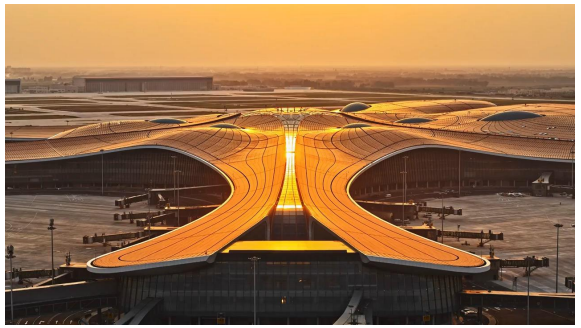
PRACTICAL EXPLORATION OF INTEGRATED CONSTRUCTION AND OPERATION MODEL IN THE NEW AIRPORT CONSTRUCTION PROJECT

CONTENTS

INTRODUCTION



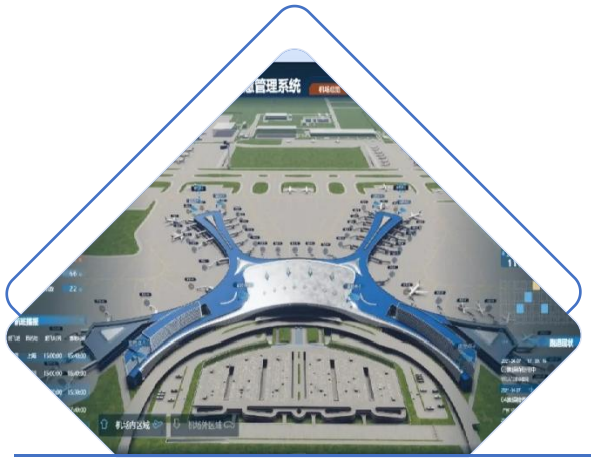





- Airport construction units and operation units were independent ;
- The construction units were only responsible for construction;
- Operational risks and engineering modifications occur .

- In the construction phase, the operational units have not participated in the planning, design and operation preparation;
- Issues related to facility systems, process efficiency, flight commencement procedures, physical assets relocation, scheduling and organizational support occur.

INTRODUCTION



Facility Systems

- Planning and Design;
- Installation;
- Stress Testing;
- Staff Training.

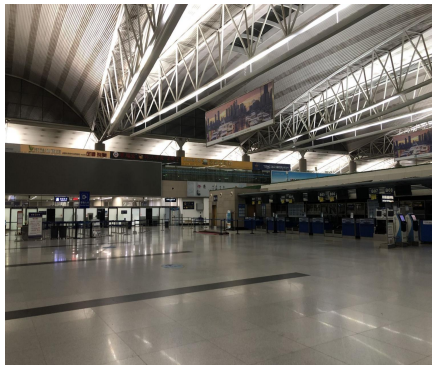
Process Efficiency

- Aircraft operations;
- Passenger boarding;
- Transportation connections;
- Guiding signs;
- Service facilities;
- Resource allocation.

Flight Commencement Procedures

- Calibration flights;
- Test flights;
- Industry acceptance;
- Project acceptance;
- Port acceptance procedures.

INTRODUCTION



Physical Assets Relocation

- Moving Ground Equipment;
- Overnight Transition;
- Dismantling-Assembling-Transporting-Unloading-Adjusting Process.

Time Planning

- Engineering Construction Plan;
- Operation Preparation Plan;
- Testing, Training, Drills, Acceptance.

Organizational Support

- Dual Operations (Old & New Airport);
- Organizational Structure Balance;
- Operational Preparation Mechanisms;
- Risk Resolution Capability.

