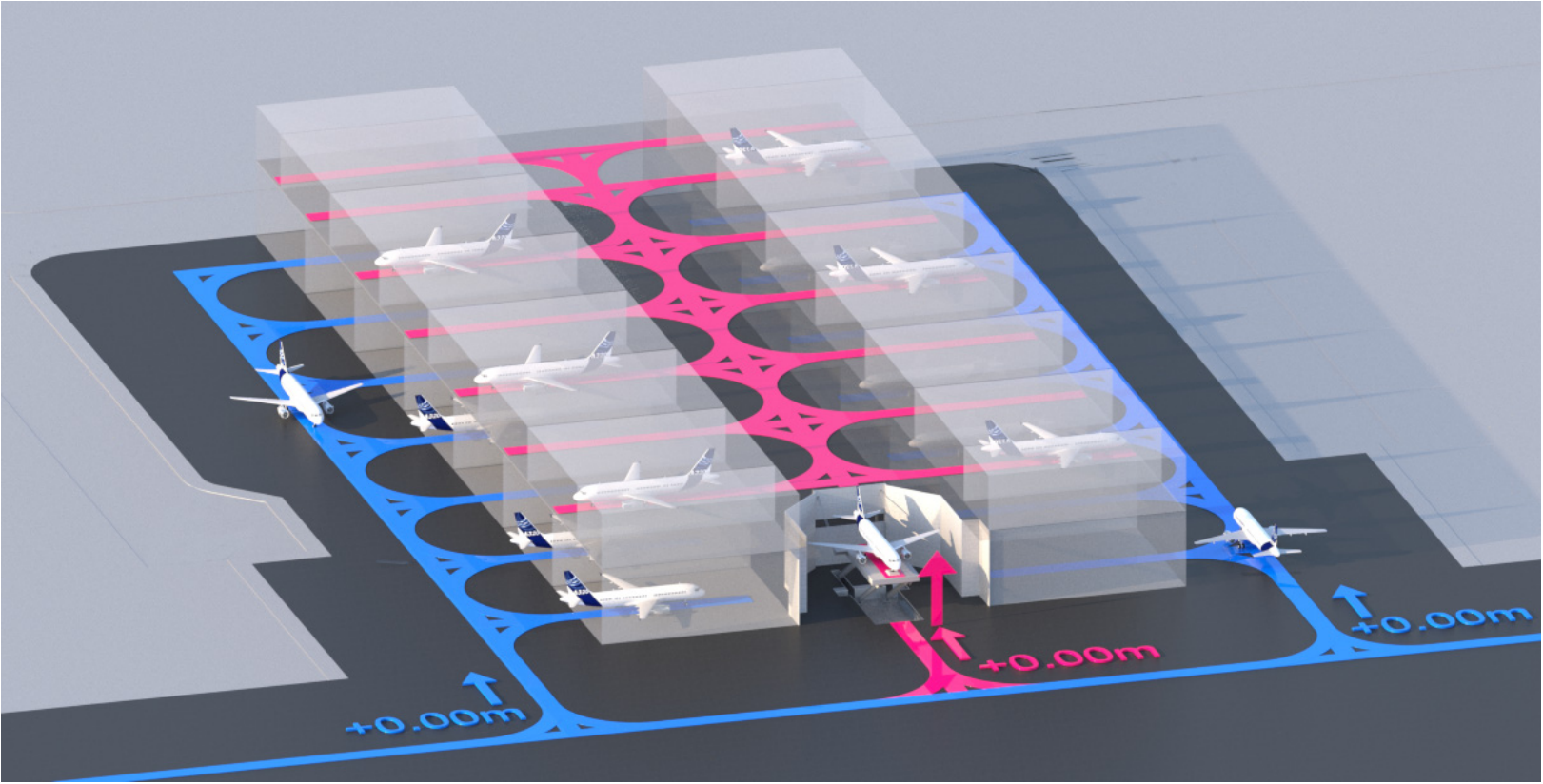


Seletar Airport Hangar Design Criteria

1. Maximize Site Utilization.
2. At least 1.5 times more hangars than convention scheme (14).
3. All bays sized for Code C aircraft and accommodate smaller aircraft.
4. Provide full service aircraft maintenance.
5. Provide support spaces sufficient for hangar operations.
6. Designed for fast and safe independent operations.

