



We design with data. We build with certainty.

Zero assumptions. Zero surprises.
Architecture, design, and BIM methodology.

We coordinate all specialists in a high-precision 3D environment. We verify every decision before laying the first brick, guaranteeing that timelines and budgets are met without surprises.

L1 - BASE MODEL

4.20 M

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ABOUT US

We design based on information, not assumptions.

At **CABO**, design, engineering, and construction viability advance within a single team. We are architects who design and technically coordinate in one seamless process.

We work on an exact digital prototype where every discipline is integrated in real-time.

The result is not just a plan: it is a fully coordinated project that eliminates uncertainty and arrives on site with every decision already made and verified, backed by over 5 years of continuous international experience.

BIM METHODOLOGY

BIM is not a tool: it is the evolution of construction.

We treat every wall, pipe, or installation as exact data before it reaches the site.

This way, technical conflicts are resolved on a screen at zero cost, rather than on-site where they generate cost overruns.

Our process optimizes your project in four stages

BIM

STAGE 1

— — — — BASE MODELING

**Everything starts with a model,
not a plan.**

We integrate architecture, structure,
and technical networks into a single
environment from day one.

When one discipline makes a change, the
others see it immediately, without waiting
for a coordination meeting.

01

STAGE 2

CLASH DETECTION

The most expensive mistake
is the one that reaches the site.

We identify clashes between disciplines prior to construction: a pipe colliding with a beam, a duct interfering with a dropped ceiling.

Every conflict resolved here is a cost overrun that never happens.

02

STAGE 3

————— MULTIDISCIPLINARY COORDINATION

Every discipline works differently.
The model brings them into agreement.

Architecture, structure, technical networks, lighting, audio, and video are synchronized into a single, up-to-date model.

This coordination discipline is what separates a model that is useful on-site from a 3D file that just looks good on screen.

STAGE 4

———— TECHNICAL DOCUMENTATION

The plan is the consequence.
The model is the cause.

We generate plans, bills of quantities, and specifications directly from the coordinated model.

If something changes, twenty separate documents aren't updated manually: the model is updated, and the documentation adjusts in a chain reaction.

This is how we arrive on site: with a project that has already been built once, in the model. Below are some projects where we applied this process.

04

- PROJECTS -

**This has already
been built once.
In the model.**

SC MILÁN PLAZA

TOCANCIPÁ, CUNDINAMARCA

Large-scale projects, coordinated with no margin for error.

For this development that integrates retail, offices, a hotel, and residential spaces, we coordinated the structure and circulation flows in a single digital prototype, validating that each zone would operate in perfect harmony before the physical investment began.

Approx. \$490M COP - \$140K US

In cost overruns avoided through early clash detection

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TOCANCIPÁ AUDITORIUM

INSTITUTIONAL FACILITY

Invisible systems, flawless operation.

We designed this auditorium's plumbing, electrical, and mechanical systems in a centralized model, verifying that each component would fit the architecture without needing to demolish already-built walls.

Approx. \$1,500M COP - \$429K US

In cost overruns avoided across demolitions, MEP rework, and schedule impact.

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ROAD DEVELOPMENT AND UNDERGROUND UTILITIES

C&C CASTELBLANCO

The territory is also designed with precision.

We laid out the geometry of the road corridors for C&C Castelblanco and integrated them with the existing public utility networks, anticipating any underground conflicts before breaking ground.

Approx. \$390M COP - \$111K US

In cost overruns avoided.

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SINGLE-FAMILY RESIDENCE

COTA RESIDENTIAL

**Thousands of decisions validated
before the first stone is laid.**

We modeled the spatial layout, finishes, and construction details in a BIM environment, letting the client visualize their home with total accuracy and avoiding costly on-site redesigns.

Approx. \$52M COP - \$15K US

In cost overruns avoided
through on-site redesigns.

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SPACE SYSTEMS

LIGHTING, AUDIO & VIDEO

Spatial experiences planned to perfection.

We integrate lighting and sound systems into the 3D environment from the earliest stages, ensuring technology and architecture work in harmony without resorting to last-minute, improvised installations.

Approx. \$68M COP - \$19K US

In finish rework avoided.

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INTERNATIONAL REACH

ATS • NEW YORK, USA

5 consecutive years operating as an external BIM ally in the New York market.

We integrate as ATS's permanent external BIM team, taking on modeling and clash resolution for their developments under rigorous international standards, remotely and continuously.

Approx. \$910M COP - \$260,000 US

Saved versus the cost of an in-house BIM coordinator in New York, coordinating +20,000 m² over 5 years.

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DATA CENTER AND SERVER MODELING

TECHNICAL INFRASTRUCTURE

5 cable pass-through points sealed against fire, defined before the floor was built, so it wouldn't have to be broken open afterward.

We modeled and coordinated in BIM the data center and server room, including racks, cable trays, conduit, lighting, and fire detection, resolving digitally the clashes at the point of highest installation density in the entire project.

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SERVICES

A single team. All specialties.

We accompany your project from the conceptual idea to the delivery of technical documentation ready for construction.

01	Architectural Design	From the conceptual idea to the final technical design.
02	3D BIM Modeling	Your complete and coordinated project in digital format.
03	Multidisciplinary Coordination	Resolving clashes between contractors before going to the site.
04	Technical Networks	Exact integration of plumbing, electrical, lighting, audio, and video systems.
05	Road Infrastructure	Geometric design adapted to the environment and existing networks.
06	Technical Documentation	Plans and bills of quantities extracted directly from the coordinated model.
07	Recurring BIM Consulting	External BIM team for your projects, no in-house coordinator needed.

HOW WE WORK

From idea to build, **without friction.**

01

Architectural Design: We design your project with the same team that later coordinates it technically. Nothing gets translated or reinterpreted between stages.

02

BIM Coordination: We build an exact digital prototype where architecture, structure, networks, lighting, audio, and video are resolved before construction begins, while clashes between disciplines still cost nothing.

03

Construction with Certainty: Quantities come from the model, not an estimate. Schedule and budget are met because they were already validated digitally.



PROJECT DELIVERY WITHOUT SURPRISES

PHILOSOPHY

We don't make precision and design compete.
They are the same discipline.

We understand each project as an integral system, not as isolated stages. A well-executed digital prototype does not limit architectural creativity; on the contrary, it protects it from the mistakes that often ruin it during construction.

*If this way of working fits what
your project needs*

LET'S TALK →

CONTACT



Let's talk before building.

Tell us about your project and let's review how we would apply our methodology from the very first stage.

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