

CORDAX



Auto-generated engineering systems in minutes – eliminate coordination efforts...and errors.

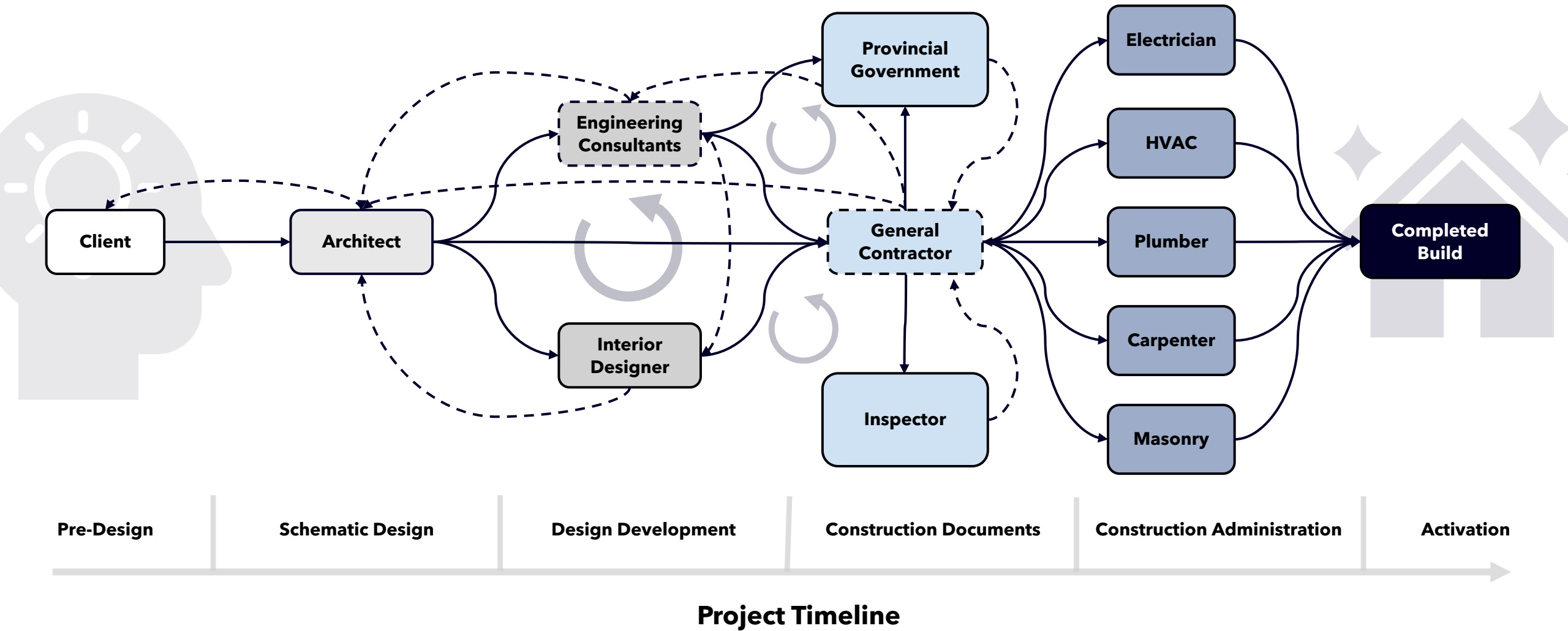
Toronto, Canada

Founded April 2025

jack@cordax.io

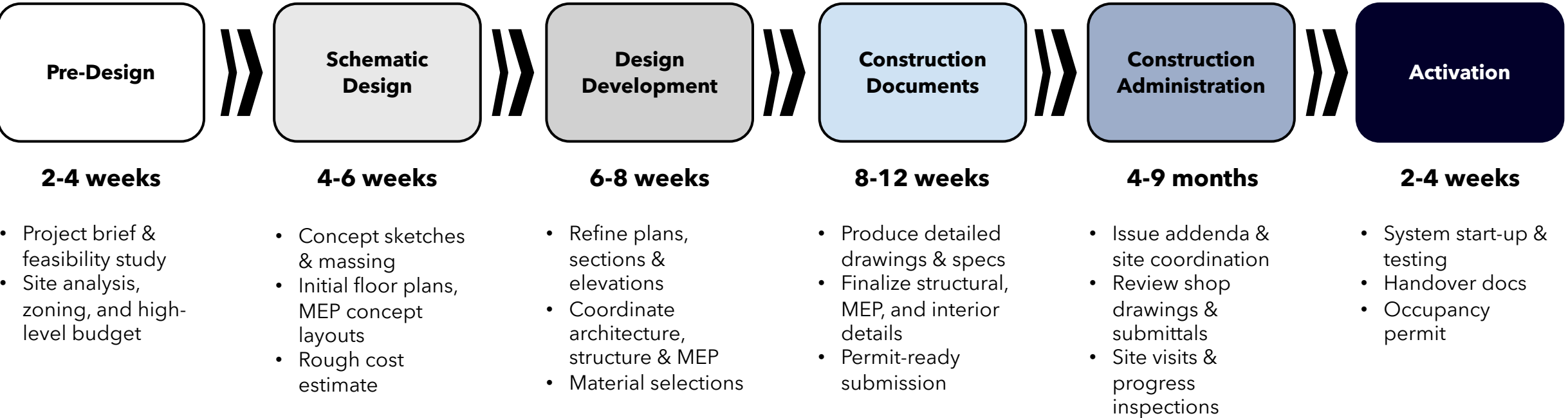
simon@cordax.io

How Job Sites Work



How a House Is Built

The main design flow sections from idea to project completion, specific to mechanical, electrical, and plumbing (MEP) design.



What You Should Understand From That Mess

The main design flow sections from idea to project completion.

**1**

Site **organization** is a **circus**

System coordination is not optimized, rework persists frequently

2

Frequent **delays** for **client**

1-5 instances of MEP rework occur when building an average single-family home. The result: 1-4 weeks of additional construction per occurrence

3

Permit approval barrier

ALL Canadian sites must have HVAC drawings stamped by a P. Eng prior to construction

2 BILLION WASTED HOURS

every year in North America, spent fixing avoidable construction errors ^{1,2,3}

That's the equivalent of hiring **1 million full-time workers** just to re-do work.



MEP is Messy, Planning is not Optimized

MEP design at the residential scale is broken. There exists a strong desire for optimization among general contractors.

Poor coordination yields:

30%

Schedule overruns ⁴

"...of the work performed by construction companies is **actually rework.**"

- US Construction Employers Assc.

12%

Budget overruns ⁵

Contractors normally have **30% margins.**

They **lose** just under **half** of it because of **rework** that occurs on sites.

70%

Rework costs ⁶

"...of rework experienced in construction are a result of **design-induced work.**"

- Buildertrend

CORDAX Conquers MEP Design Struggles

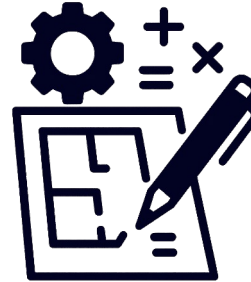
CORDAX ingests a floor plan, applies provincial code, and outputs complete MEP drawings—ready for permit and install.