CONTENTS

DISCUSSION

Planning Highlights——Architectural Design

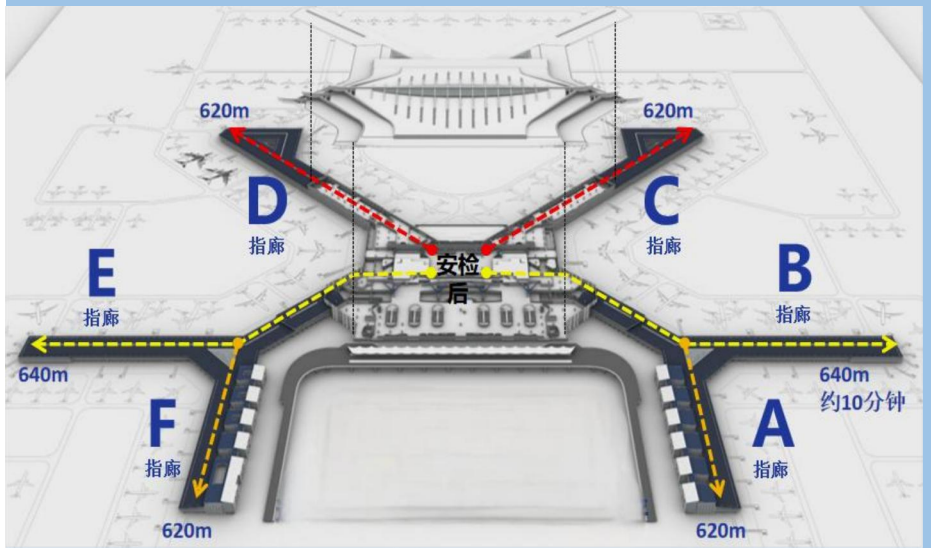
Minnan Grand House | Egret spreads its wings | Jiageng Style | Dragon boat racing | Architectural Memory

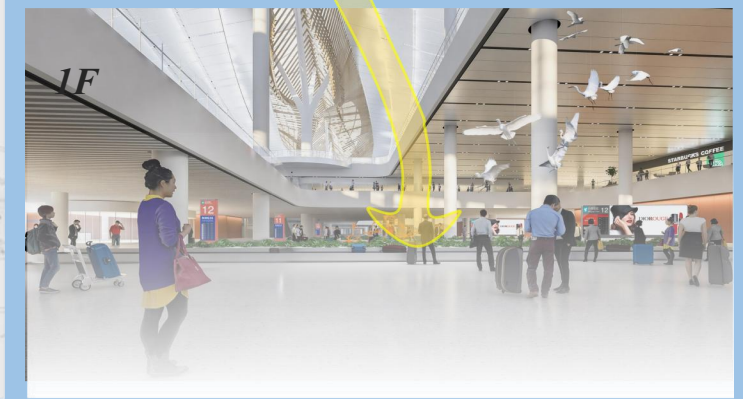
The terminal area buildings incorporate elements of "**Southern Fujian traditional houses**" and "**Tan Kah Kee architecture**", continuing the urban architectural memory of Xiamen Airport. The main building's roof is designed in the form of a three-tiered eave.

DISCUSSION

Planning Highlights——Terminal Configuration

- "One Main Building Plus Six Concourses;
- An average walking distance of no more than 640 meters;
- The 550,000 square meters terminal has as many as 97 close stands.





