



PHOENIX CONSULTORES

an Autodesk AECO Technology Partner

CORPORATE
PRESENTATION

WE ARE BIM MANAGERS

 **AUTODESK**
AECO Technology Partner

 **AUTODESK**
Authorized Developer

 **AUTODESK**
Group Network

Website
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PROJECT: WALMART CEDI
LOCATION: EL COYOL - COSTA RICA



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OUR CAPTAIN



ARCH. ROGELIO AGUILAR

Director

email: raguilar@phoenixaec.com

- Bachelor's Degree in Architecture and Urban Planning.
 - Active registered member of the Federated College of Engineers and Architects of Costa Rica CFIA # A-31358.
 - BIM Technical Director / BIM Manager.
 - BIM Consultant for the Inter-American Development Bank (IDB) / 2019 -2020.
-
- Licenciado en Arquitectura y Urbanismo.
 - Miembro activo del Colegio Federado de Ingenieros y Arquitectos de Costa Rica CFIA # A-31358.
 - Director Técnico BIM.
 - Consultor del Banco Interamericano de Desarrollo BID / 2019 -2020.



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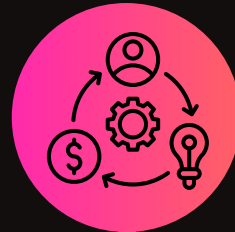
MILESTONES & ROADMAP

2019



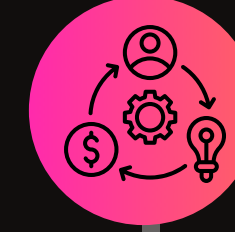
We became the first Autodesk Authorized Training Center (ATC) in Costa Rica while expanding our core services into residential and commercial BIM development across the Costa Rican Pacific region.

2021-2022



We achieved high-level BIM implementation across major regional projects, including international milestones such as El Salvador's first self-sustainable Data Center and key institutional infrastructure like the Puntarenas Hospital in Costa Rica.

2026



Autodesk designated us as their first technology development partners in Costa Rica. During this period, we delivered over 3,000 sq. m of specialized BIM implementation for Avianca and launched our free BIM Academy which was officially recognized by Autodesk as Latin America's second Autodesk Group Network community.

2018

Marked our company's incorporation and the kickoff of our corporate training initiatives, reaching a key milestone of training more than 560 students.



2020

Selected by the Inter-American Development Bank (IDB) as lead consultants to establish Costa Rica's official National BIM Roadmap.

2023-2024



We were selected as the BIM Managers for Walmart's first regional frozen and refrigerated distribution center, leading digital management for a landmark 25,000 sq.m cold-storage project.



PROJECT: DATA CENTER DATATRUST
LOCATION: LA LIBERTAD - EL SALVADOR



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KEY FEATURES

Our BIM methodology is built on a foundation of precision and standardization mitigating construction risks, eliminating on-site rework, and ensuring seamless coordination from design to facility management.



01

ISO 19650 Compliance

Strict execution under the BIM Execution Plan (BEP), ensuring clear data structures, unified naming conventions, and smooth Common Data Environment (CDE) management.

02

QA/QC & Clash Detection

Rigorous collision matrix protocols (MEP vs. Structure vs. Architecture) prior to construction to eliminate costly rework and site delays.

03

Level of Development (LOD)

Tailored geometry and metadata definition (from LOD 100 to LOD 500/As-Built), ensuring every element carries exact real-world specifications.

04

OpenBIM Interoperability

Open-format workflows based on IFC and BCF standards, guaranteeing loss free collaboration across all engineering software and platforms.