General Contractor



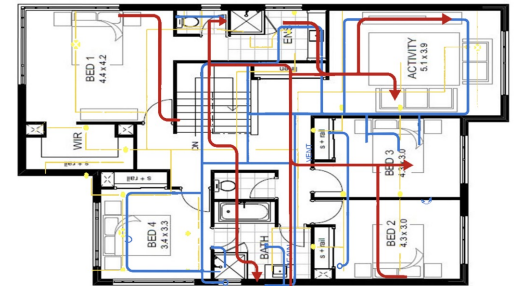
General contractors/ home builders upload a picture of their architectural drawing sets

CORDAX



Proprietary software analyzes the floorplan and autoroutes HVAC, plumbing, and electrical systems

Tradespeople



Output is a fully annotated drawing sets for plumbing, HVAC, and electrical tradespeople


What CORDAX Helps Eliminate:

① Rework

② Headaches

③ Unhappy homeowners

Micro-Demo



Search

General

Dashboard

Projects

Support


Settings

Help Center

Cory Contractor


View Profile

Logout



Import Drawing

Upload an architectural drawing set.





Export Drawings


Export as PDF, Image, etc.

Recent Projects

View All

12 York - Condo Building

145 Hillcrest - Family Home

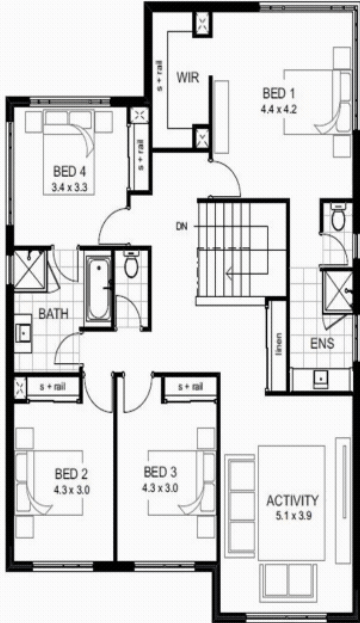
Victoria Square - Commercial Block


Import

Welcome back, Cory

Upload your architectural drawings and let CORDAX optimize your MEP systems

Latest Drawing





Project Editor

Dashboard

Projects

228 Hillbourne Street

Project Description

Description

4 Bed 3 Bath family home

Contractor:

Kevin Mill - KM Builders

Project Teams

Morrow Electrical Ltd.

Henry's HVAC Group

Toronto Plumbing Co.

System Design

HVAC: Gas-fired, forced-air furnace paired with an electric air-cooled split-system condenser, serving a ducted supply and return network.

Electrical: 200 A, 120/240 V single-phase main service panel feeding branch circuits for lighting, receptacles, appliances, and dedicated EV/AC circuits.

Plumbing: ¾" cold-water service with PEX hot-and-cold distribution, and a PVC drain-waste-vent (DWV) system with a 2" ABS sewer connection.

Electrical

Assigned to: Morrow Elect

1st Floor

2nd Floor

HVAC

Assigned to: Henry's HVAC

1st Floor

2nd Floor

Plumbing

Assigned to: Toronto Plumb

1st Floor

2nd Floor

Micro-Demo YouTube Link:
<https://youtu.be/EXDtAsLBllc>

We've Bootstrapped Our Way to Significant Traction

"You've got a really good f*****g idea... no one is targeting residential projects when they need it the most. General contractors struggle with system coordination and organization everyday"

Kevin Mallin
MALLIN Contracting Ltd.

"Crews are used to 'winging it' on-site; now they would follow clear, clash-free routes and finish days earlier. This will boost productivity, and lower stress on sites."

Lorenzo Fucili
LSA Design

"I can't even count how many times there needs to be a meeting for system coordination on a given project...once released, this software will be music to my ears."

