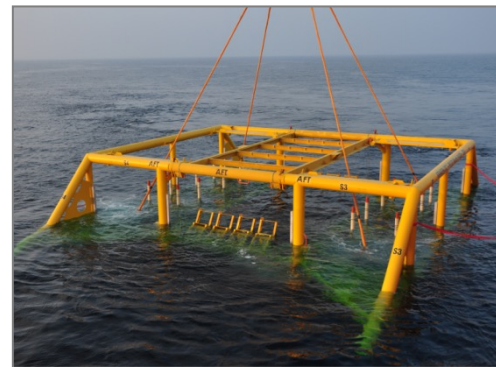


## MWS Past – What has MWS done for the industry?

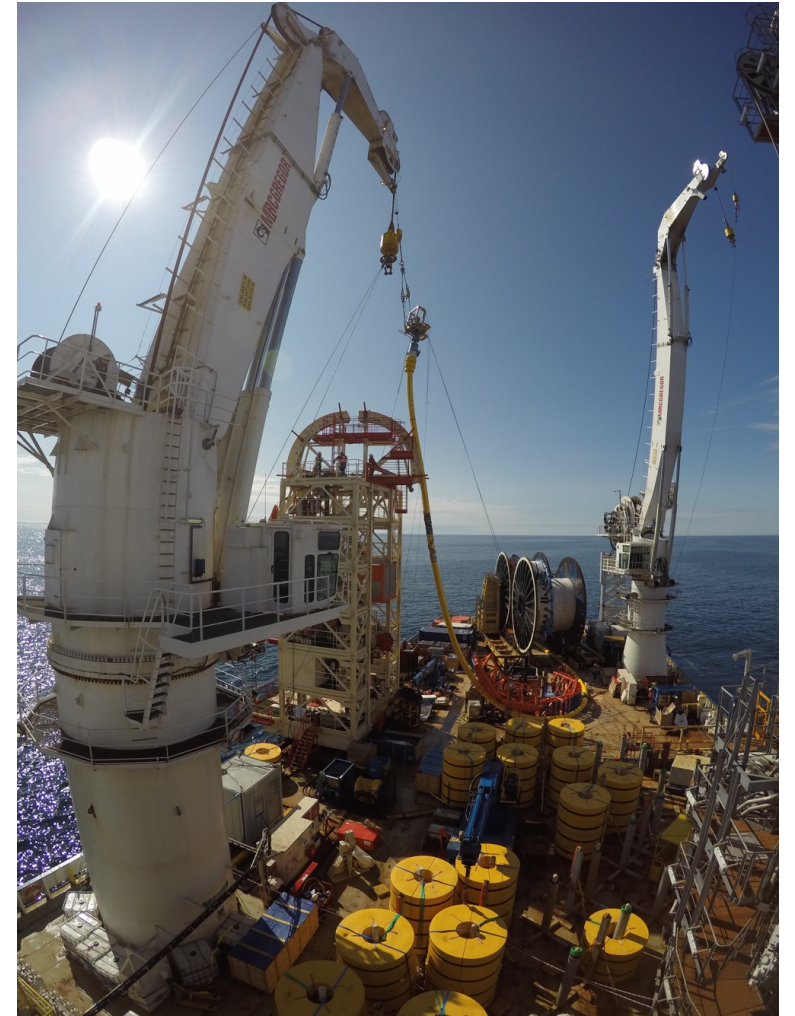
MWS services have been a staple of the Offshore Assurance process for well over 50 years, what lessons have we learned during that time and how do we capture lessons learned to better industry awareness and risk mitigation?



## MWS Origins

The origins of Marine Warranty Surveying (MWS) came about in the 1970's from the offshore industry, arising from operations which were increasing in complexity and cost!

Increased level of governance was required beyond what was being carried out to an extent, by Class Surveyors, where Class provided a basic level of safety compliance, and was not designed specifically for operational execution nor to mitigate project risk.



