



# System of Systems

www.incose.org/IW2020







### **MEMBERS**

25 core members with 35+ at IW and IS meetings

### **CO-CHAIRS**

Judith Dahmann (jdahmann@mitre.org) Alan Harding (alanharding@gmail.com)

### **INCOSE CONNECT ADDRESS**



https://connect.incose.org/Worki ngGroups/SystemofSystems/Pag es/Home.aspx

### **INCOSE WEB PAGE**



https://www.incose.org/incose-m ember-resources/working-group s/analytic/system-of-systems



## **Charter Summary**



#### WG PURPOSE/MISSION

The purpose of the working group is to advance and promote the application of Systems Engineering to Systems of Systems (SoS), often referred to as SoS Engineering (SoSE).

### WG GOAL(S)

- Understand and share what we mean by SoS in our various contexts
- Develop guidance and advice
- Inform and up-skill practitioners
- Exert influence on BKCASE, Standards, SE Vision 2035 etc.
- Develop the practice of SE for SoS.
- Work in partnership with other groups addressing aspects of SoS (e.g. INCOSE WGs, IEEE, NDIA).
- Understanding and applying insights from relevant research

#### WG SCOPE

This WG addresses the application of Systems Engineering to all types of Systems of Systems (SoS) in all domains. We see diversity as particularly important in this knowledge area, as do the WG members.

### **IW Outcomes**





#### **IW Outcomes**

**Review of Ongoing Activities** 

- SEBoK
- Webinars
- SoS Standards Quick Reference Guide
- Ontology
- SoS at INCOSE EMEA Workshop 2019
- Update on FuSE Collaborations
- Collaborations

#### Plan for next steps

- SoS Standards Quick Reference Guide
- Collaboration with Complexity Working Group
- SoS Case Studies



## Planned Work past IW



#### **PLANNED ACTIVITIES**

Initiate cooperative activity with Complexity Working Group to apply complexity characteristics (from 2019 Complexity paper( and potential solutions (from the Complexity Primer) to systems of systems

Complete Standards Quick Reference Guide for release at IS 2020

Initiate discussion of digital approach to systems of systems engineering

Initiate discussion Coordinate with the Configuration Management Working Group on CM of SoS

### PLANNED WORK PRODUCTS

SoS Standards Quick Reference Guide