Mitch Kleinstein
MDK Construction

3
Paid Pilots

34
LOIs

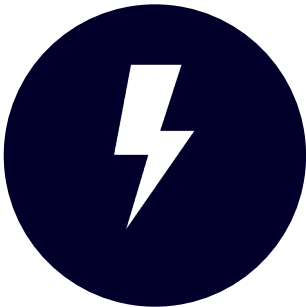
128
Newsletter Signups

Since June 17, 2025

Our Partners

Competitive Advantage

AI-Driven MEP Design that Boosts Profits & Eliminates Rework



Processing Time

Sub 3-minute processing time
from architectural set to MEP
sets



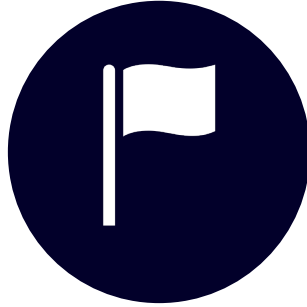
Code Compliance

Federal & Provincial building
code compliance



Accuracy

Eliminates 99% of rework
through clash detection



First to Market

First to offer fully automated
MEP drawings for residential use

Clear Go-To-Market and Deep Pipeline

Capital-efficient funnel that turns \$50 pilots into recurring, referral-fueled ARR.

Acquisition Flywheel

Stage	Goal & Message	Channel	KPI (Month 6)
Awareness	Prove “MEP in minutes” value prop	<ul style="list-style-type: none">• LinkedIn posts & case-study videos,• trade show booths	15k views/month
Consideration	Let prospects <i>touch</i> the product	<ul style="list-style-type: none">• Self-serve web demo that outputs a sample routed plan	250 demo sign-ups
Conversion	De-risk first spend	<ul style="list-style-type: none">• \$50 refundable pilot (covers 1 residential set)• Success checklist + 30-min “review workshop”	40% demo → pilot
Expansion	Land-and-expand seats & sq-ft usage	<ul style="list-style-type: none">• Usage-based invoicing triggered inside app• Quarterly “material-savings” report sent to owners	60% pilot → recurring
Referral	Turn builders into advocates	<ul style="list-style-type: none">• GC-invites program - both parties get \$100 credit• One-click “share your routed plan” social button	1.2 new leads/customer

Planting Our Flag: MEP Design Reinvented for Ontario Builders

Leveraging founder credibility, proof-of-value pilots, and referral incentives to drive efficient, scalable customer growth.

Beachhead Segment (Q3 2025 - Q1 2026)



Target: Ontario *custom-home* builders (1-20 units/year) and their preferred plumbing/electrical subcontractors



Pain: No in-house design team, pay \$3-50k per consultant drawing set, ±2-4 week delays



Win Metric: ≤ 48 h turn-around + <\$400 per plan → **10× less expensive & 90 % faster**

