

The BIM Conference 2026, Athens-Greece

From Reality to a Digital Record:

Athens International Airport, Scan-to-BIM

From Reality to Digital Record: AIA Scan-to-BIM

WE ARE SALFO & ASSOCIATES



SALFO is a leading **International Engineering and Management Consulting Group**, with headquarters in **Athens**, offering state of the art services in the market, covering a wide spectrum of sectors and clients throughout the project lifecycle.

SALFO provides **project and construction management consulting services** based on in-depth technical expertise and a collaborative approach.

From Reality to Digital Record: AIA Scan-to-BIM

THE PROJECT



Provision of Laser Scanning and Building Information Modelling (BIM) services of Terminal Buildings and surrounding infrastructure

Appointing Party: Design & Construction Department
Technical Services- Athens International Airport

INFORMATION
PRODUCTION

Stage 1

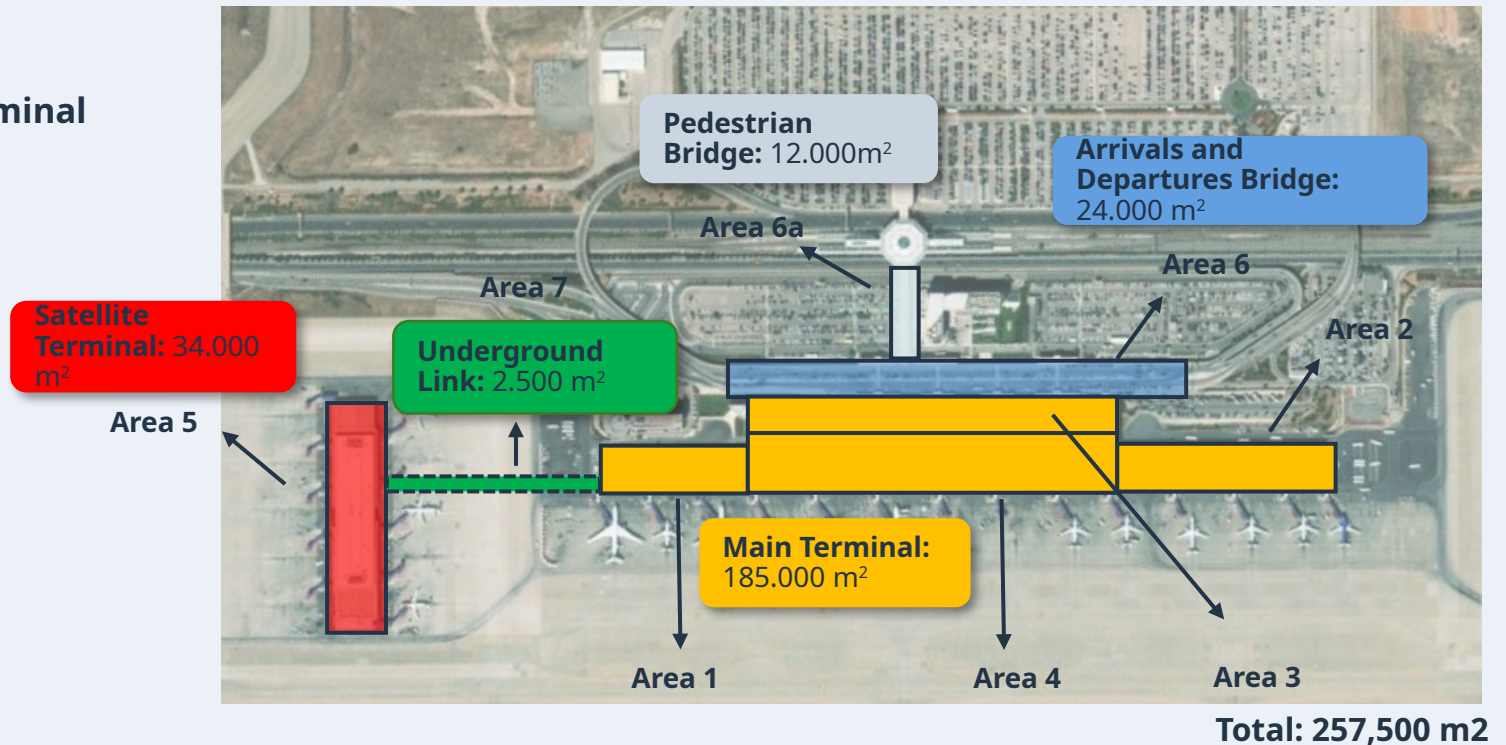
Scanning / Data
Capture

Stage 2

Modelling

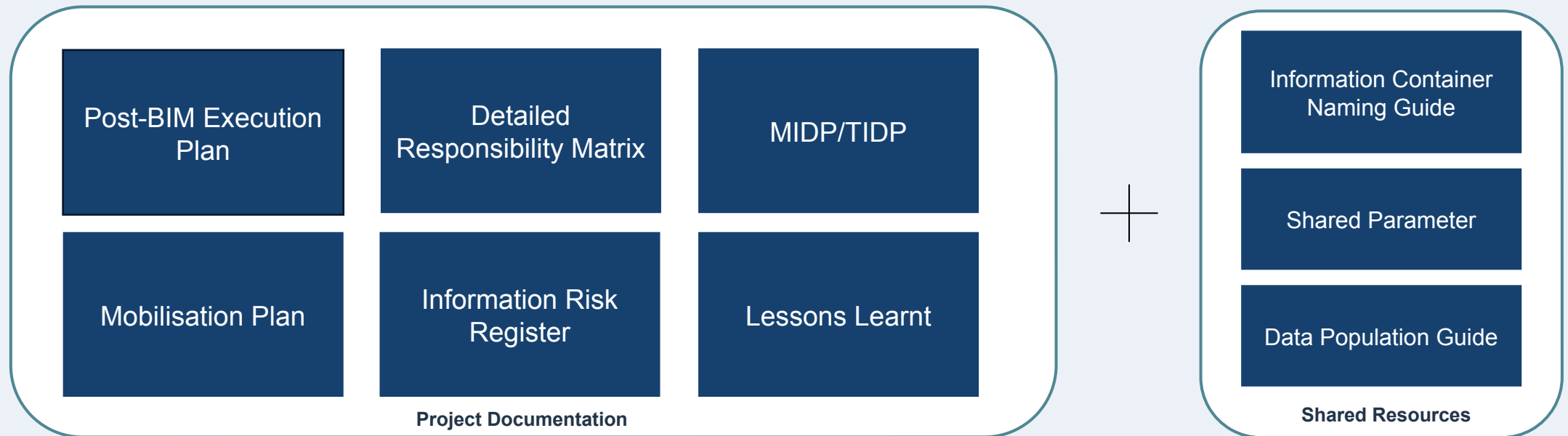
Stage 3

Data / Information



From Reality to Digital Record: AIA Scan-to-BIM

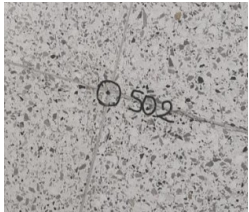