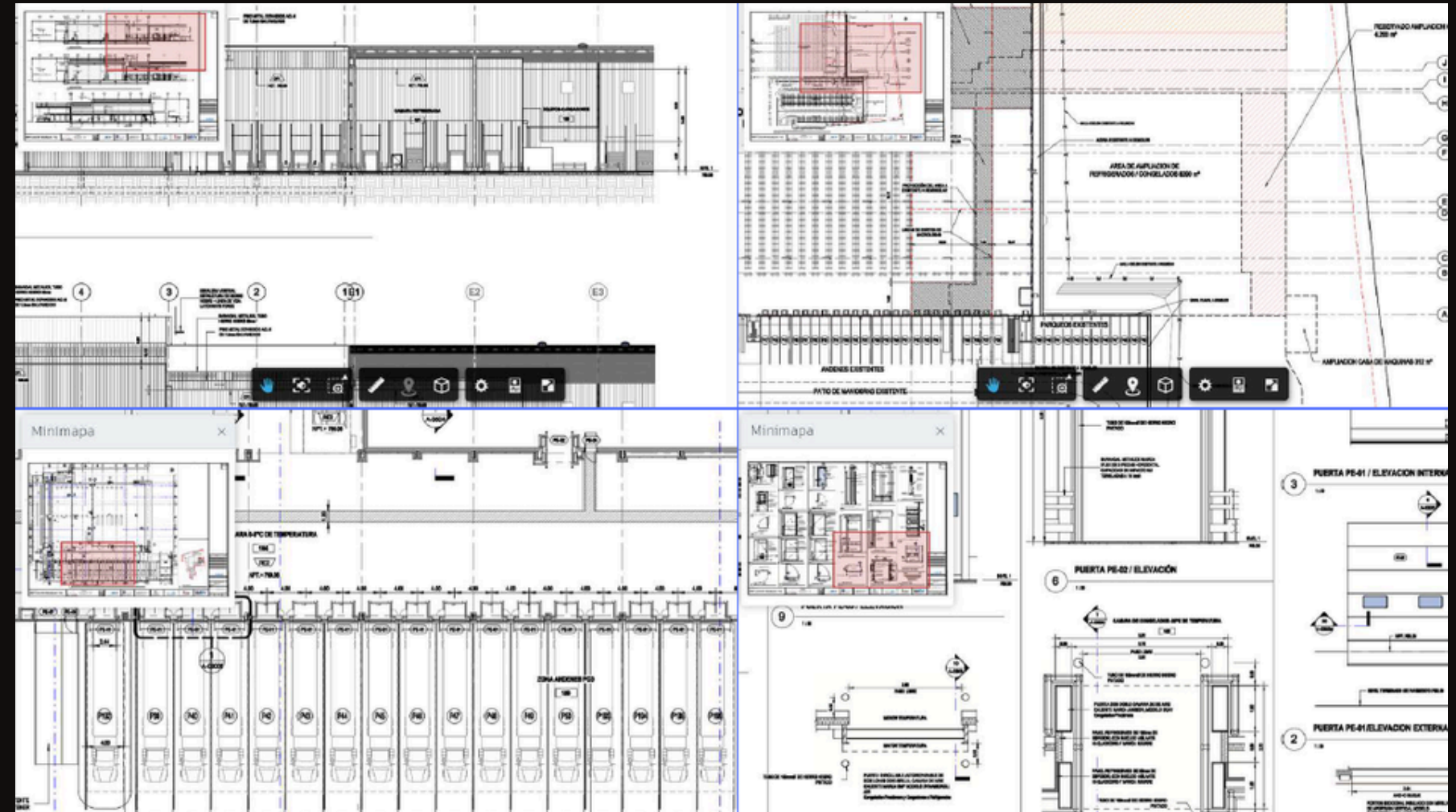


PROJECT: PUNTA PENCA 27
LOCATION: LAS CATALINAS - COSTA RICA



THE CHALLENGE

The AEC industry faces a growing demand for faster execution, tighter budgets, and increasingly complex architecture. However, traditional workflows and low-quality 3D models continue to severely limit project outcomes. When BIM is implemented without strict standards or rigorous quality control, design interferences go undetected until assembly, communication breaks down across fragmented engineering disciplines, and critical data is lost before reaching the construction site. This lack of standardization inevitably leads to continuous Requests for Information (RFIs), costly on-site rework, and unexpected budget overruns that erode profitability for all stakeholders.