Key Notes & Strategy Highlights

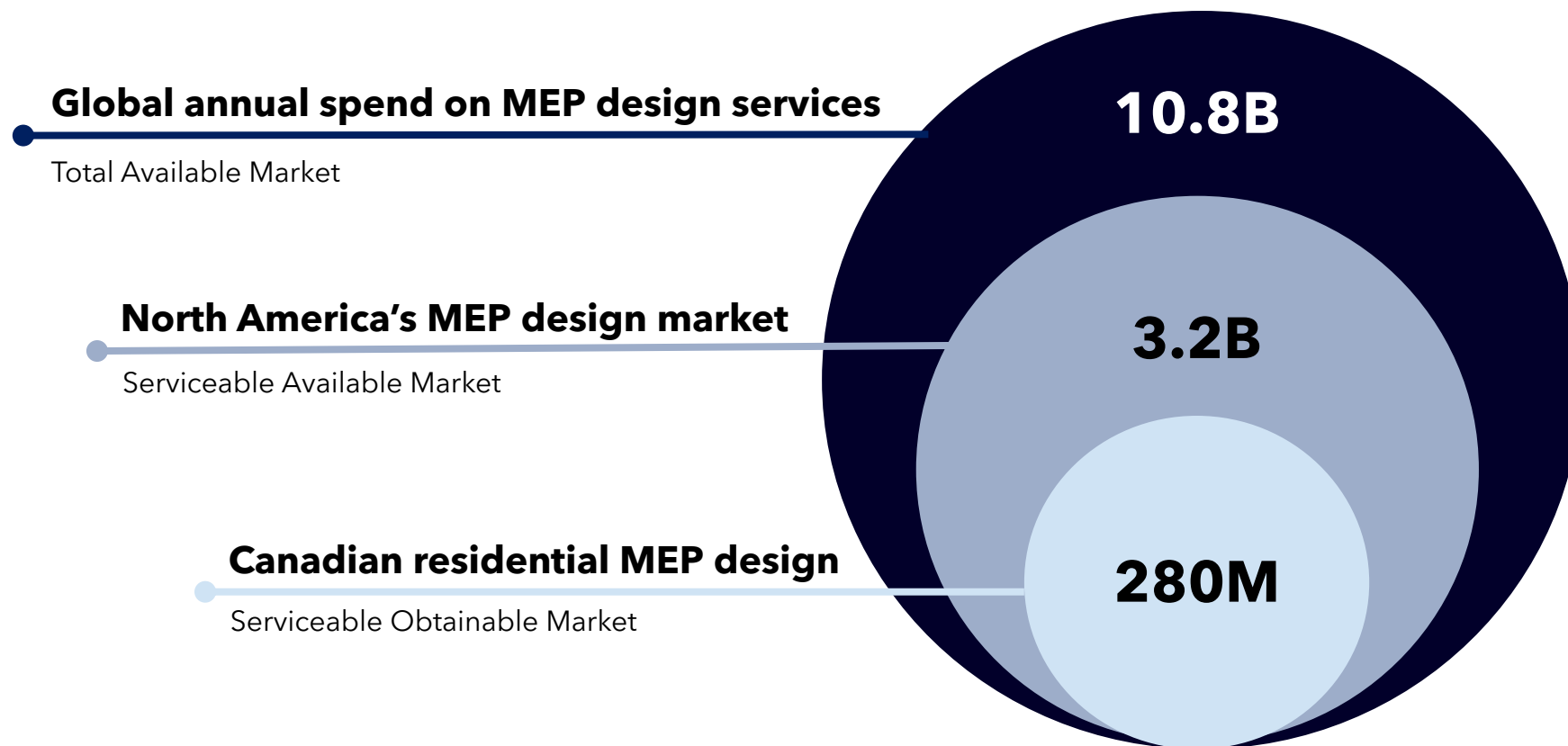
Founder-led content builds credibility fast in the MEP community.

Pilots are deeply supported to showcase value and lock in success stories.

Referral incentives turn happy customers into active advocates, keeping CAC low

This is a Massive Market

The opportunity is massive, growing, and underserved, perfect for a solution like ours to lead a new standard.

