

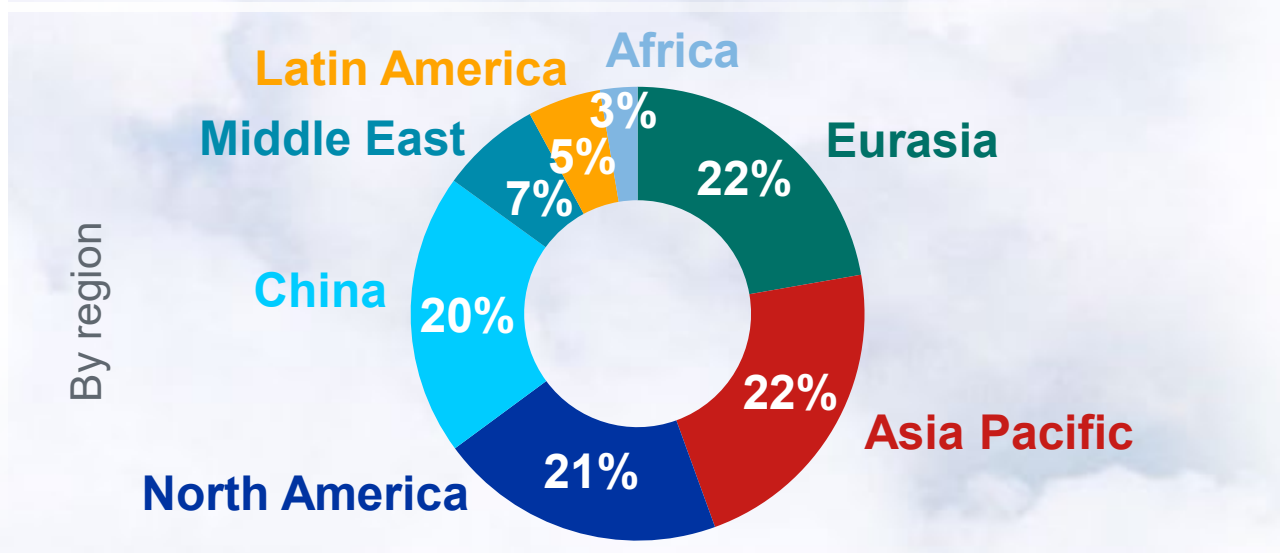
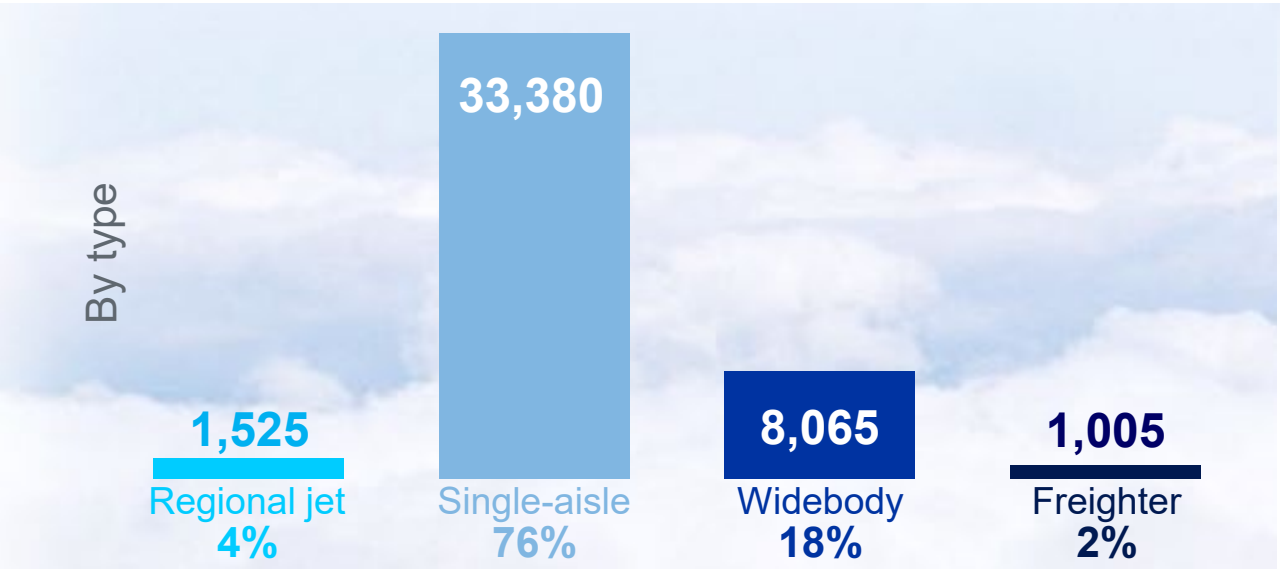