Design Solution: Create a two level hangar



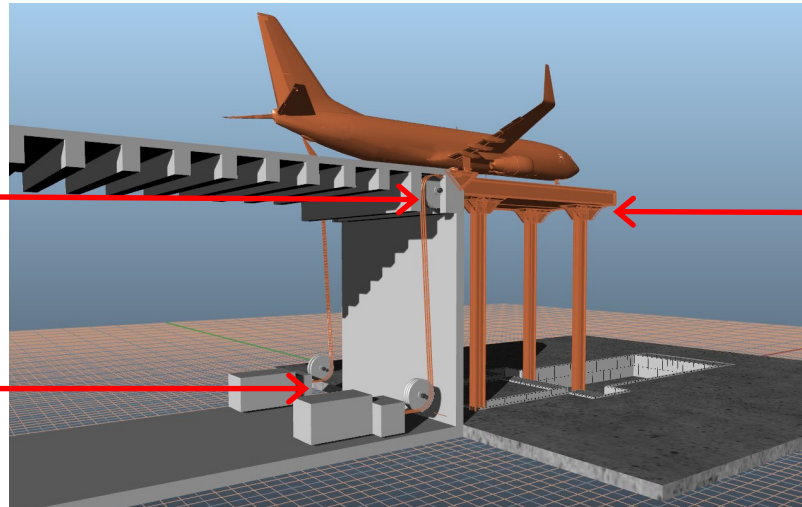
Total Hangars

26

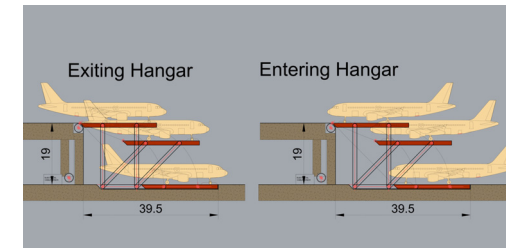
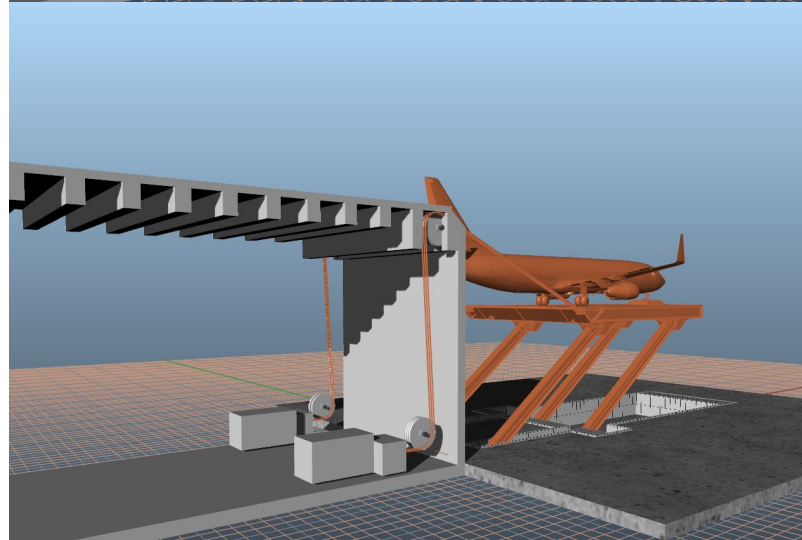
Design Solution: Jet Lift