DISCUSSION

Planning Highlights——Process And Service

Passenger Whole-process Intelligentization

Self-service check-in

Self-service baggage drop

Self-service security check

RFID baggage tracking

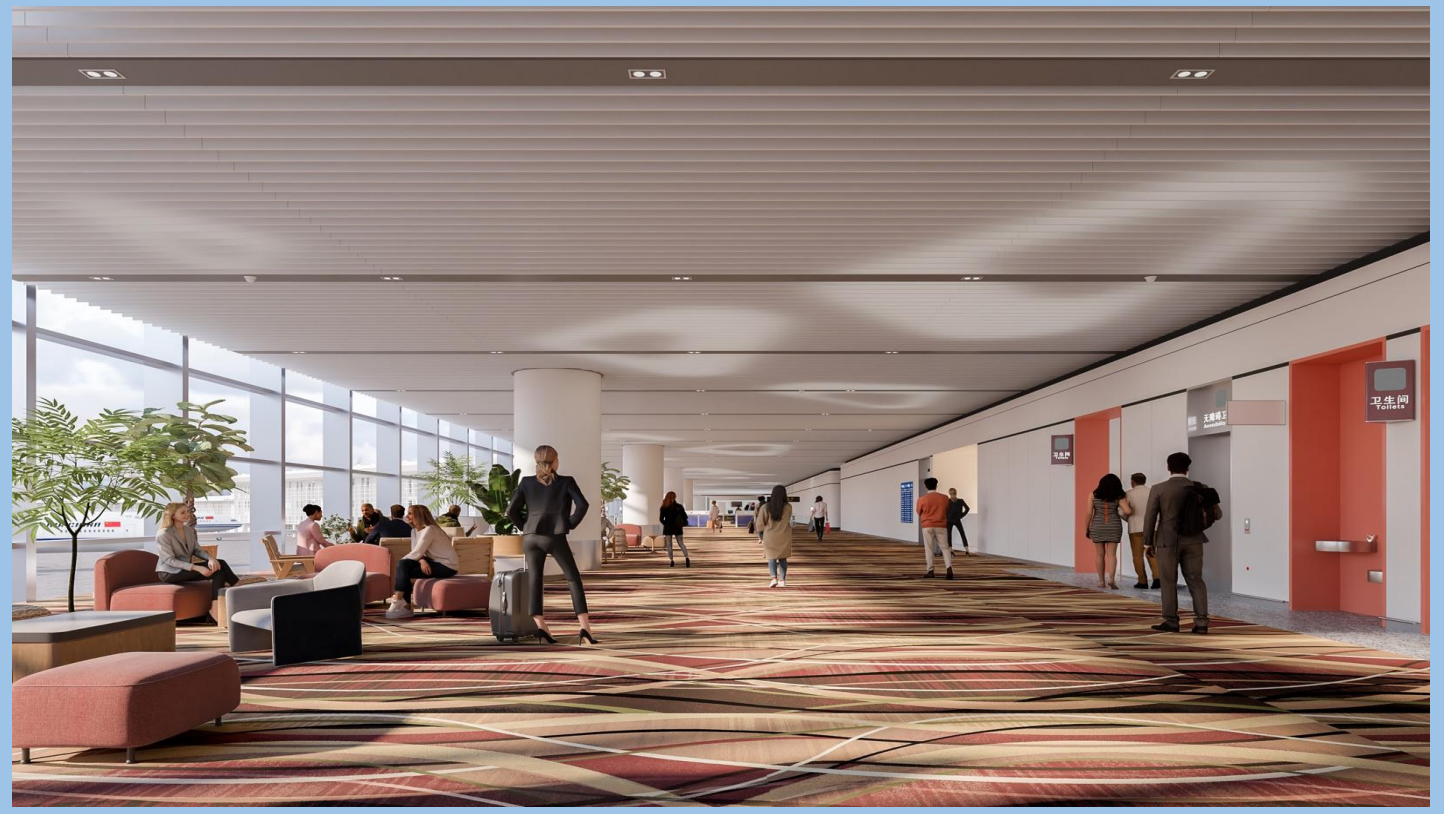
Smart Restroom

- **Humanistic Twenty Scenes ;**
- City Characteristics (Piano Performances, Concerts, Stone Carving Art, Aviation Photography);
- Unbounded Airport.

DISCUSSION

Planning Highlights——Transfer Capabilities

- International Transfer Hub;
- The international transfer function zone is **10,000 square meters;**
- Three flow lines: international to domestic, international to international, and domestic to international.