Building the Future of Aviation Together

Eric John
Boeing Japan President

March 25, 2025

Airlines will need 43,975 new airplanes over 20 years



Future Production System Capabilities

将来の製造システム能力

- **Safe to build and maintain**

製造と整備の安全性

- **First pass quality**

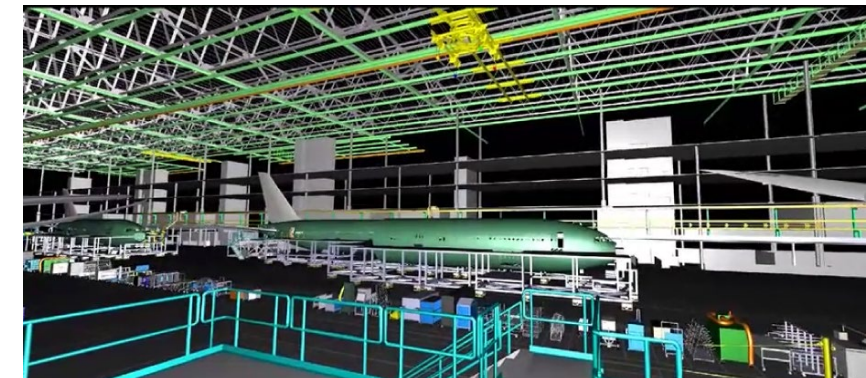
初回製品検査合格(初回パス)品質

- **Repeatable production**

繰り返し生産が可能な製造システム

- **Designed for takt, capable of required rate**

タクトを考慮した設計、必要な生産レートの実現能力



Quality – Reliability – Efficiency – Flow

Safety and Sustainability integrated seamlessly

安全性と持続可能なシームレスな統合

Future Production System Focus

Develop a production system that is **safe, sustainable, and repeatable**, deliver conforming products on time, with the **quality and cost** that is required

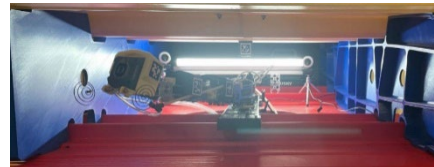
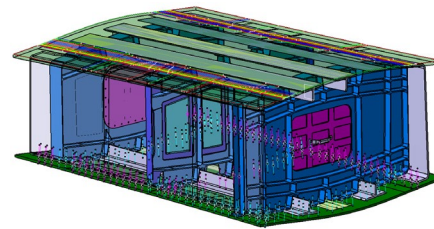
High rate
production



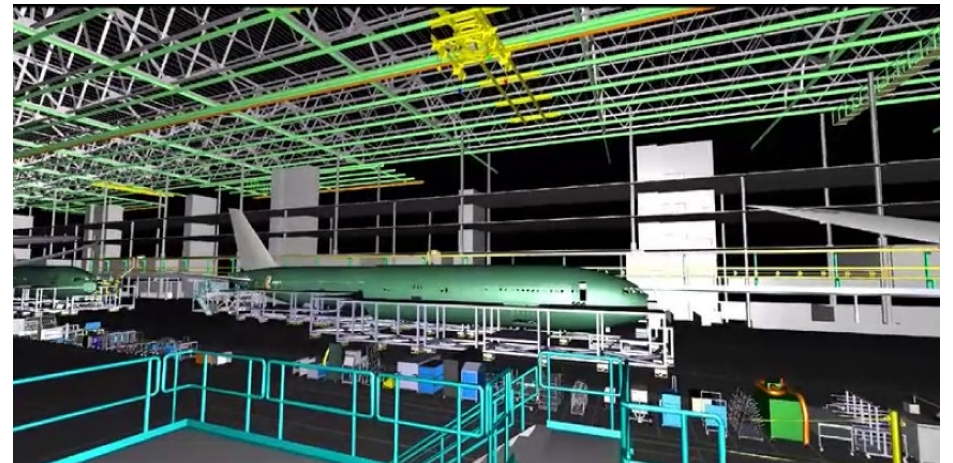
Precision Assembly



Confined Space



Modular Systems



Takt-based
production



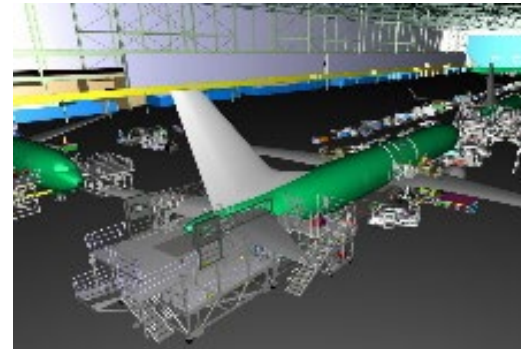
Future Digital Capabilities

将来のデジタル活用能力

Develop and deploy a digital ecosystem of tools and processes to increase design quality, reduce rework and development flow time

