# Using Assurance Cases for a Go/No-Go Decision: Theory and Practice

**MAY 9, 2024**

Moderator: Charles B. Weinstock, Software Engineering Institute
Panelists: Robin Bloomfield, Simon Diemert, John Goodenough

# Panel Description

Assurance cases are commonly used to show that a system meets some property. But in addition, they are used in support of making decisions such as:

- whether to **release a system** (e.g., by issuing an Authority to Operate (ATO), or certifying its fitness for use),
- whether **contractual requirements have been met** (functional or non-functional),
- whether authorization of **further development is warranted** (e.g., start design activities, allocate additional funding), and
- whether the **results of a technical analysis**, which might be used for making critical technical decisions, **are trustworthy**.

This panel will explore the use of assurance cases in these differing contexts from both a theoretical and practical point of view and how their use might also impact go/no-go decisions.

## The Panelists

**Simon Diemert**
Systems and Software Engineer, Critical Systems Labs

**Robin Bloomfield**
Professor of Software and System Dependability at the City, University of London
Partner at Adelard

**John B. Goodenough**
Fellow, Software Engineering Institute, Carnegie Mellon University

# Agenda

Introduction

Simon Diemert (15 mins)

Robin Bloomfield (15 mins)

John Goodenough (15 mins)

Discussion among the panelists (up to 15 mins) followed by open discussion

Panel ends at 1700

**Please limit questions to panelists while they are speaking to questions of clarification only**