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## Coastal Waters

Coastal water, specifically coastal erosion, has been a growing problem due to human impact.

### The Problem

#### Erosion/Sediment -> Vulnerability (Hurricanes & Floods)

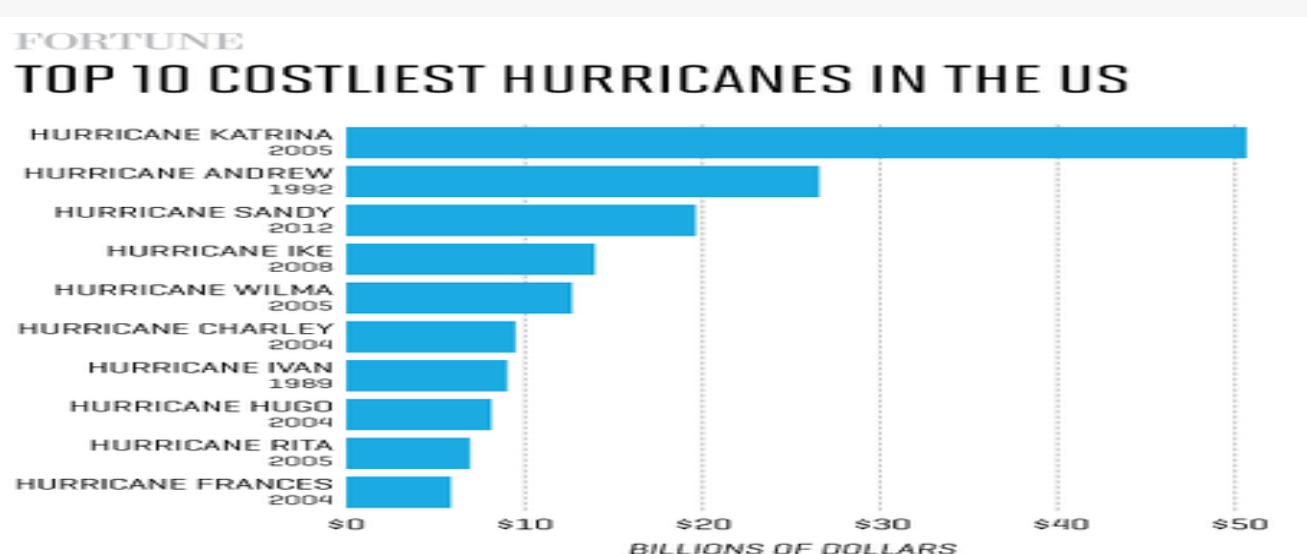


FIGURE 1. The Impact of Hurricanes on the Economy. Above shows the extensive damage that hurricanes can cause on the relief system, and the amount of money it takes to recover from these. Matthews, C. (2016, October 06). These Two Charts Show How Much Damage Hurricane Matthew Could Cause. Retrieved December 12, 2017, from <http://fortune.com/2016/10/06/hurricane-matthew-damage/>



FIGURE 2. Flooding in China because of the Yellow River. China is left in shambles in the aftermath of yet another flood caused by the Yellow River, but ultimately due to human impact.