DOCUMENTATION



As per ISO19650

From Reality to Digital Record: AIA Scan-to-BIM

ON-SITE SURVEY WORKS



STEP 1

Establish the control point network

260 fixed reference marks set out across the terminal



STEP 2

Survey the control points

Each mark measured with a total station to fix its coordinates.



NavVis VLX 3 wearable



NavVis MLX handheld

STEP 3

Capture reality

Mobile laser scanning of every space, tied back to the control points.

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SCANNING A LIVE AIRPORT

CHALLENGES



Continuous passenger flow

Restricted access

Refurbishment and occupied areas

Uncontrolled obstructions

Complex layout



Every step was coordinated with airport operations to align with safety and access protocols.

HOW WE HANDLED IT

Scanning during low-peak hours

Team escorted by security and an airport keyholder

Phased execution, prioritized areas first

A Plan B ready, with ad-hoc notes taken on site

Site walkthroughs and access to documentation

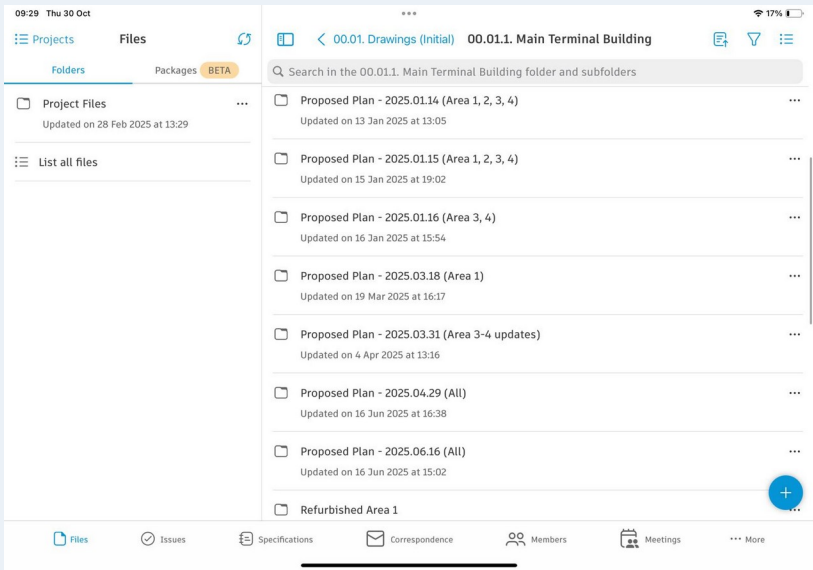


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SCAN PROGRESS – AUTODESK FORMA



