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The Operator's Edge: Training for Human-AI Teaming in Cyber Missions

From AI Literacy to Trusted Mission Performance

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Today's Presenter



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Agenda

- Why Human-AI Teaming is a Readiness Challenge
- AI in the Cyber Mission Workflow
- Operator Readiness Continuum
- Building Mission Capability
- Key Takeaways
- Skillsoft Demo

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Human-AI teaming is a mission readiness issue



Cyber tempo is outpacing human only workflows

Operators face more alerts, more data sources, and shorter decision windows. AI helps us to synthesize info and surface options, **but mission success still depends on human context, judgment, and accountability.**



Trust must be trained, not assumed

Responsible AI use is not a compliance sidebar. It is mission performance; understanding limits, bias, explainability, governance and security **before AI enters operational workflows.**

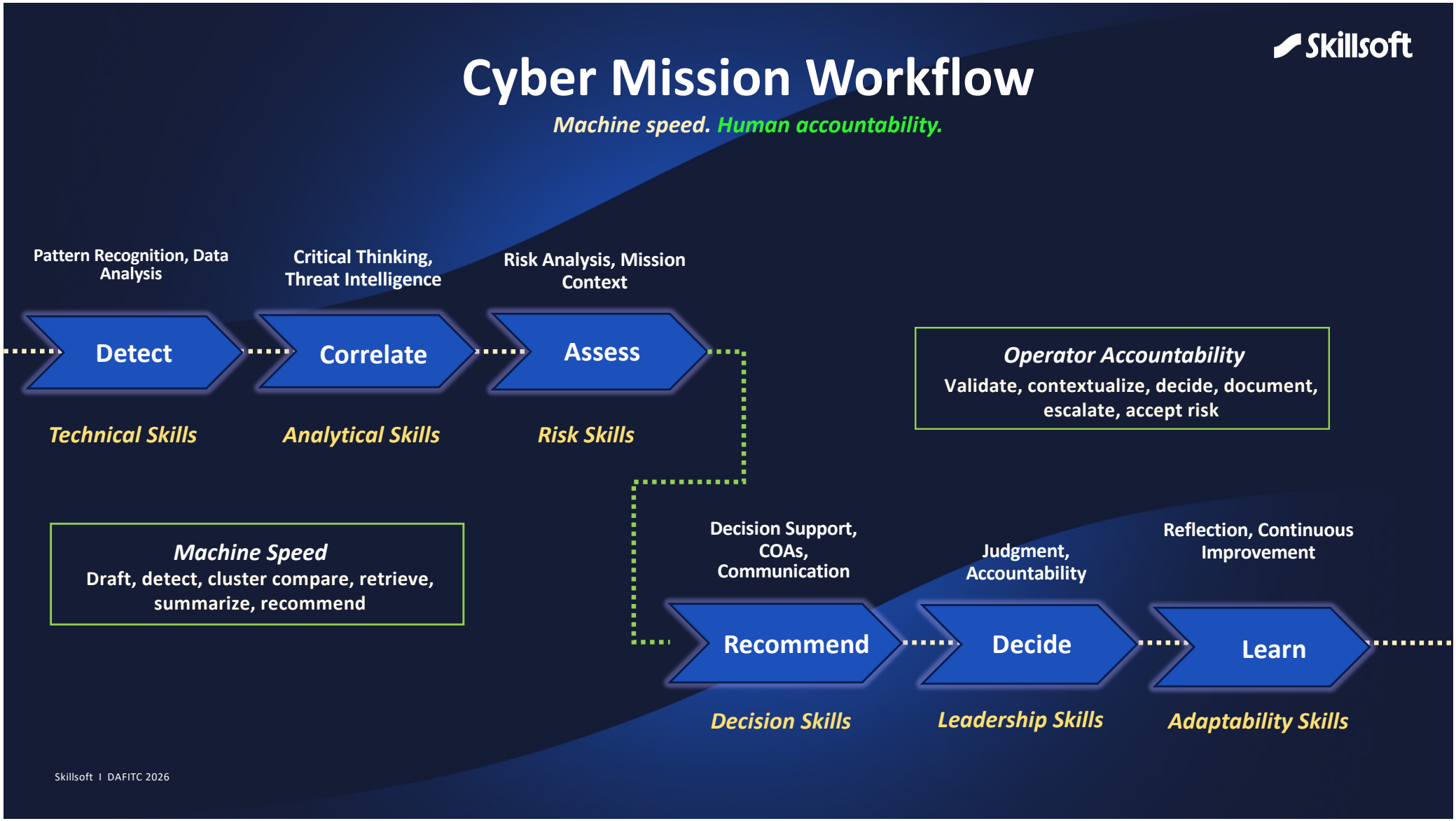


Readiness must include risk assessment

Teams need repeatable practice on when to rely on AI, when and how to challenge outputs, how to document rationale, and **how to protect data, models, and operational context.**

Cyber Mission Workflow

Machine speed. Human accountability.



AI-First Force Depends on an AI-Ready Operator



READINESS CONTINUUM FOR HUMAN-AI TEAMING

AI-aware	Tool-capable	Workflow-integrated	Risk-calibrated	Mission-ready
Baseline AI Literacy	Standardized AI Training &Tools	Human-Machine Learning	Governance & Accountability	Decision Superiority

DAF AI STRATEGY PRIORITIES

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Converting AI literacy into mission behavior

01 Role-based learning
Unique learning tracks for analysts, defenders, mission leaders mapped to decisions each role owns.