01

Unresolved Site Clashes

Costly rework, material waste, and critical project schedule delays.

02

Fragmented Collaboration

Loss of critical information, version confusion, and misalignment.

03

Low Data Quality & Incomplete LOD

Unreliable cost estimations (5D) and useless models for future operation (7D).

04

Cost Overruns & RFIs

Reduced profit margins for developers and friction between stakeholders.



PROJECT: PUNTARENAS HOSPITAL
LOCATION: PUNTARENAS - COSTA RICA

PROJECTS

SCALING THE BIM



Walmart CEDI (Distribution Center)

Location:

- El Coyol, Costa Rica

Area:

- 25,000 sq. m

Services:

- BIM Management
- BIM Coordination
- BIM Modeling (Architecture | Structure | MEP)

Software Stack:

- Autodesk AEC Collection
- Revizto
- SprinkCAD

Technologies Used:

- LiDAR 3D Laser Scanning
- Virtual Reality (VR)
- Drone Photogrammetry (UAV)



PROJECT: WALMART CEDI
LOCATION: EL COYOL - COSTA RICA



PROJECT: WALMART CEDI
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PROJECT: WALMART CEDI
LOCATION: EL COYOL - COSTA RICA



Puntarenas Hospital

Location:

- Puntarenas, Costa Rica

Area:

- 75,000 sq. m

Services:

- BIM Management
- BIM Coordination

Software Stack:

- Autodesk AEC Collection
- Revizto
- SprinkCAD
- IFC Open BIM

Technologies Used:

- Virtual Reality (VR)



PROJECT: PUNTARENAS HOSPITAL
LOCATION: PUNTARENAS - COSTA RICA



PROJECT: PUNTARENAS HOSPITAL
LOCATION: PUNTARENAS - COSTA RICA



DATA TRUST Data Center

Location:

- La Libertad, El Salvador

Area:

