

# The Technological Evolution of Hydraulic Dredging

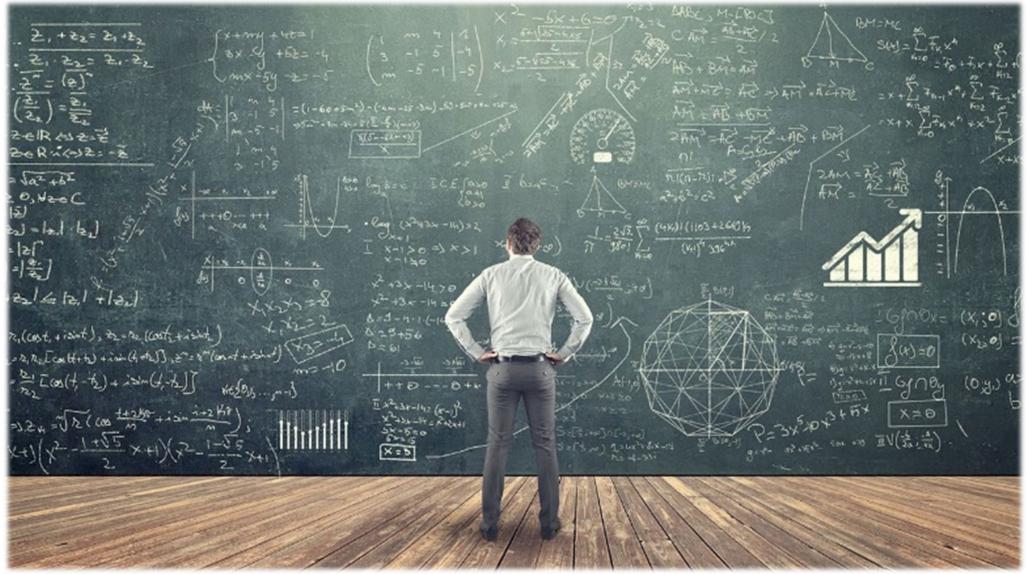


DREDGING SUMMIT & EXPO '22
Building the Future of Dredging

Presented by DSC Dredge, LLC Bob Wetta, President & CEO

