

Made to  
move you™

**OTIS**

# Accelerating Design and Quality in Elevators Through Artificial Intelligence.

European Lift Association

# Agenda

**01** Elevator Lifecycle of learning

---

**02** AI accelerates the lifecycle of Learning

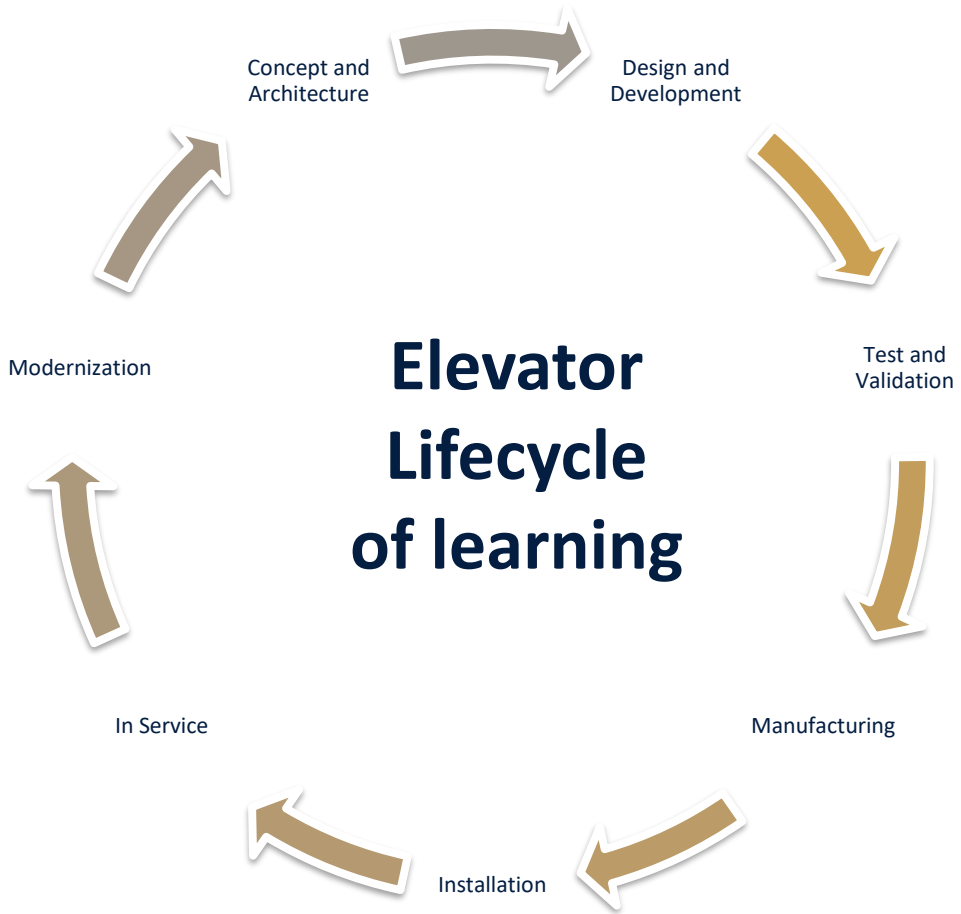
---

**03** Focus look at how AI changes the way we develop a product

---

**04** Lessons Learned

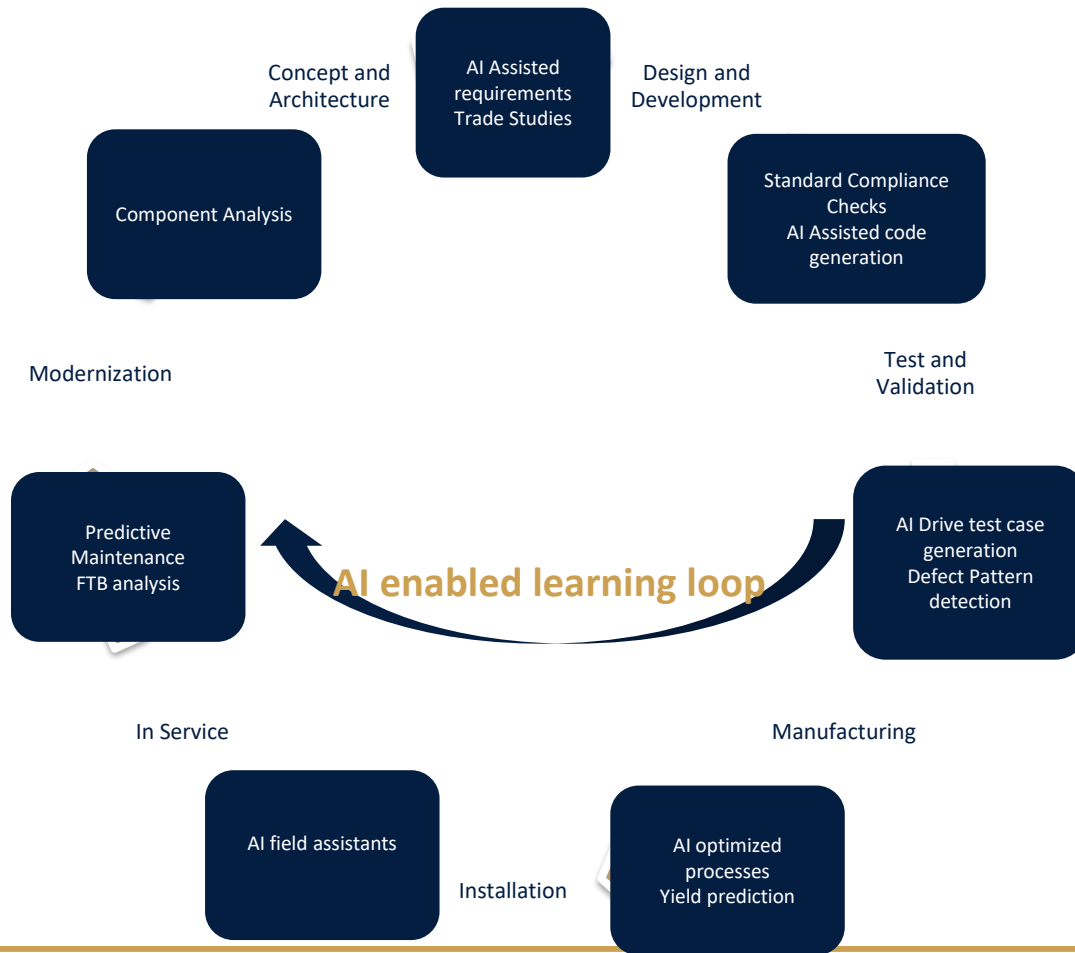
---



# Elevator Lifecycle of learning

**Quality is built in every step but now how do we use that data to improve the quality of our elevators?**

**Can AI maintain the integrity of the lifecycle of learning?**



# Product Consistency Improvement with AI

## Design Phase

- First principal-based design and analysis : AI supports physics-based analysis and simulation
- Numerical analysis and simulation became fast

## Multi-Proof of Concept

- Multiple versions of POCs enable deeper analysis on concept phase

## Coding Assistant

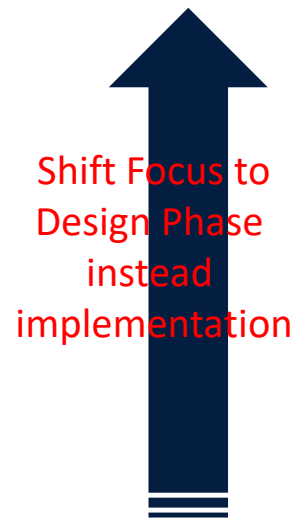
- Function based completion

## Code Review

- Agentic AI supports code review against requirements to identify potential issue earlier

## Document and Release Process Automation

- Reduce burden of repetitive workflow AI handle volume and human handle .



# What we learned through AI Projects

## AI does accelerate work

- Prototyping, ideation , code generation, pull-request, code review
- Test Case generation, Test Automation
- Release process, Documentation

## AI does not reliably accelerate work : Still AI limit exists

- Complex code-based problem solving (over 10,000 lines of source code projects)
- Large distrusted system interaction involved cases

## AI can slow down human work

- Pull request/code change review : Human becomes bottle-neck
- Different coding model has different style/approach : inconsistency in the code
- Hardware In the Loop (HIL) links to AI Agent is another area for Agentic Automation

## Requires strategic approach to Deploy full AI

---

**OTIS**