

## New Terminal planned? Seeking future-proofing that works.



Building a **profitable airport** starts with integrating the physical and technology designs before construction starts.

Here we highlight how this can be achieved.

### Outcomes

Our customer benefitted from our expertise in IT systems for complex infrastructure to deliver a scalable, innovative technical blueprint for their new terminal. This addressed the airport's objectives of:

- **Enhanced Passenger experience**
- **Future Readiness**
- **Sustainability**
- **Reduced expenditure**

*We focus on delivering high-quality, sustainable, and future-proof solutions.*

### How we helped...

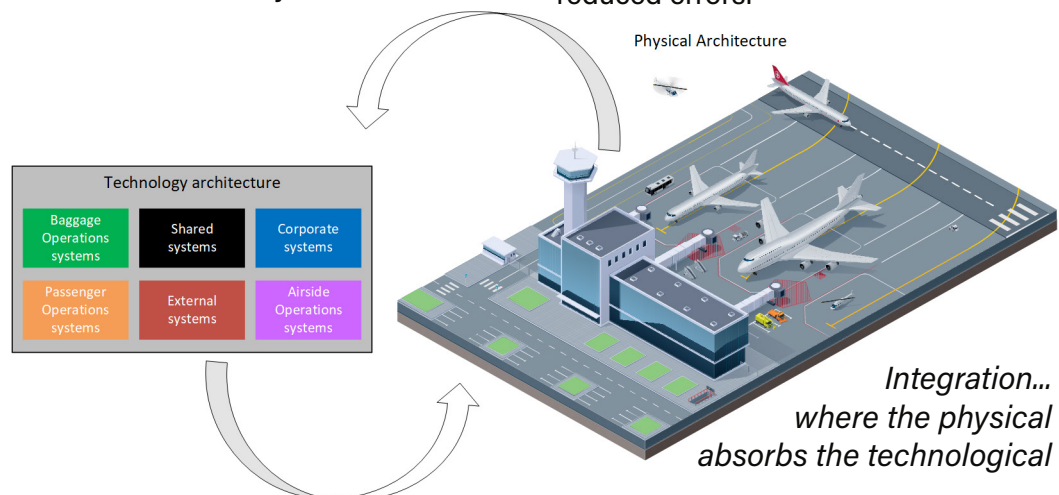
The challenge was met through:

- Successful integration of IT and Physical Architecture
- Consistent IT Methodology
- Awareness of Operational Considerations

### Integrating IT and Physical Architectures

We worked closely with the client

to align our IT methodology with their physical architecture process, ensuring a unified vision from concept to execution. The team held integration workshops to address design conflicts and align IT systems with physical infrastructure. This collaboration resulted in clear, detailed tender documents that streamlined contractor understanding and reduced errors.



# New Terminal planned?

## Our methodology for successful integration of the necessary technology.

### IT Methodology

We follow these 5 steps for success:

#### 1. Framework, Discovery, and Assessment

We begin by assessing IT needs, requirements, existing systems, and future scalability. This process identifies technology gaps and opportunities, ensuring alignment with the terminal's goals. Then develop a design plan covering all integrated IT systems, network details, and security.

#### 2. IT Design Development

Next initiate the IT design with a high-level roadmap detailing the key systems and interfaces required for the new terminal. Update the roadmap regularly to align with evolving physical architecture designs. Develop strategies to tackle challenges and risks that might arise from overlapping or competing IT and architectural priorities.

#### 3. Technical Specifications

Finalise the IT design, roadmap, and planning before creating high-level specifications for hardware, software, and networking systems. Ensure consistent terminology and align

the specifications with the physical architecture and airport objectives. We hold stakeholder review sessions to refine the specifications based on feedback

#### 4. Knowledge Transfer

We always establish a knowledge transfer scheme before handover to ensure a smooth transition. This process supports procurement, with technical advice, evaluation criteria, and supplier selection recommendations.

#### 5. Ongoing Advisory Service

This plays a key role in ensuring systems are procured and implemented according to the design and specifications. Close collaboration between contractors, architecture teams, internal stakeholders and your IT specialists will ensure implementation challenges are addressed promptly. This guidance and strategic oversight supports *your* long-term scalability and sustainability.

### Innovative Operational Solutions

We identified where advanced IIoT-enabled systems for real-time monitoring and management of terminal technology should be

implemented. Additionally, we introduced AI-driven analytics to optimise passenger flow, resource allocation, and energy management, along with biometric authentication systems to enhance security and streamline and enhance the passenger experience.

### What you get: the bottom line

Rheinberry's contribution to the architecture practice's proposal addressed:

- **Enhanced Passenger Experience:** Introduction of exciting new technologies to reduce wait times and improve navigation and wayfinding within the terminal.
- **Sustainability:** In today's world, it is essential that solutions are energy-efficient to reduce the environmental footprint of airport operations.
- **Future-Readiness:** Design of scalable IT infrastructure to support passenger growth.
- **Reduced Expenditure:** Our design supported the streamlining of operations through integrated IT and physical architecture.

For stakeholders seeking transformative IT solutions aligned with infrastructure development, Rheinberry offers a trusted partnership to achieve strategic objectives. Let us collaborate to shape the future of transportation hubs with intelligent, integrated, and impactful designs.

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