



LET THE OYSTERS DO THE
WORK: A PROPOSAL FOR
CREATING TRULY BIOGENIC
STRUCTURES FOR RESILIENCE
AND RESTORATION

*Tyler R. Ortego, Matthew Campbell, and
Steven Hall*

tyler@oratechnologies.com

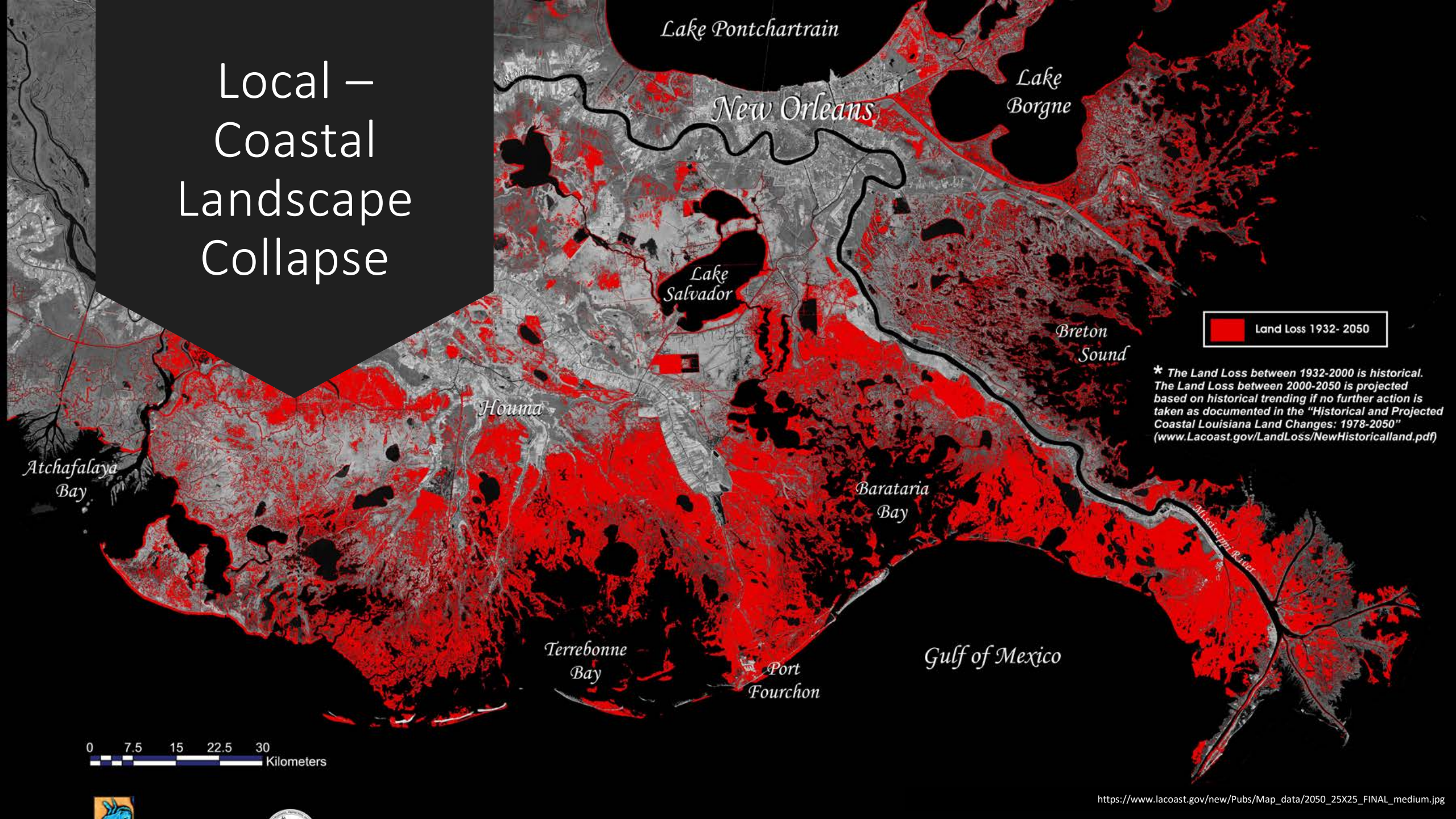


Global - CLIMATE CHANGE & DEMOGRAPHICS

**\$28 trillion
worth of coastal
assets at risk.**

**Over 1 billion
people in low
lying coastal
areas by 2060.**

Local – Coastal Landscape Collapse