#### Discovery vs. Technology











#### Discovery vs. Technology









## Why Technology?

A better way to solve problems

To find a more efficient and/or accurate way of doing something

Long-term reduction of costs

Can be adopted to increase safety

Can be adopted for environmental benefits

Can produce new technologies or new discoveries

# **Dredging Technology**

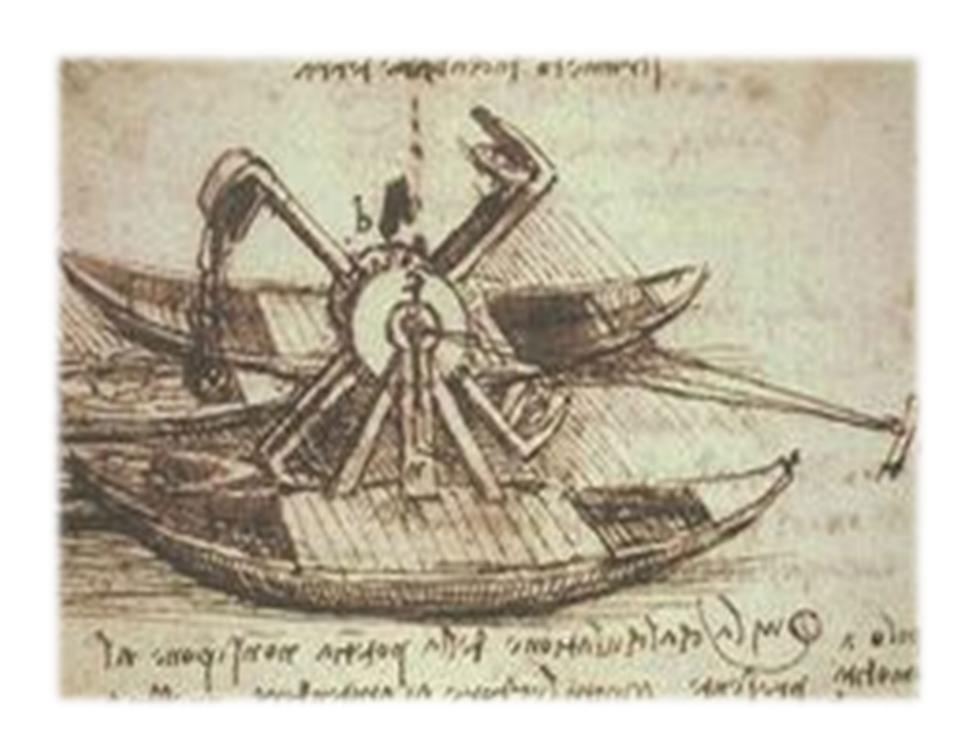








