



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

# Social Systems

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[www.incose.org/IW2022](http://www.incose.org/IW2022)

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## CHAIR

Randy Anway (randy@new-tapestry.com)

## MEMBERS

150 Members

## CO-CHAIR

Erika Palmer (erika.palmer@ruralis.no)

## INCOSE CONNECT ADDRESS



<https://connect.incose.org/WorkingGroups/SocialSystems>

## INCOSE WEB PAGE



<https://connect.incose.org/WorkingGroups/SocialSystems>

# Charter Summary



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## WG PURPOSE/MISSION

Evaluate evolving changes to systems engineering processes and practices and develop measures to integrate social and socio-technical systems understanding at theoretical, applicative and technical levels, in collaboration through outreach initiatives with the social sciences and interested stakeholder groups.

## WG GOAL(S)

1. Regularly assess relationships between systems engineering and social sciences
2. Identify and support communities of practice at the intersections
3. Share common challenges, best practices and productive approaches
4. Enhance understanding of interactions between systems engineering and social systems, and respective drivers of change
5. Develop work products for and monitor changes in systems engineering processes and practices
6. Grow in participation and effectiveness

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## WG SCOPE

While the relationship between systems engineering and social science is an area not currently covered in systems engineering standards, handbooks and textbooks, connections between social systems and systems engineering are deep. Through joint work with applicable social science disciplines - such as anthropology, economics, geography, history, law, politics, psychology and sociology - SocWG seeks to 1) normalize the linkage of social science and systems engineering 2) apply sociological principles in the integration of teams and communities that are engineering systems and 3) improve integration of systems engineering with the social scientific evaluation of social and socio-technical systems. We aim to develop useful products that foster the understanding and application of social systems" relevance in systems engineering practice and the development of products for the implementation of social systems engineering in systems engineering processes. In addition, we aim to highlight, demonstrate and develop methods for how systems engineering can be applied in the understanding of social systems.

## OUTCOMES (PRODUCTS/SERVICES)

The outcomes of the SocWG include:

1. Develop working relationships with other working groups
2. Social systems primer for systems engineering
3. Guidelines for ethical Practice/best practices
4. Review and develop contributions to:
  - o Tools Database
  - o SEBoK
  - o SE Handbook
  - o ISO standards, such as 15288 (TBD)
5. IS papers and Systems Engineering journal papers

# IW Outcomes



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## IW Outcomes

IW Outcomes include:

1. Delivered 10 hours programs
2. AI/Ethics Training
3. Envisioning INCOSE and the UN Sustainable Development Goals
4. Enterprise Transformation for the 21st Century
5. SE Transformation Narratives
6. Opening and Closing Sessions
7. Draft 5 Level Capability Model
8. Yammer Community initialized

## PLANNED ACTIVITIES AFTER IW

Virtual meetings/Topical Cafes  
Conference Participation - IS and others  
Webinars/mini symposia  
Yammer presence

## PLANNED WORK PRODUCTS AFTER IW

Continued development SE Scope Expansion document  
Social Systems Primer  
White Paper(s)  
Conference Participation  
Content for Yammer platform