



2022
Annual **INCOSE**
international workshop
HYBRID EVENT
Torrance, CA, USA
Jan 29 - Feb 1, 2022

Infrastructure

www.incose.org/IW2022

Infrastructure



2022
Annual **INCOSE**
international workshop
HYBRID EVENT
Torrance, CA, USA
Jan 29 - Feb 1, 2022

CHAIR

Alain Kouassi (alain.kouassi@parsons.com)

MEMBERS

80

CO-CHAIRS

Marcel van de Ven (mtfmvandeven@gmail.com)

Laura Uden (laura@nsieng.com)

INCOSE CONNECT ADDRESS



<https://connect.incose.org/WorkingGroups/Infrastructure/Pages/Home.aspx>

INCOSE WEB PAGE



<http://www.incose.org/practice/techactivities/wg/infrastructure>

Charter Summary



2022
Annual **INCOSE**
international workshop
HYBRID EVENT
Torrance, CA, USA
Jan 29 - Feb 1, 2022

WG PURPOSE/MISSION

The Infrastructure Working Group Charter is to bring together designers, builders, operators and owners of economic and physical infrastructure systems to advance the application of systems engineering.

This Working Group aligns with the strategic aim of INCOSE to advance the application of systems engineering outside its core aerospace and defense domain.

WG GOAL(S)

- Lead the international outreach to public and private organizations involved in infrastructure delivery and operations.
- Develop products to capture systems engineering best practices tailored to the infrastructure domain.
- Share best practices within the Working Group and other other Working Groups.

Specific initiatives include:

- Webinars - in collaboration with other Working Groups such as Automotive and Transportation Working Groups - Short Term
- Products - Continue the development of tri-fold series - Short term
- Products - A Guide to the Application of Systems Engineering in Large Infrastructure Projects (Version 2.0 under development) - Mid Term
- Collaboration with International Organizations to promote the INCOSE brand and joint products development - Mid Term
- Products - An MBSE application to an infrastructure project - Long Term
- Bring Construction Companies and Agencies into INCOSE - Long Term

Charter Summary



2022
Annual **INCOSE**
international workshop
HYBRID EVENT
Torrance, CA, USA
Jan 29 - Feb 1, 2022

WG SCOPE

This Working Group will address mostly physical infrastructure issues with a concentration on the construction of infrastructure facilities in the energy, transportation and, and communications domains. This includes public and commercial facilities and networks necessary for the economic and physical well being of society (e.g., power generation and distribution, waterways and ports, industrial plants, telecommunication networks, transportation facilities and systems, and mining). The Working Group will leverage international systems engineering best practices and produce documents to assist developers and builders of infrastructure systems. This Working Group will collaborate with other domain specific Working Groups such as the Transportation Working Group, the Power and Energy Systems Working Group, the Automotive Working Group, Critical infrastructure Working Group, Smart Cities Initiative, and the Resilience Systems Working Group.

OUTCOMES (PRODUCTS/SERVICES)

Product - Modeling a Drawbridge: An MBSE Application to an Infrastructure Project

Product - Guide to the Application of Systems Engineering in Large Infrastructure Projects, Version 2.0

Product - A Metamodel for Infrastructure

Product - Trifold/ Leaflets of Systems Engineering application in the Infrastructure domain

IW Outcomes



2022
Annual **INCOSE**
international workshop
HYBRID EVENT
Torrance, CA, USA
Jan 29 - Feb 1, 2022

IW Outcomes

PLANNED ACTIVITIES AFTER IW

PLANNED WORK PRODUCTS AFTER IW