Secure access to all project documentation & off-line



On site access to tablet for tracking



iPad

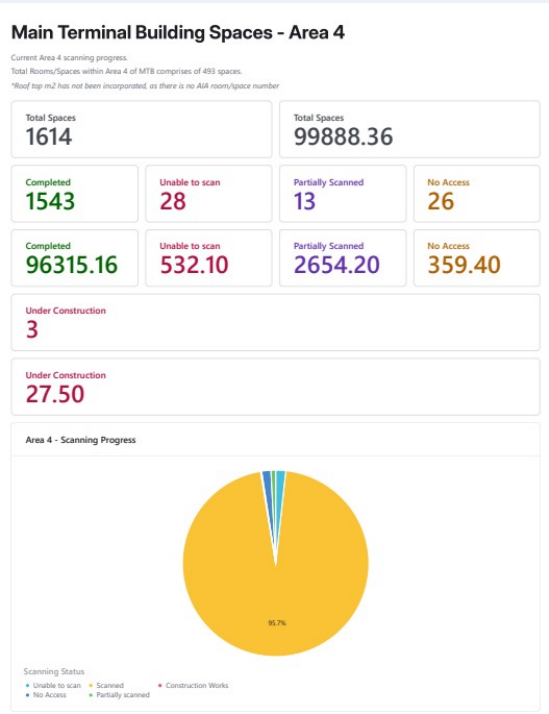
Enables fast, real-time access to drawings, models, and field data directly on site for improved collaboration and efficiency when using the Autodesk Construction Cloud application.

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SCAN PROGRESS - AIRTABLE

Tracker					
Data Automations Interfaces Forms					
Project Location	Location Code	Level	# 2024.016 Section	Scanning Status	Notes
Area 1	001.1/E38	1.00	1	Scanned	
Area 1	001.1/E39	1.00	1	Scanned	
Area 1	001.1/E40	1.00	1	Scanned	
Area 1	001.1/E41	1.00	1	Scanned	
Area 1	001.1/E42	1.00	1	Scanned	
Area 1	001.1/E43	1.00	1	Scanned	
Area 1	001.1/E44	1.00	1	Scanned	
Area 1	001.1/E45	1.00	1	Scanned	
Area 1	001.1/E46	1.00	1	Scanned	
Area 1	001.1/E47	1.00	1	Scanned	
Area 1	001.1/E48	1.00	1	Scanned	
Area 1	001.1/E49	1.00	1	Scanned	
Area 1	001.1/E50	1.00	1	Construction Works	
Area 1	001.1/E50-01	1.00	1	Construction Works	
Area 1	001.1/E51	1.00	1	Construction Works	
Area 1	001.1/E51-01	1.00	1	Construction Works	
Area 1	001.1/E52	1.00	1	Construction Works	
Area 1	001.1/E52-01	1.00	1	Construction Works	
Area 1	001.1/E53	1.00	1	Construction Works	
Area 1	001.1/E56	1.00	1	Construction Works	
Area 1	001.1/E58	1.00	1	Construction Works	



- Manage lists of information
- Ability to customise information
- Bridging tool for information sharing
- Manage information visually

STRUCTURED INFORMATION

From Reality to Digital Record: AIA Scan-to-BIM



CLOSING THE GAP: RFIs AND ISSUES

One place for every question
Each formal RFI is linked to its own issue number

Type of Issues
Conflicting Information, Incomplete Information, Clash, QA/QC

Prioritised Issues
Critical-Moderate-Low

Issue Status
Open, In Review, Pending, In Progress, Closed

Formal RFI forms as per client process

REQUEST FOR INFORMATION (RFI)

Part A: PROJECT & RECORD INFORMATION:

Project Code:	24016	RFI Ref. No	24016-SLF-002-ZZZZZ-RFI-IM-AB-000012
Project:	Laser Scanning and Building Information Modelling (BIM) of Terminal Buildings and surrounding infrastructure		
Raised By: (company / initials)	Sami Kanaan	RFI Issue Date	22/10/2025
Raised For: (Department / individuals)	Vasiliki Koutsimpou		

Part B: REQUEST FOR INFORMATION DISCIPLINE:

Related Discipline	☐ Civil	☐ Architectural	☐ Electrical
	☒ Mechanical	☒ QA/QC	☐ HSE
	☐ Others (Specify:		

Part C: RFI DETAILS:

Subject of Clarification	Missing details	List of Attachments (Tick all provided attachments)
Details of Clarification	Missing details for the pipe connections on Mechanical Room Area 5 Level 3 Grid: 6A-7, C-C3. As of the moment model referenced only as per Scan, requesting details for correct systems and accessories to use. Area 5 Level 3 Grid: 6A-7, C-C3	List attached documents (if any): 1.

