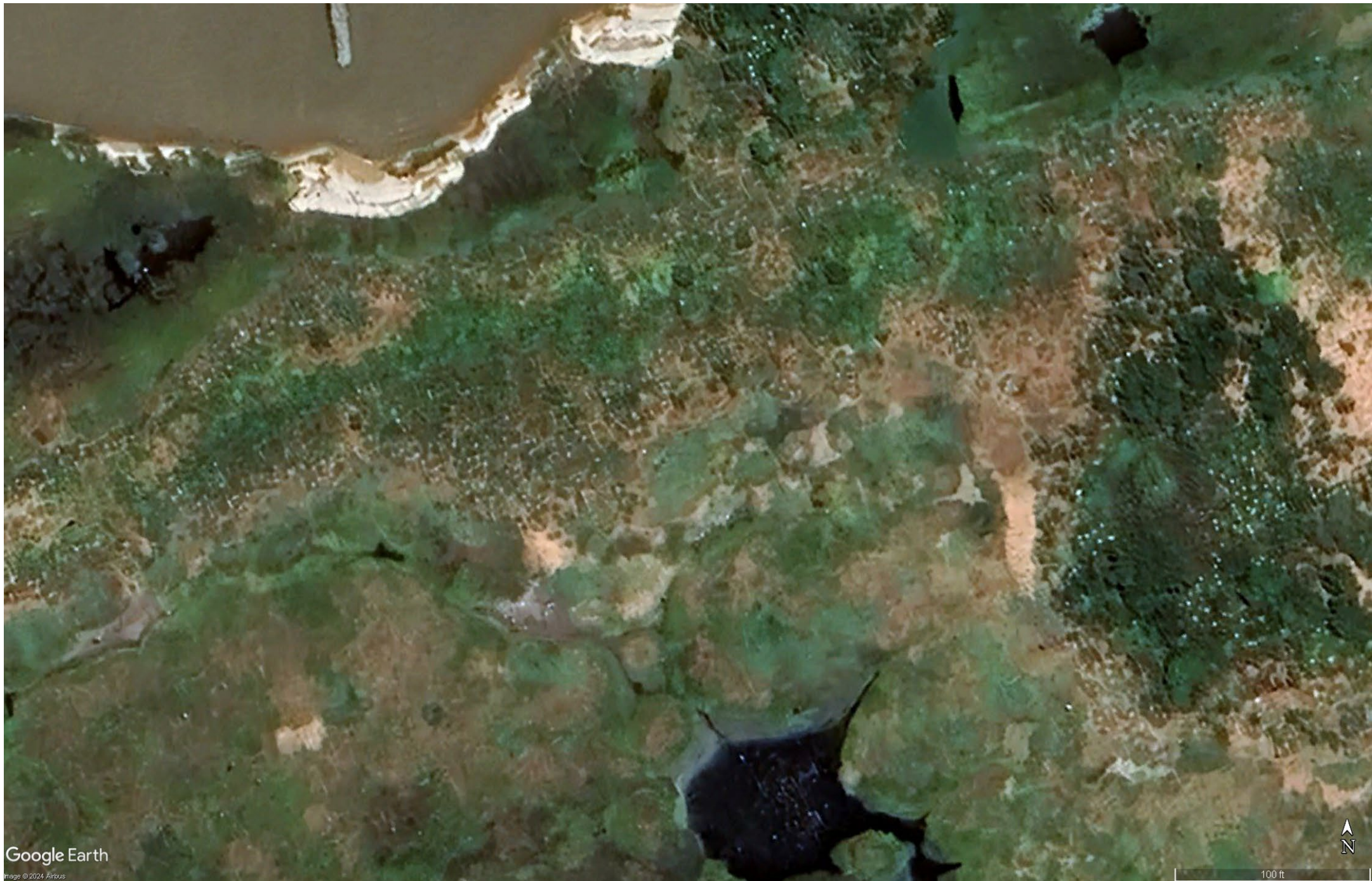# North Deer Island

Restoration and Protection

Phase III

Galveston Bay Estuary Program NRU 2024
Alexis Baldera & Pete Deichmann

HOUSTON AUDUBON

Audubon
TEXAS

Photo Credit: Kenn Kaufman

Estimated

12.8k

breeding pairs

Species		Number Pairs
Laughing Gull	40%	9,500
Brown Pelican	63%	3,000
Tricolored Heron	12%	128
Great Egret	12%	94
Great Blue Heron	21%	40
Snowy Egret		28
Roseate Spoonbill		14
		12,836

Species		Number Pairs
White-faced Ibis	43%	9
Neotropic Cormorant		6
Little Blue Heron		5
Cattle Egret		4
Reddish Egret	18%	3
Yellow-crowned Nigh...	27%	3
Glossy Ibis	100%	1
Black-crowned Night-...		1

Table   Map legend

Ownership

- 39.5%- Houston Audubon
- 33.3%- Audubon Texas
- 19.4%- Unknown
- 3.3%- Unknown, Hitchcock, TX
- 3.1%- Joseph Charles III
- 1.4%- Janice Mcbride Frey

NDI Erosion

- Constant barge traffic from ICWW collapsing North shoreline

- 1998 Tropical Storm Frances eroded 40' of Southwest shoreline

- Eroding at 5'/yr

Partners

Audubon Texas, EcoNRG, EPA Gulf of Mexico Program,, Harris & Eliza Kempner Fund, Meadows Foundation, Reliant Energy, National Fish and Wildlife Foundation Shell Marine Habitat Program, Texas Commission on Environmental Quality - Galveston Bay Estuary Program, Texas General Land Office, Texas Parks and Wildlife Department, U.S. Fish and Wildlife Service and Houston Audubon members and friends.