設計品質の向上と手戻り作業や開発期間の短縮を目的とする
ツールやプロセスのデジタル・エコシステムを開発し導入する

- Design quality and flow
設計品質及びフロー
- Lifecycle value
ライフサイクル全体の価値
- Data integrated across airplane, production system, support and services
機体、製造システム、サポート、サービスの全てをデータで統合



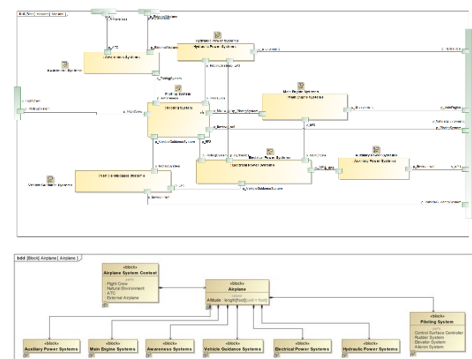
Creating a burden free information flow across the value stream

バリュー・ストリーム全体で負荷のない情報の流れを作る

Full Digital Lifecycle

Digital Thread – Single Source of Truth Data

Digital
Requirements
“As Specified”



MBSE Modeling

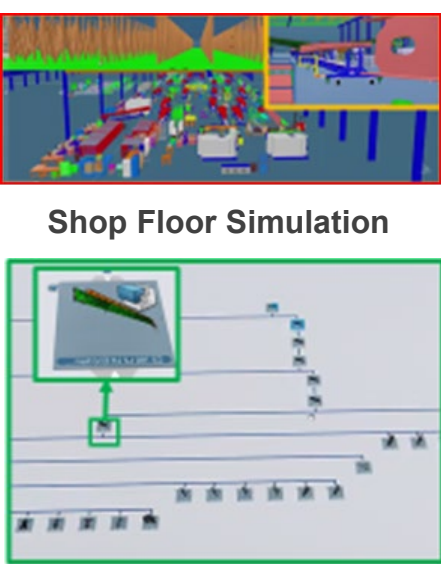
Digital System
Model
“As Designed”



3DX Design Environment

Multi-Physics
Simulation/HPC

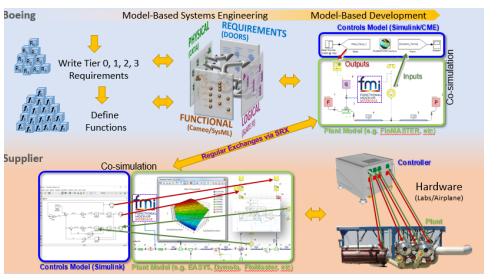
Digital
Manufacturing
“As Built”



Shop Floor Simulation

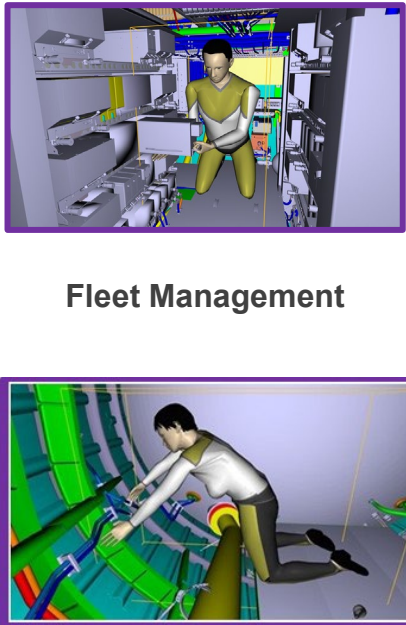
Production System
Architecture

Digital
Test
“As Verified”



System Requirements
Verification

Digital
Twin
“As Maintained”



Fleet Management

Model-Based Systems
Engineering
Concept / Requirements

Model-Based Design
Design / Analysis

Model-Based
Production System
Production System Design

Model-Based Verification
Certification / Test

Model-Based
Support & Services
Maintain & Enhance