

AI-ENABLED TRAINING

powered by **InstructIQ**



THE CHALLENGE

Your simulator generates valuable data. Are you using it?

Much of today's assessment still depends on what the instructor can observe, remember and document.

INSTRUCTIQ

Transforms simulator data into objective training insights.



Much of that data remains unused after the session.

THE CHALLENGE

**Same maneuver.
Three instructors.
Three different
assessments.**

The issue is not instructor competence. It is the absence of a common, objective reference.



INTRODUCING INSTRUCTIQ

From simulator data to instructor-ready insight.

InstructIQ detects maneuvers, evaluates performance against your criteria, and prepares evidence for the debrief.



Criteria and tolerances follow your training program.

The instructor reviews the assessment and retains control.

INSTRUCTOR SUPPORT

Objective evidence. Instructor judgment.

InstructIQ analyzes data throughout the session, as each maneuver is completed. Results are available shortly after the session to support the instructor's assessment and debrief.

The instructor remains in control.



INSTRUCTIQ IN PRACTICE

Overview

Session performance at a glance

Competency profile

Review assessed competencies across the session.

Maneuver timeline

Navigate detected maneuvers in their flight context.

Debrief priorities

Use highlighted events to focus the discussion.



INSTRUCTIQ IN PRACTICE

Flight Maneuvers

A timeline of detected maneuvers

Events and scores

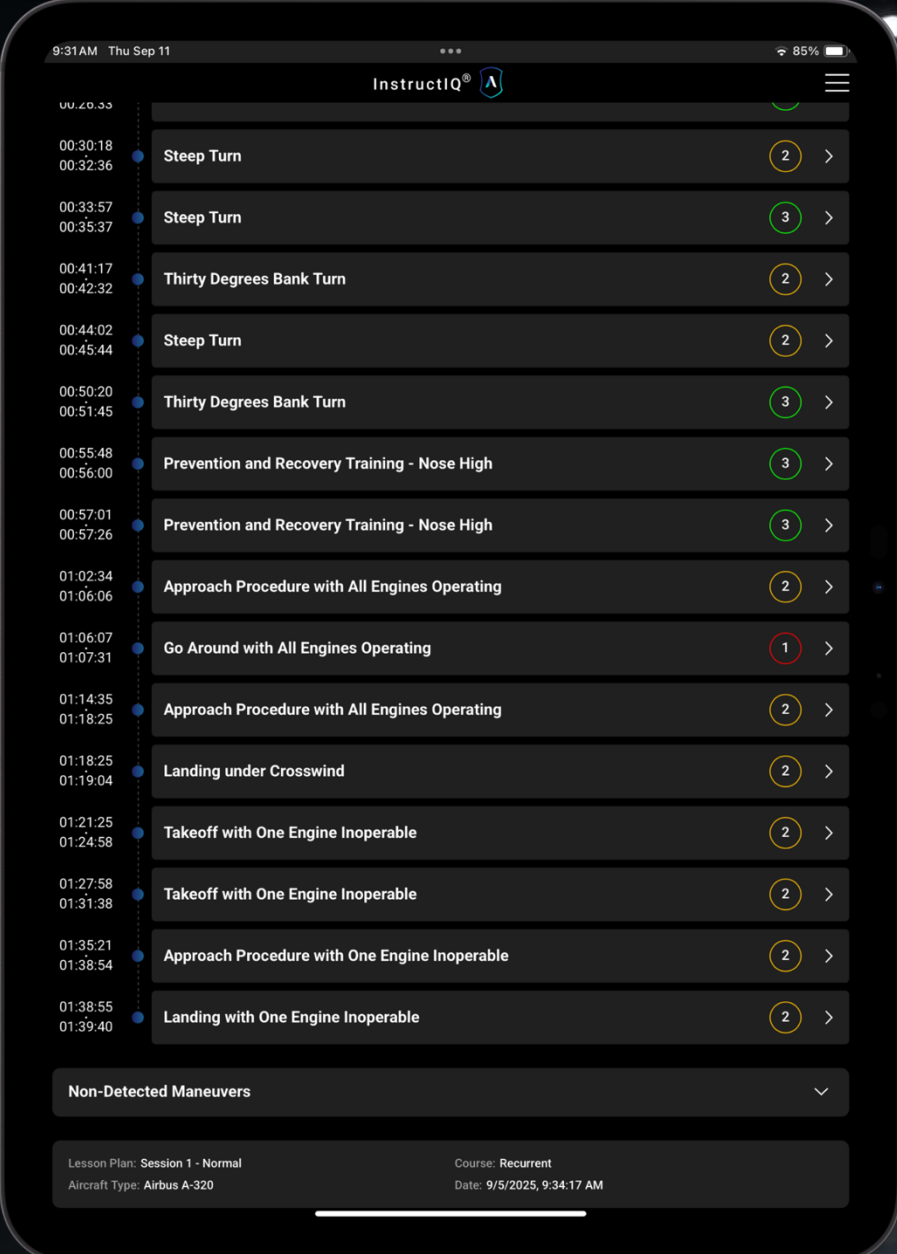
Locate each maneuver with its timestamps and score.