Phase I: 2003

Phase II: 2008

Rock Shoreline Revetment Constructed Phase II

Rock Groin Field Constructed Phase II

Marsh Islands Created Behind Berm - Phase II

Earthen Berm Armored with Rock Constructed Phase I

Rock Breakwater with Marsh Islands One Half Completed in Phase I, One Half Completed Phase II

Accomplishments of North Deer Island Project

- Protected the entire 144 acre island from erosion. This includes 119 acres of salt marsh and 25 acres of uplands.

- Placed 24,100 tons of limestone along the edge of the island to create 6450 feet of durable erosion control structures and good substrate for oysters and other encrusting organisms.

- Created 8 acres of salt marsh with the help of 40 Marsh Mania volunteers who planted marsh grass.

- Brought together a large and diverse partnership to fund the $3.2 million project.
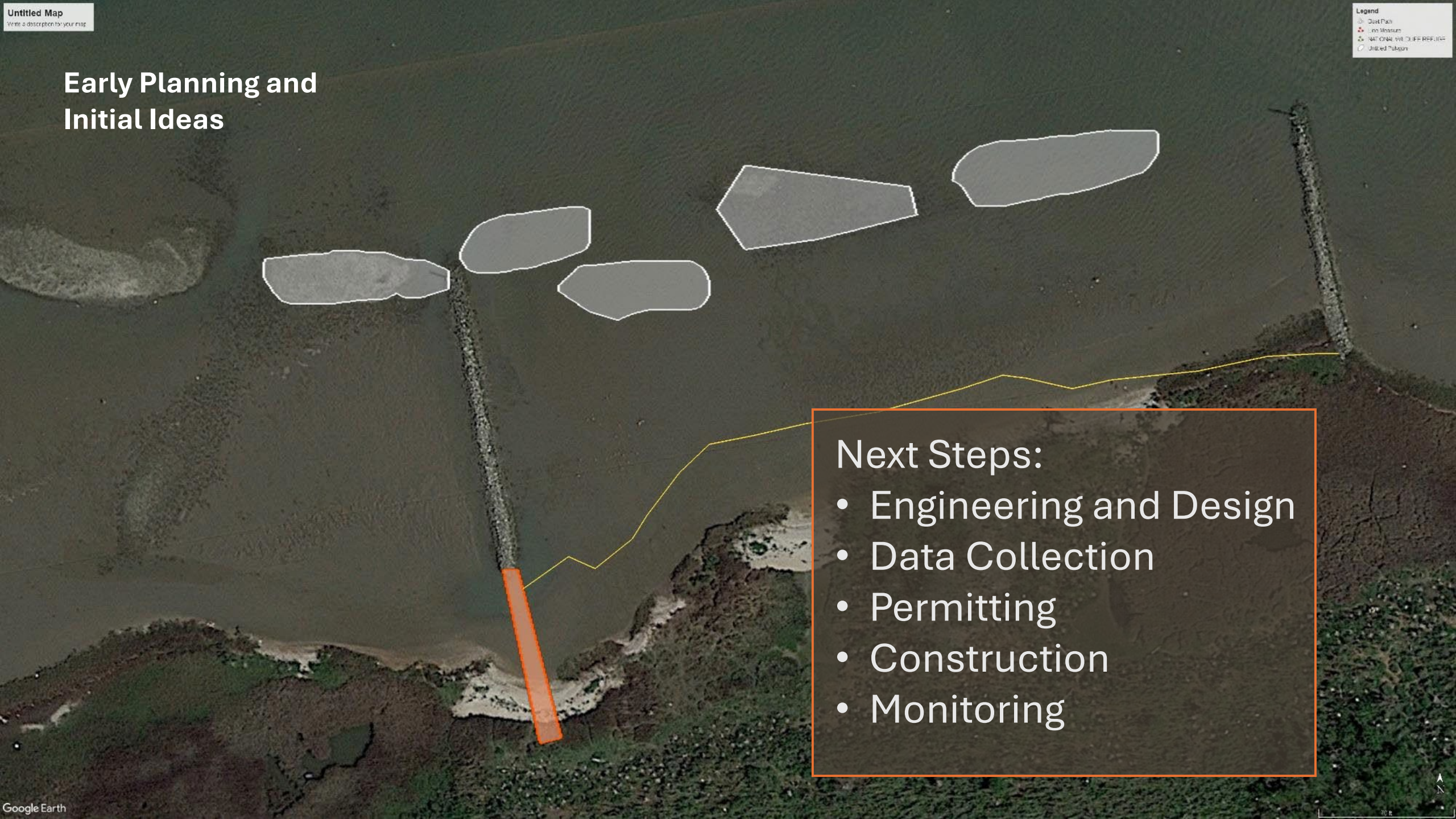
North Deer Island

Early Planning and Initial Ideas

Thank you

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