

# A Modular Approach to Subsea Production Controls

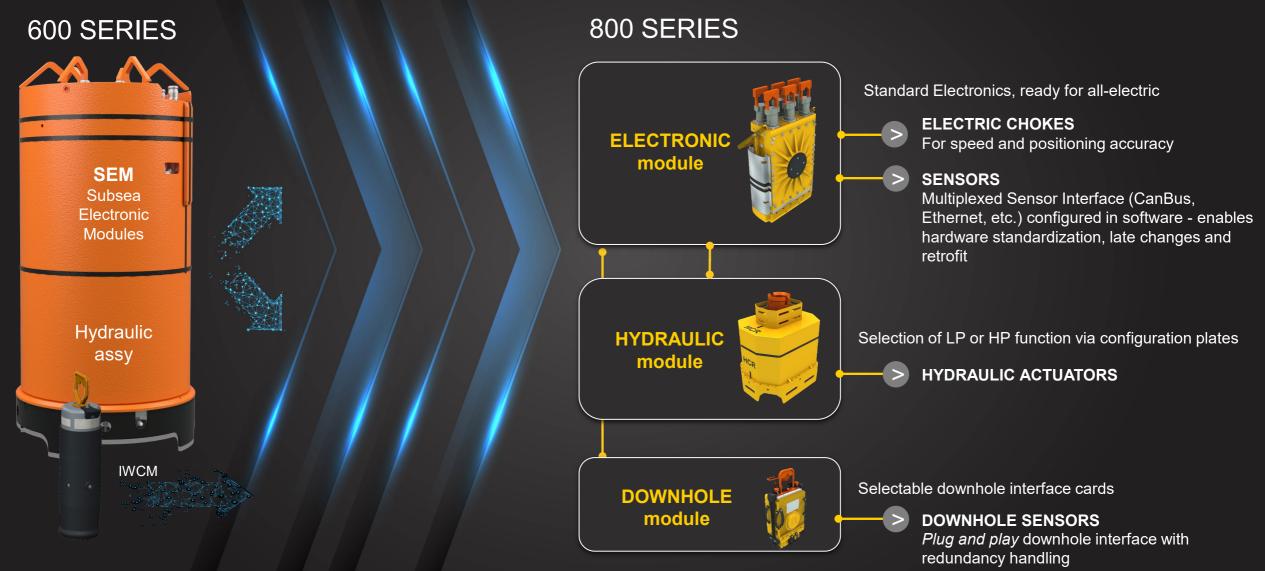
- 800 Series Control System
- Control System building blocks