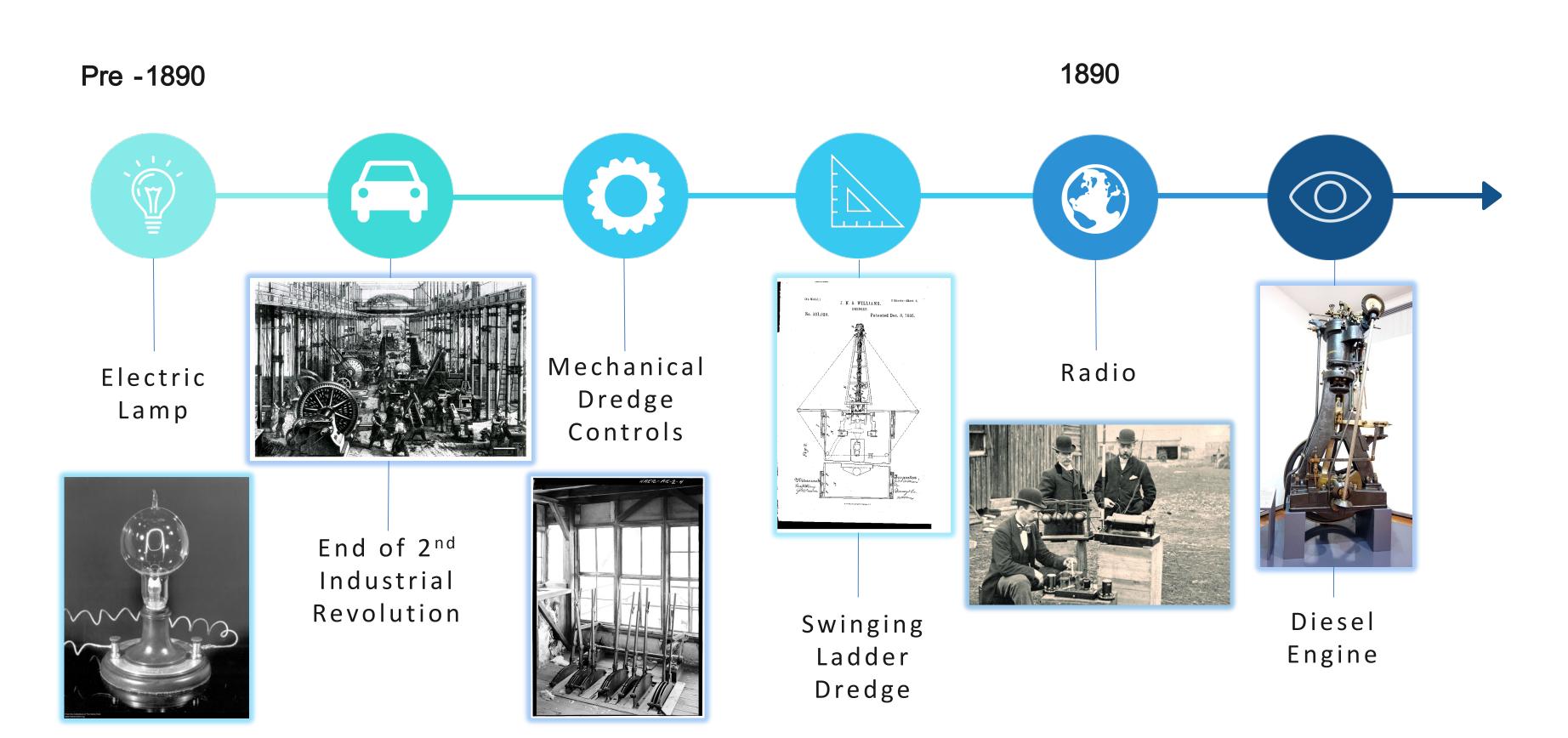
## **History of the Dredge**



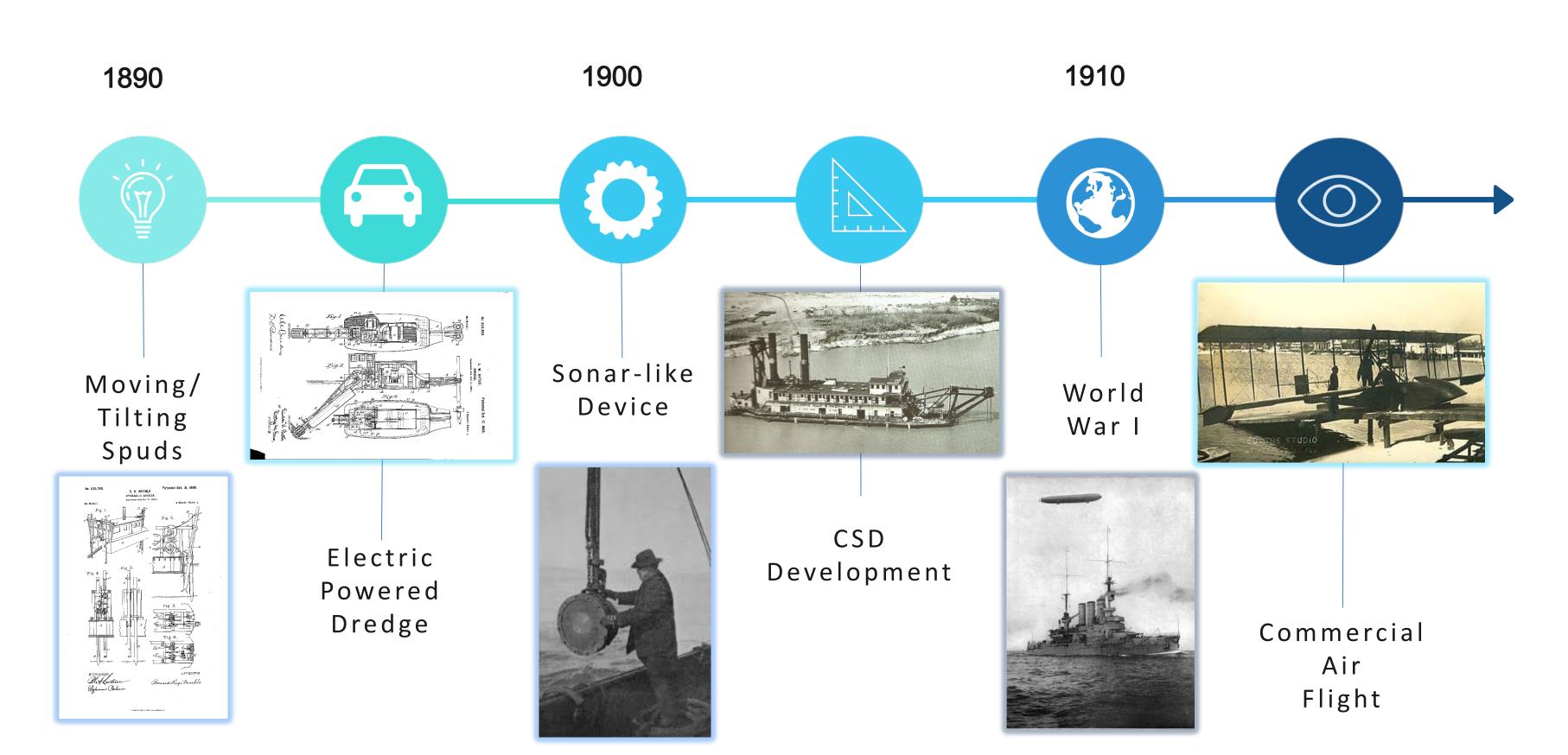


Reconstruction of the mud-drag by Leonardo da Vinci

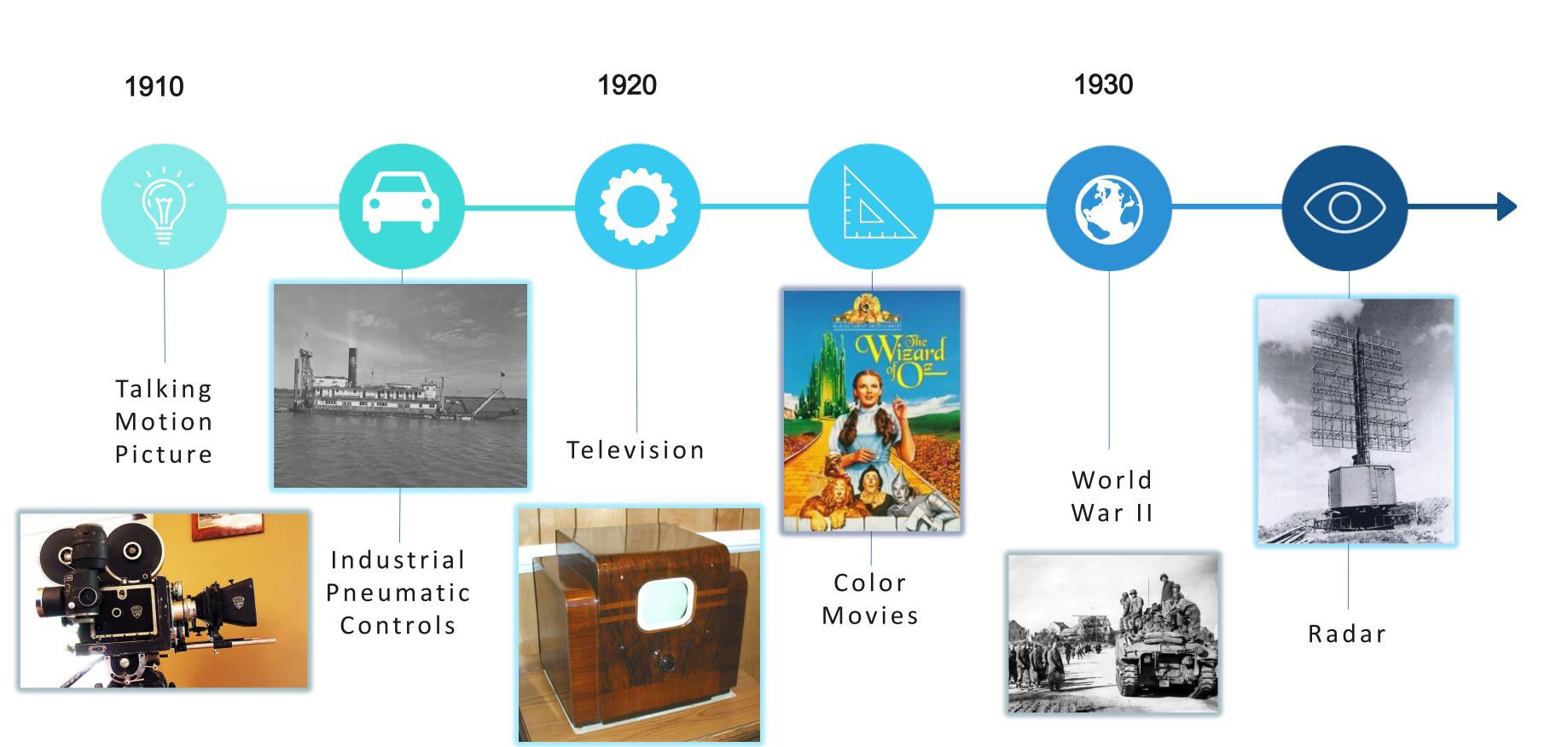




