

The logo features a stylized blue arrow pointing downwards, with three curved lines below it suggesting motion or buoyancy. The arrow is integrated with the word "Intelli-Riser".

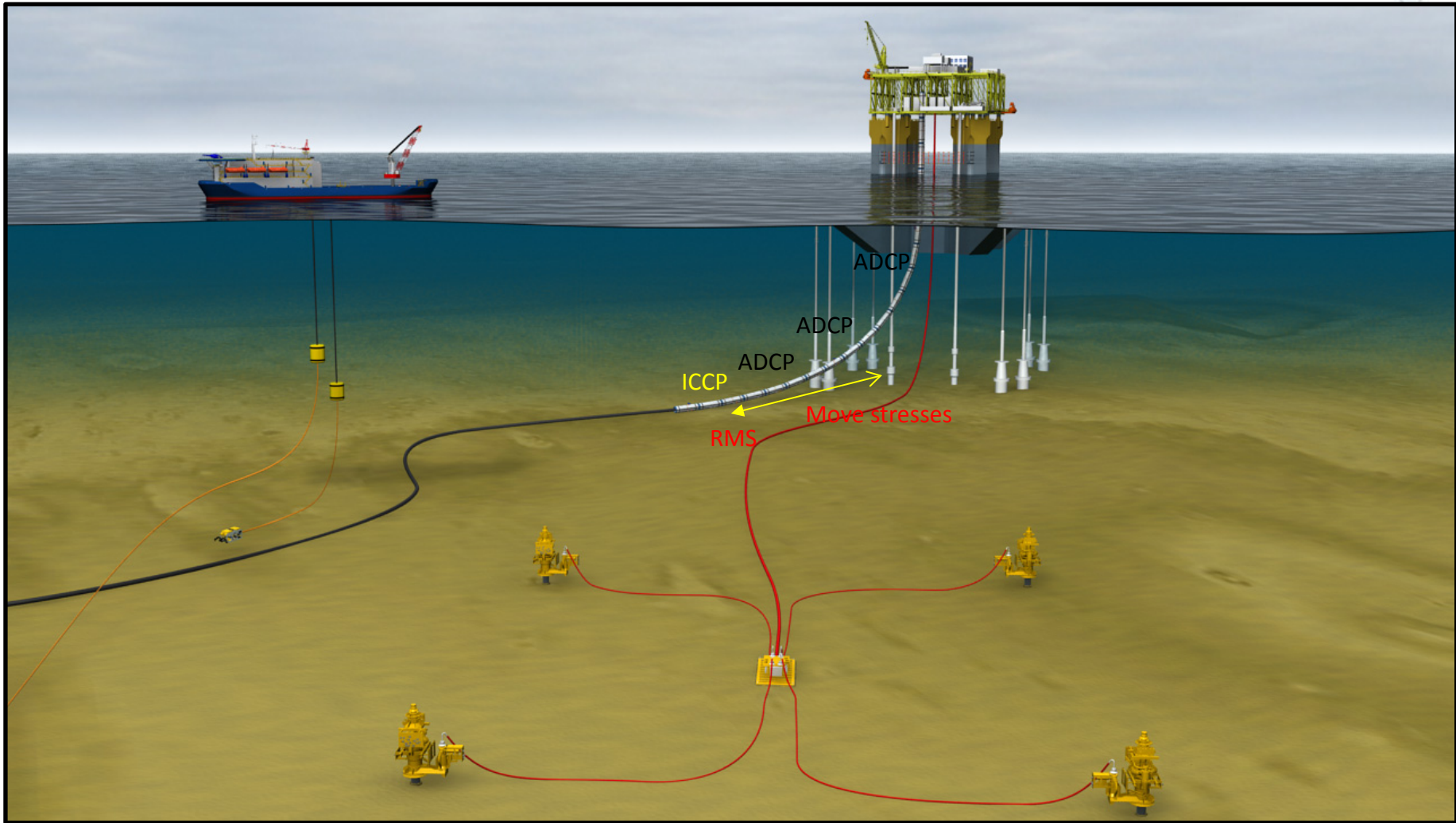
# **Intelli-Riser**

Innovative Deepwater  
Buoyancy Solution

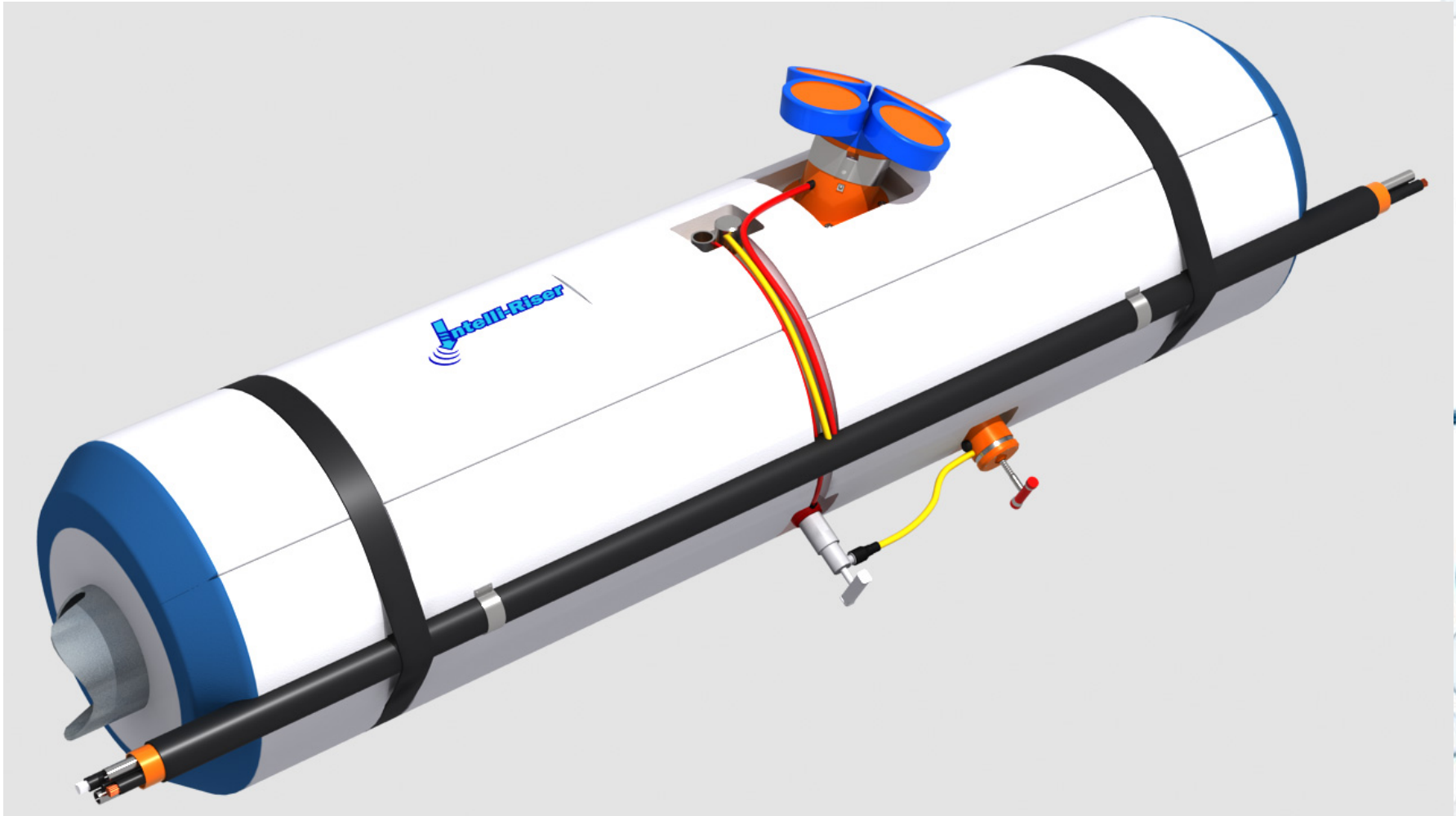
# INTELLIGENT RISER USING CONTINUOUS BUOYANCY

- Relieves Substantial Loading on the Production Vessel resulting increased pay load for production processes
- Continuous Buoyancy provides conduit for Intelligent services
  - Special Buoyant modules with HDPE Rotational molded shell can have chambers for both permanent syntactic foam and void space for air or water. The chambers can be connected and marshalled with metering valves
  - Modules can host electrical and optical cables more easily
- Riser monitoring sensors are built in and replaceable by ROV
- ADCP is built in
- ICCP could be built in – Equivalent to 80 tons of anodes
- Stress points in Riser can be automatically be sensed and adjusted by moving the buoyancy concentrations by moving fluid from the chambers to other areas in the riser
- Increases life of the Riser
- Reduces Installation cost
- Simplifies Subsea Layout and reduces cost and increases reliability

