



BETTER TOGETHER.

Vexcel Geospatial Forum 2026





BETTER TOGETHER.

Global Data Program Expansion

45+ countries and growing



Global Footprint

45+ Countries & Territories



Australia



Austria



Belgium



Bosnia & Herzegovina



Brazil



Canada



Croatia



Czechia



Denmark



Estonia



Finland



France



Germany



Hungary



India



Ireland



Italy



Japan



Latvia



Liechtenstein



Lithuania



Luxembourg



Monaco



Netherlands



New Zealand



Norway



Poland



Portugal



Puerto Rico



San Marino



Slovakia



Slovenia



South Africa



Spain



Sweden



Switzerland



United Kingdom



United States



U.S. Virgin Islands



Vatican City



BETTER TOGETHER.

Vexcel Intelligence

AI foundation model meets semantic search



What Is Vexcel Intelligence?

IT IS

- ✓ Our AI initiative — the company's investment in AI as a core capability
- ✓ The fourth pillar of Vexcel, alongside Imaging, Fleet, and Data
- ✓ The team, technology, and strategy for building Real World AI
- ✓ Home to Vexcel Studio, our AI platform

IT IS NOT

- ✗ A separate company or subsidiary
- ✗ A new division that operates independently
- ✗ A replacement for Elements or existing AI work
- ✗ Just a rebrand — it's a strategic expansion of what we do

BETTER TOGETHER.



INTRODUCING VEXCEL STUDIO

The first AI platform that lets you query the physical world in natural language — and get answers grounded in verified, current reality.

Semantic Search:

- Query concepts, not just objects. “Properties showing deferred maintenance” — not checkbox filters.
- **Inference Engine:** Understands user intent. Same query, different context = different, appropriate results.
- **Current Ground Truth:** Every answer backed by imagery refreshed 3x annually. No stale data. No guesswork.



FROM DETECTION TO REASONING

TRADITIONAL COMPUTER VISION

Objects Detected:

- Swimming pool
 - Roof: asphalt shingle
 - 2 vehicles
 - Trampoline
 - Trees: present
- = Checklist of objects

VEXCEL STUDIO

Risk Assessment:

- Aging roof with visible wear
 - Vegetation encroaching space
 - Deferred maintenance indicators
 - Wildland-urban interface risk
- = Contextual understanding

VEXCEL

Locate facilities with restricted perimeters and vehicle restraints or bollards.

Search

Legend

20 results Clear View on Map Batch Export Export

818 Whipple Cir, Mountain View, CA

991 N Mathilda Ave, Sunnyvale, CA

259 Riverside Ave, Rensselaer, NY

5412 Farm To Market Rd 1258,

Vickers Rd Doornfontein 92-lr

VEXCEL STUDIO IN ACTION

The first AI platform that lets you query the physical world in natural language — and get answers grounded in verified, current reality.

Vector Search:

- Query the physical world in natural language. Find properties, patterns, and anomalies without writing code or training models.
- **Inference Engine:** Contextual Reasoning: Vexcel Studio understands intent. The same query in different contexts returns different, appropriate results.
- **Current Ground Truth:** Grounded in Reality: Every answer backed by verified, current aerial imagery — refreshed 3x annually. No hallucinations.





BETTER TOGETHER.

The Future is a Queryable World.



Where can safe pedestrian crossings be added in Fortaleza, Brazil?



and interior... flanked by... painted turn... wings, ... roofs, ... + spa. The... is bound... ages.

a high-value, upscale single-family residential... on solar, and swimming pool area...

The surrounding parcels appear to be residential or mixed residential, with the large road looks arterial or scenic, perhaps perched along a bluff or hillside, even the curv... strips seen next to the property.