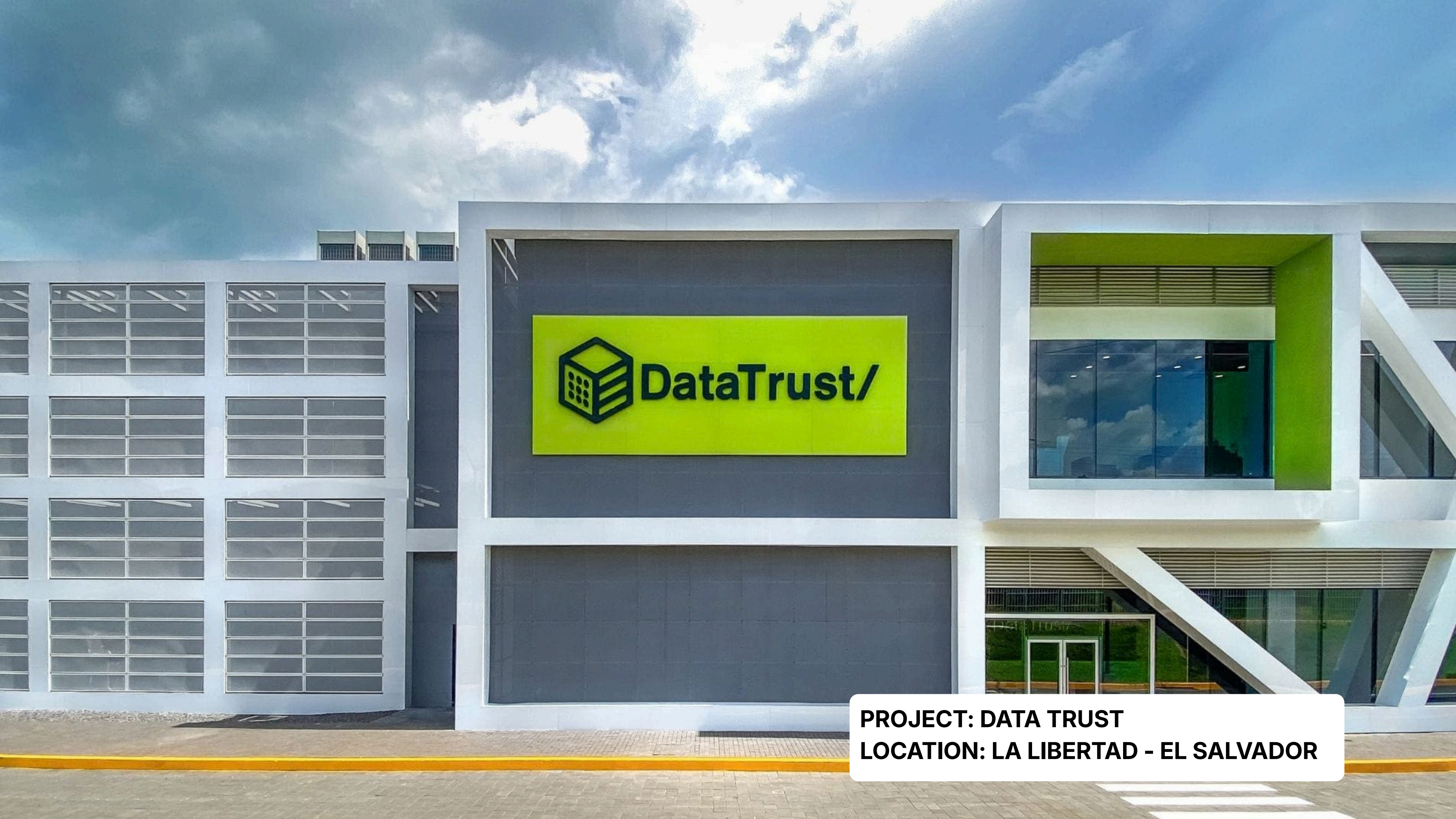
- 44,000 sq. m

Services:

- BIM Management
- BIM Coordination
- BIM Modeling (Architecture | Structure)

Software Stack:

- Autodesk AEC Collection



PROJECT: DATA TRUST
LOCATION: LA LIBERTAD - EL SALVADOR



PROJECT: DATA TRUST
LOCATION: LA LIBERTAD - EL SALVADOR

A modern office lobby with a curved reception desk featuring a white, vertically-ribbed front panel. The background wall is dark grey with the 'DataTrust' logo in gold and green. The ceiling has a grid of recessed lights and linear lighting. The floor is light grey tile. To the right, there are blue armchairs with yellow cushions, a small round table, and a staircase leading up.

DataTrust

PROJECT: DATA TRUST

LOCATION: LA LIBERTAD - EL SALVADOR



Punta Penca 27 - PP27

Location:

- Las Catalinas, Guanacaste, Costa Rica

Area:

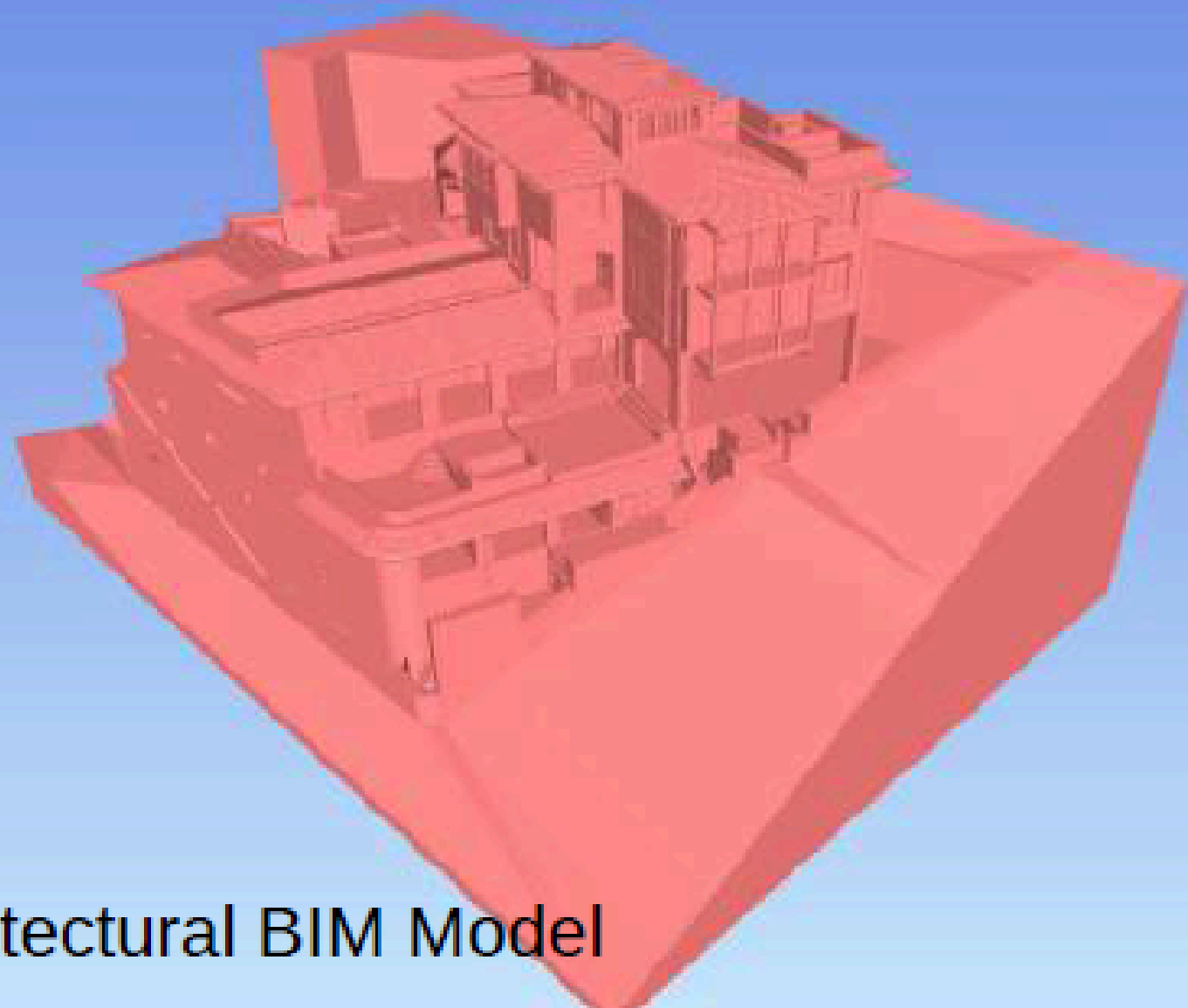
- 4,600 sq. m

Services:

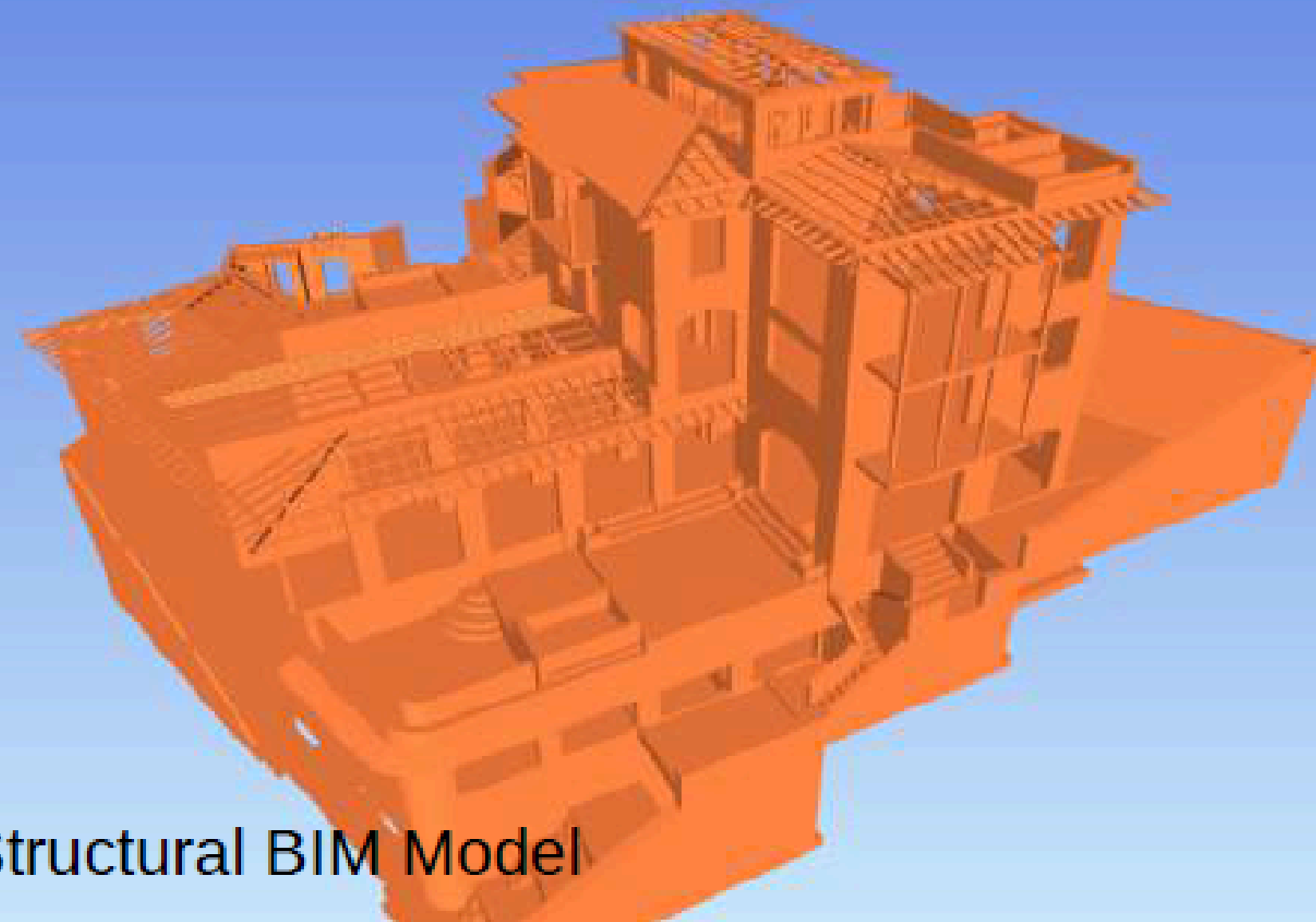
- BIM Management
- BIM Coordination
- BIM Modeling (Architecture)

Software Stack:

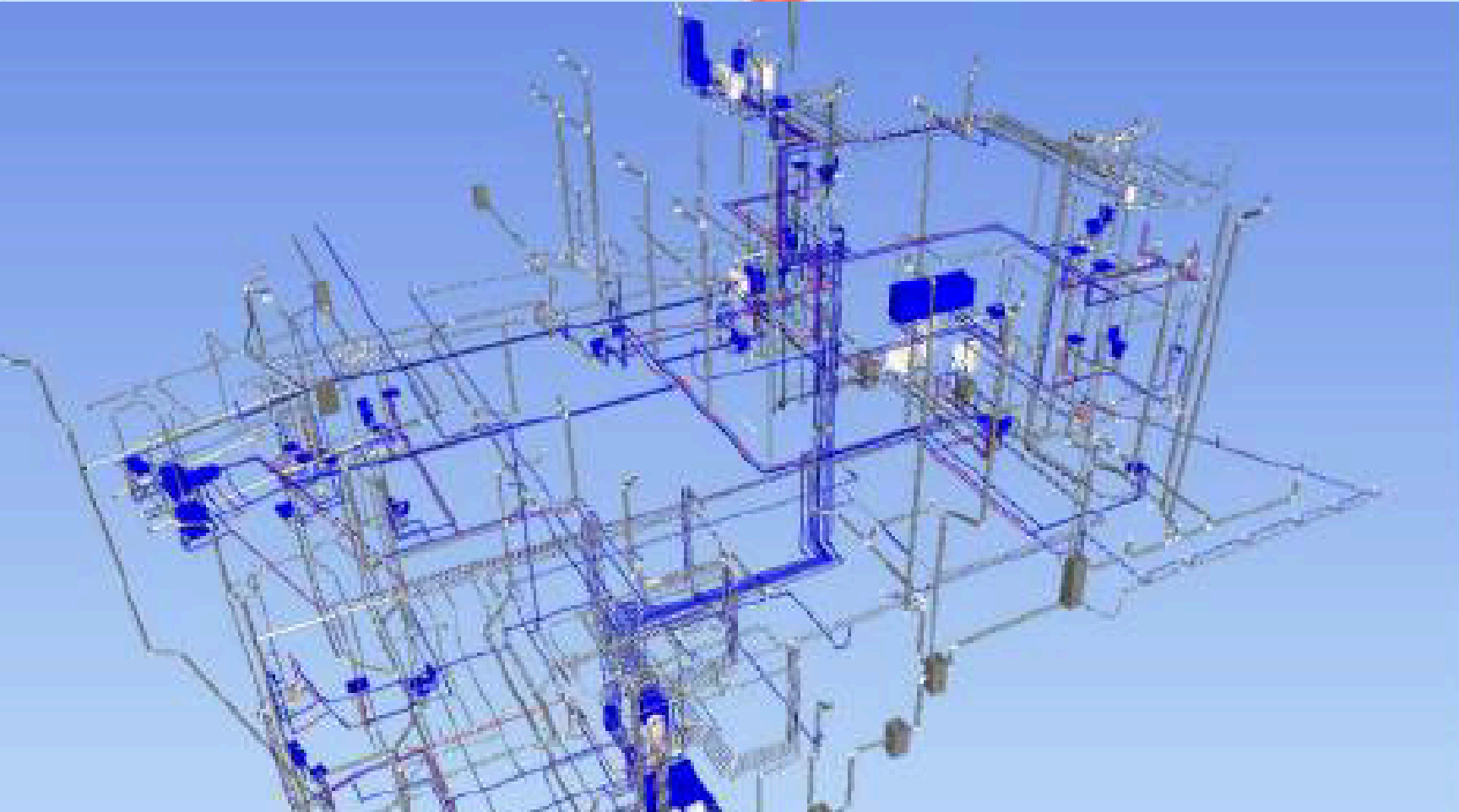
- Autodesk AEC Collection



Architectural BIM Model



Structural BIM Model



PROJECT: PUNTA PENCA 27
LOCATION: LAS CATALINAS - COSTA RICA



PROJECT: PUNTA PENCA 27
LOCATION: LAS CATALINAS - COSTA RICA



MAAS Residence

Location:

- Nosara, Costa Rica

Area:

- 3,000 sq. m

Services:

- BIM Modeling (Architecture)

Software Stack:

- Autodesk AEC Collection

Technologies Used:

- LiDAR 3D Laser Scanning
- Virtual Reality (VR)
- Drone Photogrammetry (UAV)



PROJECT: MAAS RESIDENCE
LOCATION: NOSARA - COSTA RICA



Pozuelo Food Court

Location:

- San José, Costa Rica

Area:

- 1,200 sq. m

Services:

- BIM Management
- BIM Coordination
- BIM Modeling (Architecture | Structure | MEP)

Software Stack:

- Autodesk AEC Collection

Technologies Used:

- LiDAR 3D Laser Scanning
- Virtual Reality (VR)



PROJECT: POZUELO FOOD COURT
LOCATION: SAN JOSÉ - COSTA RICA



PROJECT: POZUELO FOOD COURT
LOCATION: SAN JOSÉ - COSTA RICA



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