



**Selex ES**

A Finmeccanica Company

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**...An industry perspective**

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**John Griffin, Director of Innovation, Selex ES**

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*UDRC 2 Launch event, 4 Dec 2013*





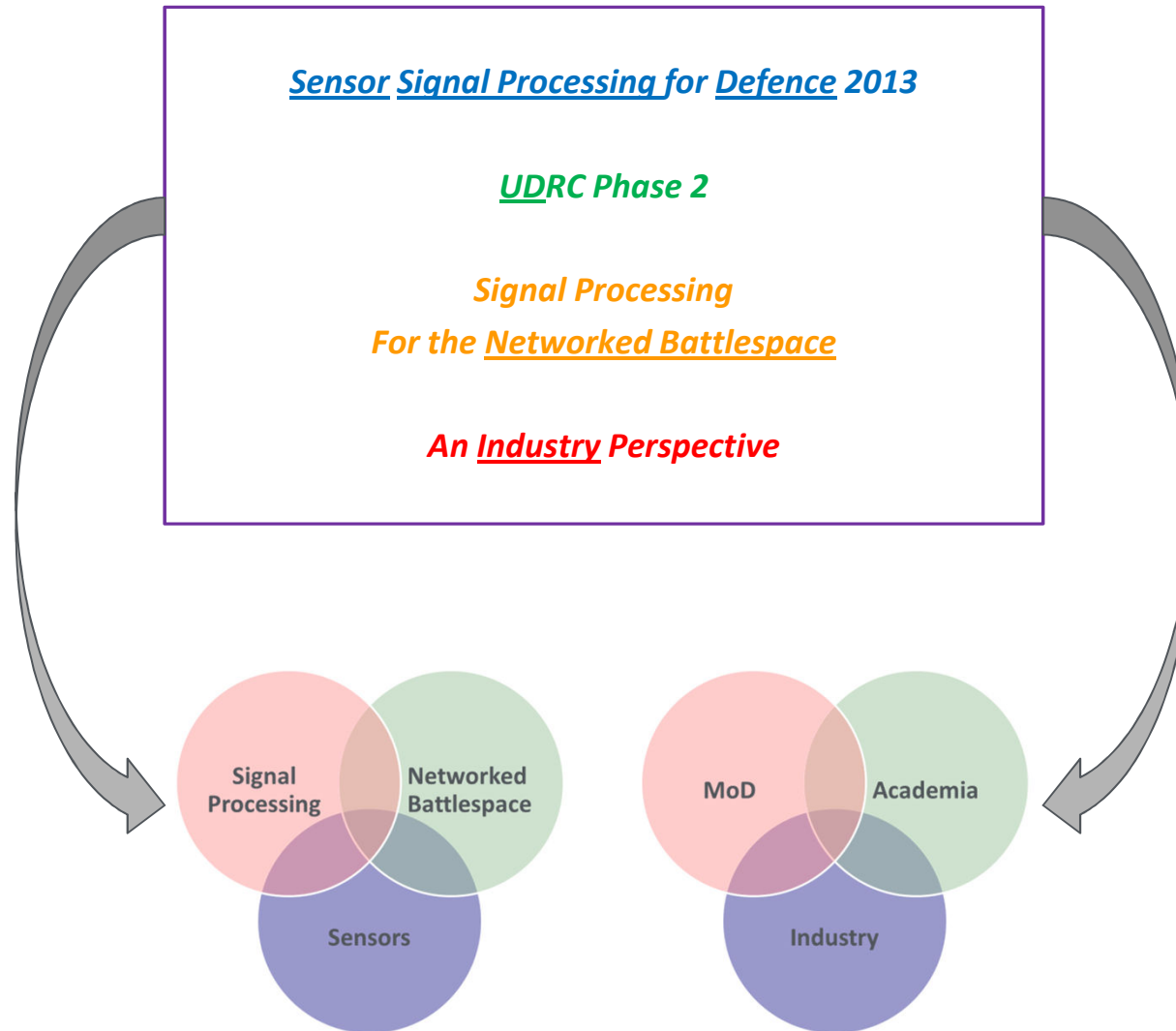
## *Sensor Signal Processing for Defence 2013*