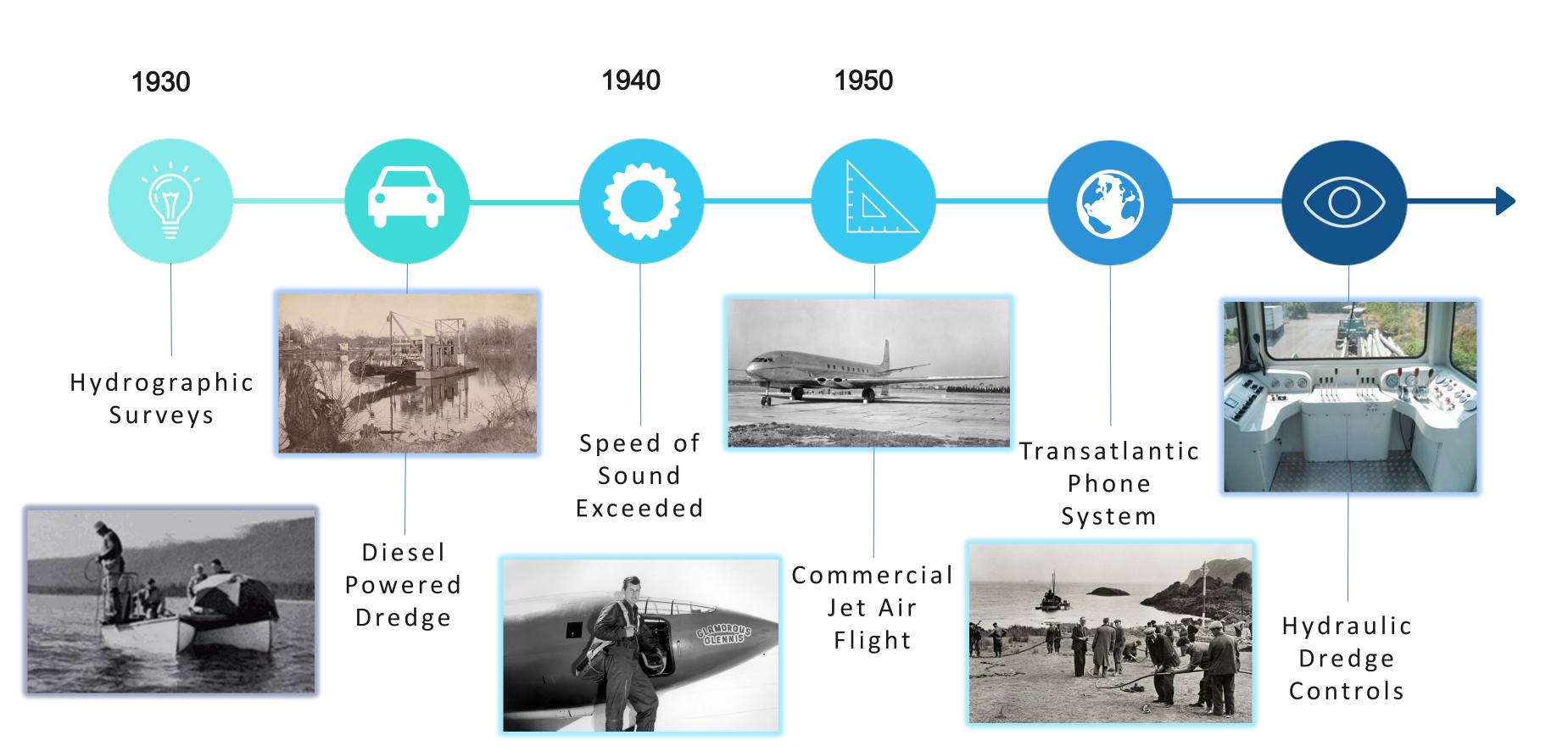




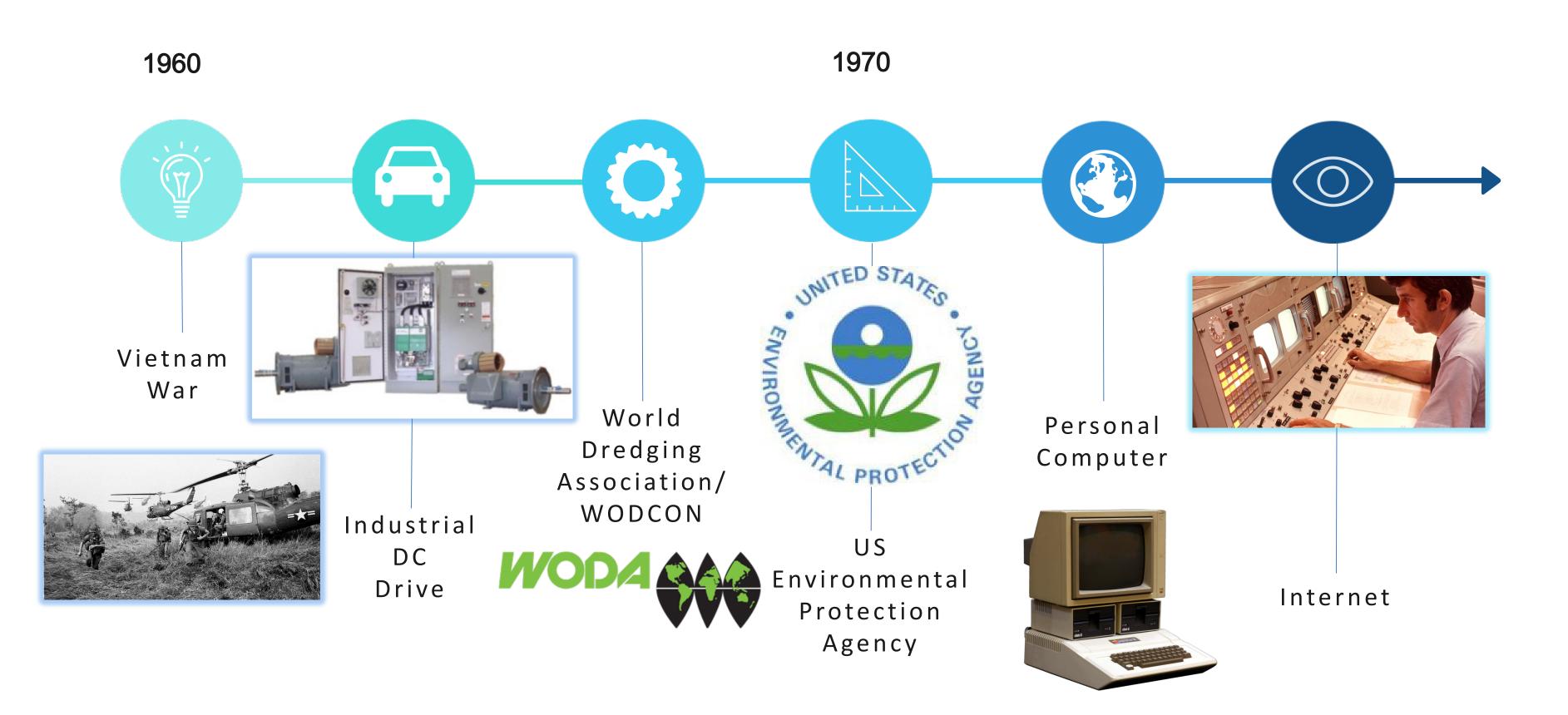








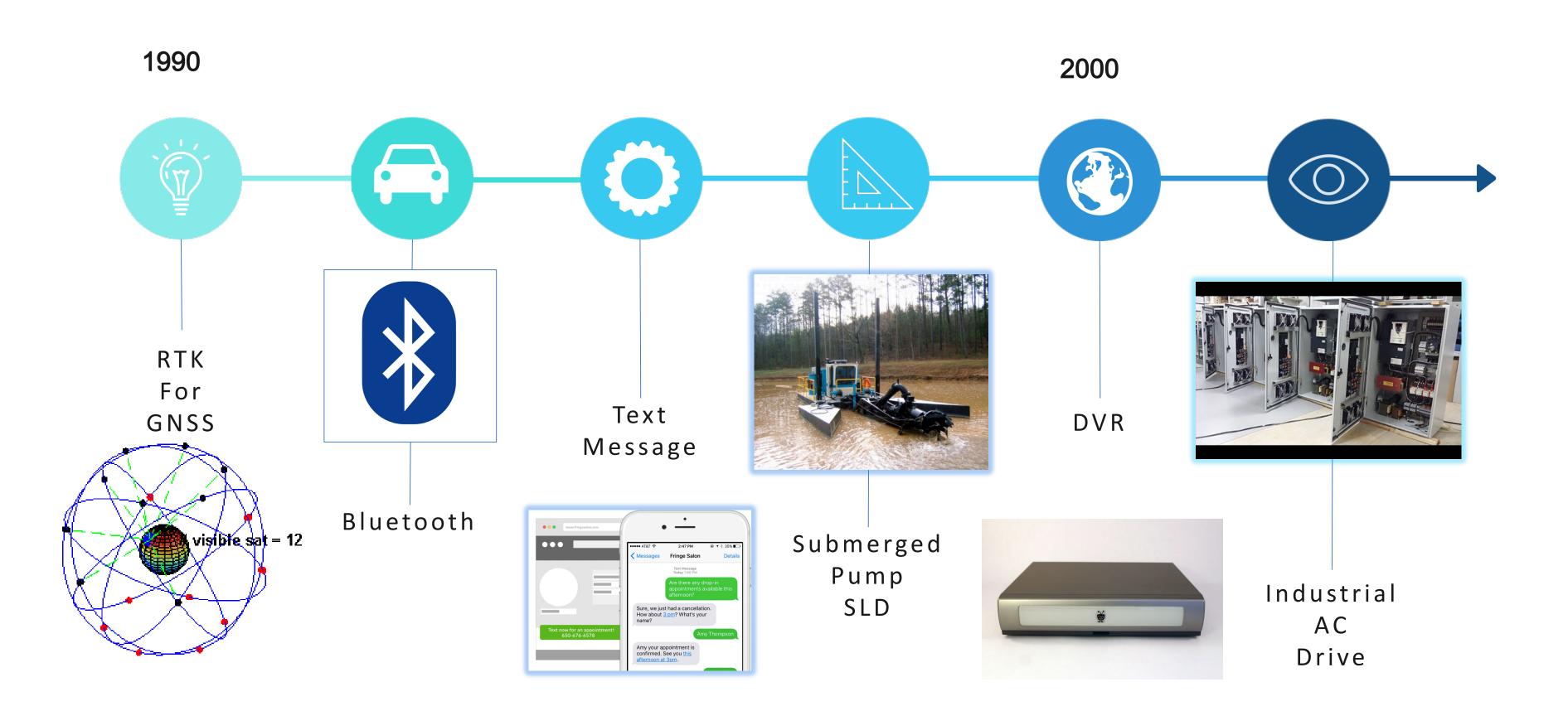




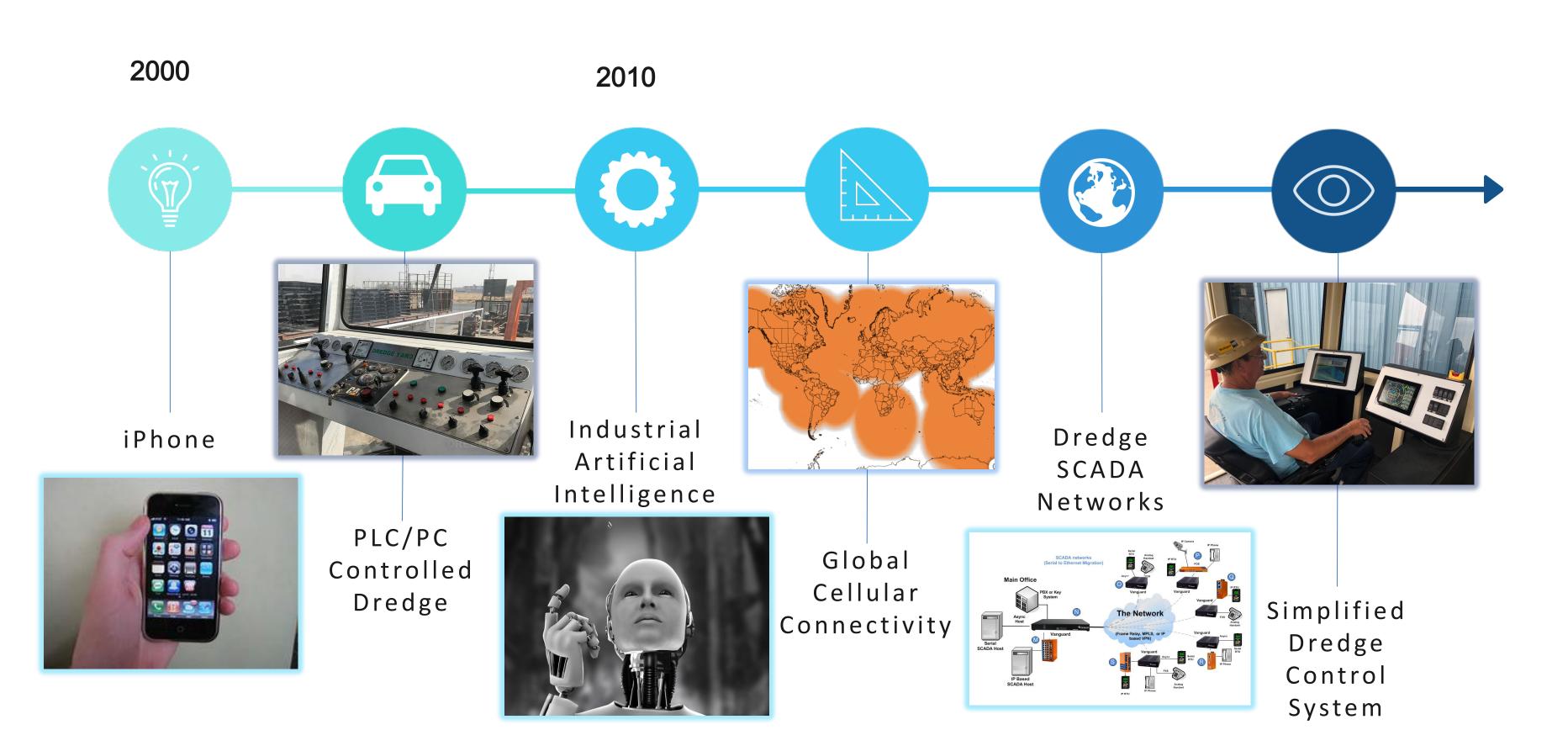