Page 1 of 3

Only formal forms acceptable

RFI tracker integrating forms & Forma Issues

Request for Information (RFI) Tracker

AREA	RFI - ISSUE NUMBER	ACC - ISSUE NUMBER	PRIORITY	CATEGORY
Area 3	24016-SLF-001-ZZZZZ-RFI-IM-AB-000092	595	Critical	Conflicting Information
Area 3	24016-SLF-001-ZZZZZ-RFI-IM-AB-000091	675	Critical	Conflicting Information
Area 3	24016-SLF-001-ZZZZZ-RFI-IM-AB-000090	676	Critical	Missing Spot Elevation
Area 3	24016-SLF-001-ZZZZZ-RFI-IM-AB-000097	709	Moderate	Missing Spot Elevation
Area 3	24016-SLF-001-ZZZZZ-RFI-IM-AB-000096	710	Moderate	Connection details
Area 3	24016-SLF-001-ZZZZZ-RFI-IM-AB-000098	711	Critical	Arch layout vs Plumbing layout
Area 3	24016-SLF-001-ZZZZZ-RFI-IM-AB-000120	712	Critical	Verification - sprinkler type
Area 3	24016-SLF-001-ZZZZZ-RFI-IM-AB-000095	713	Moderate	Missing Spot Elevation
Area 3	24016-SLF-001-ZZZZZ-RFI-IM-AB-000094	714	Moderate	Connection details
Area 3	24016-SLF-001-ZZZZZ-RFI-IM-AB-000093	716	Critical	Connection details
Area 3	24016-SLF-001-ZZZZZ-RFI-IM-AB-000119	719	Moderate	Concessionaire connection details
Area 3	24016-SLF-001-ZZZZZ-RFI-IM-AB-000118	720	Moderate	Missing Spot Elevation
Area 3	24016-SLF-001-ZZZZZ-RFI-IM-AB-000117	721	Moderate	Missing Spot Elevation

Each RFI has its own Forma Issue number associated to it

Tracked in Autodesk Form

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CLOSING THE GAP: RFIs AND

24016 - Athens International Airport (Scan to BIM)

Issue Detail - A5_MEC_II_Missing details

Issue detail

#7796: A5_MEC_II_Missing details

SALFO

ENGINEERING & MANAGEMENT

Standard fields

Status

Pending

Type

II Issue Type > Incomplete Information

Description

Missing details for the pipe connections on Mechanical Room Area 5 Level 3 Grid: 6A-7, C-C3. As of the moment model referenced only as per Scan, requesting details for correct systems and accessories to use