Dual Axle
100% Redundancy

Dual Winch System
with Clutch Brakes
100% Redundancy

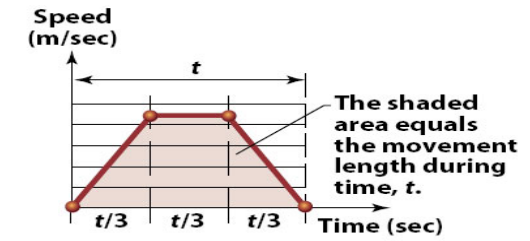


Dual Axle
100% Redundancy
4 Throw Arms
100% Redundancy

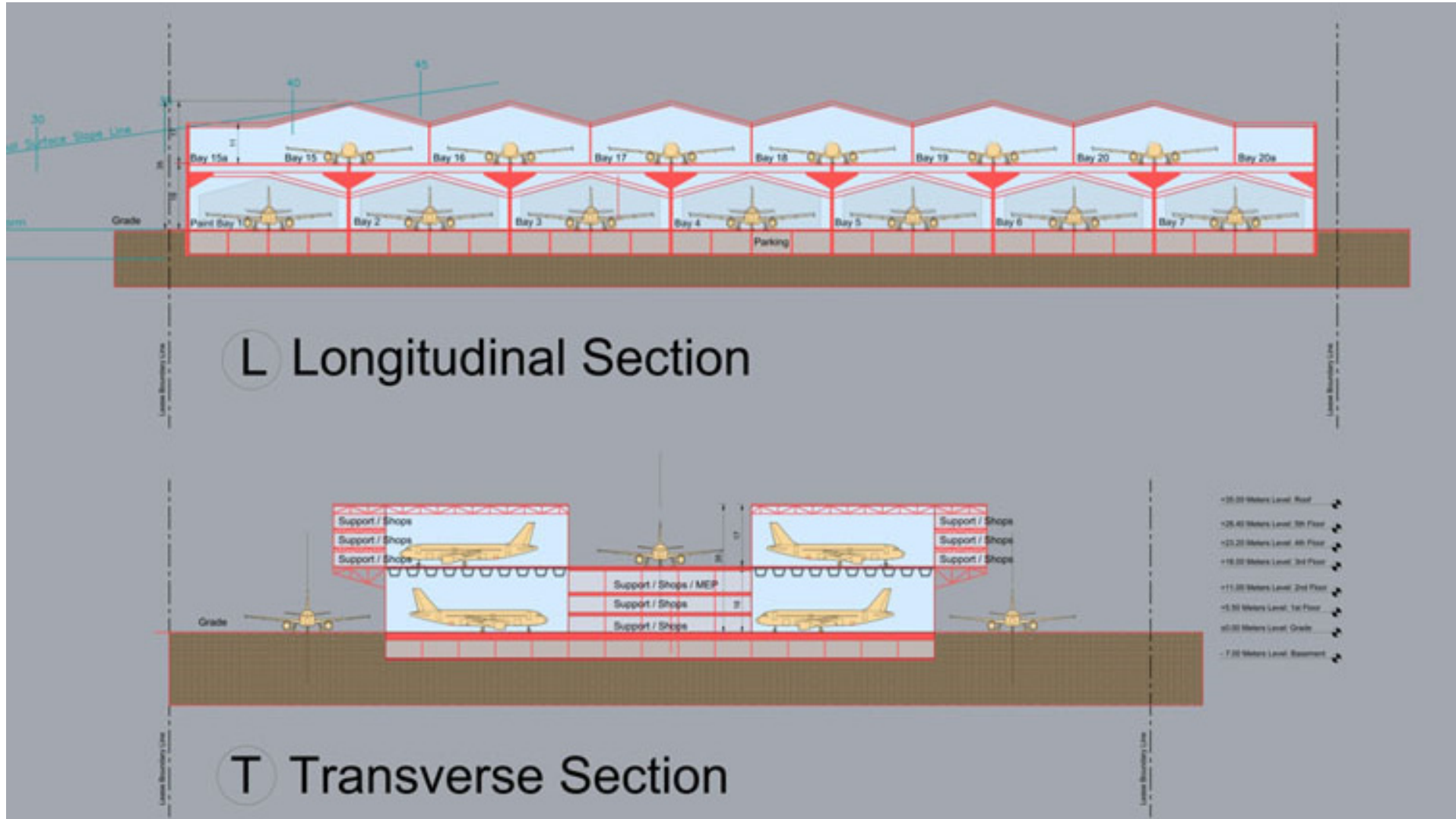


$$d = 2v(t/3) = at^2/4.5$$

	Acceleration	Distance	m/s ²	Total time for mechanical transport	
Mechanical transport time	1.2		4.5		
Mechanical option		25.132 meters		9.7	Seconds
Aircraft Docking / Tug Operations		28 meters		60	Seconds



