

# Nearmap



Exec  
Summit

The Pendry, Park City UT



# Nearmap AI in the Age of Gen AI

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Nearmap

# Agenda

- Gen AI Landscape
- Gen AI Showdown (Nearmap vs Claude and Gemini)
- Nearmap Labs & Nearmap Research

# Re-Defining AI

# The AI Landscape

## AI – Artificial Intelligence

- A complete system that performs a task intelligently
- Typically combining ML, software engineering, business logic.

## Supervised Machine Learning (“discriminative” ML)

- Training for a specific task – example/answer pairs for training and testing
- Techniques: GLMs, XGBoost, Deep Learning, CNNs, Transformers
- Examples: Swimming pool detection, claim prediction
- Very well understood methodologies for training, evaluation, deployment

## [Un/Self]-Supervised Machine Learning (“generative” ML)

- Learn patterns in data from invented, self-supervised tasks (next word prediction, fill holes in an image, ...)
- No clear definition of “correct” – compressed patterns in the data
- PATTERNS != MEANING

## Gen AI (loose industry term)

- Generative models are of limited use by themselves
- Usually combines Self Supervised “pre-training” & “post-training” with humans providing feedback to be useful (e.g. RLHF, fine tuning, supervised heads)

# The AI Landscape (Down the rabbit hole we go...)

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## Embeddings

- Numerical representations of data produced by pre-training
- Can store embeddings of images for efficient pre-compute
- Open source, or “house-trained”. Need lots of data.

## Multi-Modal Models

- Jointly pre-train on mixed data sources (text, imagery, other)
- Shared embedding space links modalities (e.g. find images from text)

## Zero Shot Learning

- Get an answer with no human labels required (e.g. text search aerial imagery)
- Very flexible semantics, very imprecise
- Very fiddly to improve/validate (prompt engineering?)

## Few Shot Learning

- Get an answer with only limited human labels (a few, to hundreds)
- Springboards performance off pre-training / embeddings (zero shot)
- Label more – unlimited performance ceiling

## Agentic AI/Systems

- Using Gen AI tools (Claude, ChatGPT, Gemini, etc.) as part of a system.
- Use memory, tools, context and multi-step actions

"We're buying access to Claude / ChatGPT / Gemini.  
Can't we just give the aerial images to the AI  
and get our answers?"

# What are we testing?

## Nearmap AI Gen 6

### Industrial Grade Supervised Learning

A complete system that performs a task intelligently

- Many (millions) of labelled images
- Strictly controlled ontology of “correct”
- Rigorous training, validation, testing
- Modern deep learning (++)
  
- ~1,000 person-years of expert human labels
- 130+ **rigorously defined** property classes
- **Proprietary** global deep learning model
- **Geometrically precise** outputs
- **Deterministic**: the same image always produces the exact same answer

## Gen AI from Frontier Labs

### Claude (Anthropic), Gemini (Google)

- **Self supervised**, pre-trained on billions of images
- Post trained for wide variety of tasks.
- Can set up as “**zero shot**” learning, no extra training
- **Stunningly flexible** on task
- Many challenges using for repeatable, clearly defined tasks
- **Non-Deterministic**: Repeating the same request gives different results

## The Tasks

1. Classification (multi-modal presence/absence in an image)
2. Counting (objects in an image)
3. Area estimation (from an image, with geometric metadata)
4. Scoring (mimicking roof spotlight index)

**These are not different versions of the same approach — they are architecturally different tools.**

# We ran a rigorous head-to-head study

**2,500 US residential properties · 4 tasks · 4 models across 2 providers**

## Tasks tested

- Swimming pool presence (classification — pool present or not)
- Roof count (object counting — how many rooftops on the property)
- Roof area in square metres (quantitative measurement)
- Roof Spotlight Index — a 0–100 condition score (scoring)