Zoning, Planning & Regulatory Context

- The property likely lies within one of the La Jolla Planned Districts (e.g. LJPD-4, LJPD-5, etc.), which impose special rules to preserve the scenic corridors, and coastal relationship of new development. (San Diego Documentation of San Diego+3)

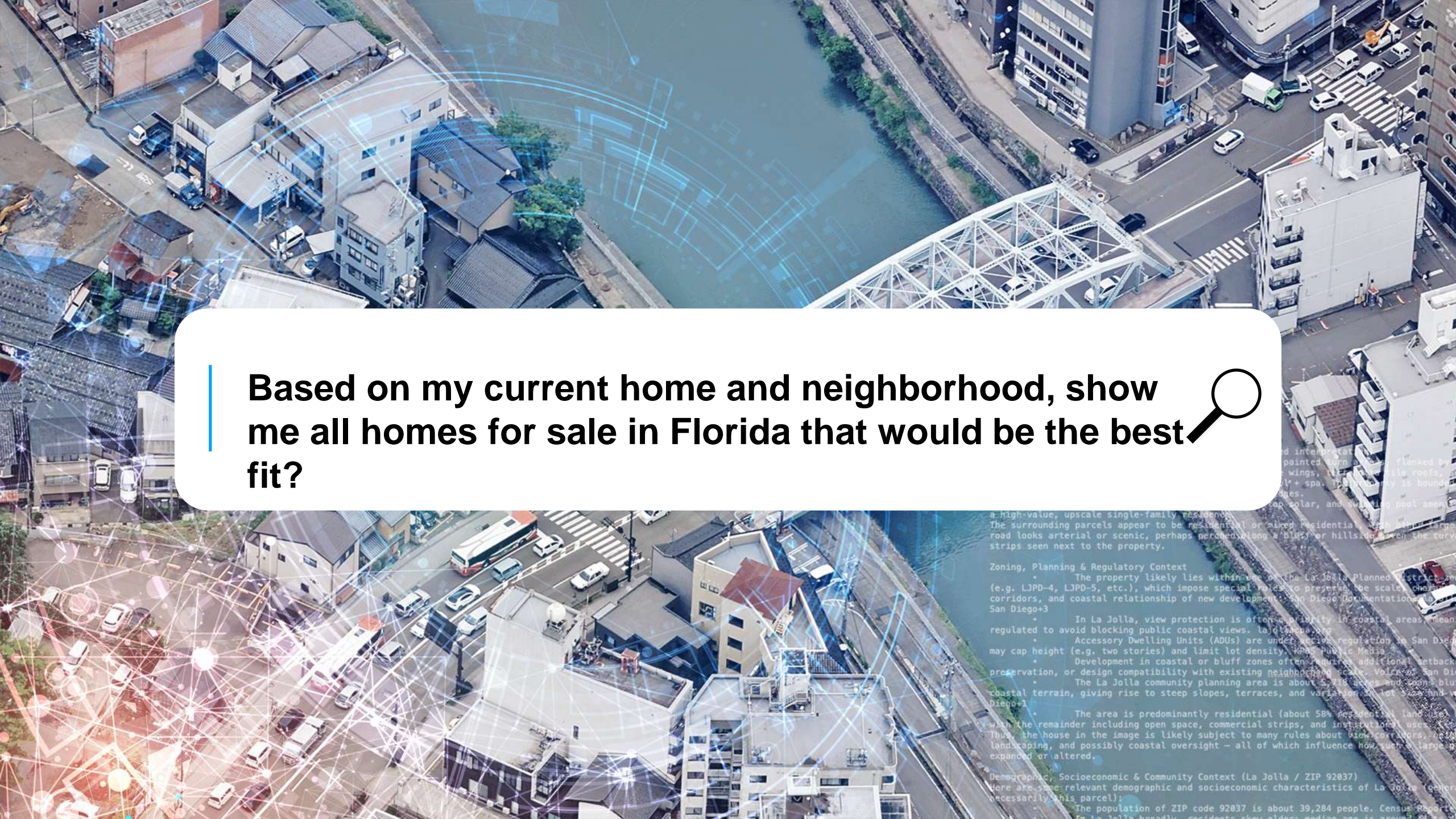
- In La Jolla, view protection is often a priority in coastal areas, meaning regulated to avoid blocking public coastal views. (La Jolla Planning)
- Accessory Dwelling Units (ADUs) are under active regulation in San Diego, may cap height (e.g. two stories) and limit lot density. (KING Public Media)
- Development in coastal or bluff zones often requires additional setback, preservation, or design compatibility with existing neighborhood scale. (Voice of San Diego)
- The La Jolla community planning area is about 5,716 acres and covers bluff coastal terrain, giving rise to steep slopes, terraces, and variation in lot sizes and views. (La Jolla Planning)