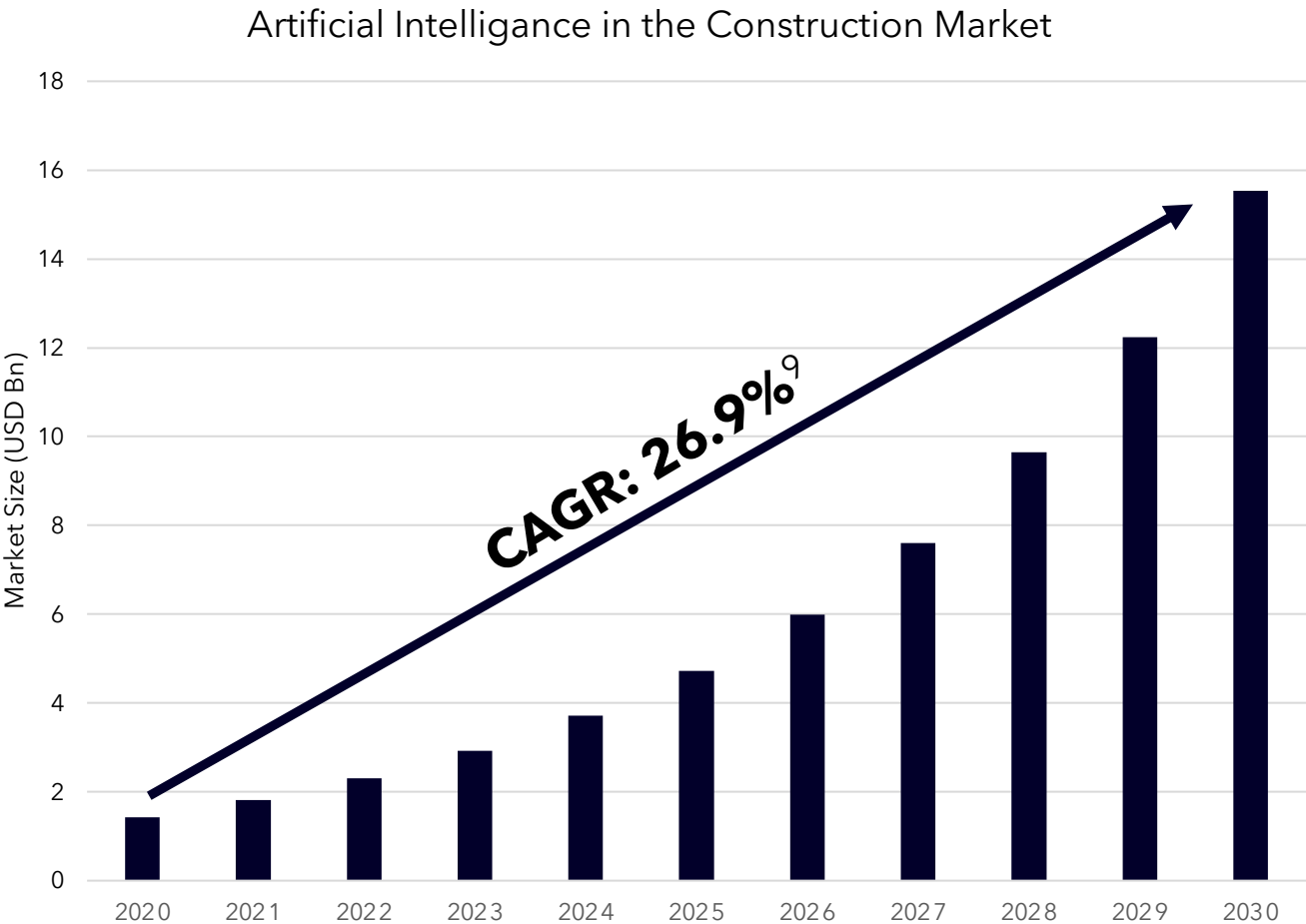


Market Sizing Rational

- Global TAM: $\$2.3B / 30\% \text{ (NA share)} \approx \$10.806B$
- North America SAM: $1.91M \text{ homes}^7 \times \$1,200 + 75k \text{ commercial} \times \$10,000 + 250k \text{ reno} \times \$800 \approx \$3.24B$
- Canada SOM: $280,000 \text{ new homes being built}^8 \times \$1,000/\text{design} \approx \$280M$

The Market is Growing 27% YoY

AI-powered construction design spend is exploding as housing demand and code complexity soar.



Why this matters now

- Massive housing-supply push → steady project pipeline
- MEP codes are tightening → higher design complexity
- Builders need speed & cost savings → AI adoption accelerating

“Roughly 280,000 new homes built annually in Canada” by CMHC⁸

Source: Grand View Research, Reuters

Pay Only for the Value You Use

Each plan combines a monthly SaaS fee with a per-project usage fee based on square footage.