Let the oysters
do the work



2004



Pressure
sensor 1

Oysterbreak

Pressure
sensor 2

Pressure
sensor 3



2006





2010



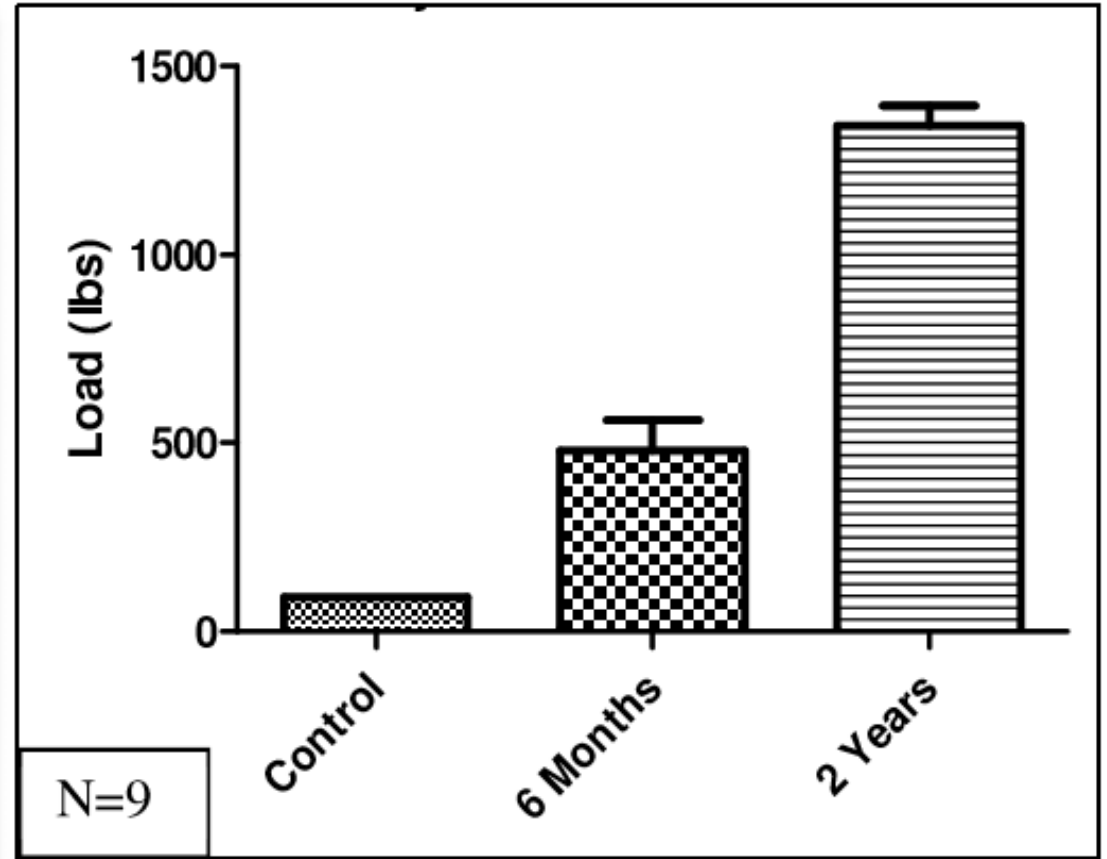
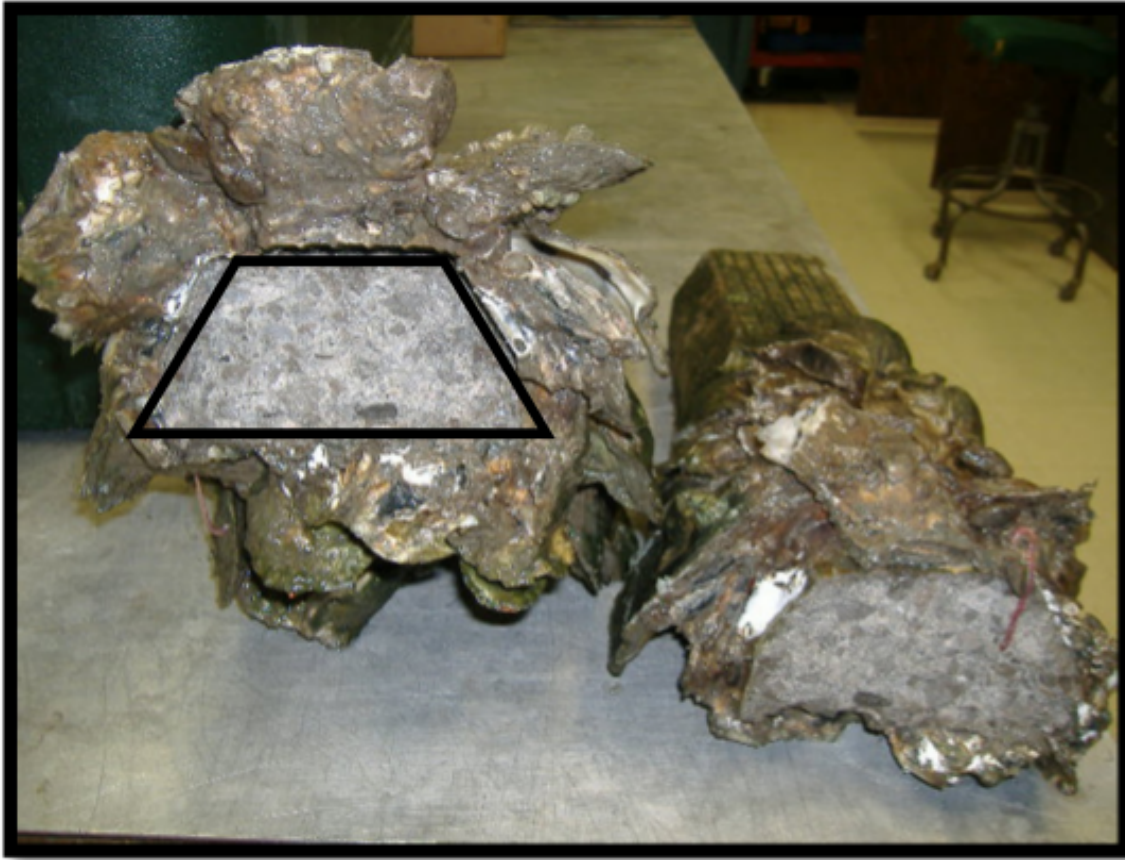