Compare attempts

Review repeated maneuvers within the same session.

Assessment details

Open a maneuver to examine the performance evidence.



The screenshot shows the InstructIQ app interface on a tablet. The top status bar displays the time as 9:31 AM, the date as Thu Sep 11, and the battery level at 85%. The app header includes the InstructIQ logo and a menu icon. The main content is a list of flight maneuvers, each with a timestamp, a description, and a score in a circle. The maneuvers are as follows:

Timestamp	Maneuver	Score
00:30:18 00:32:36	Steep Turn	2
00:33:57 00:35:37	Steep Turn	3
00:41:17 00:42:32	Thirty Degrees Bank Turn	2
00:44:02 00:45:44	Steep Turn	2
00:50:20 00:51:45	Thirty Degrees Bank Turn	3
00:55:48 00:56:00	Prevention and Recovery Training - Nose High	3
00:57:01 00:57:26	Prevention and Recovery Training - Nose High	3
01:02:34 01:06:06	Approach Procedure with All Engines Operating	2
01:06:07 01:07:31	Go Around with All Engines Operating	1
01:14:35 01:18:25	Approach Procedure with All Engines Operating	2
01:18:25 01:19:04	Landing under Crosswind	2
01:21:25 01:24:58	Takeoff with One Engine Inoperable	2
01:27:58 01:31:38	Takeoff with One Engine Inoperable	2
01:35:21 01:38:54	Approach Procedure with One Engine Inoperable	2
01:38:55 01:39:40	Landing with One Engine Inoperable	2

Below the list is a section titled "Non-Detected Maneuvers" with a dropdown arrow. At the bottom, the app displays session details: Lesson Plan: Session 1 - Normal, Aircraft Type: Airbus A-320, Course: Recurrent, and Date: 9/5/2025, 9:34:17 AM.

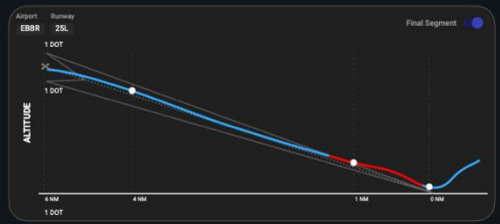
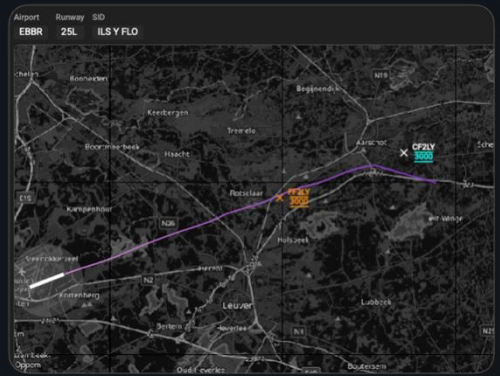
PERFORMANCE EVIDENCE

See what happened throughout the maneuver.

Each detected maneuver is evaluated against criteria configured for the training program. The results are presented in a clear, usable format.

-  Flight path
-  Stability
-  Rate of descent
-  Reaction timing
-  Control smoothness

ACTUAL INSTRUCTIQ VIEWS



Performance Assessment

- ▲ Arranged Through Plan to Touchdown
- ▲ Lateral Deviation from Runway Centerline
- ▲ Smoothness of Pitch Rate
- ▲ Stable Nose Attitude
- ▲ Arranged When Thrust Reverser Set To Idle
- ▲ Stable Roll Control
- ▲ Speedbrake Deployment Timing
- ▲ Touchdown Distance Along Runway
- ▲ Touchdown Heading
- ▲ Touchdown Pitch Attitude
- ▲ Trajectory Directional Control
- ▲ Correct Flap Configuration
- ▲ Arranged at Thrust Idle
- ▲ Rollout Forward Pitch Control
- ▲ Touchdown Arranged
- ▲ Touchdown Rate of Descent

