

Phil Lazarus

Digital Delivery Leader, O'Hare 21



in https://www.linkedin.com/in/phil-lazarus/

Jacobs

Phil Lazarus | Digital Delivery Leader, O'Hare 21



USC Architecture in 1997 (Licensed 2001) | MBA in 2006

23 year career in 3d-based design and digital engineering

Digital Leadership roles across Asia since 2006

Architects | Engineers | Builders | Property

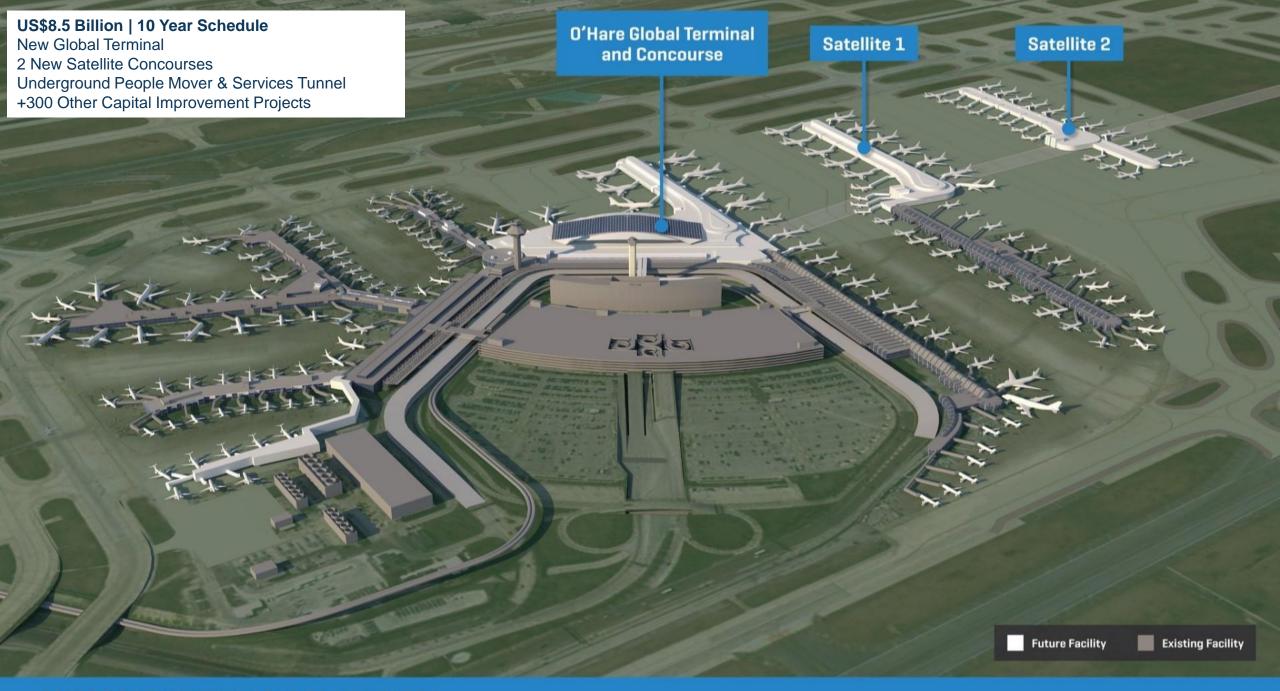
Marina Bay Sands, National Stadium, Tanjong Pagar Centre, Paya Lebar Quarter

Reviewer for Singapore National BIM Standards

Lecturer with Singapore BCA Academy (2010-2018)

Returned to America in December 2019 to lead digital implementation on O'Hare21 Program Management Team

*O*HARE 21





Management Program



Lead Design Consultants

GLOBAL TERMINAL + CONCOURSE

Studi ORD

TUNNEL, CIVIL, UTILITY

HNTB

SATELLITE CONCOURSES

SOM

CMR₁



Construction Managers

CMR₂

CMR₃











TAP

Terminal Area Plan

O'Hare Global Terminal & Concourse Satellite Concourse 1 & 2 Tunnel Connection

CIP

Capital Improvement Plan

Civil & Utility works required to enable TAP and enhance campus operations

BASEMODELING

Conversion of 2D facility & airfield information to BIM (Revit & Civil 3D)

Digital Governance to set deliverable & performance expectations to consultant & contractor teams

BIM 360 Project Hub to host model data for all TAP & CIP projects

GIS implementation by Chicago Department of Aviation for airport operations





CHALLENGES

Consistency in Consultant and Contractor Performance.

Information management at the scale of this program.

Effective collaboration between designers and builders.

Application of BIM across all the projects and program.

Resources available for policing compliance and quality.





DIGITAL GOVERNANCE

Comprehensive data standards are the key to consistent deliverable quality and lay the groundwork for a Digital Twin.

1	Owner s Information Requirements	Outline CDA expectations on estate-wide matters related to information management and digital delivery.
2	CDA Nomenclature Standard	Outline a consistent approach to the naming of CDA project documents, buildings, spaces, and assets.
3	Building Information Modeling Requirements	Outline specific technical modeling requirements for CDA Projects.
4	CADD Standards	Outline specific technical CADD requirements for CDA Projects.
5	Project Documentation Guide Template	To be completed by design team to record the specific Documentation plan for a CDA project.
6	Project BIM Execution Plan Template	To be completed by design team to record the specific delivery characteristics of BIM delivery for a CDA project.
7	File Storage & Sharing Guide	Provide guidance for file sharing and storage in CDA's ProjectWise and BIM 360 environments.
8	Basemap & Basemodel Guide	Provide standards and methodology for use of O'Hare Basemap and Basemodel data.
9	Data Collection & Survey Standards	Provide standards and methodology for use in field survey and data collection.

Software and sharing requirements in place Autodesk Revit, Civil 3D, BIM 360

Deliverables expectations outlined

Facilitate real-time sharing among the design teams Ongoing model review and progress reporting Design to construction handover process outlined Asset data requirements for operational integration

Nomenclature, documentation, and data collection standards

Drive consistency throughout all CDA works

Must be incorporated with department-wide contract requirements and procurement methods.



