

# Life Cycle Management of Multi-Function Embedded Systems

A Case Study of the "Inner Loop" in Action

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## What is a Multi-Function System?









**Military** 

**EW** 

**RADAR** 

**COMMs** 

**PNT** 

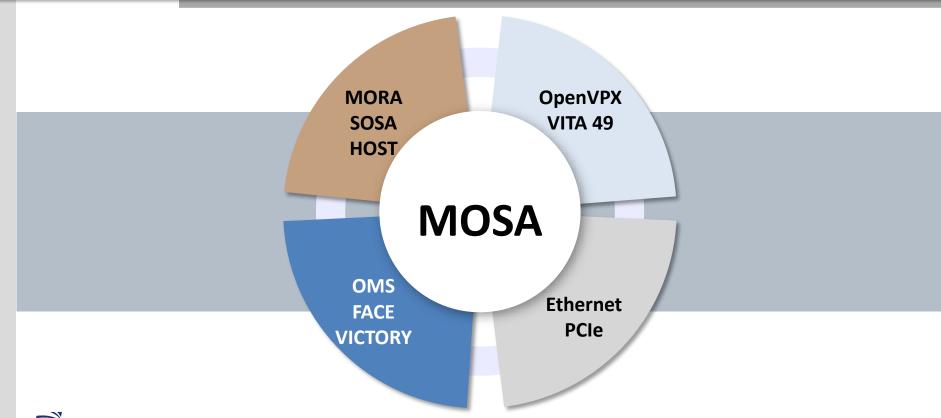
ISR



#### Multi-Function System Lifecycle

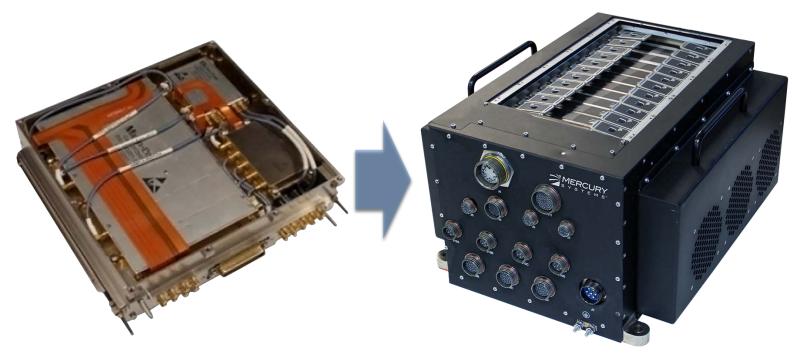


#### OSA Moving in the "Left" Direction?



#### What is the "Inner Loop Cycle"?

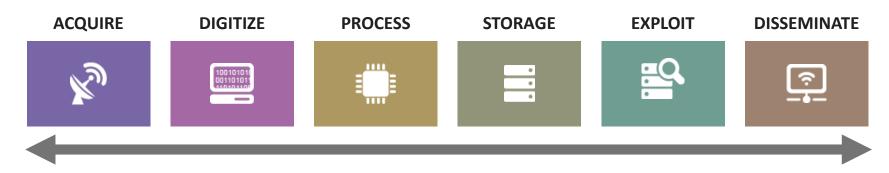
#### Case study of an "Inner Loop Cycle" upgrade





#### Summary

- Move to the left and right along embedded sensor processing chain
- Forward-looking systems engineering is a key element
  - HW, FW & SW Modularity, Interop and portability
  - Systems, module, protocols, middleware & applications



"Inner loop cycle" requirement pushes us to think differently in all dimensions



### Thank you!



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