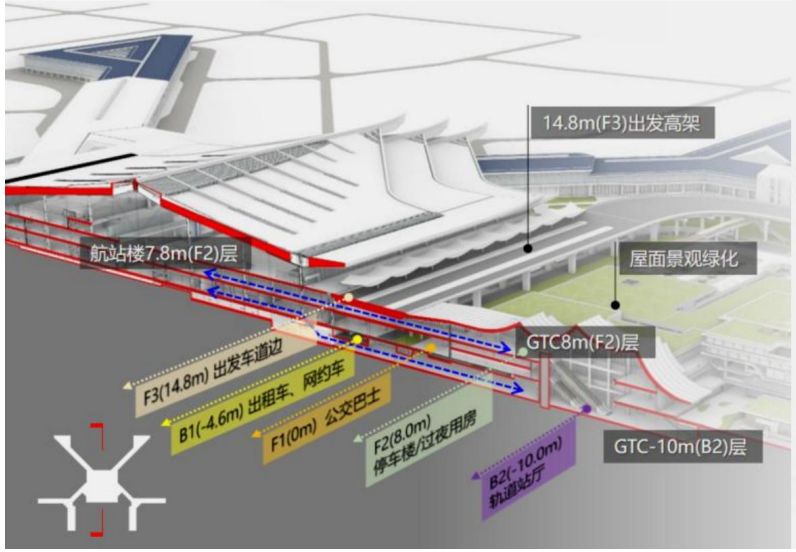


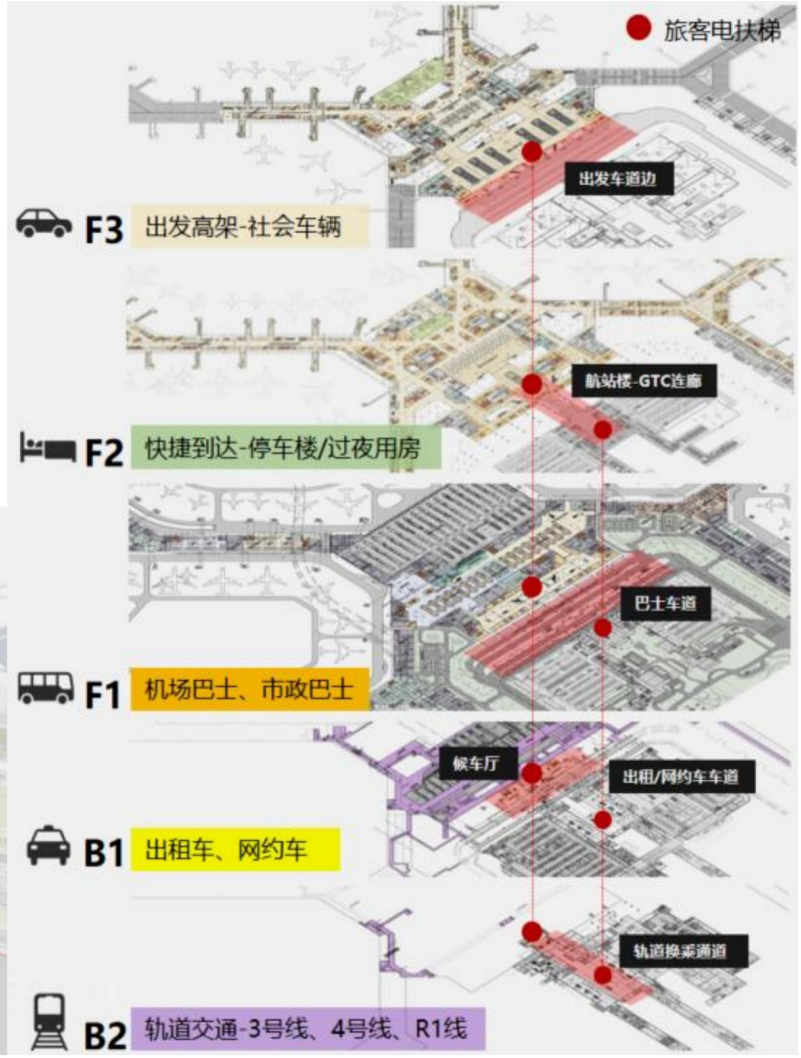
DISCUSSION

Planning Highlights——Comprehensive Transportation

A Multi-level Integrated Transportation Hub

- Long and short-distance buses, public buses,subways,intercity railways, ride-hailing services, and private cars;
- With an overall walking distance of 100-200 meters.



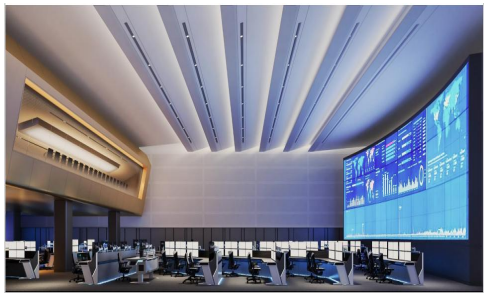


DISCUSSION

Planning Highlights——Smart Airports

- Quantity Surveying and Pricing;
- BIM5D Management Platform;
- Intelligent Construction On-Site;
- Digital Monitoring;
- Smart Operation and Maintenance.

