

# MRO Ground Plan Visualizer

Intelligent & Delay-Resistant Ground Time Management

Aviation MRO | Austrian Airlines

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# The Current Situation

## The Operational Challenge

When flight schedules shift due to delays or aircraft swaps, static lists no longer reflect reality on the hangar floor.

Critical maintenance information falsely "sticks" to fixed times rather than the physical aircraft.

**The Result: Cognitive overload for shift leaders, inefficient handovers, and potential planning errors.**

## Weaknesses of Current Solutions

- **Inflexibility:** Static Excel macros fail to visualize true ground times in an inverted Gantt format.
- **Data Loss:** Paper-based workflows break down during dynamic schedule changes.
- **Isolated Systems:** Lack of a unified fleet overview for all LH Group airlines.
- **Expensive Development:** External app development consumes significant budgets and time.

# The Solution: A Perfect Fit for **Our Hardware**



## Shift Management

Optimized for desktops & laptops. Full editor rights for planning, shift control, and handovers.



## Mechanics (iPads)

Tailored for the 1:1 iPad landscape. Read-only access to vital information directly at the aircraft.



## Mobile Info (iPhone)

Quick checks of ground times and gate positions from anywhere on the apron.

**Full-Stack Web App: No Installation | No App Store Overhead**

# The Core Features



## Inverted Gantt

Raw inbound and outbound flight data is intelligently converted into visualizable, true ground times.



## Fuzzy-Logic Mapping

Maintenance tasks receive smart IDs. If a flight shifts, the note travels with it automatically and flawlessly.



## Fault Management (FMS)

Integrated health monitoring provides instant visual feedback and error codes during network issues in the hangar.

# Scalability & Value for the LH Group

- **Zero-Cost Rollout:** Hub-agnostic code – instantly ready for rollout in FRA, MUC, and ZRH via simple environment variables.
- **Innovation Acceleration:** Instead of waiting months for IT resources, operational expertise was translated directly into code via AI prompting.
- **Massive Cost Savings:** No license fees and no expensive external app agencies required for the conceptual phase.



## Proof of Concept

100% Successful

Validated by the Business Unit.



Thank you for your attention.



Ready for NetLine API Integration