Performance Assessment

DAY

Runway Length: 10135 ft

TELEMETRY

44 ● New Thrust Idle

120 ● New Thrust Deployed

100 ● Speedbrake Deployed

154 ● Touchdown

COMMENTS

Add a comment

2

COMPLETED INSTRUCTIONS ACTIVITIES

Lesson Plan: EPST 03

Aircraft Type: Boeing 737 MAX 8

Course: MCC/APS

Date: 12/11/2024 3:38:56 AM

INSTRUCTIQ IN PRACTICE

Grading Summary

Session findings and grades in one view

Session summary

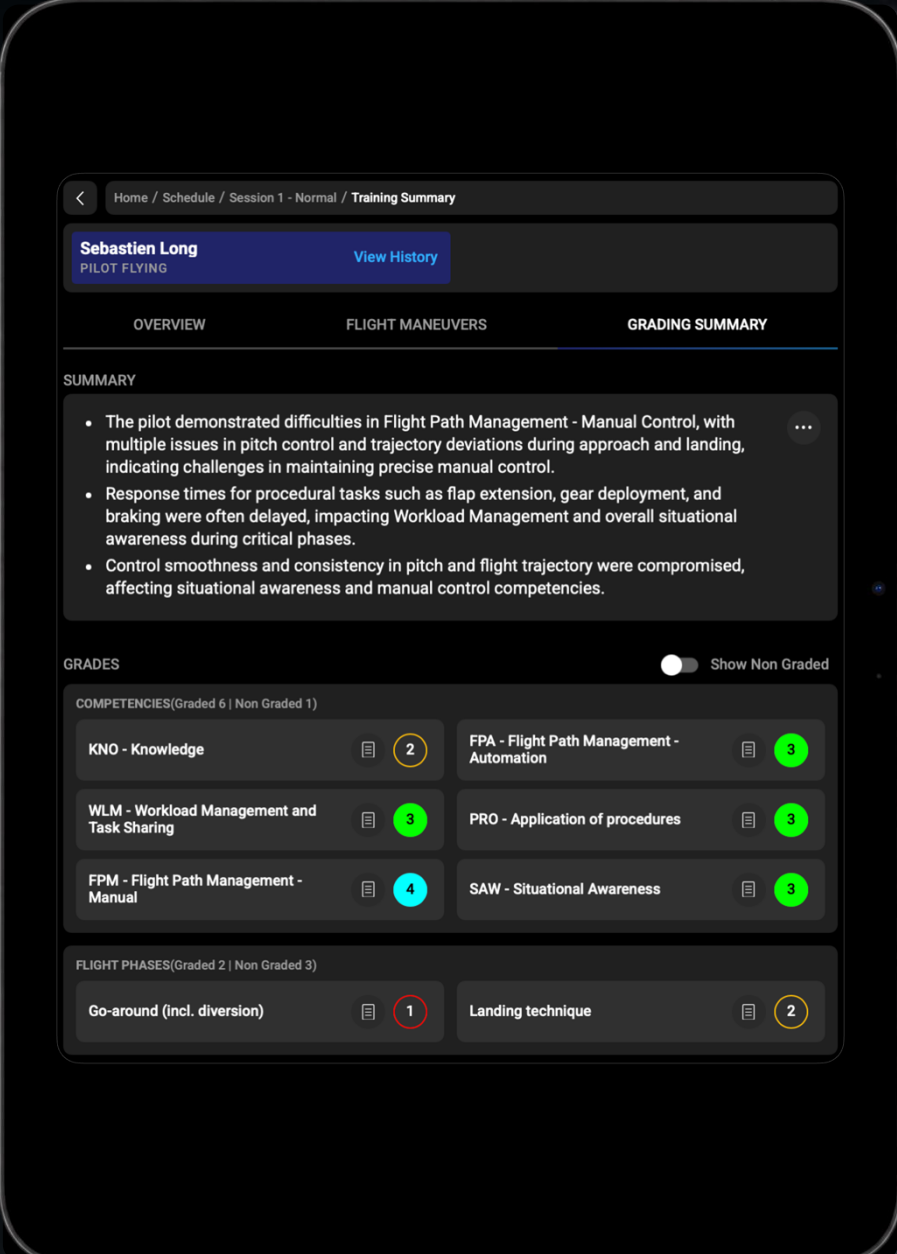
Review key findings to guide the debrief.