Figure 3.12 a, b: (a) Concrete with oyster growth (b) flexural strength variations over time.

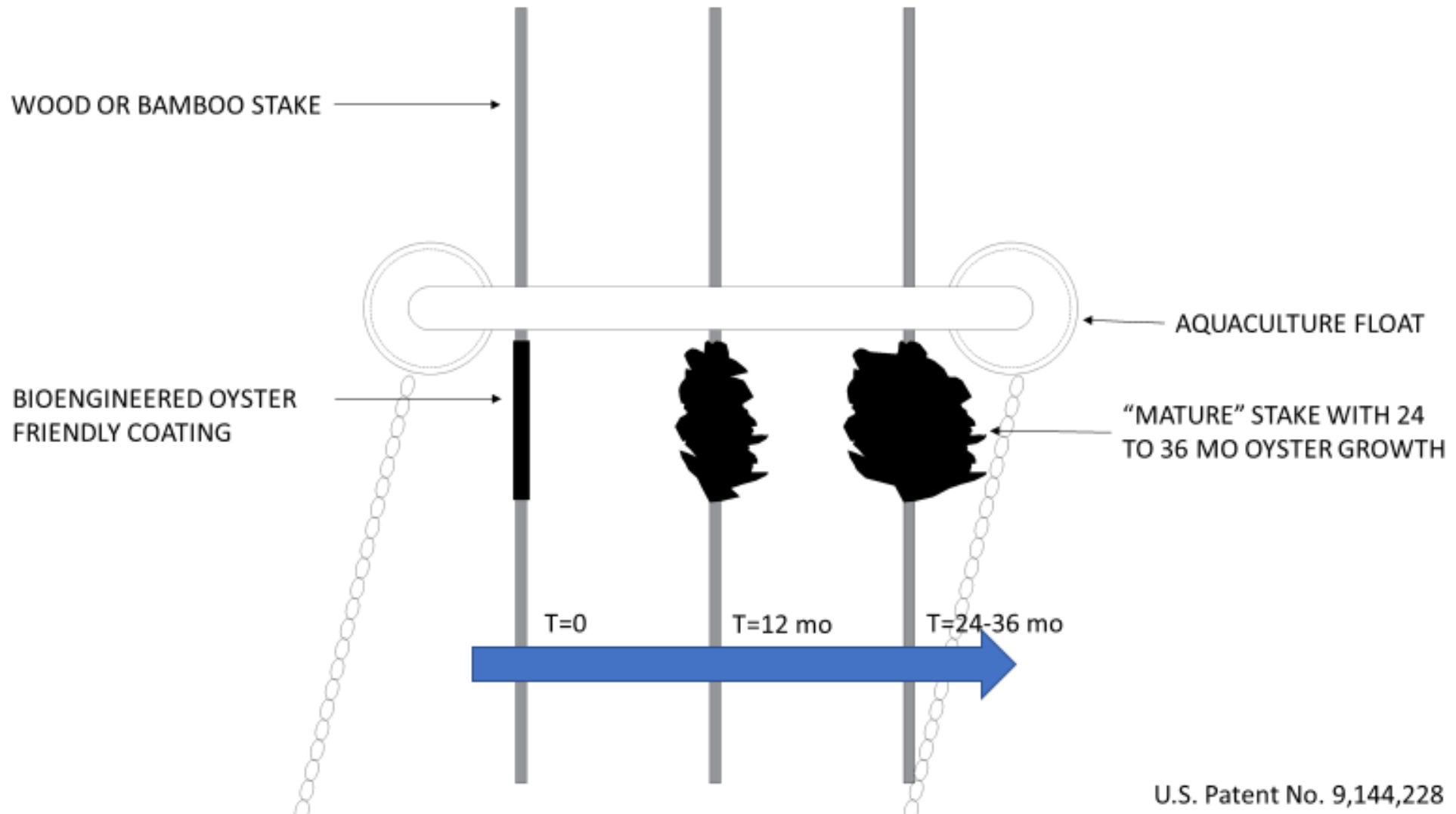
Structural Stability



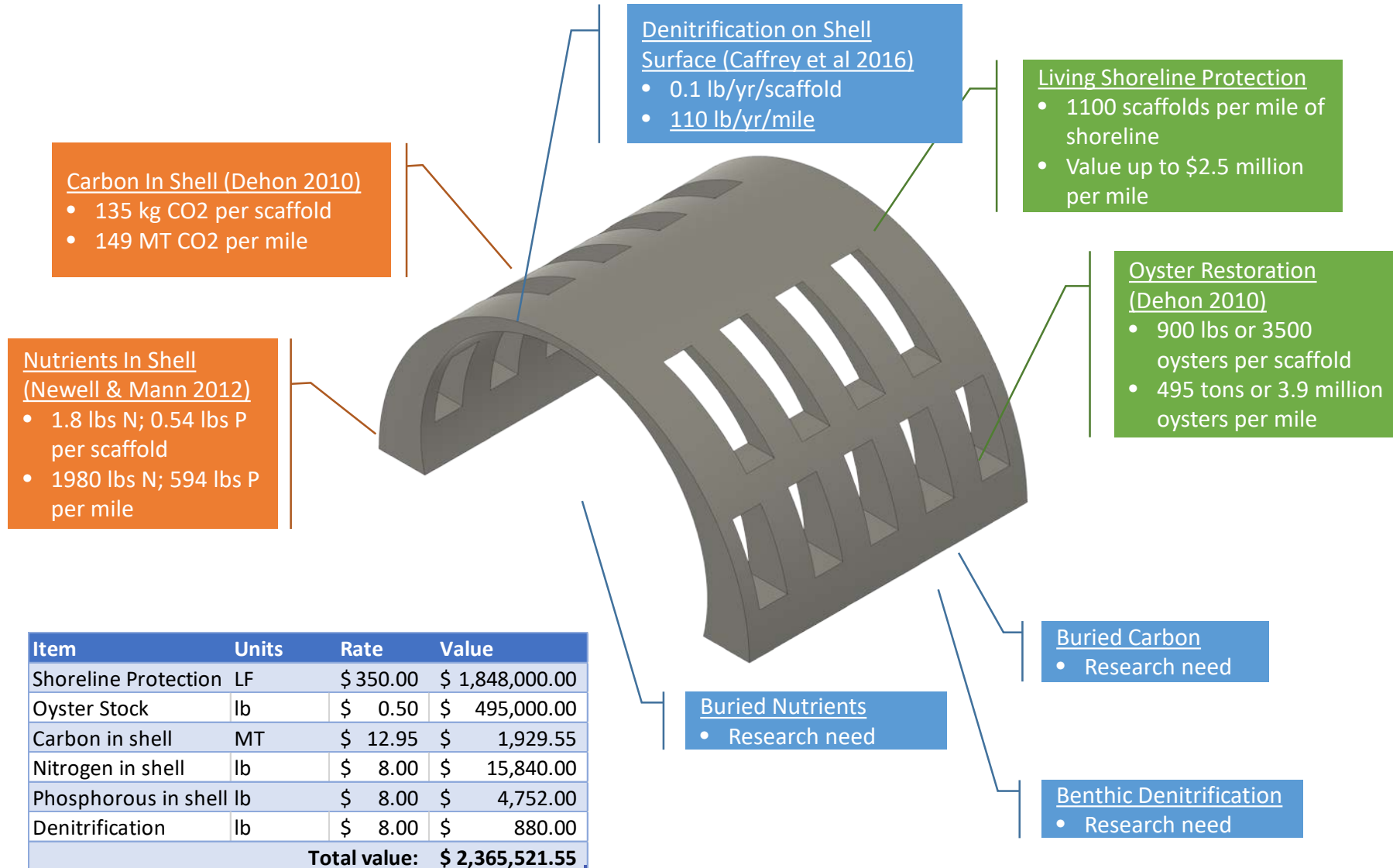
How low can we go?



