# TRUST IN AUTOMATION

A necessary component to realizing automation's potential

Trust in automation is a multi-dimensional, interdependent problem space involving automation trustworthiness, human trust, and human reliance shaping automation's contribution to cyber operations.

### PERSPECTIVES

#### **AUTOMATION LIFECYCLE**

PRE-IMPLEMENTATION

IMPLEMENTATION

**INITIAL USE** 

**SUSTAINED USE** 

#### **ROLES/ PERSONAS**

**CISOs** 

SECURITY ARCHITECTS

**OPERATION MANAGERS** 

**ANALYSTS** 

#### **SOURCES OF (MIS)TRUST**

**SECURITY** 

**AUTOMATION ALGORITHMS** 

**COMMUNICATION (HM & MM)** 

INFORMATION

**OPERATIONAL FIT** 

#### **TYPES OF AUTOMATION**

SENSING

**SENSE-MAKING** 

**DECISION MAKING** 

ACTING

**CONTROL & MANAGEMENT** 

## SCOPE OF AUTOMOMY

NO AUTOMATION

SINGLE FUNCTION AUTOMATION

**COMBINED FUNCTION AUTOMATION** 

PARTIAL AUTONOMY

**FULL AUTONOMY** 