Custom fields

Discipline

MEC

Area

—

Priority

2 - Moderate

Comments

Sami Kenaan

Oct 16, 2025, 11:11 AM EEST

RFI: 24016-SLF-002-ZZZZZ-RFI-IM-AB-000012

Issue #7796

Details

Activity log

Unpublish

Delete

Title

A5_MEC_II_Missing details

Status

Pending

Draft

Open

Pending

In progress

In review

Closed

Issue Type

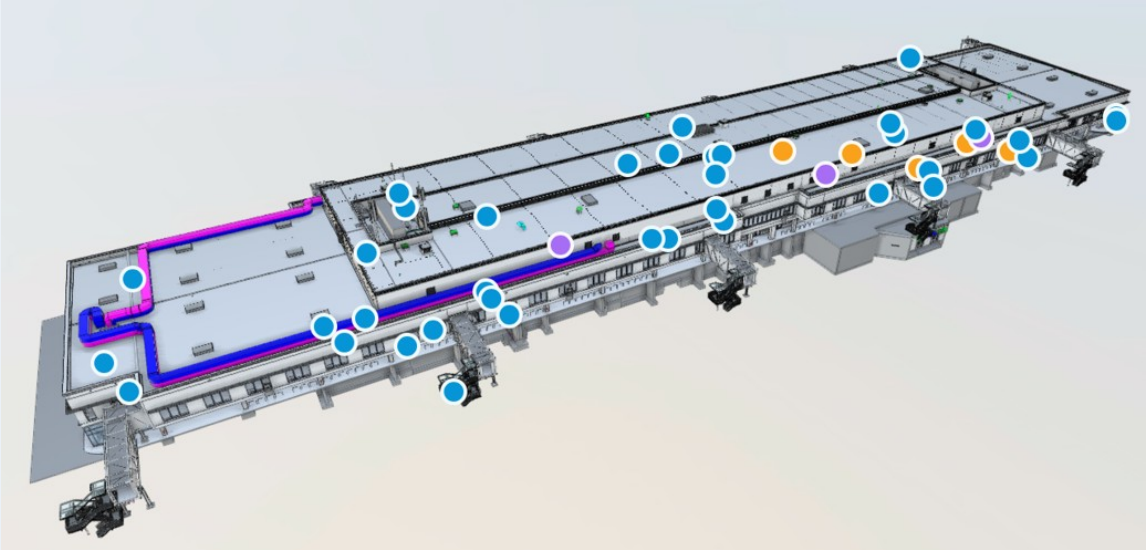
CL Clash

CI Conflicting Information

FYI For Information only

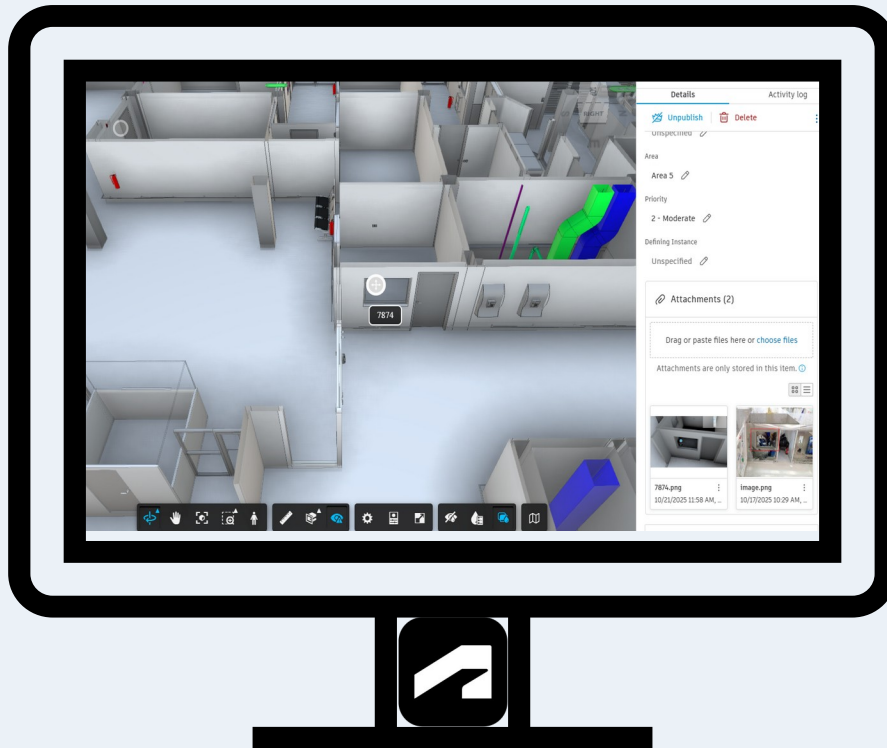
II Incomplete Information

QA QA/QC

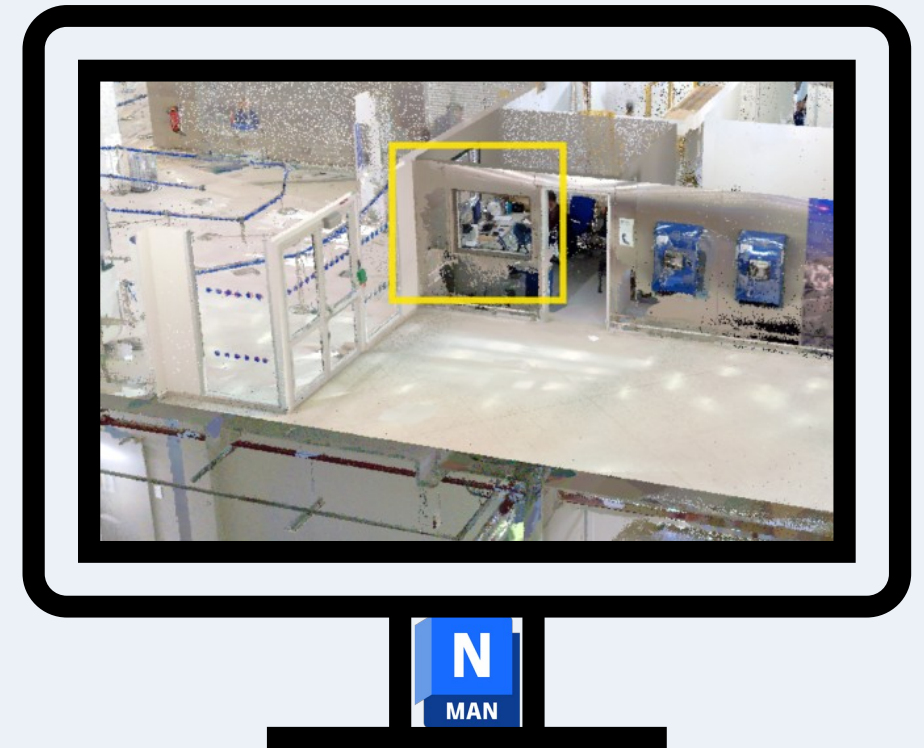


From Reality to Digital Record: AIA Scan-to-BIM

REVIEWING INFORMATION



+