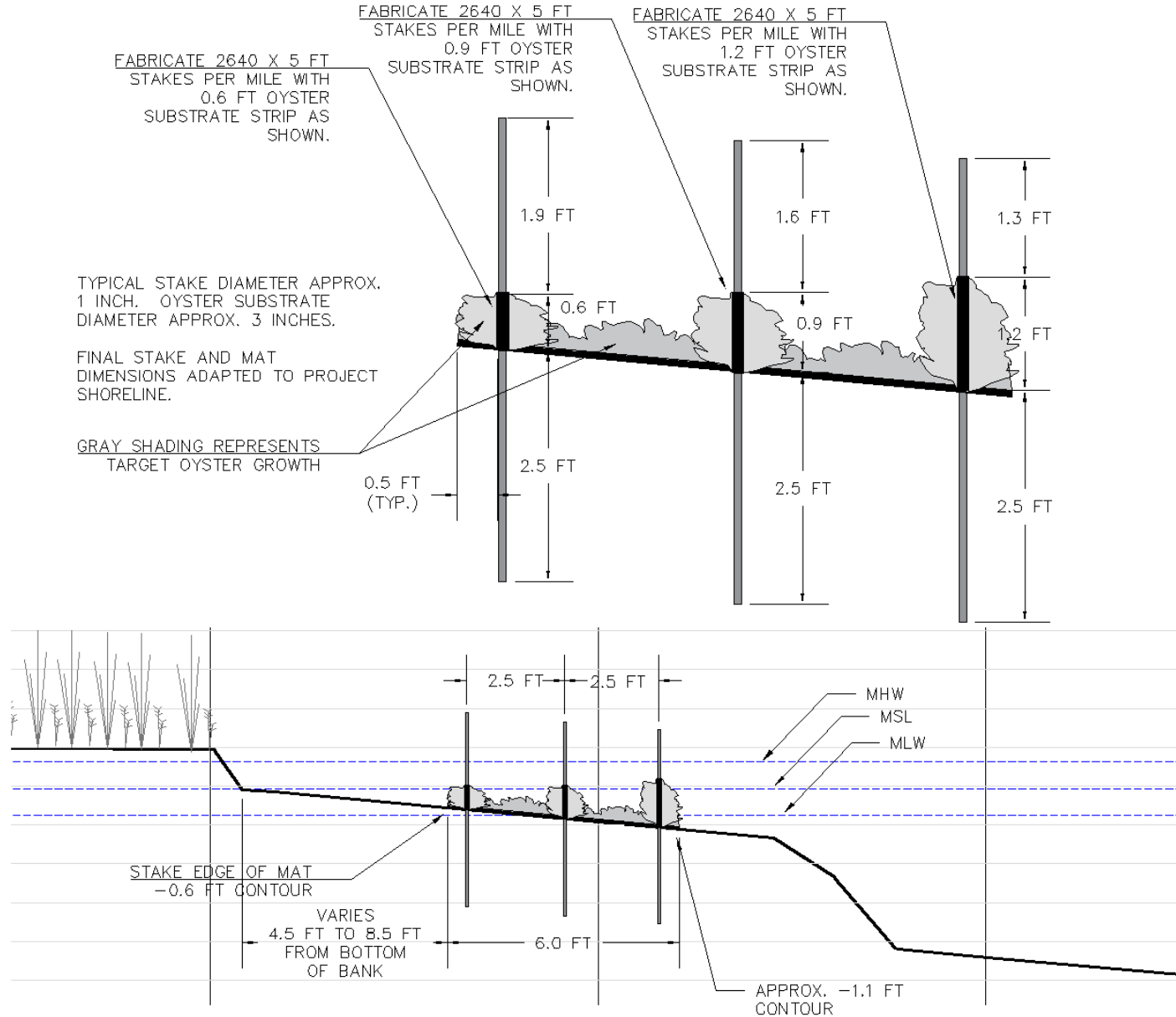
How low can we go?



Oyster Scaffold Quantified Benefits



RESTORATION OYSTER COMPANY EXAMPLE SECTION AND DETAIL



General Notes

OUR PLANNED 25 MILE SHORELINE FARM WILL PREVENT THE LOSS OF 300 ACRES OF COASTAL WETLANDS.

(FIVE FT PER YEAR OF PREVENTED LAND LOSS ADDS UP TO 12 ACRES PER MILE OVER 20 YEARS.)