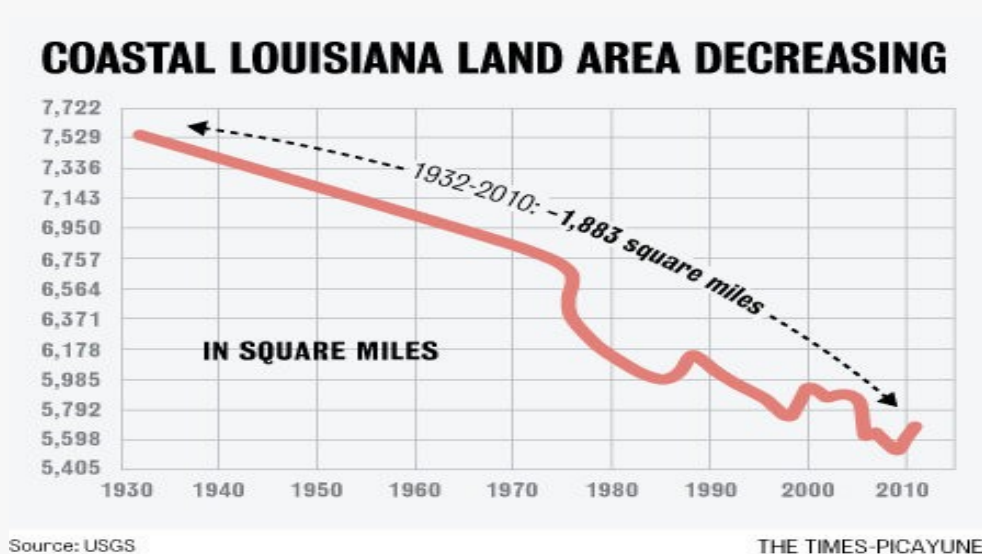


FIGURE 3. The Erosion of Land in the Louisiana Coast. The graph shows the extreme downhill trend of the land area that has been decreasing. This sediment then builds up in the river. Schleifstein, M. (2017, May 11). Louisiana is losing a football field of wetlands an hour, new U.S. Geological Survey study says. Retrieved December 03, 2017, from [http://www.nola.com/environment/index.ssf/2011/06/louisiana\\_is\\_losing\\_a\\_football.html](http://www.nola.com/environment/index.ssf/2011/06/louisiana_is_losing_a_football.html)

mid 1930's to now

About 2000 square mile of land has been lost on the Louisiana Coast

A football field of land is lost per hour ("Louisiana's Coastline is Disappearing").