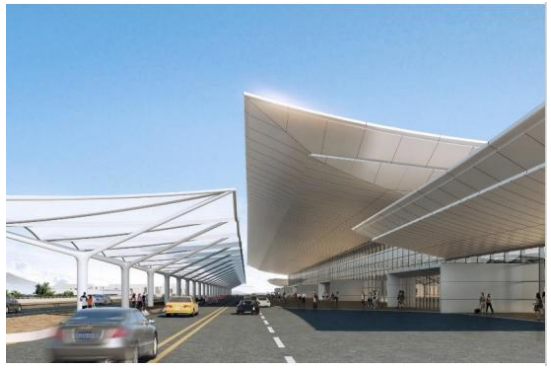
- AI Comprehensive Airport Management;
- Internationa Hub Airport Construction;



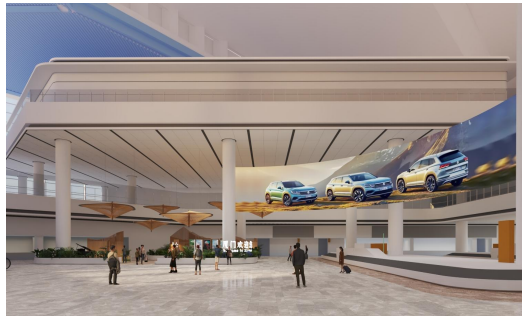
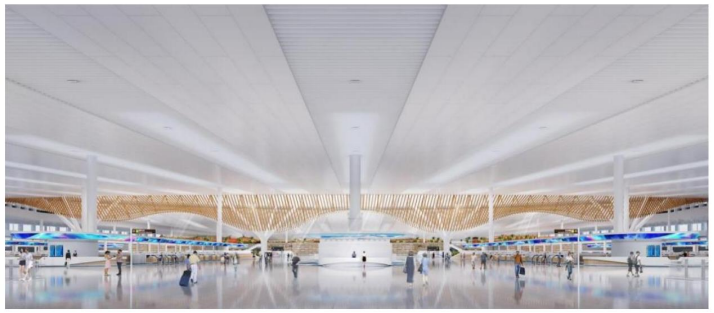
DISCUSSION

Construction and Operation Integration—Organizational Support

- Commissioned Panport Construction Company to be responsible for the overall implementation and promotion of the construction project;
- Selected experienced personnel with airport operation background (aircraft operation, terminal management, commercial management, integrated transportation management, etc.) to establish a new airport liaison office.