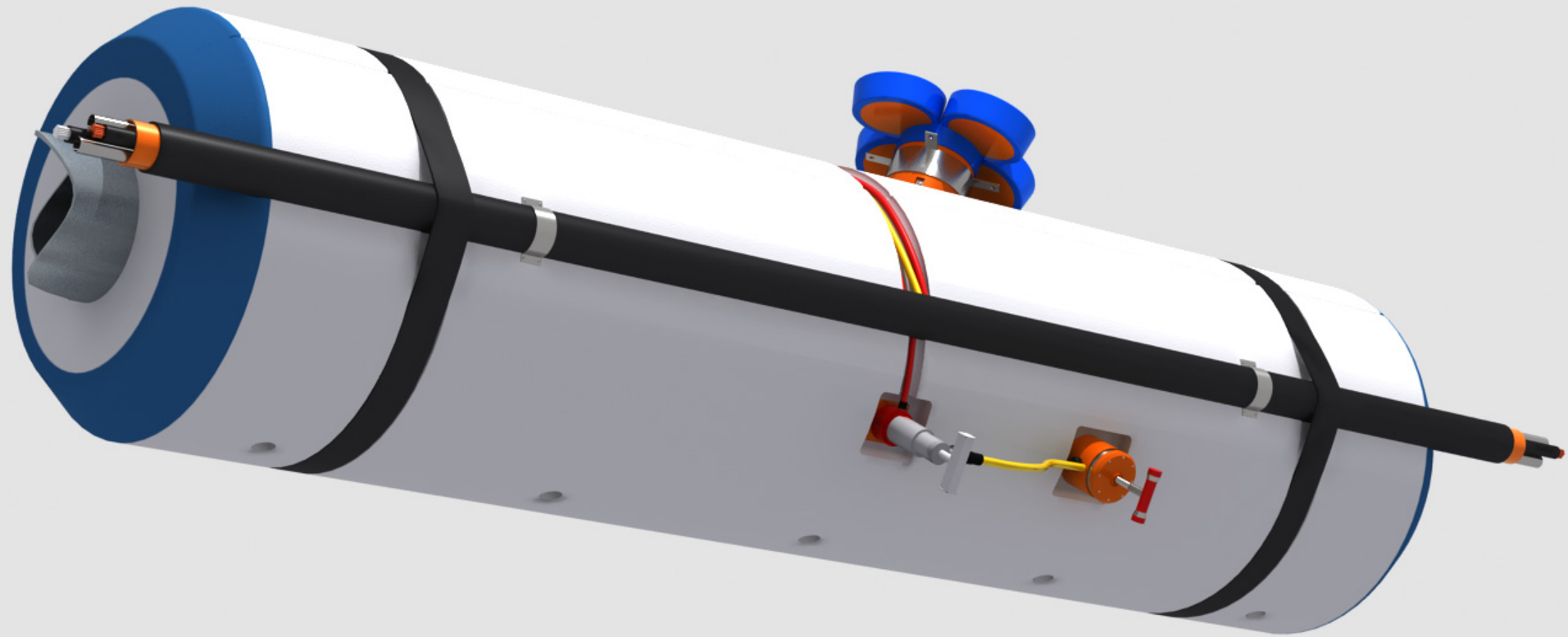
# INTELLIGENT RISER



# Intelligent Riser Module

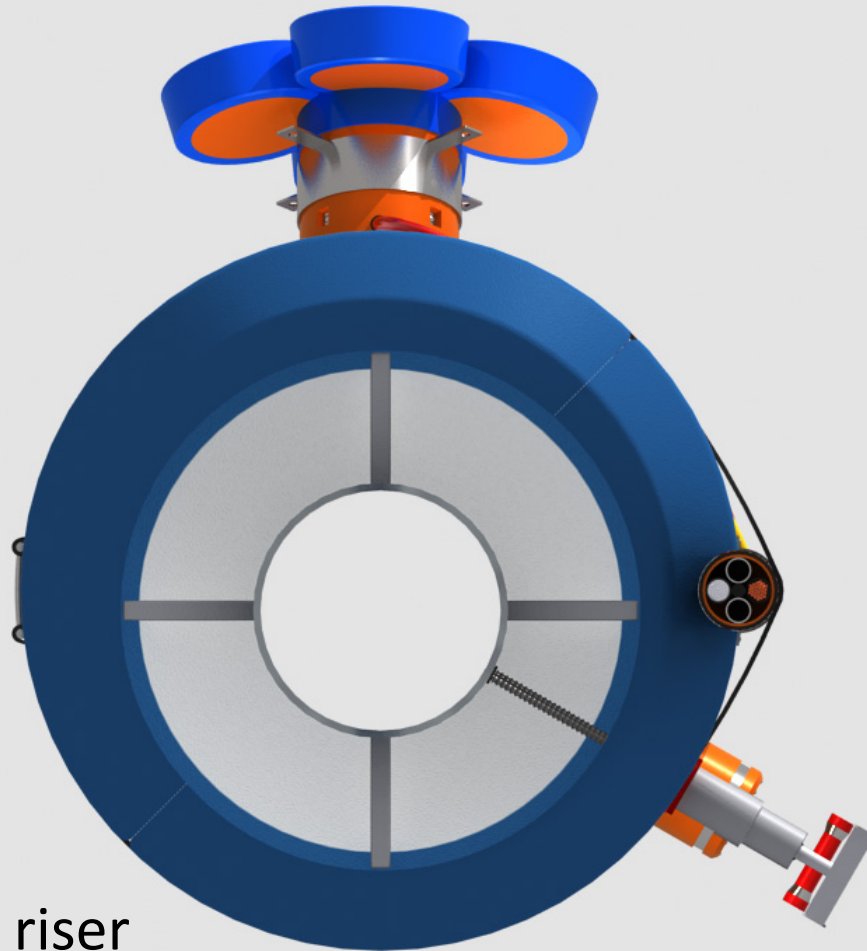


# ADCP and RMS Included





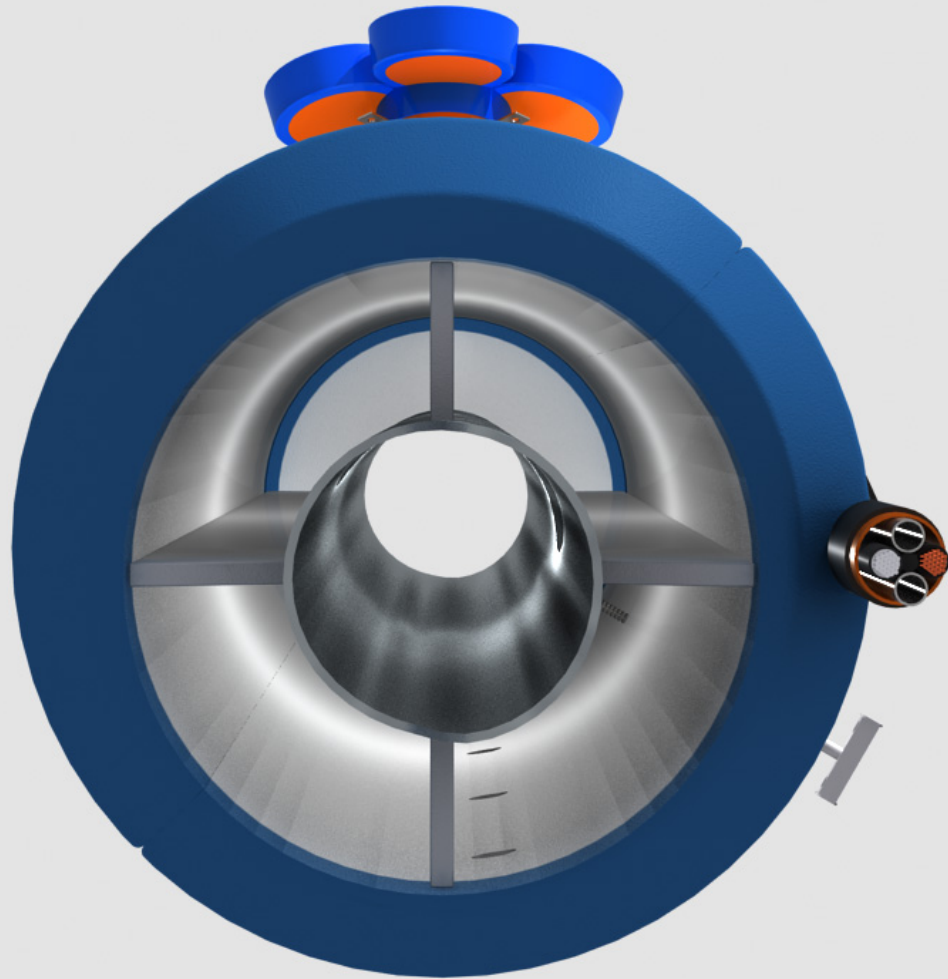
# RMS Sensors are removable



As Shown around 12 riser

- 2,200 lbs per 14' module of Permanent lift = 160 #/ft
- 1960 lbs per 14' module of Variable lift = 140 #/ft

Air is pumped into top forcing out desired amount of water then flooded by venting



# Riser is lightened and carries all Intelligence