02 Scenario Practice
Simulated cyber mission scenarios with AI outputs that operators must validate, challenge, or escalate.

03 Evidence Discipline
Prompt hygiene, source validation, assumptions, auditability, and rationale capture as SOPs.

04 Coaching & Sustainment
In-workflow guidance, AI-assisted knowledge retrieval, coaching, and just-in-time reinforcement.

05 Readiness Measurement & Reinforcement
Microlearning, sims, peer review, and after-action reinforcement to maintain high-level risk-calibrated judgment.





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Where tailored learning paths improve your readiness

Threat analysis acceleration

Operators practice AI-assisted alert triage, anomaly explanation, and source validation before escalating to mission leads.

Measure: confidence, decision consistency, false-positive handling, evidence capture

Operational synthesis

Teams use AI to summarize multi-source reporting and generate mission briefs that humans verify and refine.

Measure: brief completeness, source discipline, assumptions documented, readiness to brief

Decision support and risk review

Leaders compare AI-generated courses of action against rules, constraints, risk posture, and objectives.

Measure: risk awareness, escalation judgment, rationale quality, lessons learned



Operators keep the edge

01 Start with the workflow

Map where AI assists, where humans decide, and what evidence is required

02 Train for calibrated trust at mission speed

Operators must know when to rely, challenge, override, escalate, or disengage

03 Measure readiness by behavior

Track confidence, consistency, risk awareness, rationale quality, and secure use

04 Sustain the muscle

Use scenarios, coaching, after-action reviews, and role-based refreshers

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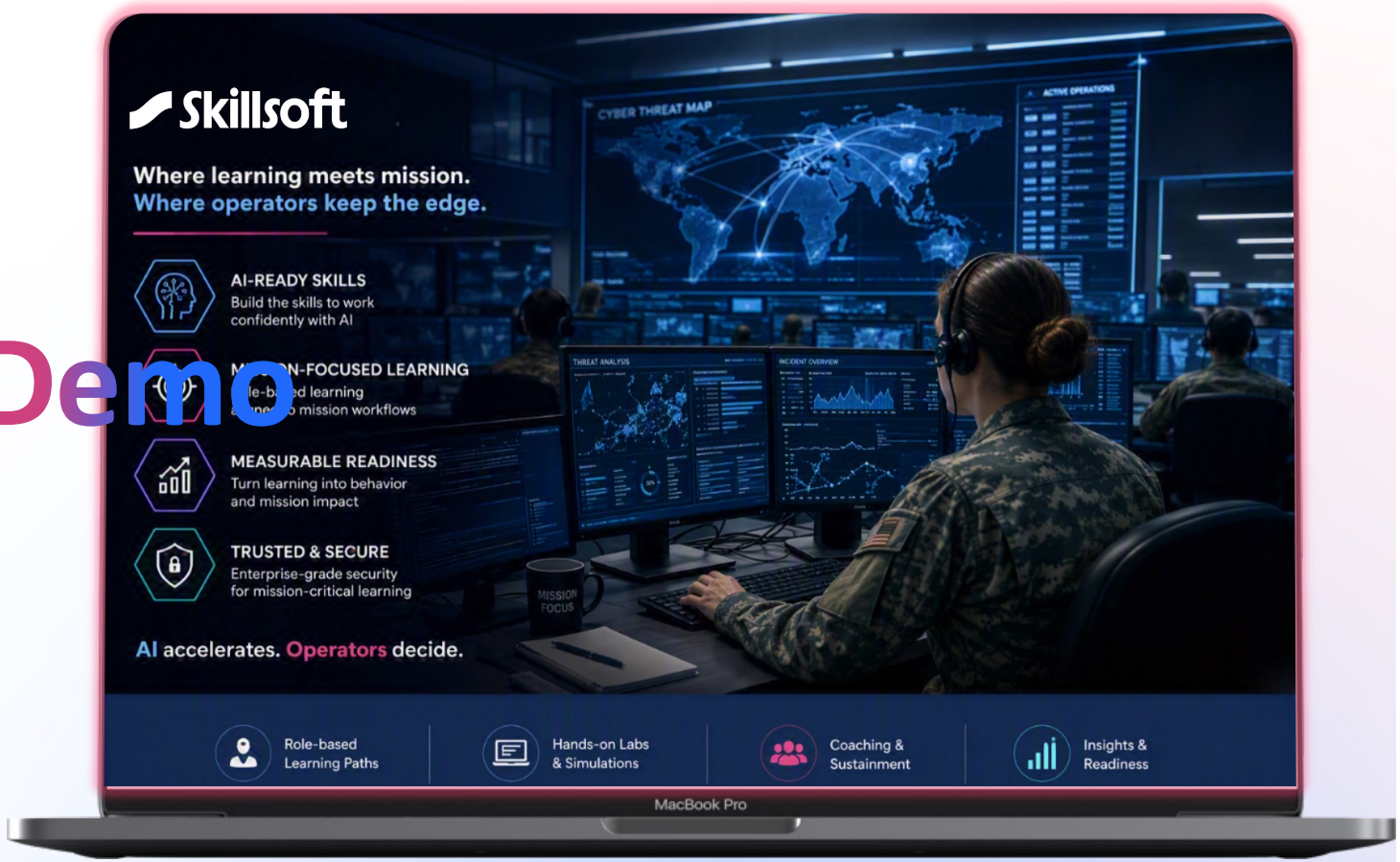

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Thank you.

Skillsoft, Public Sector Team

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