2022 Subsea Controls Downunder Conference

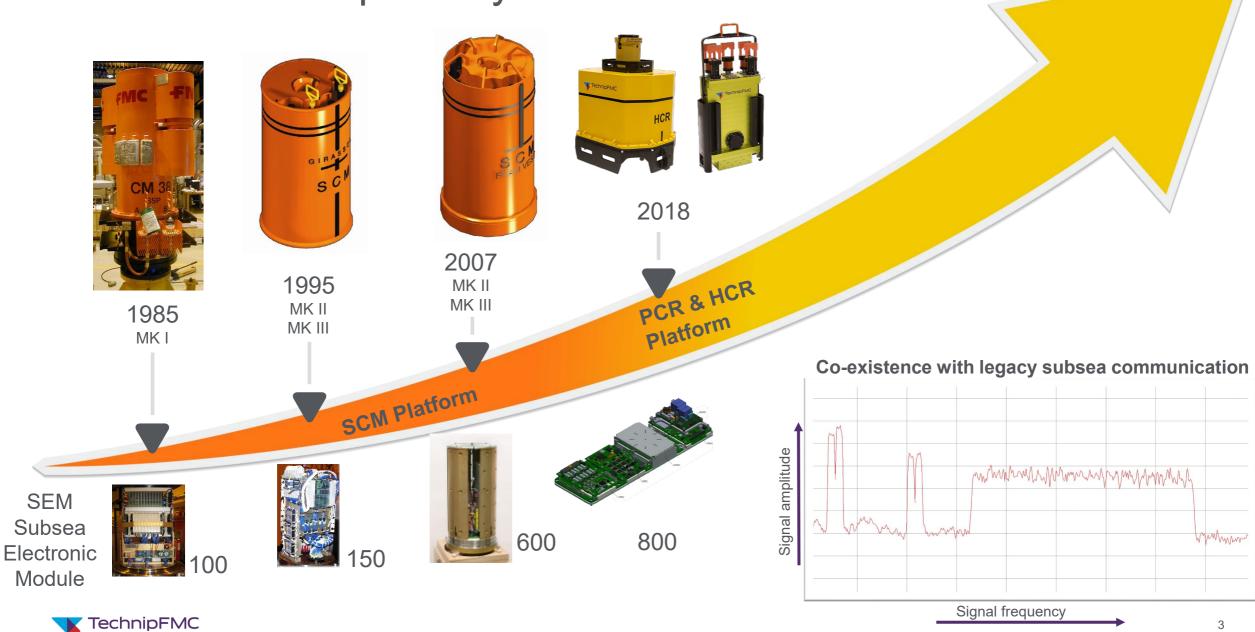
Content by John Løvås



# Modularization of Subsea Control Module



### **Backwards Compatibility**

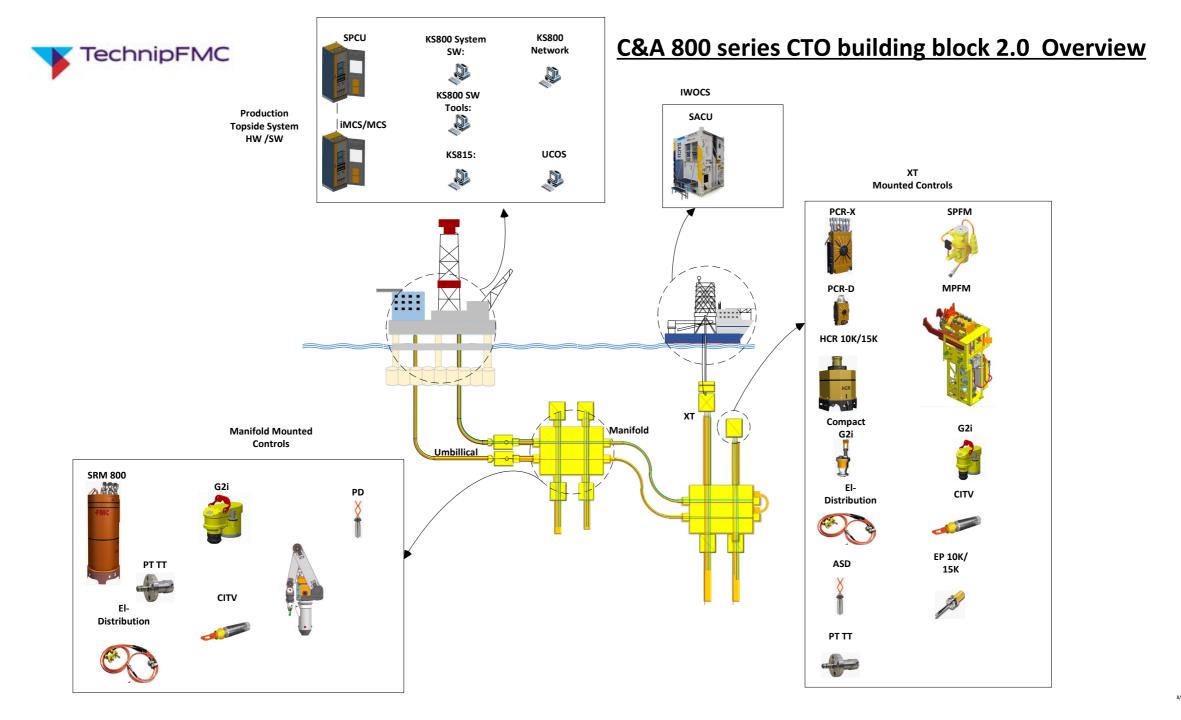


First Tree system installed in June 2020

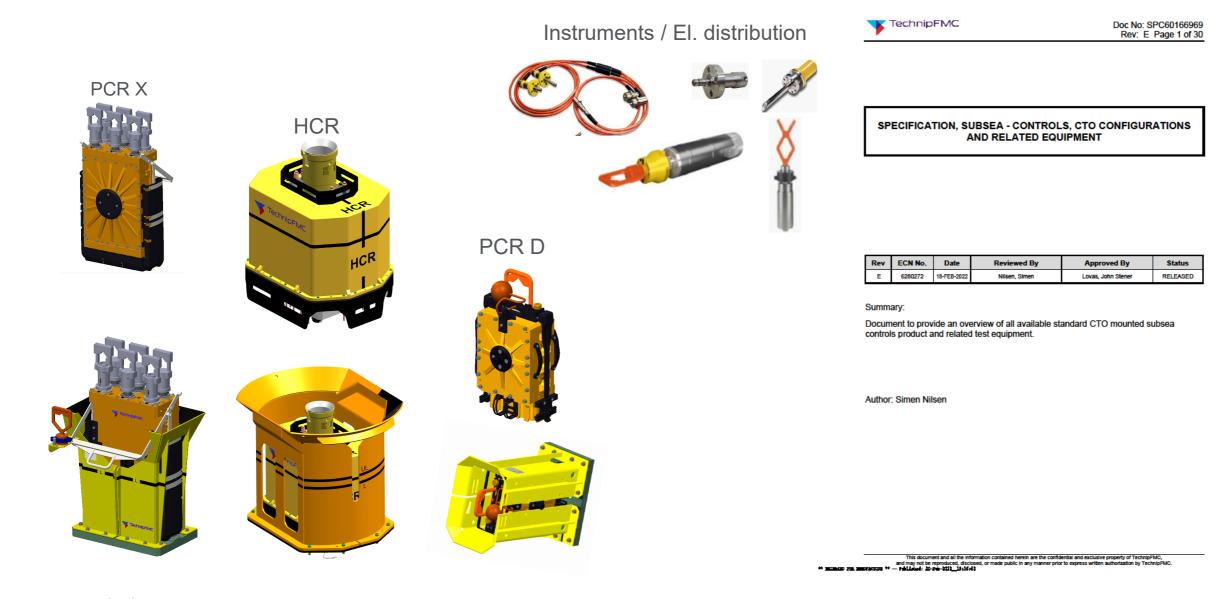
> 54 Delivered 16 installed

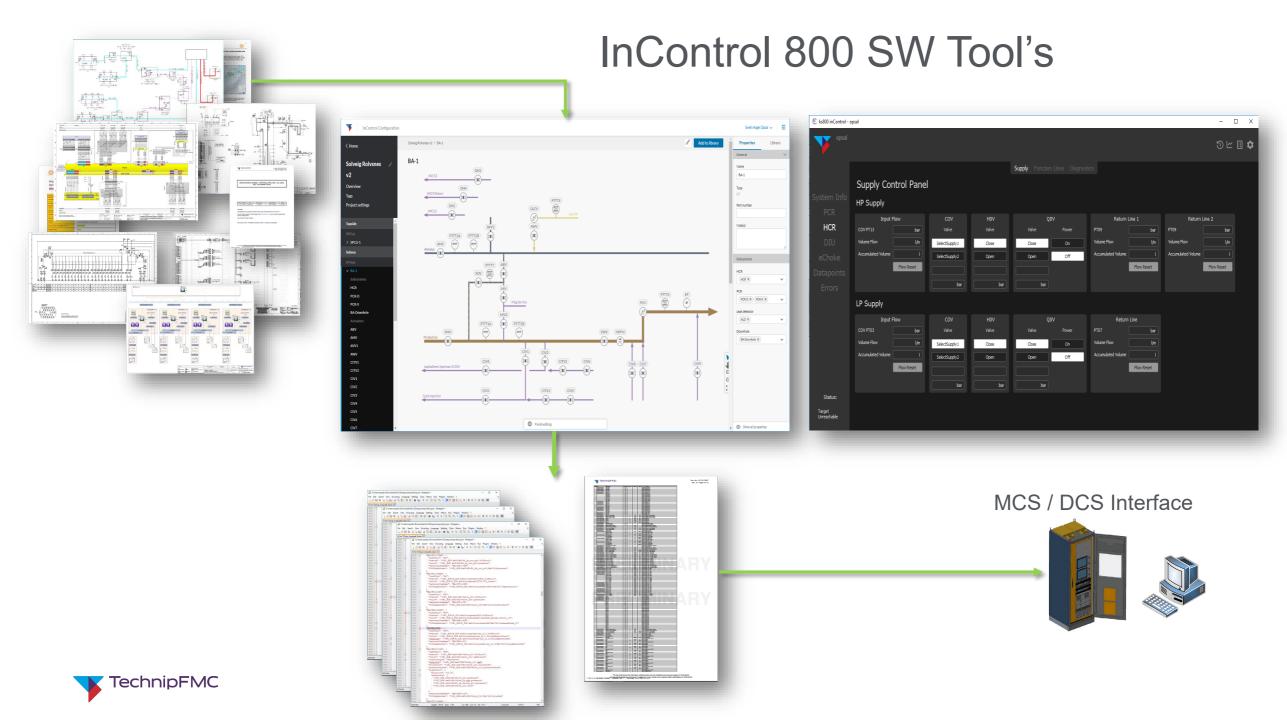
As of September 2022





### CTO SS2.0 800 series Controls Product Catalog





### Main lessons learned during introduction



#### **GREEN & BROWNFIELD APPLICATIONS**

- Successfully introduced into legacy 150 for first application
- Utilizing existing topsides, communication protocols and infrastructure



#### SYSTEM EFFECT

Improved modularity, flexibility and increased functionality results in higher power demand

Active power management via software configuration



#### **PRODUCT INTRODUCTION**

- Moved from software development (tools, libraries etc.) to project configuration
- Software configuration of about 3 weeks duration on latest projects



# Summary

• Backwards compatible options

TechnipFMC



Power & communication
recoverable by ROV





# Questions?