Competency grades

See grades for each assessed competency.

Flight phase grades

Identify areas for follow-up by flight phase.



The screenshot displays the 'Training Summary' for Sebastian Long, PILOT FLYING. The interface includes a navigation bar with 'Home / Schedule / Session 1 - Normal / Training Summary'. Below the pilot's name, there are tabs for 'OVERVIEW', 'FLIGHT MANEUVERS', and 'GRADING SUMMARY'. The 'GRADING SUMMARY' tab is active, showing a 'SUMMARY' section with three bullet points detailing pilot performance challenges. Below this is a 'GRADES' section with a toggle for 'Show Non Graded'. The grades are organized into two categories: 'COMPETENCIES' and 'FLIGHT PHASES'. Each category lists specific competencies or phases with their corresponding grades in colored circles.

Category	Competency/Phase	Grade
COMPETENCIES (Graded 6 Non Graded 1)	KNO - Knowledge	2
	WLM - Workload Management and Task Sharing	3
	FPM - Flight Path Management - Manual	4
	FPA - Flight Path Management - Automation	3
FLIGHT PHASES (Graded 2 Non Graded 3)	Go-around (incl. diversion)	1
	Landing technique	2

TRAINING OUTCOMES

A common reference improves consistency

STANDARDIZE INSTRUCTION

Give instructors the same objective reference.



IMPROVE IRR

Reduce grading variability across instructors.



SUPPORT CBTA AND EBT

Add structured evidence to competency decisions.

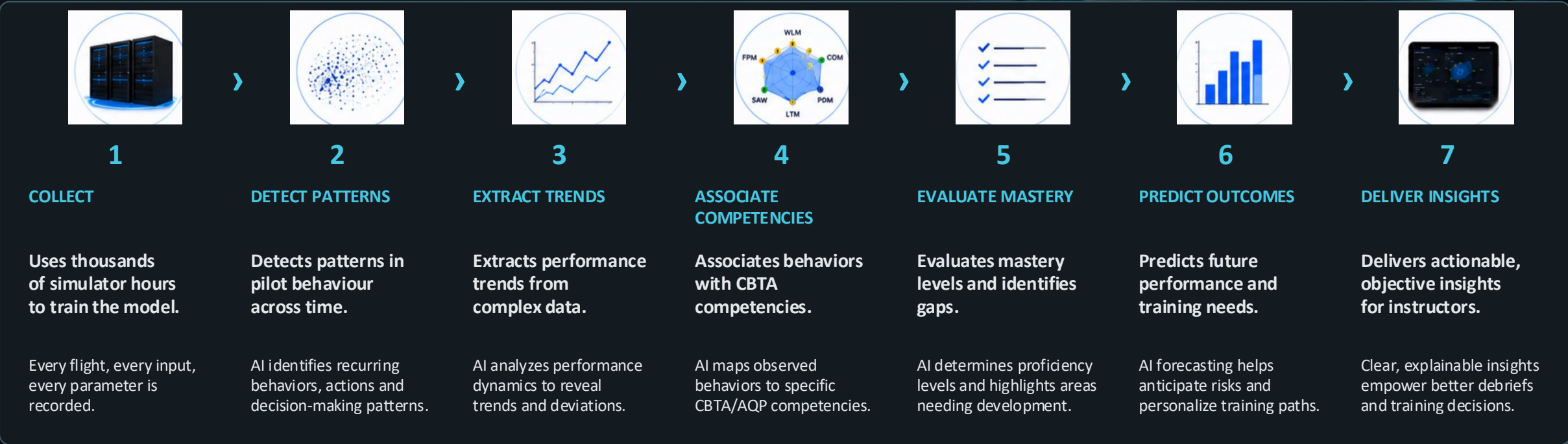


InstructIQ

The Learning Process for AI

From raw simulator data to objective, competency-based insights.

AI that learns like an expert.