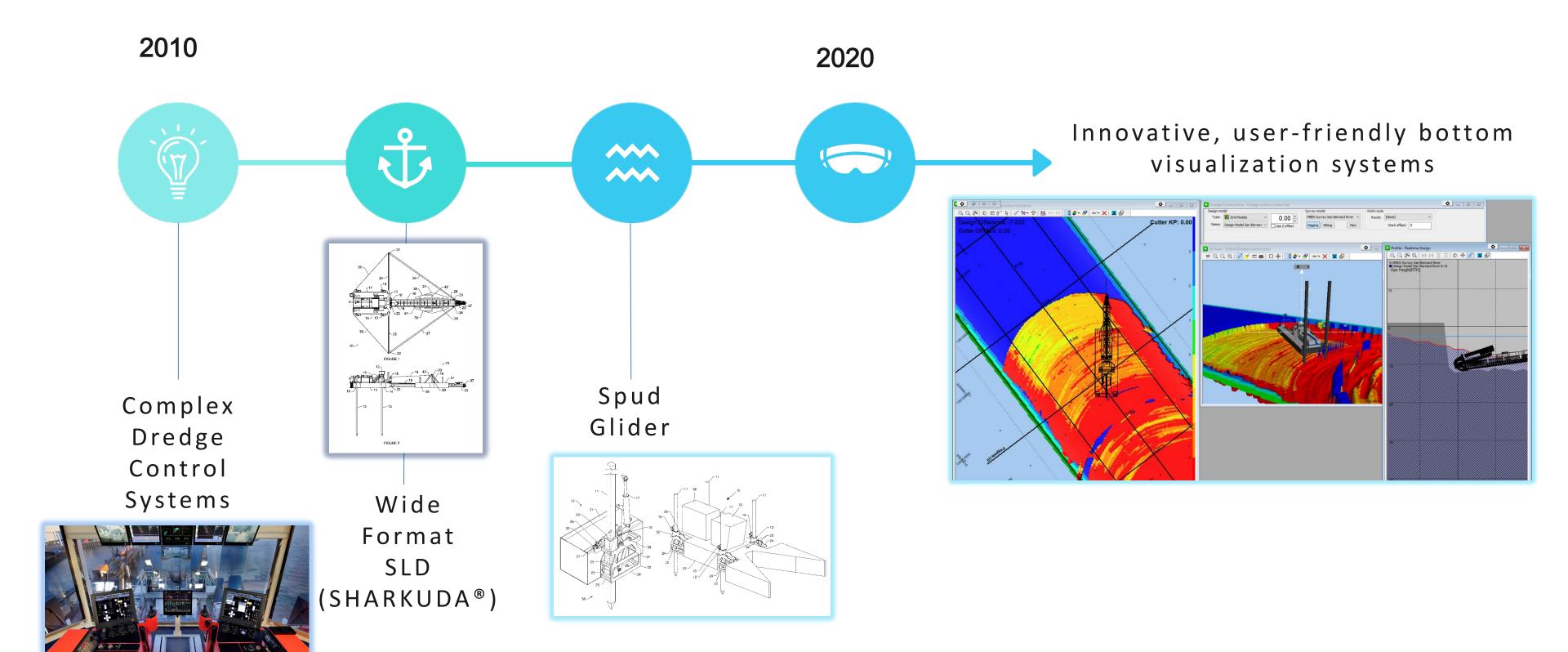












# Merging Technologies



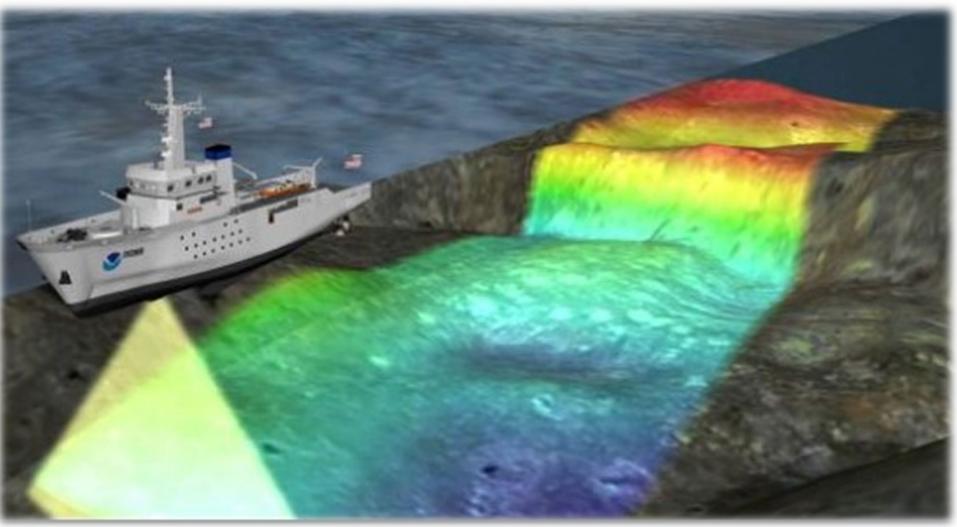




# Merging Technologies to Find New Technologies

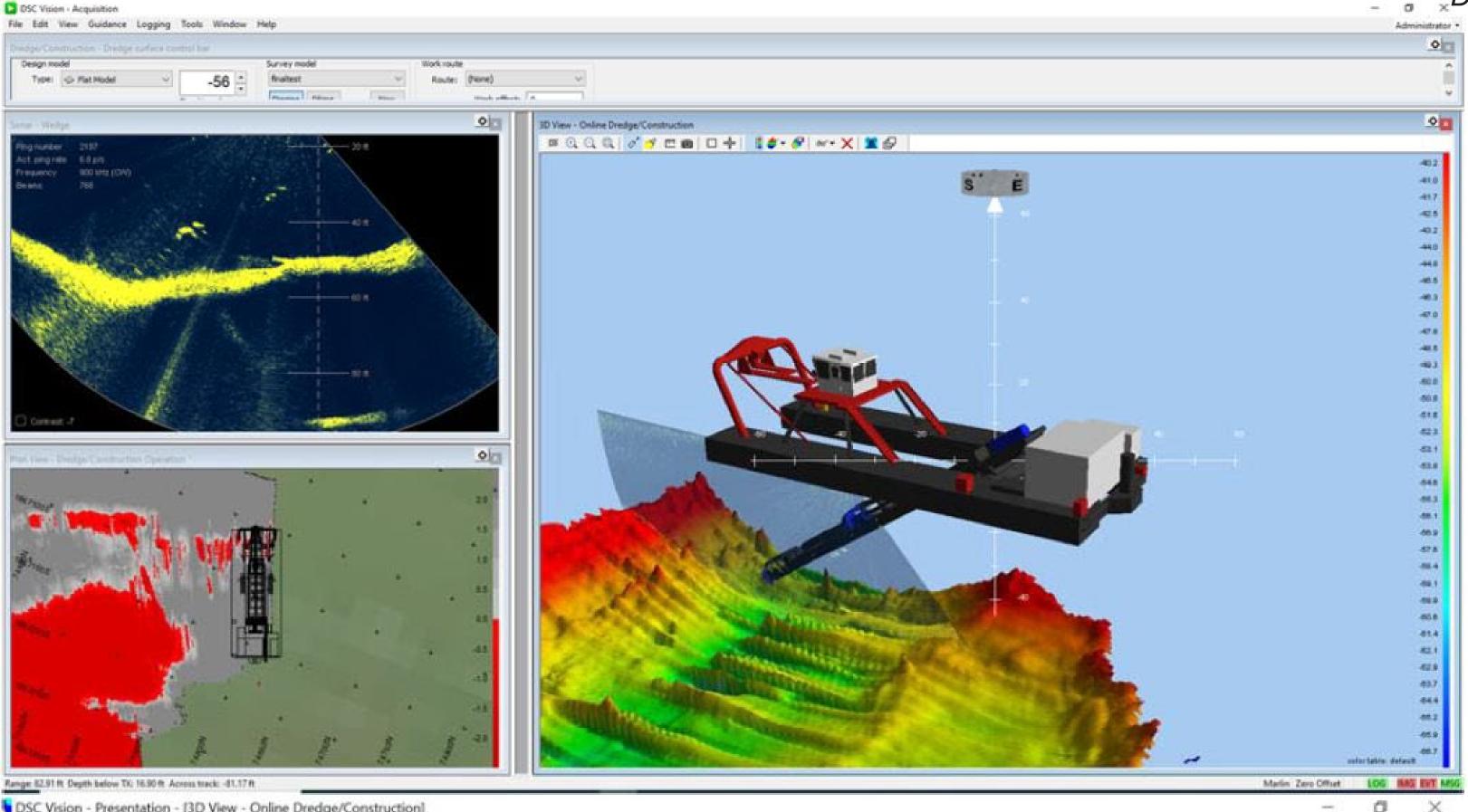