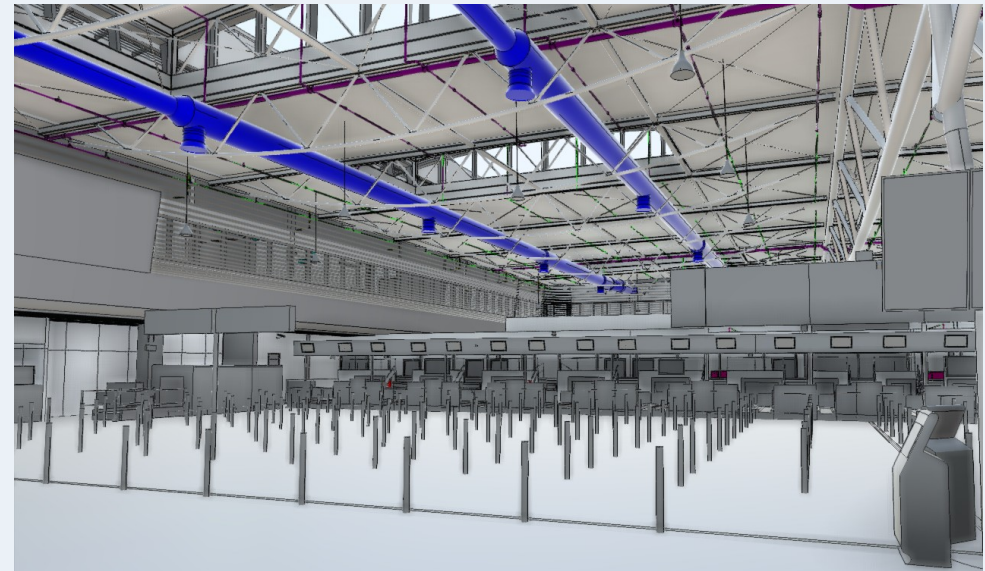


From Reality to Digital Record: AIA Scan-to-BIM

FROM SCAN TO MODEL



Reality capture – point cloud

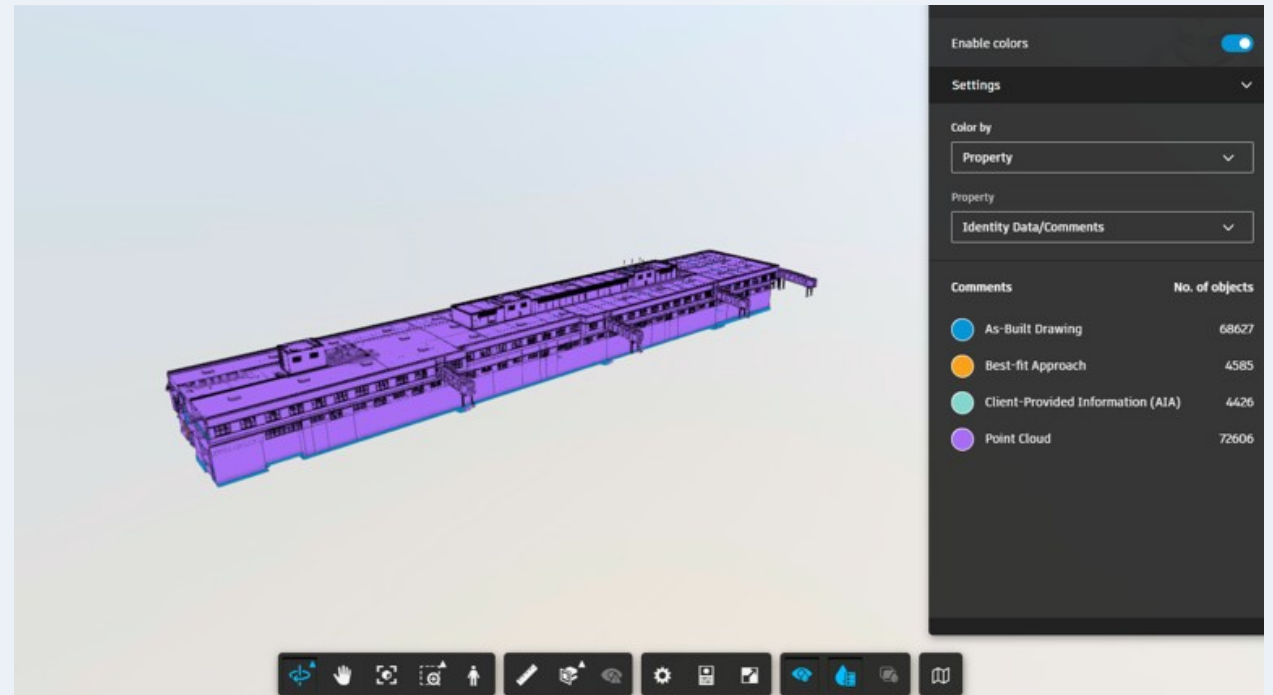


Digital record – BIM model

From Reality to Digital Record: AIA Scan-to-BIM

WHERE DID EACH ELEMENT COME FROM?

- 1 Scanned information**
Captured directly from the point cloud. The primary source.
- 2 As-built drawings**
Used where scans are unavailable or inaccessible.
- 3 Client-provided information**
Supplied through RFIs where the scan could not capture it.
- 4 Best-fit approach**
Approximated where nothing can be provided or verified.