70 seconds for second level docking

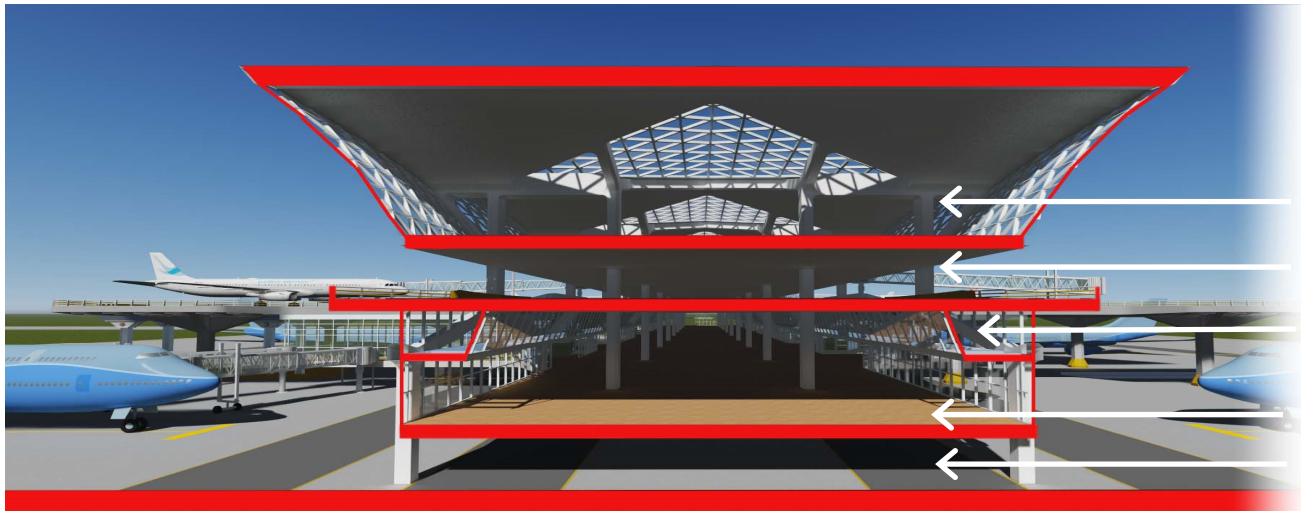




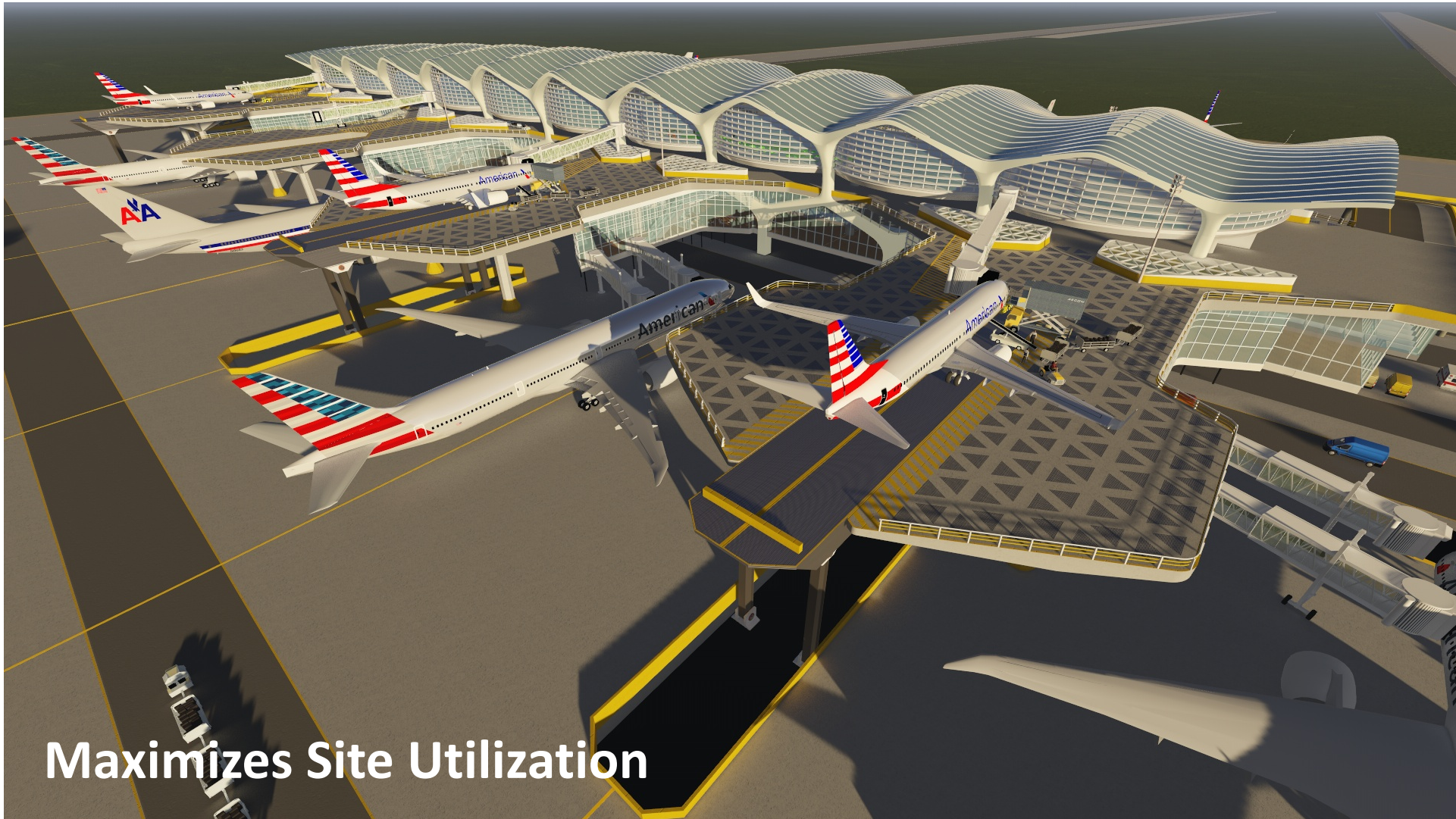


Jet Lift technology applied to Passenger Terminals

Two Level Airport Study Section



- +20m Second Departure Level
- +15m Second Apron Level
- +11.5m Sterile Arrival Corridors
- +5m First Departure Level
- +0m Ground Apron Level



Maximizes Site Utilization



Second Level Apron Operations

CDG Implementation Example +21 C Positions