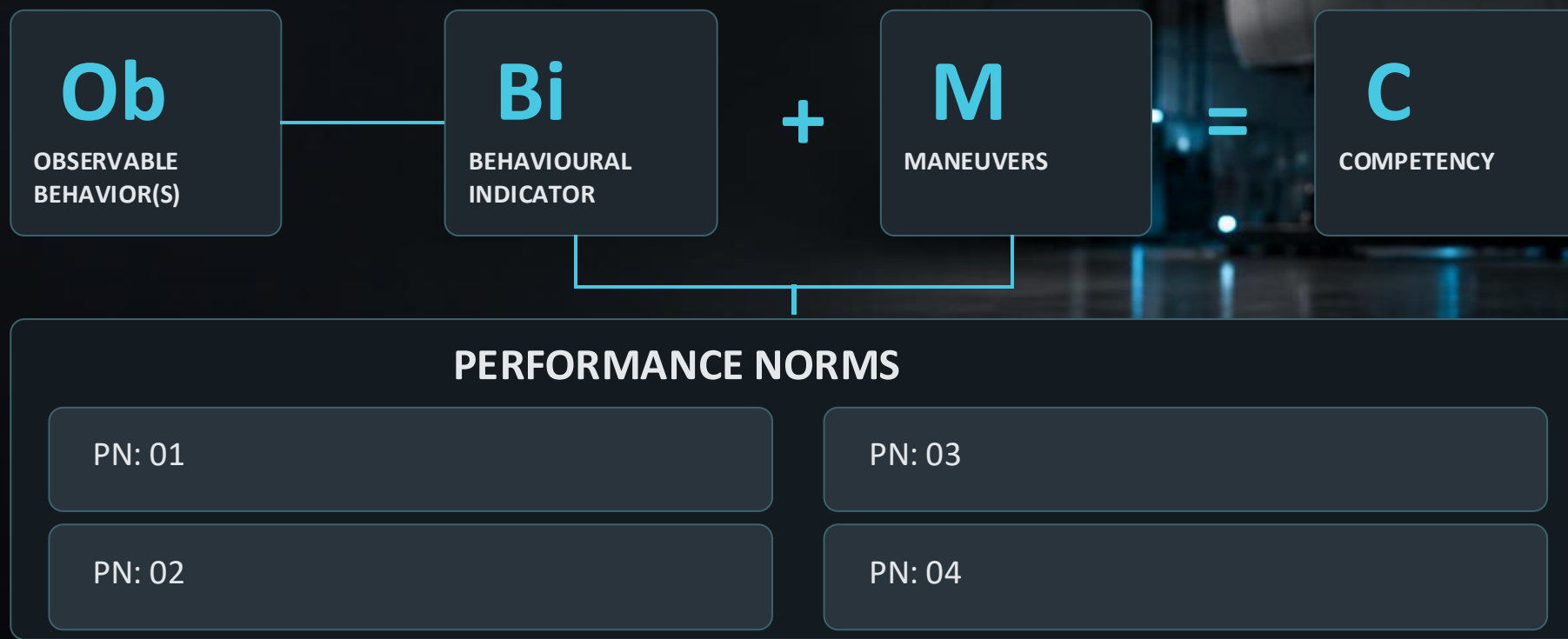


AI learns from experience. You teach with precision.	Continuously improves as more data is analyzed.	Objective. Unbiased. Consistent across instructors.	Secure by design. Your data. Your control.	Built for CBTA/AQP environments and real-world impact.
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CBTA Atomic Structure

A brief overview



CBTA breaks performance into measurable building blocks.
 Observable behaviors + Indicators + Maneuvers = Competency.

