The SEAr Consortium
The SEAr Consortium focuses on the advancement of systems engineering, complementing a sponsored research program. The consortium is designed as a mechanism for undertaking problems that are both appropriately and more feasibly undertaken as broader endeavors with benefit of the systems community. The consortium membership structure is tiered (Platinum, Gold, Silver), offering varying levels of benefits and engagement commensurate with sponsorship level. The members of the Lean Aerospace Initiative (LAI) and the partner companies for the MIT System Design & Management Program, both historically major sponsors/advocates for systems engineering research at MIT automatically receive Silver level benefits; some may also elect to participate in SEAr at an enhanced sponsorship level.

The consortium is an important enabler for bringing academia, industry, and government experts together for collaborative learning and joint research on advanced systems engineering topics. Through the consortium we engage with systems engineering leaders to better understand their problems and environments so that we can shape our research programs to achieve and deliver more impactful research outcomes. By engaging in the consortium at their desired level, systems engineering leaders gain early access to research findings; guide priorities for research; and participate in research summits and deep technical exchanges. Since industry and government have limited resources to invest in systems research, the consortium provides a structure for pooling talent and resources for addressing significant problems of interest to the broader systems community. We recognize it is unlikely such problems will be solved by the single-sponsor research investment model. Whereas SEAr sponsored research is designed to suit an individual sponsor’s interest, the consortium research projects will address broader needs of the membership for advanced theory, methods and practices.

About SEAr
The Systems Engineering Advancement Research Initiative (SEAr) brings together a set of sponsored research projects and a consortium of systems engineering leaders from industry, government, and academia. SEAr is uniquely positioned within the Engineering Systems Division (ESD) and its associated research centers at the Massachusetts Institute of Technology (MIT). ESD is a new kind of interdisciplinary academic unit that spans most departments within the School of Engineering, as well as the School of Science, the School of Humanities, Arts, and Social Sciences, and the Sloan School of Management. This setting offers a robust, interdisciplinary research and learning environment for advancing systems engineering to meet the contemporary challenges of complex socio-technical systems. SEAr has strategic relationships with several ESD programs at MIT, including the System Design & Management Program (SD+M) and the Lean Aerospace Initiative (LAI).

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