One parameter records the source of every modelled element.

From Reality to Digital Record: AIA Scan-to-BIM

THE SITE

Live Airport

257,500m

2

260 control
points

8 survey
areas

3,705 spaces scanned

SCAN FILES

Reality Capture

1.20 TB

264 RCS files

8 RCP files

MODEL FILES

Digital Record

27 GB

75 RVT

69 IFC 2x3

61 NWC

9 NWD



Challenge: point cloud file size. Further segregation of the scan data.

From Reality to Digital Record: AIA Scan-to-BIM

WHAT INFORMATION DO WE NEED? - DEFINE



DOCUMENT INFORMATION		
	PROJECT NUMBER	24016
	PROJECT NAME	Athens International Airport (Scan to BIM)
	DOCUMENT REFERENCE	24016-SLF-XXX-XXXXX-DTB-IM-AB-000002
	DOCUMENT TITLE	Detailed Responsibility Matrix
DOCUMENT CONTENTS		
SHEET NUMBER / NAME	DESCRIPTION	
LOD Req.	Level of information requirements and responsibility definition	
LOD Responsibility Matrix	Level of information requirements and responsibility matrix	
Key Asset Requirements	This tab lists out all the key assets identified and the information requirements	
Additional Information Attributes	This tab lists out all other information required for specific assets	
Revit Parameters	This tab illustrates example information inputs (expected entries)	
Uniclass_Pr	This tab lists out all Uniclass Product Numbers and Descriptions utilised (JANUARY 2024 v1.33)	
Examples	This tab illustrates some examples of information input within the Native Model	
Exclusions	This tab lists out exclusions	
REFERENCE DOCUMENTS		
NAME	REVISION	DOCUMENT REFERENCE
BIM Execution Plan	P03	24016-SLF-XXX-XXXXX-PLN-IM-AB-000001
Exchange Information Requirements	0.0	S2B24-TES-001-ZZ-PL-O-00001
Scope of Services	0.0	Scope of Services & Project Deliverables
DOCUMENT NOTES		
This document may change, depending on the requirements. If object components are not present within the specific project, the detailed responsibility matrix will be updated to convey this. This is a two way process.		
DOCUMENT CONTROL		
REVISION	STATUS	ISSUE DATE
		EDITED BY
		APPROVED BY
		NOTES

LOD Requirements

Uniclass Classification List

LOD Responsibility Matrix

Information Examples

Key Asset Requirements

Exclusions

Information Attributes

Revit Parameter List

From Reality to Digital Record: AIA Scan-to-BIM

WHAT INFORMATION DO WE NEED? - STRUCTURE



Key:			The following table outlines all the assets which are included in the models, in reference to the information which has been utilised from the scans as well as the as-built drawings. In doing so, a list of assets (elements) has been created in detail in order to break down the information requirements for all assets.																												
N		Not Required (No)																													
Y		Required (Yes)																													
A		Automatically Generated																													
W/A		Where applicable																													
Asset			Purpose / Requirement				Classification		Asset Information																						
									AIA Parameters / Maximo (Instance)																						
Descriptions			Tags on Sheets?*	*Information needed for tags	Materials Required?	Asset Information Required? (GOBIE / Asset registry etc.)	Classification Uniclass Pr Number	Classification Uniclass Pr Description	AIA_Asset_Maintainable	AIA_Building	AIA_Function	AIA_Discipline	AIA_Level	AIA_RoomSpace	AIA_AssetType	AIA_AssetDescription	AIA_AssetComponentName	AIA_AssetType	AIA_CategoryClassification	AIA_System	AIA_ClassificationSystem	AIA_Manufacturer	AIA_ModeNumber	AIA_Label_ID	AIA_Label_ID_Tag	AIA_Label_ID_1	AIA_Label_ID_2	AIA_Label_ID_3	AIA_Asset_ID	AIA_ModeSource	AIA_MaximoID
Security	Security Devices	Green / White Box	☑	Code Number, Designation/Distribution/Circuit Number	☐	☑	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	VIA	VIA	VIA	VIA	Y	Y	Y	
	Security Devices	Request to Exit	☑	Code Number, Designation/Distribution/Circuit Number	☐	☑	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	VIA	VIA	VIA	VIA	Y	Y	Y	
	Security Devices	Card Reader	☑	Code Number, Designation/Distribution/Circuit Number	☐	☑	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	VIA	VIA	VIA	VIA	Y	Y	Y	
	Security Devices	Fixed Dome IP camera	☑	Code Number, Designation/Distribution/Circuit Number	☐	☑	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	VIA	VIA	VIA	VIA	Y	Y	Y	
	Security Devices	360° IP camera	☑	Code Number, Designation/Distribution/Circuit Number	☐	☑	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	VIA	VIA	VIA	VIA	Y	Y	Y	
	Security Devices	180° IP camera	☑	Code Number, Designation/Distribution/Circuit Number	☐	☑	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	VIA	VIA	VIA	VIA	Y	Y	Y	
	Security Devices	PTZ Dome camera	☑	Code Number, Designation/Distribution/Circuit Number	☐	☑	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	VIA	VIA	VIA	VIA	Y	Y	Y	
	Security Devices	Bullet Fixed camera	☑	Code Number, Designation/Distribution/Circuit Number	☐	☑	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	VIA	VIA	VIA	VIA	Y	Y	Y	
	Security Devices	Storage Device	☑	Code Number, Designation/Distribution/Circuit Number	☐	☑	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y	VIA	VIA	VIA	VIA	Y	Y	Y	