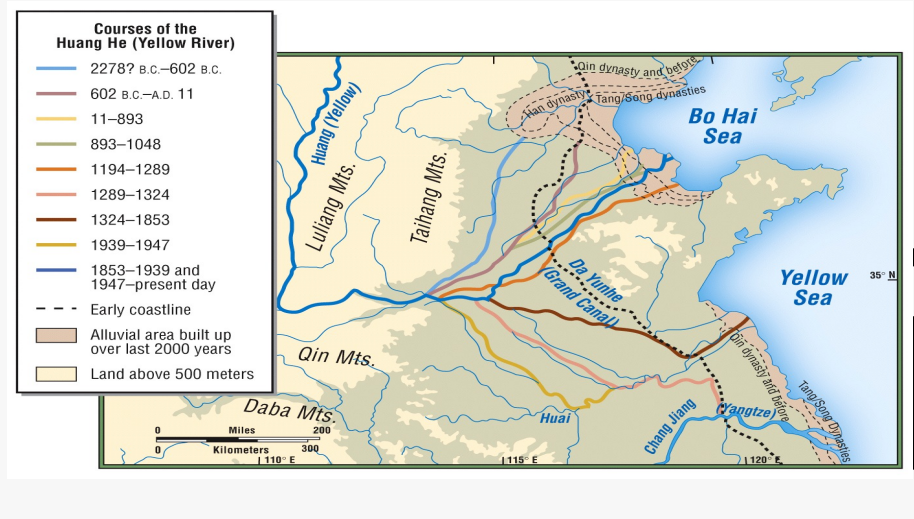
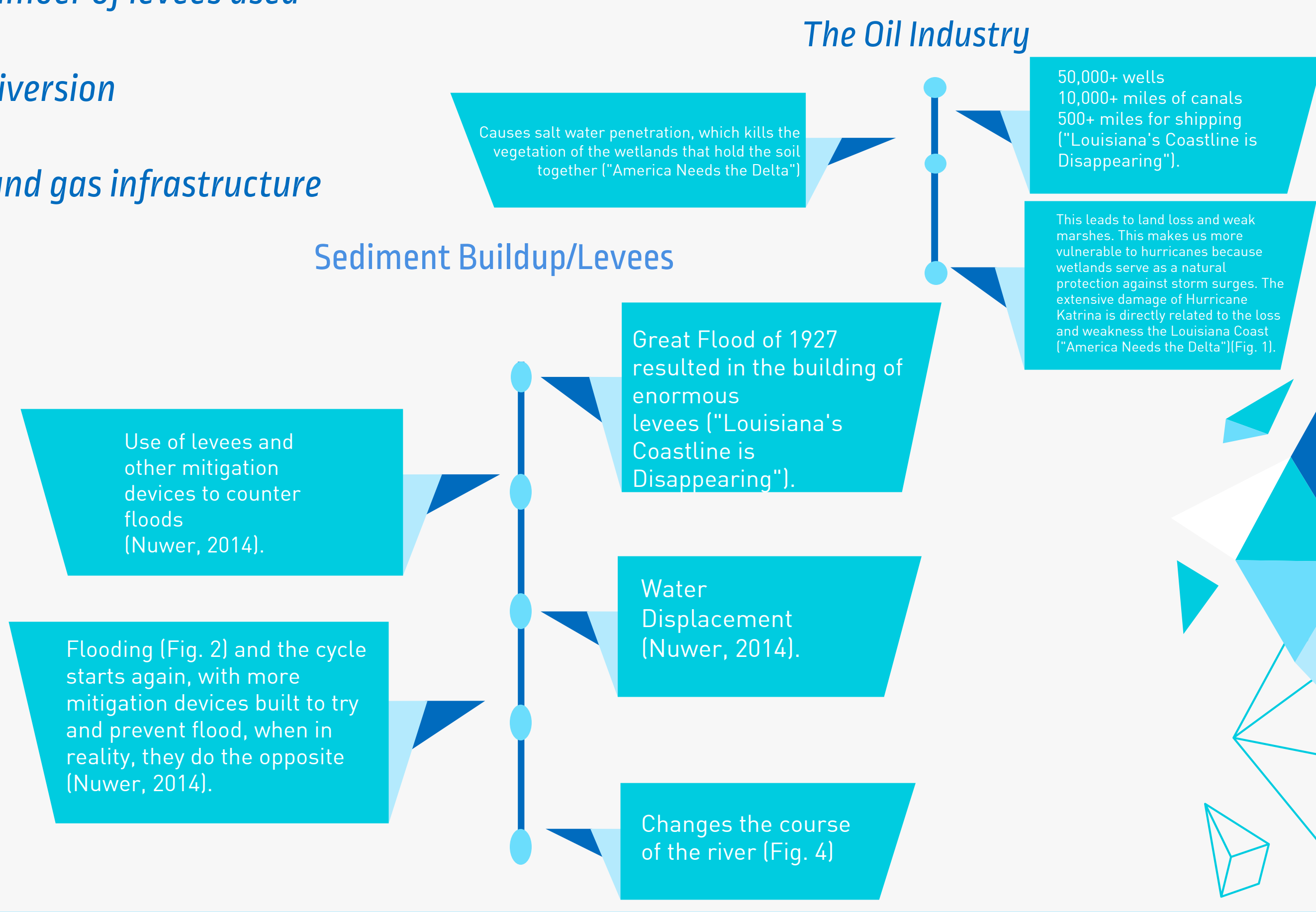


FIGURE 4. The change of the Yellow River Throughout the Years. Pictured above shows the extreme course changes that the river has undergone because of flooding caused by human disruption of the current ecosystem. There have been 26 in the span of 2,546 years ("Interesting Facts about the Yellow River"). S. [n.d.]. River Floods China - CHINA FLOODS 1931. Retrieved from <https://www.coursehero.com/file/p5446406/River-Floods-China>

### Solutions

- Limit the number of levees used
- Sediment Diversion
- Reduce oil and gas infrastructure

### Causes



### References

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