No.	Revision/Issue	Date



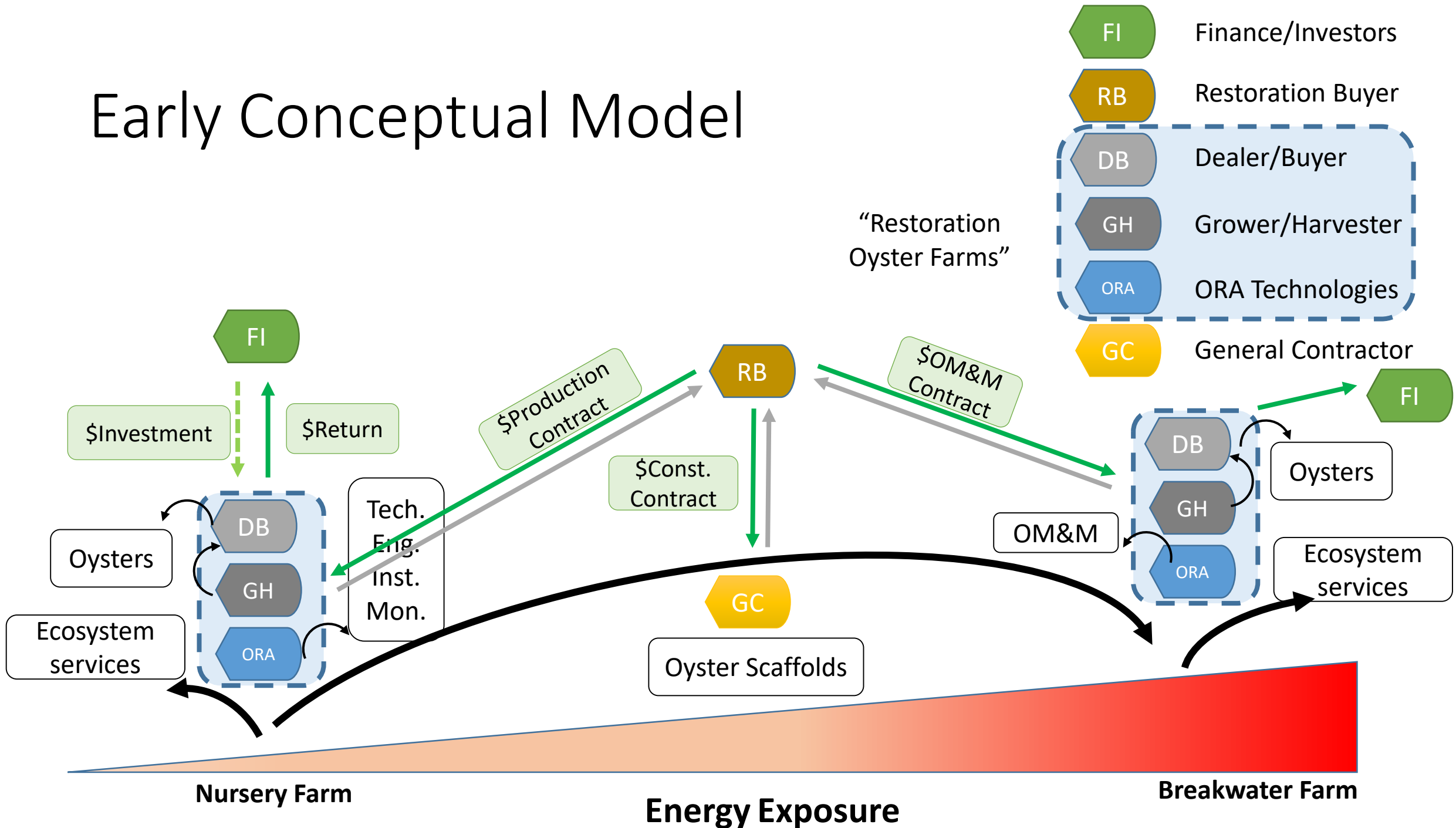
Project Name and Address

RESTORATION OYSTER COMPANY

EXAMPLE CROSS SECTION AND DETAIL

Project	Sheet
RESTORATION OYSTER	X
Date	
Scale NTS	

Early Conceptual Model





Got Oysters?