Heaviest

Harshest

Longest

Shallowest

Complex

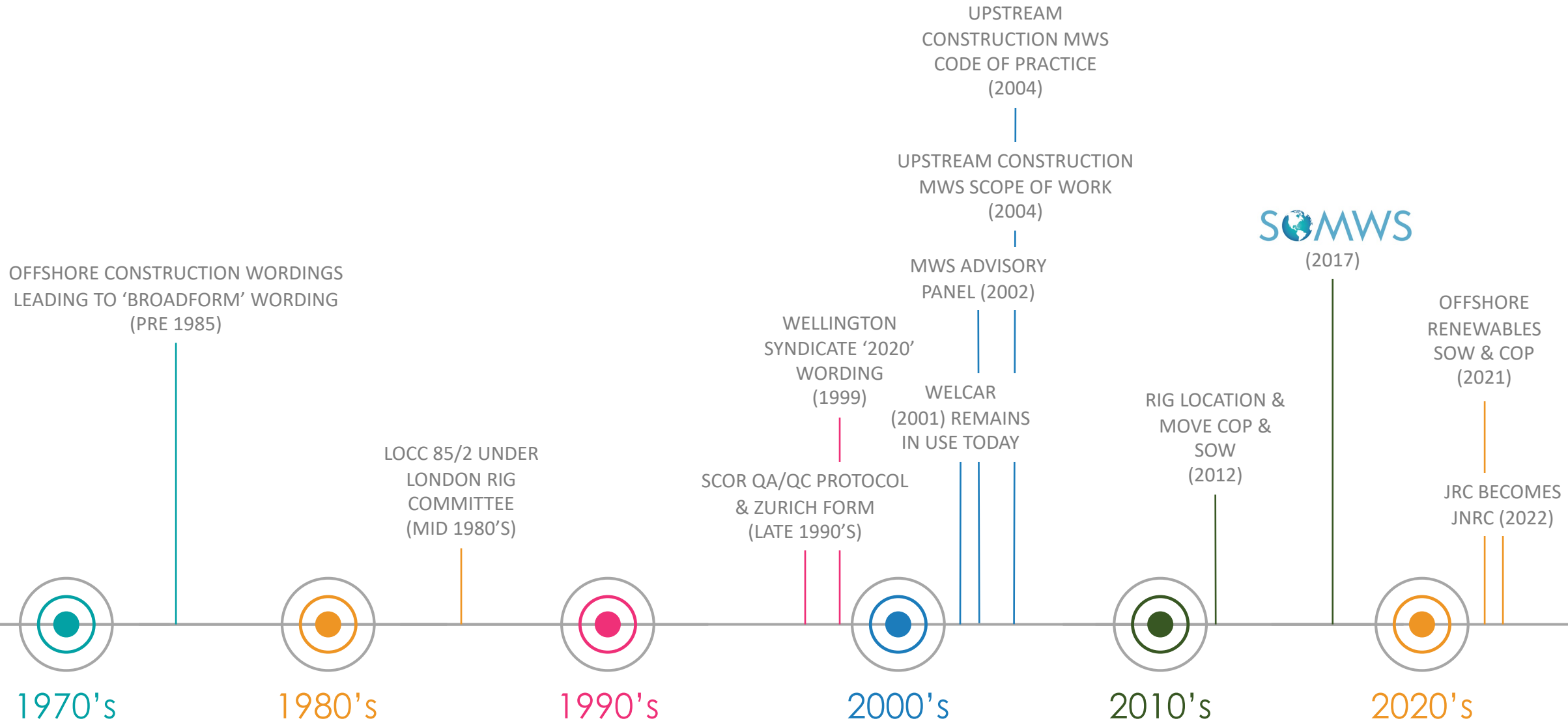
Deepest

50 years of challenging problems and continuous change

# MWS - A Vast Complex Changing Subject Area



# MWS Key Steps



# What have we achieved as an industry to date?



## Reducing Risk

- Clearer scopes of work
- MWS Scrutiny & intervention
- **Construction market adapting**
  - to meet MWS expectations
- Analysis tools & procedures
- Vessel design & capability
- Installation equipment
- Processes and procedures

## Raising MWS Standards

- Technical Standards
- MWS personnel
  - SOMWS etc.
  - Company processes / procedures
  - Industry guidelines (JNRC MWS GP)
- **Wider collaboration within the market, Underwriters, Brokers, MWS and Assureds**
  - Cross-party working groups

## MWS Awareness

- Increased profile within the industry?
- Clearer understanding of the role from industry?
- **Through increased unity and a voice to the market**

But, what are some of the key challenges to date?

CHALLENGES

