

Digital and AI In Aviation

AI for Aviation Ecosystem

Vijay Yaram
Mukul Sharma
Alamelu Krishnamani

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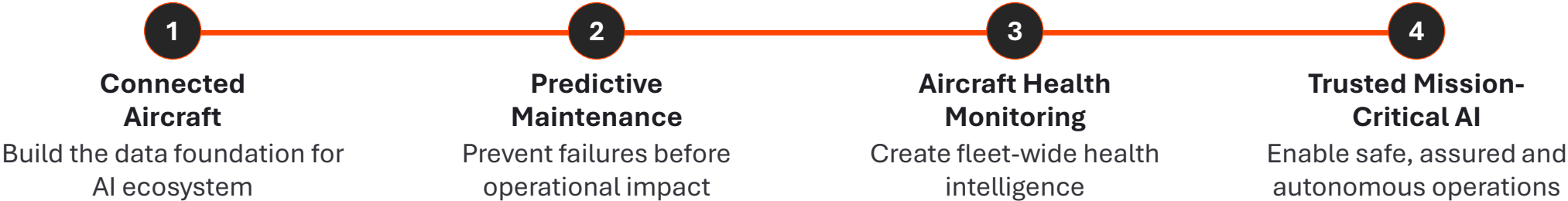
Honeywell Aerospace Vision and AI Strategy for Aviation

Vision

Turn aviation data into operational intelligence by connecting assets, predicting outcomes, enhancing safety and enabling trusted autonomy.

Four Strategies for Digital in Aviation

Strategies



Aviation ecosystems generate rich operational data; AI converts it into decisions that reduce disruption.
Predictive maintenance progresses to AI-assisted operations and trusted autonomous aviation.

Regulators / MoCA / DGCA

Trusted AI governance, safety assurance and data-driven oversight

Airlines

Predictive maintenance, fleet availability and operations reliability

Airports

Connected operational awareness and collaborative decision-making

MROs / OEMs

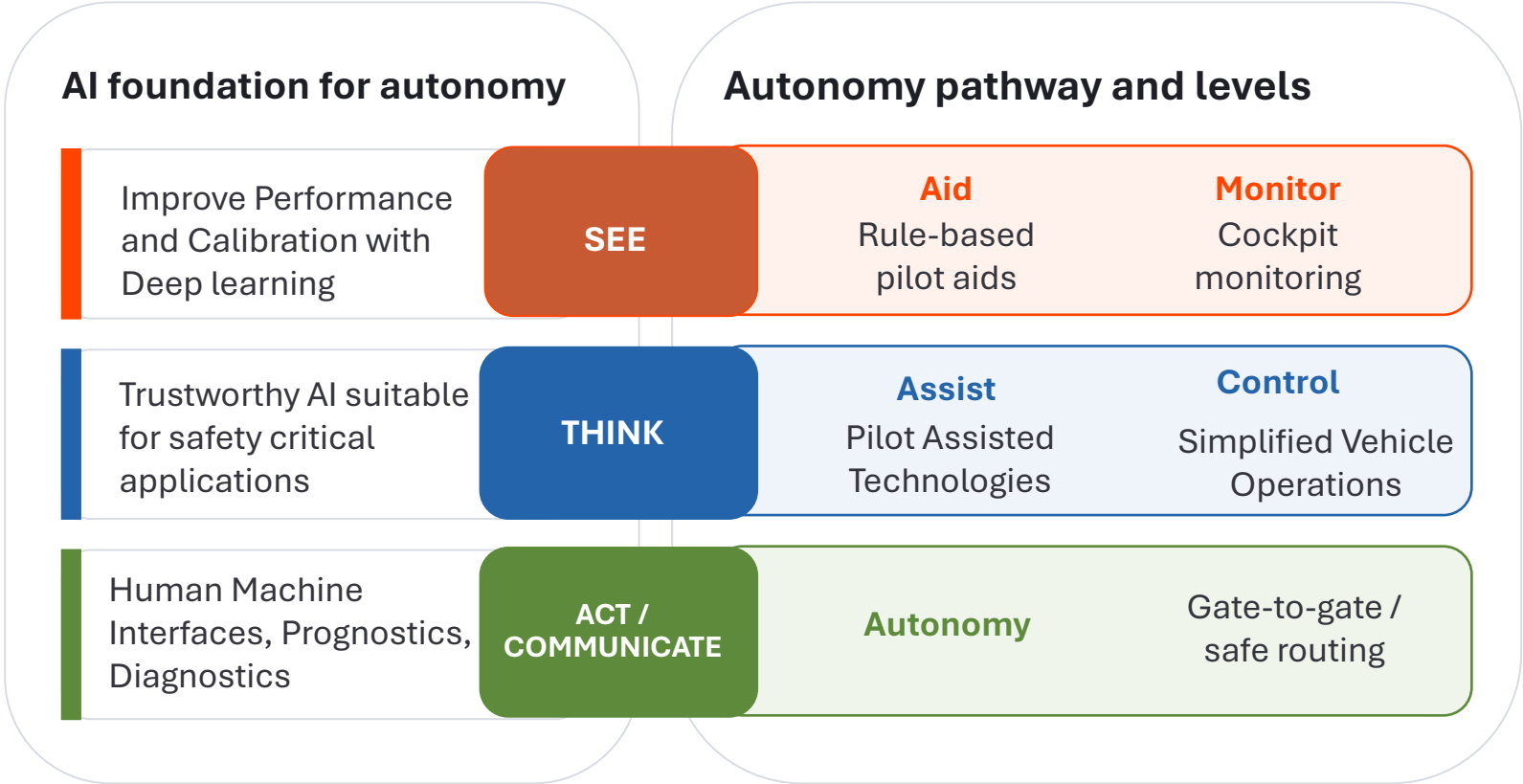
Condition-based planning, parts readiness and lifecycle intelligence