General Contractors

\$100

per month

- Under 3000 sq ft projects

+ 10¢ per sq ft

~4x faster coordination

Home Builders

\$200

per month

- Over 3,000 sq ft projects

+ 25¢ per sq ft



~\$20k rework avoided per project

All-Star Team With the Right Skills



Jack Fejer, CEO
Applied Math and Computer Engineer, Queens University
Eng Consultant 
Mechanical Eng 



Simon Fucili, CTO
Applied Math and Computer Engineer, Queens University
Quant Risk 
Mechanical Eng 



Caroline Thadaney, CSO
Computer Engineer, Queens University
Associate 
Tech Analyst 



Nikhil Satchu, Business Dev
Physics, Queens University
Intern 
Growth Intern 



Magnus Hepburn, Head of Growth
Geography & Planning, Queens University
Analyst 
Analyst 





Yves Alikalfic, Product Manager
Computer Science, Queens University
Automation Engineer 
Cloud Engineer 



Stefan Pitigoi, Full Stack Developer
Computer Science, Queens University
Software Developer 
Web Dev Coordinator 

Nobody Else Can Do What CORDAX Does

Only player delivering code-compliant, multi-trade AI routing for residential properties.

	CORDAX 	EVOLVE	 DRAWER AI	Augmenta	Traditional Engineering Consultants
Rapid result	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
MEP system	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Automated	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Residential	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Clash detection	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Code Compliant	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

Catalyst for Growth and Key Risks

CORDAX is driving near and long-term growth while proactively managing strategic risks.

Near-Term Catalyst

Public beta & V1.0 launch

- First production-ready release with HVAC/plumbing/electrical auto-routing from 2D plans.

Pilot conversion & early revenue

- Developing features with GC and consulting partners to generate early case studies and referrals. Leverage personal, formed, NEXT networks, ~\$100k+ in compute credits

