



INCOSE UK

MBSE Interest Group Meeting

17th September 2019

LEONARDO AIRBORNE & SPACE SYSTEMS, Lincoln



Welcome

- Chairman:
 - Ian Clark

- Host:
 - Philip Jackman
 - LEONARDO AIRBORNE & SPACE SYSTEMS
 - ***Thank you, from the MBSE Interest Group!***



Agenda

- 09:30 – 10:30 **Welcome, Housekeeping & Introductions** – Ian Clark (MBDA)
- 10:30 - 11:00 **Leonardo Overview** – Philip Jackman (Leonardo)
- 11:00 - 12:00 **SysML 2 Update** - Graham Bleakley (IBM)
- 12:00 – 12:30 **Update from IS 2019** – Stephen Powley (Coventry University)
- 12:30 – 13:30 Lunch
- 13:30 – 14:30 **MBSE template for Spacecraft Functional Avionics** – Joe Gregory (University of Bristol)
- 14:30 – 15:30 **The Enterprise as a SoS, Architecture Framework** – Bruce McNaughton (Change Aide)
- 15:30 – 16:00 AOB & Close



Housekeeping

- Fire Alarm – no test planned today
- Toilets

Introductions

Name	Company
Mr Philip Wilson	BAE SYSTEMS Surface Ships
Mr Bruce McNaughton	Change Aide
Mr Stephen Powley	Coventry University
Mr Glynn Beeken	Expleo
Dr Graham Bleakley	IBM
Mr Steve Rooks	IBM UK
Mr Philip Jackman	Jackman Consulting Limited
Mr Ian Clark	MBDA
Mr Daiunius Jakas	No Magic Europe
Mr Jon Cashmore	OCADO
Mr Neil Burt	Qinetiq
Mr James Towers	Scarecrow Consultants
Mr Joe Gregory	University of Bristol



Work Streams Summary

Work Stream	Lead	Status
MBSE and BIM - Understand the similarities, differences and relationship (if any) between Model Based Systems Engineering and Building Information Modelling	James Towers (Scarecrow)	Active: Maintaining the stream, identifying and engaging with interested parties to confirm next steps.
MBSE Patterns - Identification and production of 'Enabling' Patterns.	Simon Perry (Scarecrow)	Active: Work underway finalising an 'Evaluation Pattern'. (Stephen Powley)
MBSE Competencies - Ensure INCOSE Competency Framework covers skills required for MBSE.	Andrew Pemberton (Thales)	Early work contributed to ASEC 18 Paper: <i>Taking your own advice: using MBSE to implement MBSE in a larger business.</i> Joe Silmon, Thales.
MBSE Value - Investigation into the 'value proposition' of MBSE.	Andrew Pemberton (Thales)	Early work contributed to ASEC 18 Paper: <i>Taking your own advice: using MBSE to implement MBSE in a larger business.</i> Joe Silmon, Thales.
MBSE and MDA - Relationship, MBSE to the OMG Model Driven Architecture (MDA)	Future	Potential
MBSE and PLM - Investigation into the similarities, differences and overlaps MBSE and PLM.	Future	Potential
MBSE Survey - Run a survey on MBSE adoption in the UK and contrast with previous results.	Future	Potential



Work Streams Outputs

Output(s)	Work Stream	Location
<u>Certification Pattern V1.1</u>	<u>MBSE Patterns</u>	<u>INCOSE UK MBSE Wiki</u>
<u>Evidence Pattern V1.0</u>	<u>MBSE Patterns</u>	<u>INCOSE UK MBSE Wiki</u>
<u>MBSE Definitions</u>	<u>Definitions</u>	<u>INCOSE UK MBSE Wiki</u>
<u>MBSE Language Catalogue</u>	<u>Languages, Methodologies and Tools</u>	<u>INCOSE UK MBSE Wiki</u>
<u>MBSE Adoption Guide</u>	<u>MBSE Adoption</u>	<u>INCOSE UK MBSE Wiki</u>
<u>MBSE Tools Catalogue</u>	<u>Languages, Methodologies and Tools</u>	<u>INCOSE UK MBSE Wiki</u>
<u>Traceability Pattern V1.0</u>	<u>MBSE Patterns</u>	<u>INCOSE UK MBSE Wiki</u>
<u>Z9 Guide v2.0 What is MBSE</u>	<u>Z9 Guide</u>	<u>INCOSE UK Publications</u>

INCOSE Publications: Guides

- [Z1 – What is Systems Engineering](#)
- [Z2 – Enabling Systems Engineering](#)
- [Z3 – How Systems Engineering Can Save Your Business Money](#)
- [Z4 – SSM – Soft Systems Methodology](#)
- [Z5 – Lean Systems Engineering](#)
- [Z6 – Systems Engineering Competency Framework](#)
- [Z7 – What is Systems Thinking](#)
- [Z8 – System Architecture](#)
- [Z9 – What is Model Based Systems Engineering](#)
- Z10 – (What is Continuing Professional Development (CPD)?) – superseded by U3
- [Z11 – Project Management and Systems Engineering](#)
- [Z12 – Human Factors for Systems Engineers](#)
- [Z13 – Systems Engineering and Project Management – Ten Top Tips](#)

- [U1 – What is Systems Engineering certification through INCOSE UK?](#)
- U2 – (What is professional registration through INCOSE UK?) – unavailable (TBC-W)
- [U3 – What is Continuing Professional Development \(CPD\)?](#)



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Thank you again to

Phil &

LEONARDO AIRBORNE & SPACE SYSTEMS