

# IEF Focus Policy Enforcement at the Interfaces Tagging and Labeling, Cataloging, Data Validation, Data Cleansing, and Data Enrichment High Trust Moderate Trust Some Trust Low Trust

Understanding Sharing &

Safeguarding Objectives

IEF Secure Messaging Bus

ISS Policy Enforcement

Dissemination Services

letwork / Infrastructure

Priorities

ISS Policy

User Application

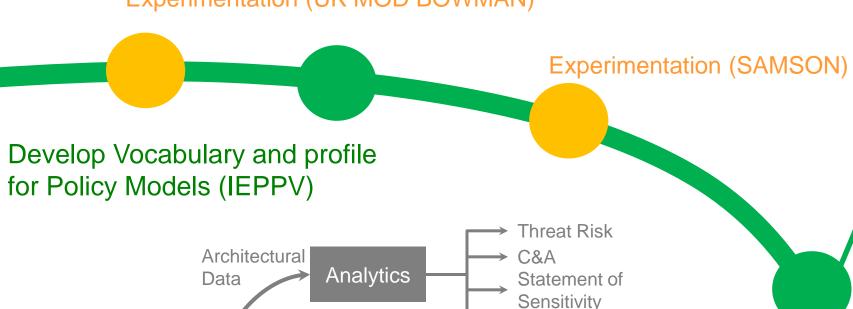
#### **IEF OBJECTIVE**

"To maximized the availability of quality information to authorized users, in accordance with legislation, regulation and policy, while protecting sensitive (private, confidential, legally-significant and classified) data from unauthorize access, release, or manipulation."

> **Issued Shared Operational Picture** Exchange Services (SOPES) Information Exchange Data Model (IEDM) – Policy Model for STANAG

# All these models are described in Policy Models for Structured Messaging.pdf

#### **Experimentation (UK MOD BOWMAN)**



→ Forensic Audits

### Information Sharing and Safeguarding by Design

#### **Program (Experimentation & Demonstration) Acronyms**

Information Exchange Packaging

and Processing Service (IEPPS)

IEF for Cloud

ATCCIS – Army Tactical Command and Control Systems MIP – Multilateral Interoperability Program BOWMAN – UK Army Tactical Communications System SAMSON – Security Access Management for Secure Operational Environments TIES – Trusted Information Exchange Environment

Policy Management & Administration

Policy Development

System/Security

Administrator

Desktop Exercises 1 Analysis, Test, Validation Architecture Framework (AF) (UPDM/UAF Enabled) Governance Local Decision and Enforcement Points 1 2 Remote Decision/Enforcement Point Policy Distribution HUB User Services / Infrastructure

We are Here

IEF RA

IEPPV in the ISS Policy Life Cycle:

Agile Develop

Approach

Issue IEPPV NAF **TOGAF** NATO Architecture Operational Work Flow UML for **Archimate** Develop IEF RA Operational and **UAF**<sub>®</sub> **M** Tagging & Decision Labeling Rules **UML** for Architecture **Domain NIEM** Exchange Schema & Vocabulary → Executable Exchange Policy → Executable Data Policy **IEPPV** COP Configs Align Policies to Purpose Models (e.g., Software) Models Architecture Processing Policy

## Operational & **Design Analytics** IEF in BIG DATA Environments

**ISS Test Automation** Specifications

> Monitoring and **Auditing Specifications** IEF for IIOT

> > Additional Model Driven Architecture (MDA)

> > > **Transformations**

Experimentation (TBD) **Develop Other Service Specifications** based on Working Group Defined

IEPPS / IEPPV Commercialization

Core capability available

Support Tooling needs refinement

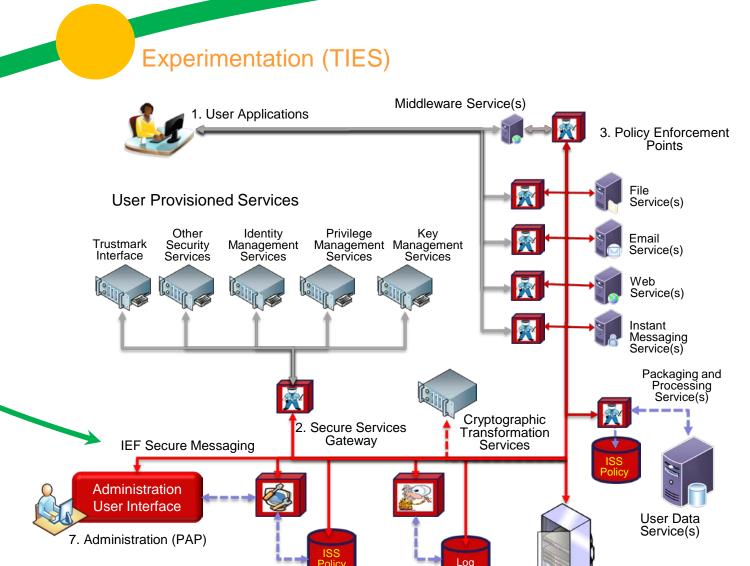
#### Issue IEF RA

nformation Exchange Packaging and **Processing Service** (IEPPS) RFP

- Issued December 2017.
- Initial Submissions due November 2018.

# **Projected IEF Working Group Activity**

(Priorities will be set by the IEF Working Group)



Secure Messaging