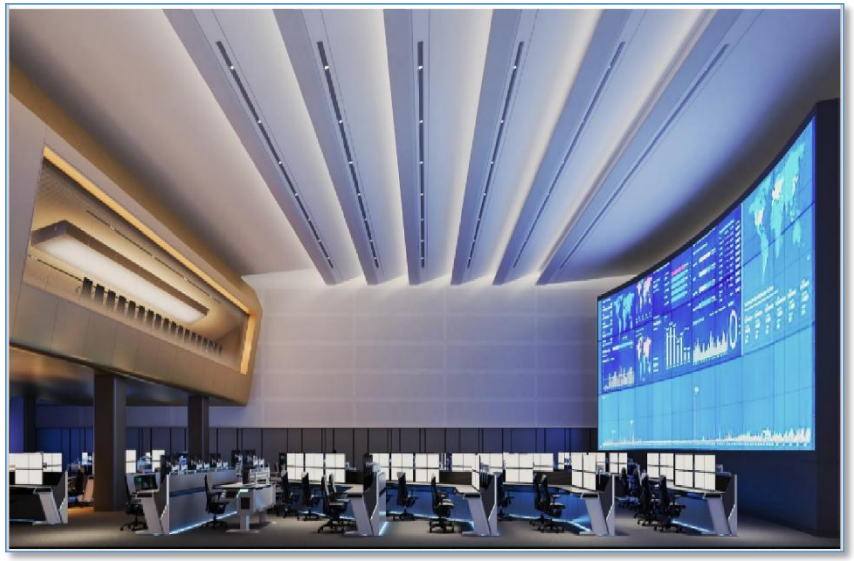



DISCUSSION

Construction and Operation Integration—Work Planning

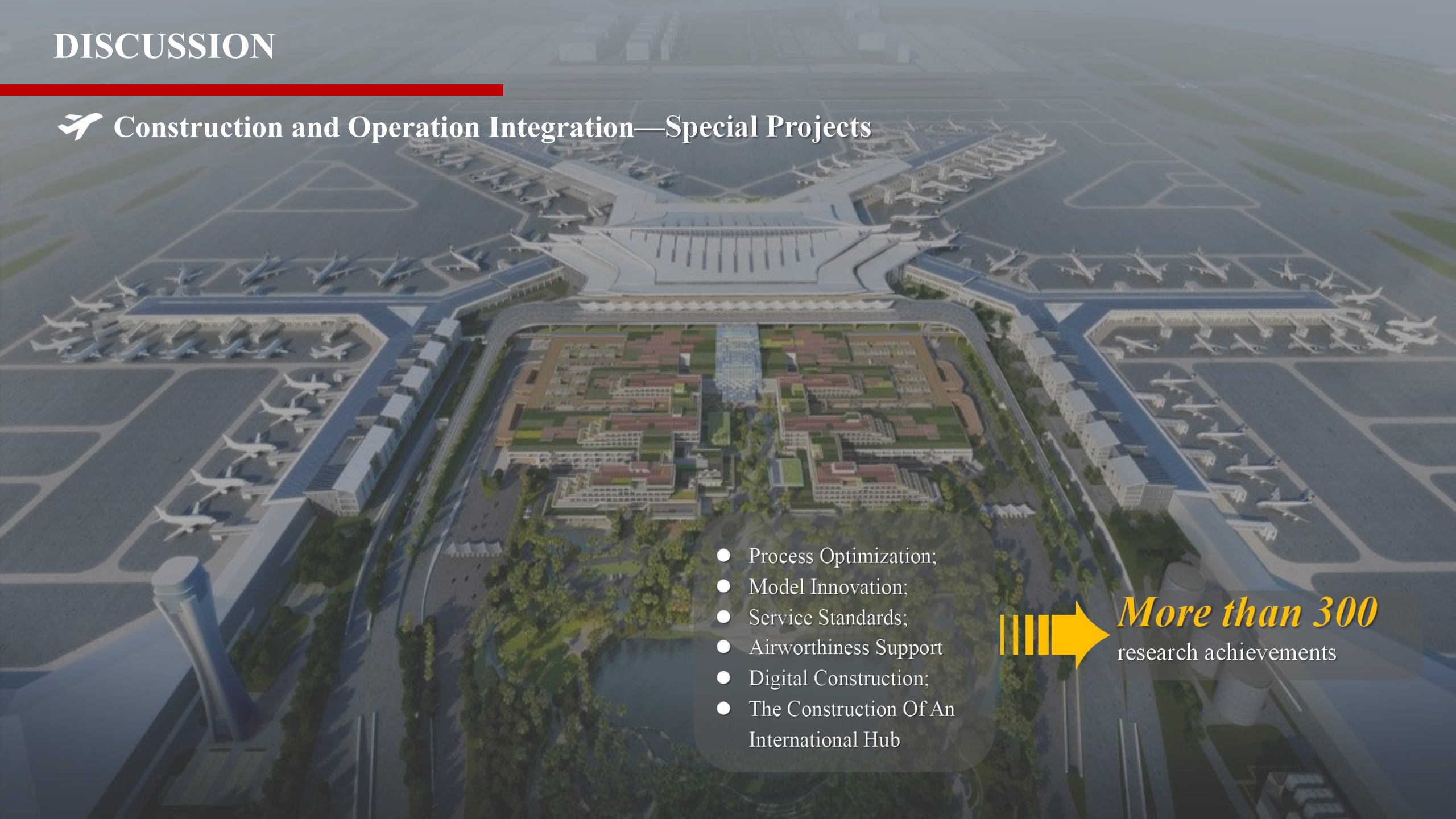
- **“Overall Schedule for the Preparation of the Xiamen New Airport’s Transition Operation”;**
- Which are broken down into four stages: planning, preparation, actual operation, and sprint.