*UDRC Phase 2*

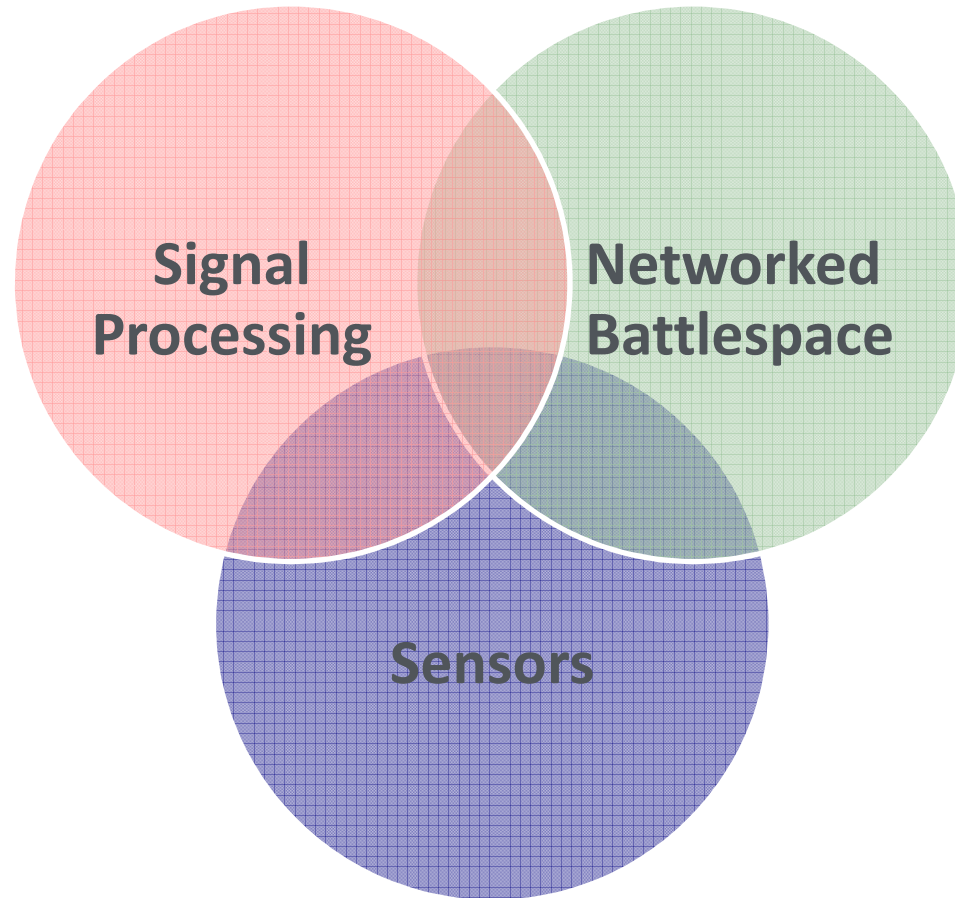
*Signal Processing  
For the Networked Battlespace*