DEFINE WHAT IS NEEDED

STRUCTURE YOUR INFORMATION

BREAKDOWN PER ELEMENT

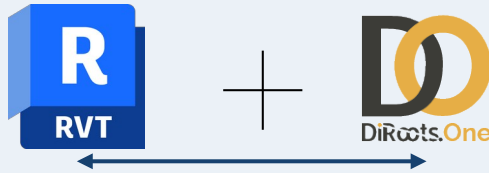
DEFINE WHERE THIS INFORMATION LIVES

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WHAT INFORMATION DO WE NEED? - POPULATE



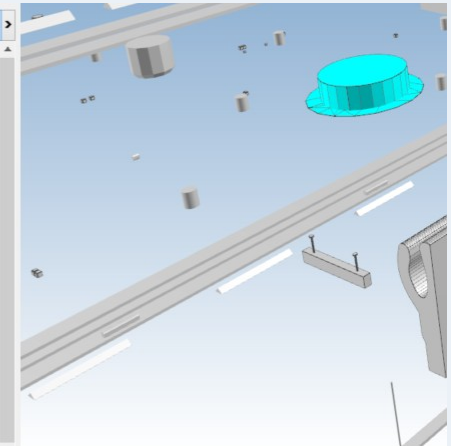
Data Input



All AIA_Parameters														
	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y
Idmg	Aia_CategoryClassification	Aia_Cat1Classification	Aia_Disruptive	Aia_Function	Aia_Label_0	Aia_Label_0_2	Aia_Label_0_2	Aia_Label_0_3	Aia_Level	Aia_Suspension	Aia_Material	Aia_Systems	Aia_Subsystems	Aia_Mode
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				00	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	-1/2 MONITOR SCREEN /12		MONITOR SCREEN		01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	5-0000/S /1,2,03		5-0000/S	1,02,03	01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	CF /1	1	CF		01	PHILIPS	n/a	n/a	n/a	24016-PC00-00-22222
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Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
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Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	PHILIPS	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	CC /1		CC		01	PHILIPS	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	CC /15	15	CC		01	PHILIPS	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	CC /1		CC		01	PHILIPS	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	CC /15	15	CC		01	PHILIPS	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
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Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
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Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a	n/a	n/a	n/a	24016-PC00-00-22222
Pt_40_20_25 : Display and present n/a	n/a	n/a	Electrical	INT	n/a				01	n/a				

Results

Summary	Location	Material	PartOf	Conflicts	Data
Property			Value		
/IA_AssetComponentName		BCP_E_CDE_Speaker_Round	2254482		
/IA_AssetDescription		Clock			
/IA_AssetType		Fixed			
/IA_AssetTypeNames		BCP_E_CDE_Speaker_Round			
/IA_Asset_ID		001_1SsqJn7vAZwZG6v3PARE			
/IA_Asset_Maintainable		True			
/IA_Building		001			
/IA_CategoryClassification		Pr_75_75_94_15 : Audio output devices			
/IA_ClassificationSystem		n/a			
/IA_Discipline		Electrical			
/IA_Function		INT			
/IA_Label_ID		07-2-04 /PA-D207			
/IA_Label_ID_1		07-2-04			
/IA_Label_ID_2		PA-D207			
/IA_Level		02			
/IA_Manufacturer		DYNACORD			
/IA_Material		n/a			
/IA_Maximo_ID		n/a			
/IA_ModelNumber		n/a			
/IA_ModelSource		24016-BCP-001-ZZZZZ-M3D-E_-AB-100001			
/IA_Room/Space		2/E21-01			
/IA_System		Communication			
/Classification.Uniclass.Pr.Description		Audio output devices			
/Classification.Uniclass.Pr.Number		Pr_75_75_94_15			



From Reality to Digital Record: AIA Scan-to-BIM

DIGITAL BASELINE FOR THE FUTURE



INFORMATION IS **KEY**

Now there is a record that can be used to:

- Verify existing as-built information against reality, reducing uncertainty
- Track what has changed, where and document them
- Enrich the models with asset information
- Support operations, maintenance and internal workflows

The BIM Conference 2026, Athens-Greece

Thank you!



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