- "1 main line + 7 business lines" ;
- With the help of task supervision and platform coordination systems, the transfer work is steadily advanced.



DISCUSSION

Construction and Operation Integration—Special Projects



- Process Optimization;
- Model Innovation;
- Service Standards;
- Airworthiness Support
- Digital Construction;
- The Construction Of An International Hub

More than 300
research achievements

DISCUSSION

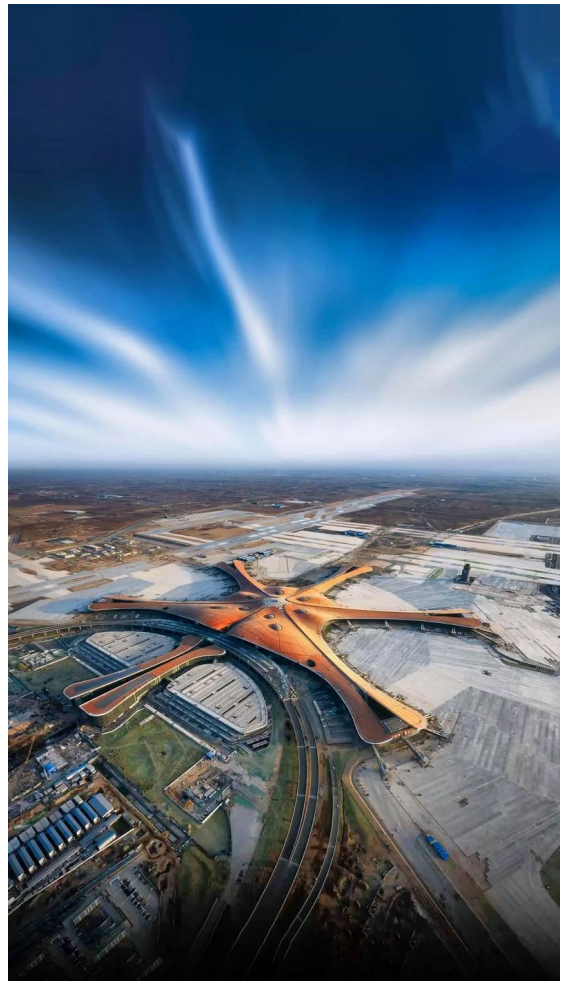
New Airports Worldwide Facing Widespread Safety Challenges when put into operation

How to manage a newly built airport and ensure its safe operation?

Newly built airports are most prone to unsafe incidents and even accidents during the initial phase of operation.

NOTES

By engaging more professional airport operation teams to participate in the later stages of airport construction, it is possible to achieve a smoother integration of airport construction and operational safety.



DISCUSSION

New Airports Worldwide Facing Widespread Safety Challenges when put into operation

2025

42 years

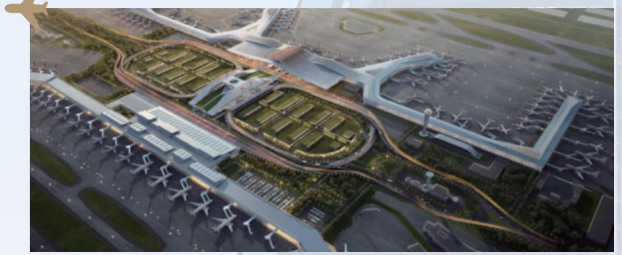
1983

IPORT

Xiamen, Fuzhou, Wuyishan, and Longyan.

The Entire Lifecycle

¥ Investment and Financing → Construction Management → Maintenance



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ACTION BY THE MEETING

- New concepts for the planning and construction of new airports;
- Integrated experiences in airport construction, operation and transition;
- Attention to the operational safety risks of newly built airports;
- Promote the application of the delegation management model.


Thank you for your attention!