Startups / Industry

Innovation on trusted aviation data and certified AI patterns

AI and Autonomy strategy

From Assisted Operations to Trusted Flight



Honeywell Aerospace’s strategy connects assets, predicts outcomes, assures decisions and creates a trusted path to autonomy

INTELLIGENT. AUTONOMOUS. TRUSTED.

AI-POWERED AUTONOMY FOR A SAFER, MORE EFFICIENT FUTURE

SENSE

SENSORS,
RADARS,
NAVIGATION,
VISION,
SURVEILLANCE
SYSTEMS

THINK

SENSOR FUSION
AI AS PILOT ASSISTANT
DECISION MAKING
AUTONOMY

ACT COMMUNICATE

COMMAND AND
CONTROL,
DATALINK,
MAINTENANCE,
OPERATIONS

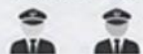
AUTONOMY

TODAY

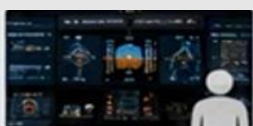


CURRENT
FLIGHTDECKS

2 ACTIVE PILOTS



REDUCED CREW WORKLOAD



SUPPORTIVE DECISION
MAKING

PILOT ASSISTANCE



PATH MONITORING



PILOT + AI ASSIST

SIMPLIFIED VEHICLE OPS



RULE-BASED
PILOT AIDS



PILOT + AI ASSIST +
GROUND CONTROL UNIT



GATE-TO-GATE AUTONOMY



AUTONOMOUS SYSTEMS /
SAFE DYNAMIC ROUTING

HIGHLY AUTONOMOUS
OPERATIONS



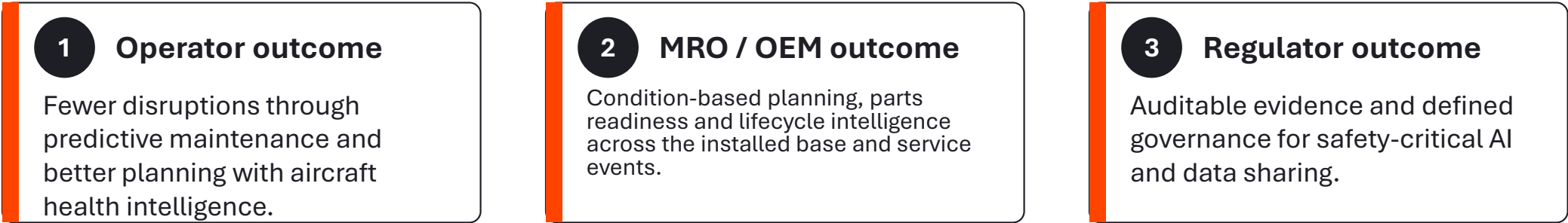
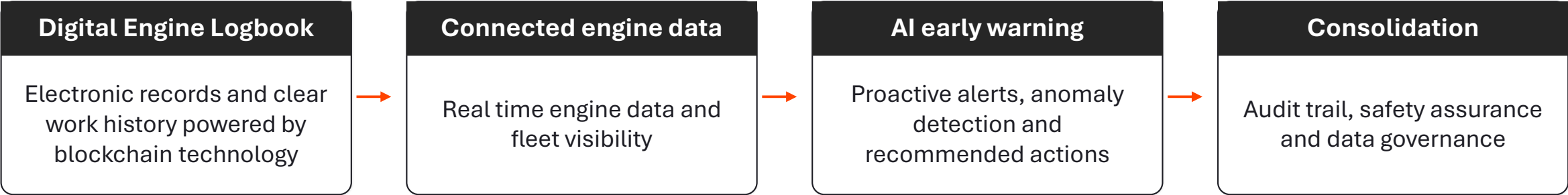
Safety Assurance

Enhanced Safety, Efficiency and Scalability with the power of AI and Cybersecure Design

Connected Engines and Digital Engine Logbook

Synthesize engine records, engine data and AI alerts into trusted maintenance intelligence.

Vision Transform from a document-centric maintenance to a connected asset with a digital record, live data and AI-supported maintenance decisions.



Digital Engine Logbook is a credible proof point for connecting engine records to AI-enabled maintenance



DIGITAL ENGINE LOGBOOK



ACCURATE RECORDS

Digitized records with clear work history



REAL-TIME TRACKING

Current engine status and fleet visibility



MAINTENANCE HISTORY

Complete lifecycle and inspection traceability



SECURE & COMPLIANT

Verifiable, auditable and ready for oversight



Thank you



Honeywell
Aerospace

Vijay Yaram

Country Leader, Honeywell Aerospace India
Vijay.yaram@honeywellaerospace.com

Alamelu Krishnamani

Director, Advanced Technologies & UAM/UAS
Alamelu.krishnamani@honeywellaerospace.com

Mukul Sharma

Sr. Director, Engines & Power Systems
mukul.sharma@honeywellaerospace.com