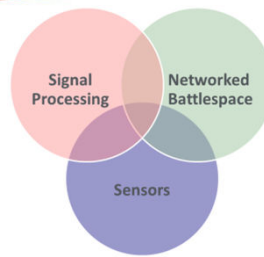
*An Industry Perspective*

## Two different viewpoints: Technology and Collaboration



## The Technical Viewpoint





## Signal Processing

**Broad definition, scope to include data processing, AI etc**

**Real time, sequential,**

**Implementation efficiency**

## Networked Battlespace

**Distributed, interconnected**

**Synchronised**

**Standards**

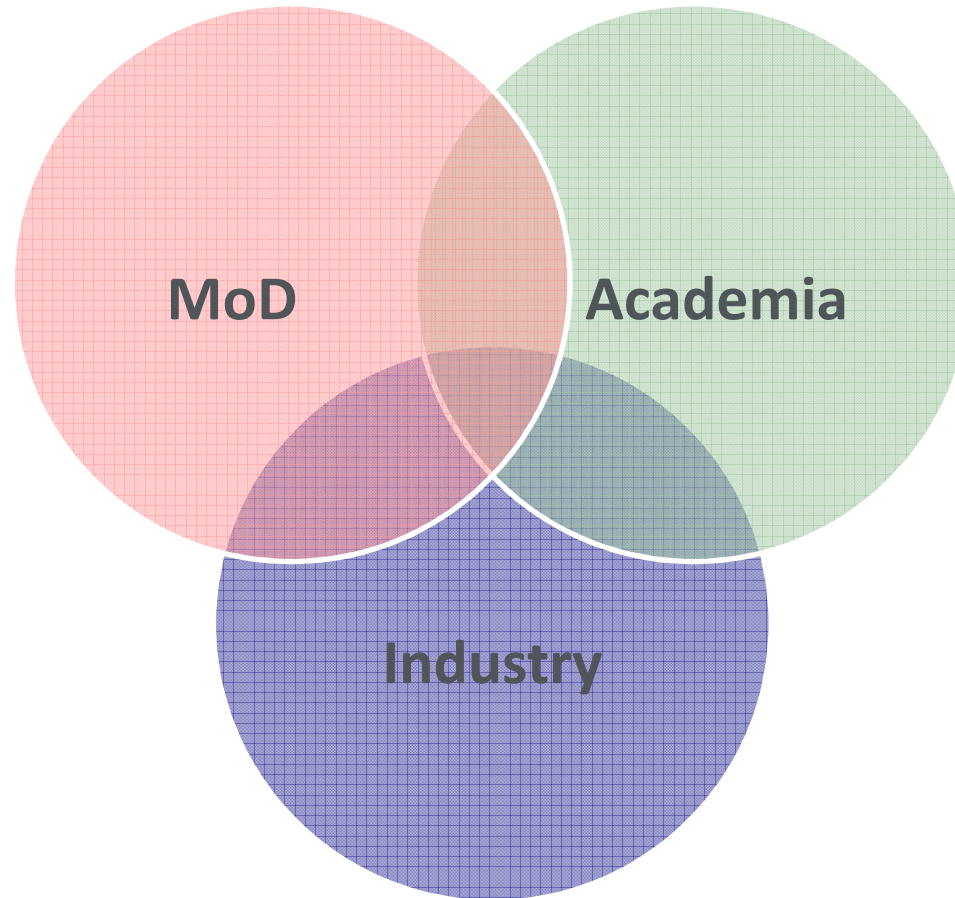
## Sensors

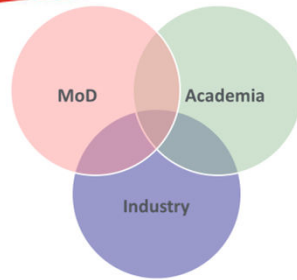
**Platform/system integration**

**Wide variety of sizes, modalities, age, architectures**

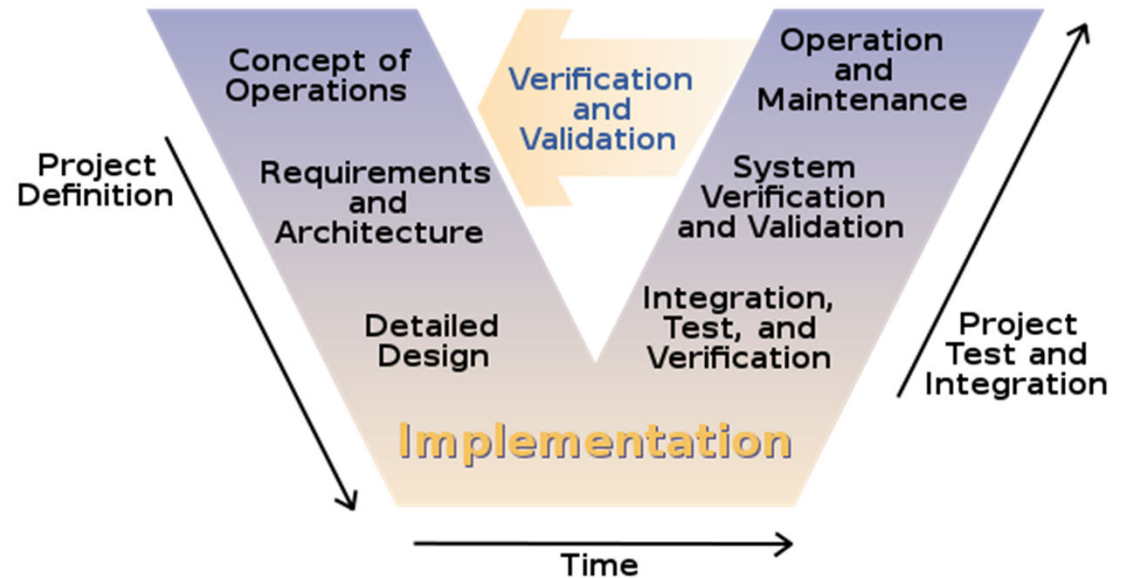
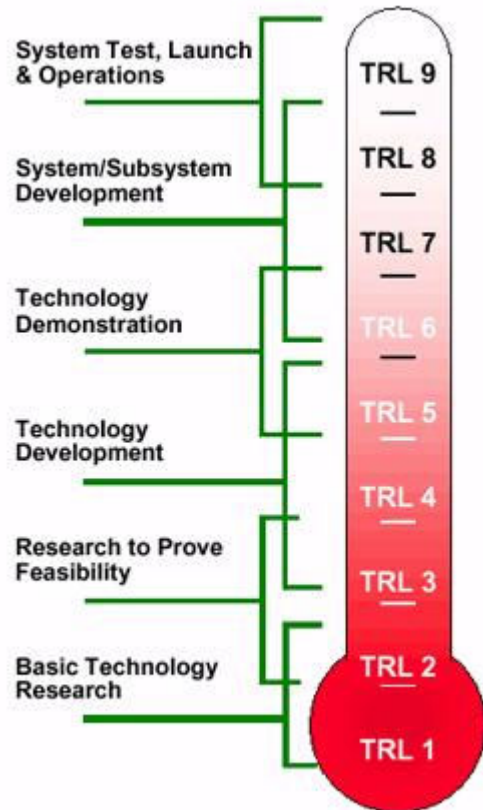
**Limited processing resources**

