The SEAri Consortium

The SEAri 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 to the systems community. The consortium membership structure is tiered (Platinum, Gold, Silver), offering varying levels of benefits and engagement commensurate with sponsorship level.[1]

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, SEAri engages with systems engineering leaders to better understand their problems and environments to shape 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, it is unlikely such problems will be solved by the single-sponsor research investment model. The consortium provides a structure for pooling talent and resources for addressing significant problems of interest to the broader systems community. Whereas SEAri targeted 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.

Topics for research are guided by the consortium to address contemporary areas of consideration, such as: system of systems engineering, systems leadership and workforce development, leading indicators for effectiveness, service-oriented approaches, and value robust system design and selection.

About SEAri

The Systems Engineering Advancement Research Initiative (SEAri) brings together a set of targeted research projects and a consortium of systems engineering leaders from industry, government, and academia. SEAri is positioned within the Engineering Systems Division (ESD) 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, School of Humanities, Arts, and Social Sciences, and 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. SEAri has strategic relationships with several MIT programs, including the System Design & Management Program (SDM) and the Lean Advancement Initiative (LAI).

Website: http://seari.mit.edu   Email: seari@mit.edu

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[1] The members of the Lean Advancement Initiative (LAI) and the partner companies for the MIT System Design & Management Program (SDM), both historically major sponsors/advocates for systems engineering research at MIT automatically receive Silver level benefits; some may also elect to participate in SEAri at an enhanced sponsorship level.