The area is predominantly residential (about 58% residential land use) with the remainder including open space, commercial strips, and institutional uses. Thus, the house in the image is likely subject to many rules about view corridors, setback, landscaping, and possibly coastal oversight – all of which influence how such a large parcel can be expanded or altered.

Demographic, Socioeconomic & Community Context (La Jolla / ZIP 92037)

Here are some relevant demographic and socioeconomic characteristics of La Jolla (generally, not necessarily this parcel):

- The population of ZIP code 92037 is about 39,284 people. Census shows that in La Jolla, broadly, residents skew older, median age is around 50.



Based on my current home and neighborhood, show me all homes for sale in Florida that would be the best fit?

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BETTER TOGETHER.

How this is different.



TRADITIONAL ML/AI

The Process:

- Define feature
- Engineer features
- Train model
- Tune & retrain parameters
- Deploy
- Repeat for next feature

Takes months or even years. Lots of models needed.



LLMs

Inference Engine

Foundation Model

Imagery & Data

Vexcel Intelligence

Foundation Model


Think “brain cells for real-world AI”

- Multi-modal inputs
- Orthos, obliques, DSM
- High-res, accurate & consistent
- Built-in inference engine
- No AI delusions; real-world answers

0 results

In Japan find all communication towers that have room for additional 5G equipment


[Search](#)

0 results  Clear




Search the Real World

Use the search box above to find real-world features across Vexcel's aerial imagery and data library using semantic search.

 Try: "Find commercial buildings with solar panels"

 Try: "Find utility poles with mobile network equipment"

 Try: "Find grain silos near railroads"

VEXCEL
Studio

Search

0 results  Clear

In South Africa find distressed homes
in a luxury neighborhood



Locate facilities with restricted perimeters and vehicle revetments or bollards.



Search



Legend

20 results Clear

View on Map

Batch Export

Export



818 Whipple Cir, Mountain View, CA 94043, USA

Result #1



991 N Mathilda Ave, Sunnyvale, CA 94089, USA

Result #2



259 Riverside Ave, Rensselaer, NY 12144, USA

Result #3



5412 Farm To Market Rd 1258, Amarillo, TX 79118, USA

Result #4



Vickers Rd Doornfontein 92-Ir Johannesburg South, Doornfontein 92-Ir, Johannesburg South, 2094, South Africa

Result #5





Detecting: Find sites that appear ab...

Find sites that appear abandoned.



Search



Export

#2

86%



98 New Goch Rd, Benrose, Johannesburg, 2011, South Africa

#3

79%



98 New Goch Rd, Benrose, Johannesburg, 2011, South Africa

#4

36%



Železničářů 204/6, 170 00 Praha 7-Holešovice, Czechia

#5

29%





Identify locations that show temporary encampments or transient structures.



Search



Export

Click any card to view details Legend

#1 100%
3900 E Loop 335 N, Amarillo, TX 79108, USA

#2 78%
-26.22999, 28.07076

#3 74%
Unit 13, Amalgam Industrial Village
Crown Mines Ext 4, Crown, Johannesburg, 2092, South Africa





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Thank You

Let's build **together.**

Questions & Discussion

