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Cecilia Haskins, ESEP

Associate Professor of Systems Engineering, emerita
NTNU and USN, Norway



Systems Engineering support for Industry to meet UN SDG

Biography. Industry is an important contributor to value creation in today's society. But business is also the source of undesired social impacts such as environmental degradation and exploitation of workers. Traditionally, society's response to the most severe impacts, has been to establish laws and regulations. However, negative consequences persist even when firms operate within established limits. This creates a dilemma in defining the role of industry to sustainable development as outlined in the UN SDG and considering the role of systems engineering in addressing this dilemma. This keynote offers frameworks and a toolset supported by systems engineering principles and practices to assist the business transition to sustainability drawing on recent research and cases of successful transitions.

Abstract. Cecilia is recently retired and continues in emeritus status with the Norwegian University of Science and Technology (NTNU) and the University of Southeastern Norway (USN). Her career included over 30 years as a practicing systems engineer and over 20 years educating the next generation of engineers on the importance of systems approaches. She joined INCOSE in 1993 where she held a variety of leadership and other volunteer positions, was recognized as an INCOSE Founder, and continues to be active as a mentor and author. Her educational background includes degrees in chemistry, business, and eventually a PhD for application of systems engineering to sustainable development from NTNU.