

## **OSCAM: 20 years of making better operating and support cost estimates of fleets of ships and aircraft for the US Department of Defense**

**Stephen Curram (Decision Analysis Services Ltd)**

**Brittany Basilone (Naval Surface Warfare Center, Carderock Division)**

The Operating & Support Cost Analysis Model (OSCAM) is a System Dynamics tool that is used widely by the US Navy for estimating operating and support costs for ship classes and aircraft types. It plays an important role in developing submissions for milestone decisions during the US Department of Defense procurement process. It is now 20 years since the first prototype OSCAM model was developed. In that time it has changed from a niche model to a standard tool used by many cost analysts.

The presentation will give a brief history of OSCAM, examine the key changes to the model that have enabled it to become a tool for a widespread user base, and provide an overview of the programmes that it has been used for and the types of decision-making it has supported. The presentation will also consider the factors that have contributed to the longevity of OSCAM, and highlight the lessons learned.

**Stephen Curram**, Ph.D., is a Managing Consultant at Decision Analysis Services Ltd. He is an Operational Research practitioner, with more than 25 years' experience in the field, specializing in cost modelling, System Dynamics, and applications software development. He was previously a lecturer in Operations Research at Warwick Business School where he also gained a PhD in simulation and artificial intelligence.

**Brittany Basilone** is the submarine cost team lead for the Naval Surface Warfare Center, Carderock Division in the Cost Effectiveness Branch. With 8 years of cost estimating experience, Brittany has provided cost support to several ship platforms for NAVSEA. She also acts as OSCAM Program Manager. Brittany received her Bachelor's degree from Washington & Jefferson College in Mathematics and Education, and a Master of Science degree from George Mason University in Operations Research.