## Merging Technologies to Find New Technologies





### Merging Technologies to Find New Technologies



#### **Multi-beam Sonar**

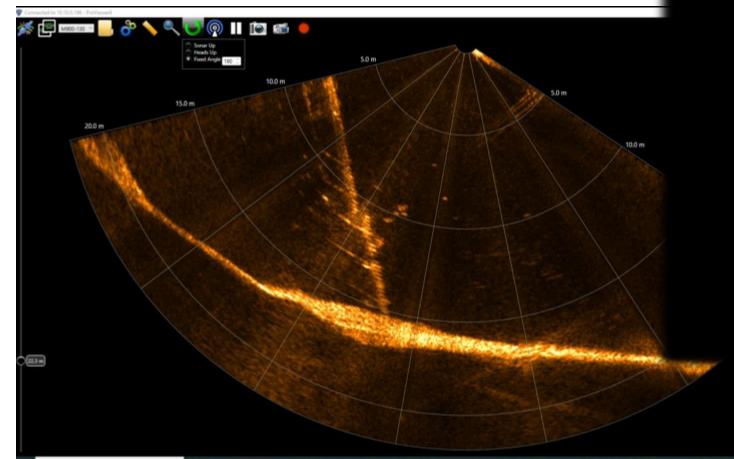
[accurate visibility underwater]

