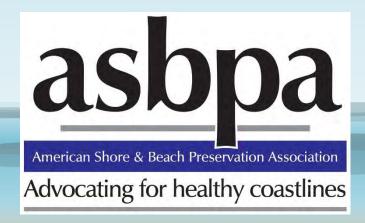
#### A Coastal Sediment Crisis Of Dust Bowl Proportions:

Why we need a New Deal for beneficially using sediment

WEDA – EASTERN CHAPTER MEETING WILMINGTON, DE: OCTOBER 2019

Derek Brockbank Executive Director, ASBPA













#### The Dust Bowl





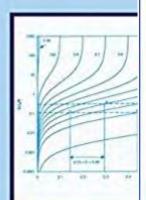
#### Soil Conservation Act April 27, 1935



United States Department of Agriculture
Natural Resources Conservation Service



#### Soil Conservation Techniques





Contour plowing helps prevent erosion from heavy rains.



No-till farming prevents erosion by providing cover that reduces water runoff.



Terracing prevents erosion from heavy rains on steep hills.



Soybeans are a cover crop which restores





Shoreline recession... is not "natural," but caused by human activity to benefit the navigation industry.

- Dr. James Houston





RESTORATION

INVOLVED

DONATE



418,859,060.3

TONS OF LOST SEDIMENT

SINCE JANUARY 1, 2014

#### Parallel Causes:

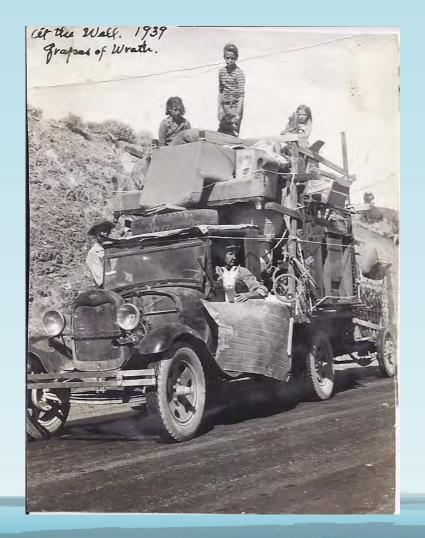
<u>Cause</u>	<u>Dust Bowl</u>	<u>Coastal Crisis</u>
Economic driver:	Farming	Navigation & Flood Control
Political hurdle:	USDA mission was to maximize production	USACE missions are nav & flood control
Technological change:	Mechanization	Control of rivers & inlets
"Climatic" Disaster:	Drought	Global Warming leading to Sea Level Rise & Storm Intensification

Advocating for healthy coastlines

#### Parallel results - Community Destruction



#### Forced migration





#### Economic trouble nationwide

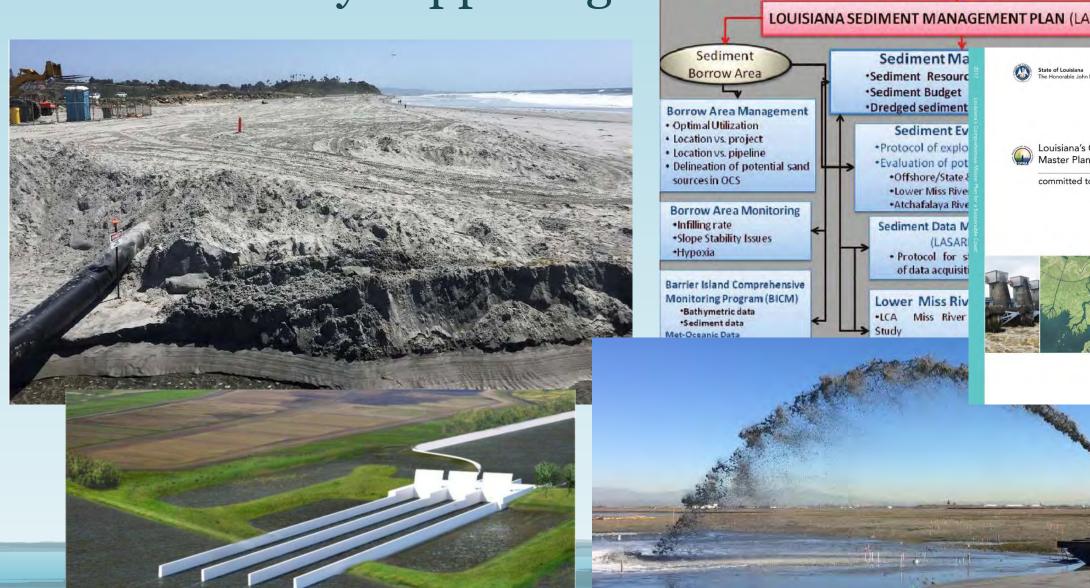




#### Parallel responses?

<u>Solution</u>	<u>Dust Bowl</u>	<u>Coastal Crisis</u>
Science:	Land grant universities; USDA research	Sea Grant universities; Fed- Academic coastal research program.
Demonstration projects:	USDA soil erosion experiment stations	BUDM Pilot Projects (Sec. 1122, WIIN Act)
Change in economic structure:	Farm Bill and NRCS conservation programs	???
Sustained federal commitment:	~\$6 billion annually	???
Investment in people & infrastructure:	New Deal: CCC, TVA, Highways	???

#### What's already happening:



**PROJECTS** SEDIMENT SEDIMENT OCS Waters, State Waters, Coastal Zone NEED Lower Mississippi & Atchafalaya River LOUISIANA SEDIMENT MANAGEMENT PLAN (LASMP) State of Louisiana The Honorable John Bel Edwards, Governor Louisiana's Comprehensive Master Plan for a Sustainable Coast committed to our coast

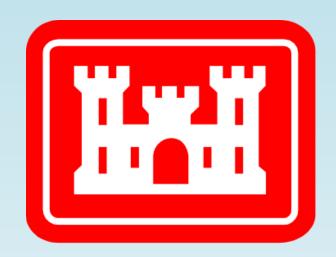
#### Question:

What would it take to use...



...of dredged sediment beneficially?

1. Change the understanding of the USACE "federal standard" of least cost disposal.



## US Army Corps of Engineers®

#### 2. Ban open water disposal.



#### 3. Sustained federal investment



### 4. Commitment to Infrastructure, People & Nature

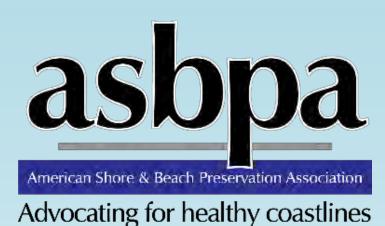


#### 5. Prioritizing sediment placement



# Restore and Retreat





Vision:

Advocating for healthy coastlines

Protection

Economy

Ecology

Recreation