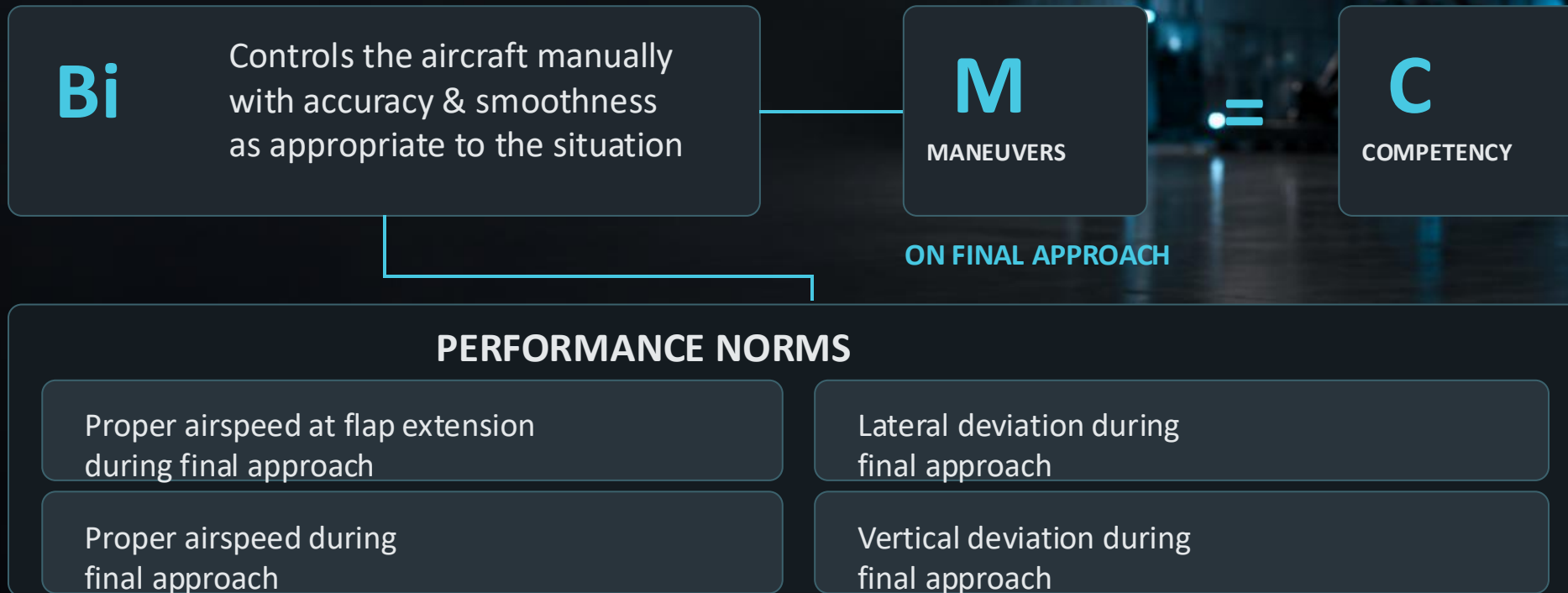
**This structure ensures training is objective,
 consistent and aligned with real-world performance.**

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Flight Path Management – Manual

(an example)

A CBTA competency built from observable behaviors, manual maneuvers and performance norms.



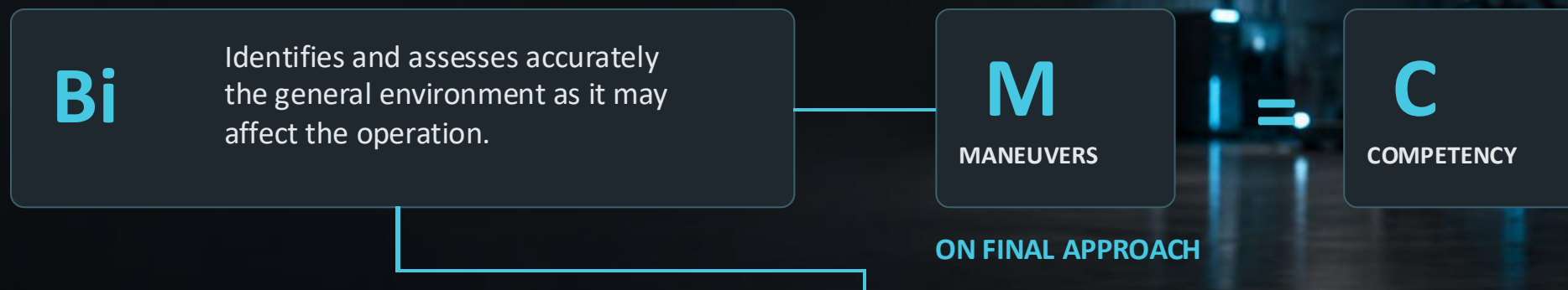
Observable behaviors, specific maneuvers and performance norms work together to define and measure competency.

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Situational Awareness

A soft competency example

Identifies and assesses accurately the general environment as it may affect the operation.



PERFORMANCE NORMS

Flaps extended at correct speed
during approach

Airspeed when landing gear deployed
during approach

Altitude when autopilot disconnected
during approach

Pitch of aircraft at
touchdown

Situational awareness ensures pilots perceive, understand and anticipate the environment to make safe decisions.

It underpins all competencies and contributes to safe, effective and professional performance.

PACE

VALUE ACROSS THE ORGANIZATION

One session creates value at every level.

INSTRUCTORS

Better-supported assessments and debriefs.

TRAINING MANAGEMENT

Visibility into consistency, calibration and trends.

THE ORGANIZATION

Identify recurring trends across pilots, instructors, cohorts and training programs.



LET'S CONTINUE THE CONVERSATION

Sebastien Long

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for AI Training Solutions

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What would you like to improve first?