## The Collaboration Viewpoint





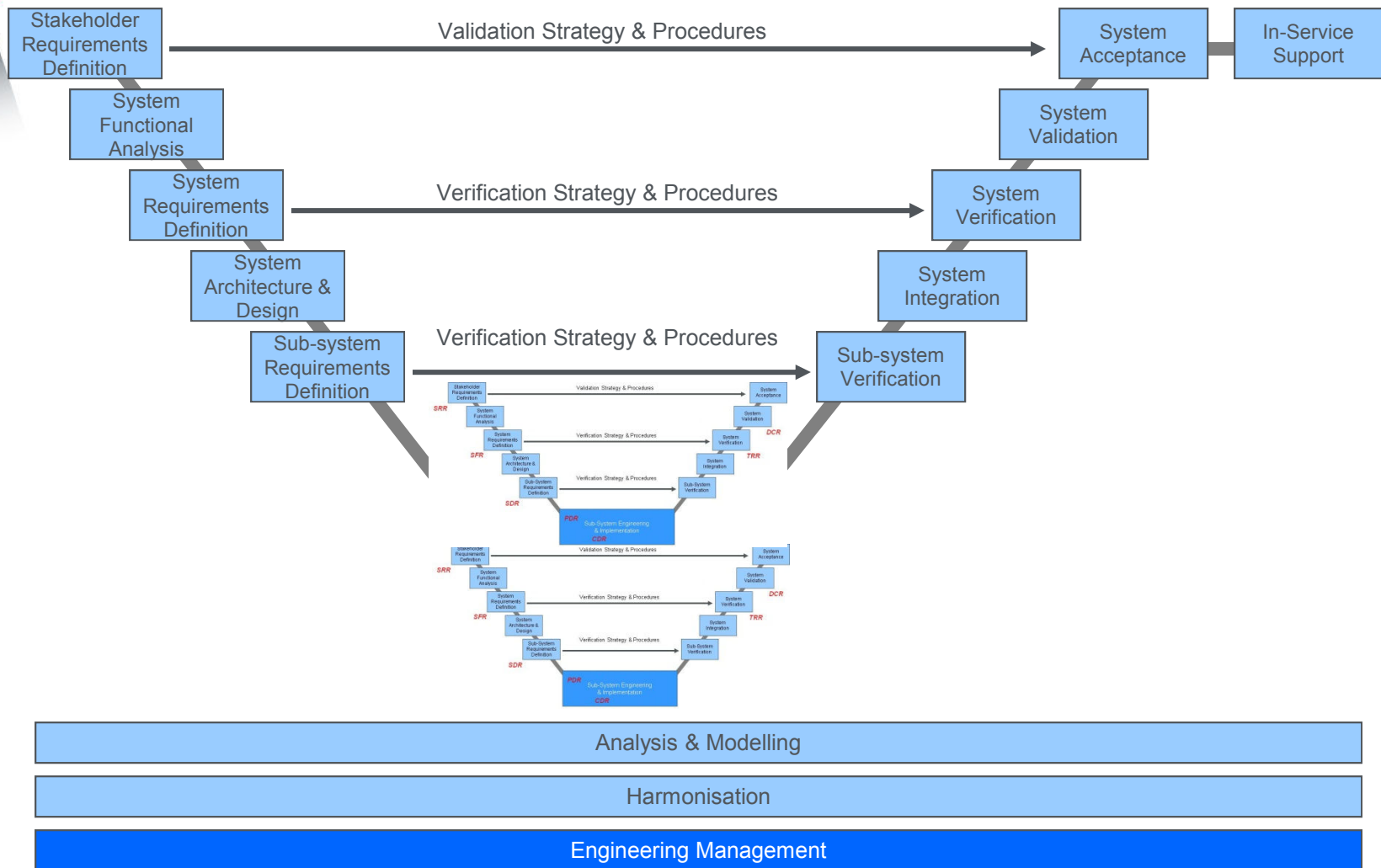
# TRLs and SRLs





# Systems Engineering Process

## Sub-system Engineering



## A few summary points...

- ✦ Look for breakthrough ideas, not just incremental
- ✦ Maintain a focus on education and skills training
- ✦ Consider long term knowledge management
- ✦ Be aware of the specifics of defence industry, e.g.
  - Small volumes, irregular product cycles
  - Wide variety of sensors systems: small, large, distributed, old, new...
  - Long service life: support, maintenance and upgrade
  - Development costs often dominated by system integration and validation
  - Processing platforms are often resource limited: e.g. thermal, memory etc.
- ✦ ..and have fun



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**The End**

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