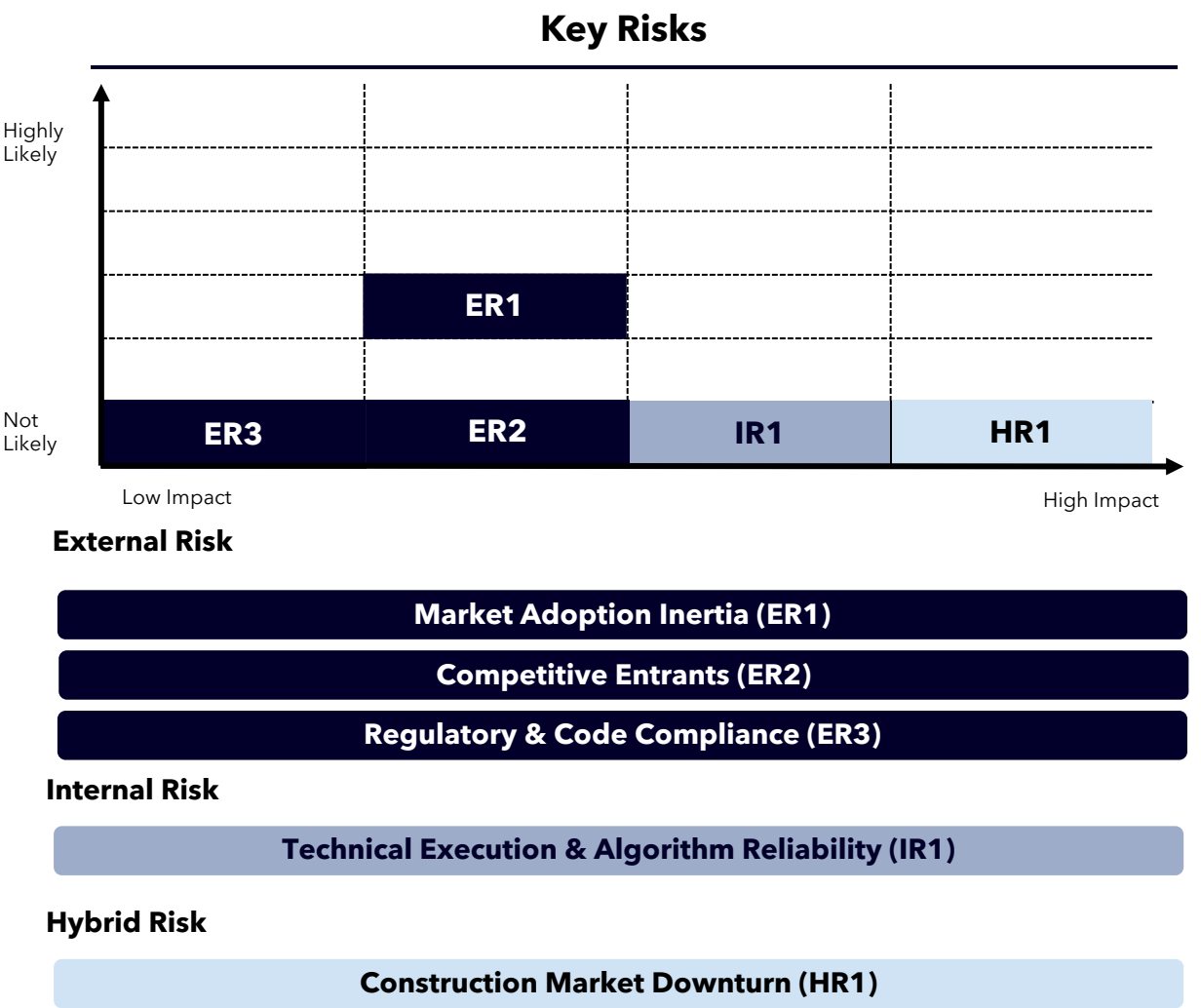
Long-Term Catalyst

Internationalization & Commercial Projects

- Enter U.S. residential markets, expand into commercial market. Region-specific code libraries tailor workflows for multi-story MEP systems and specialty installations.

Platform Maturation & Analytics

- Add a pan-and-zoom 3D viewer optimized for tablets on site. Launch a design analytics dashboard with exposed APIs for custom reporting and integration, specific load calculation customization.



Case Study with "Chris" - 2,500 sq ft home

Saved \$3,650 and 2+ days on-site in just 5 minutes of automated design from CORDAX

Metric	Traditional Method	With CORDAX
Cost	\$4,000 CAD	\$350 CAD
Design Time	~2 weeks (HVAC only)	5 minutes for full MEP
Plumbing/electrical layouts	Not provided	Delivered within minutes
Coordination	10-15 hrs field changes	<2 hours upfront
Site Delays	2-3 days	0 days
Rework	\$200-\$1,500 per instance	\$0
Time to Complete Rough-ins	6 days	4 days

What works:

*"CORDAX slashed our MEP design cycle from **weeks** to **minutes** and **eliminated all site rework.**"*

What We Need

CONNECTIONS...

- HOME BUILDERS
- GENERAL CONTRACTORS
- PRE-SEED INVESTORS

Website: <https://cordax.io>

Email: info@cordax.io

Website



Follow Us



@CORDAX

References

1. <https://www.autodesk.com/blogs/construction/survey-plangrid-fmi/>
2. https://www.cca-acc.com/wp-content/uploads/2025/04/Economic-Report_Spring_2025_EN.pdf
3. <https://www.nccer.org/media/2024/05/2024-Construction-Employment-Outlook.pdf>
4. <https://www.ceacisp.org/sites/default/files/documents/The-True-Cost-of-Project-Delay-White-Paper.pdf>
5. <https://onekeyresources.milwaukeeetool.com/en/construction-rework>
6. <https://buildertrend.com/blog/your-guide-to-reduce-construction-rework/>
7. <https://www.housingwire.com/articles/housing-completions-were-up-in-2024-a-bright-spot-for-builders>
8. <https://www.reuters.com/world/americas/canadian-housing-starts-largely-flat-may-april-cmhc-2025-06-16>
9. <https://www.grandviewresearch.com/industry-analysis/artificial-intelligence-in-construction-market>