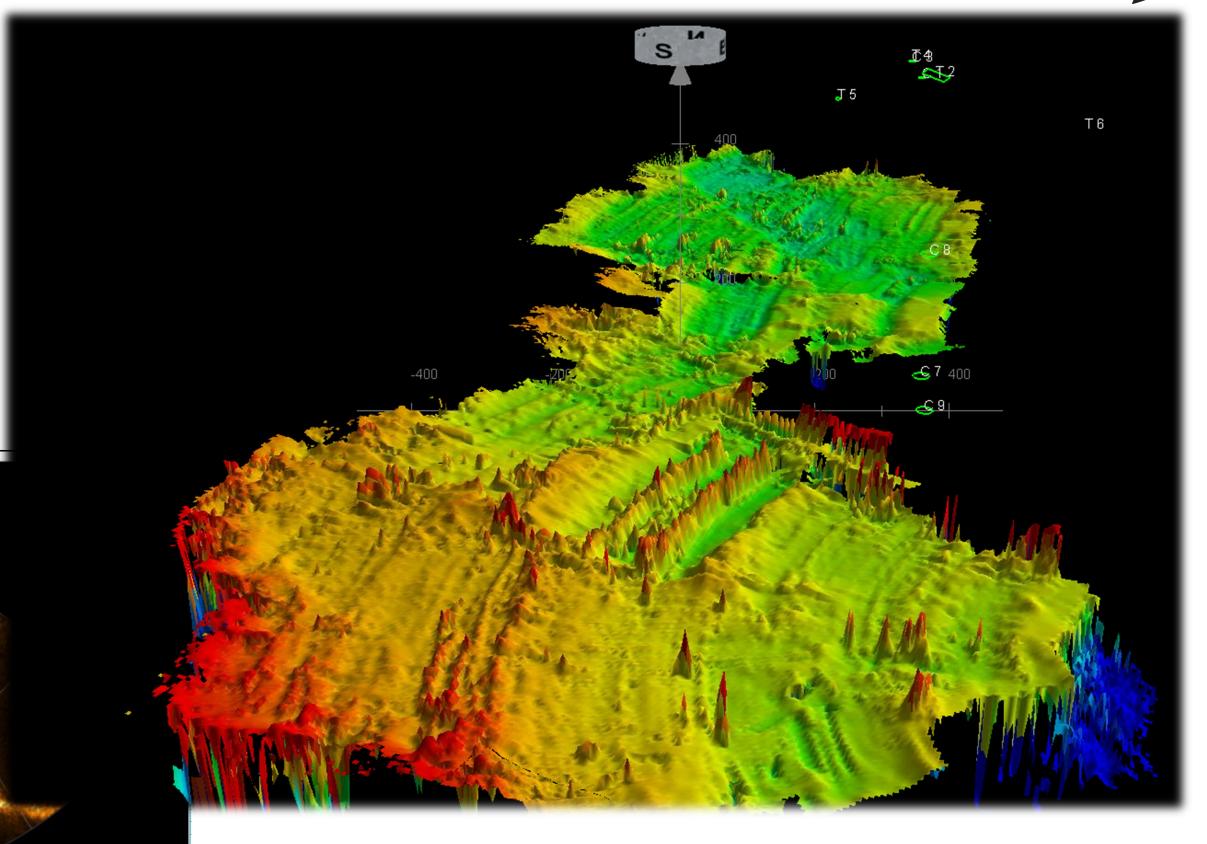
#### **GPS Positioning**

[accurate location]

#### **Remote Connectivity**

[monitoring, data storage]



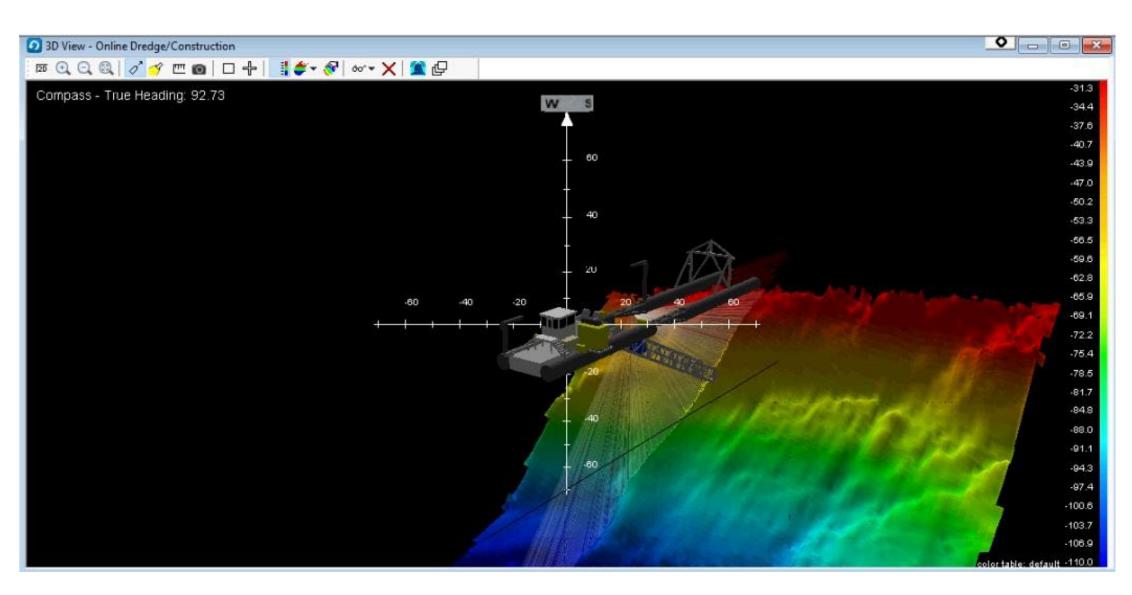


#### The Possibilities



- Serves for pre/post survey
- Accuracy [minimizes over dredging, remobilization to missed areas] \$\$\$
- Efficiency, time reduction, a happy client \$\$\$
- Lessens traffic on the water [safety]
- Lower traffic = lower emissions [environmental]
- R&D to show proof to all stakeholders

Will we adapt or continue to lag behind???





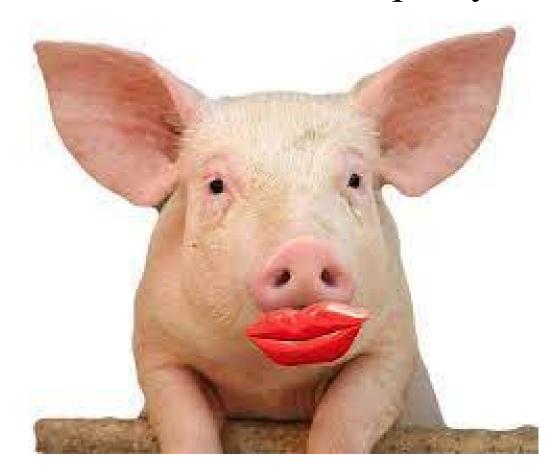


#### To our industry for new investment in equipment and technology

Let's keep investing to avoid......



Making something old and inefficient look new isn't sustainable, or pretty





Thank You!

Questions?



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