## Models tested

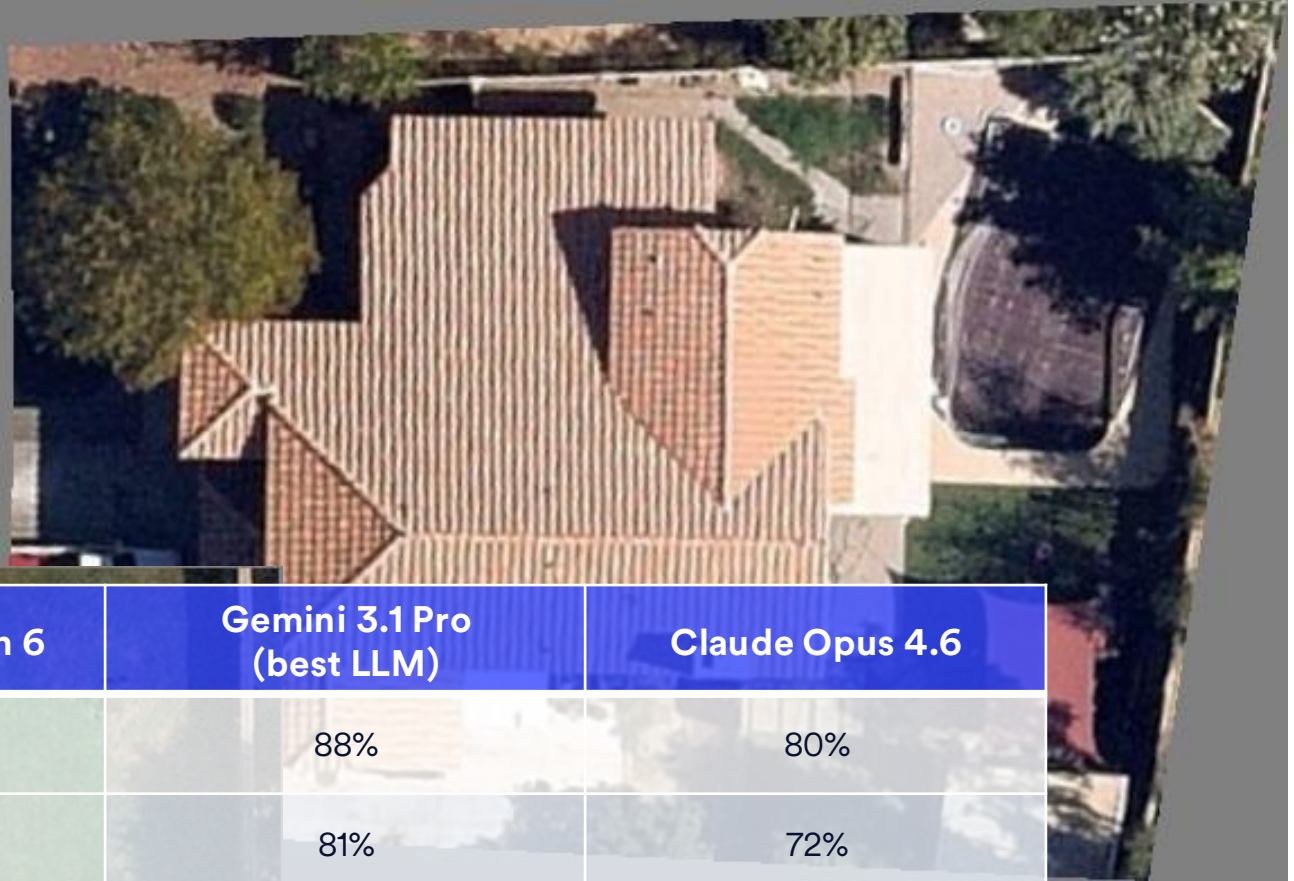
- Claude Opus 4.5 and Opus 4.6 (Anthropic)
- Gemini 2.5 Pro and Gemini 3.1 Pro (Google)
- Nearmap AI Gen 6 (purpose-built, pre-computed, included in subscription)

## Test conditions

- Native 7.5 cm/pixel resolution · ~500×500 px average property · 3 identical runs per model
- Compared against ground-truth labels from Nearmap's dedicated expert annotation team

# Classification with Gen AI

Claude: "Small above-ground pool visible in the backyard to the right of the house. It appears to be a small circular inflatable or above-ground kiddie/splash pool with blue water. There is also what appears to be a smaller blue inflatable pool or water toy nearby. A fire pit or circular landscaping feature is visible in the lower right of the yard but is not a pool."



Metric	Nearmap AI Gen 6	Gemini 3.1 Pro (best LLM)	Claude Opus 4.6
Pool Detection — F1 Score	>98%	88%	80%
Pool Detection — Precision	>98%	81%	72%
Pool Detection — Recall	>98%	98%	90%

**\*Gen AI: 5-10x More Mistakes**

Claude: "The property shows a large residential roof with tile roofing, a driveway, some landscaping, and what appears to be a red structure or covering in the right side of the backyard. No swimming pool is visible on this property. The red area appears to be a patio cover or awning, not a pool."

# Measurement with Gen AI

## Counting (e.g. "How many rooftops?")

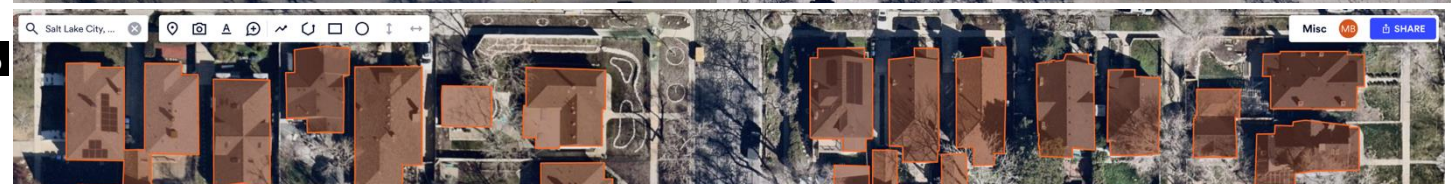
- Easy task – random guesses are good!
- For Residential Properties ~1-4 roofs
- 19% of LLM answers change between (identical) runs.

## Measuring (e.g. "What is the roof area?")

- Provided clues (imagery dimensions)
- Guesses round numbers (increments of 5sqm)

Updated Claude Estimates WITH orange outlines

While Claude revised the guess from 63 down to 48 with more info... the correct answer was 68

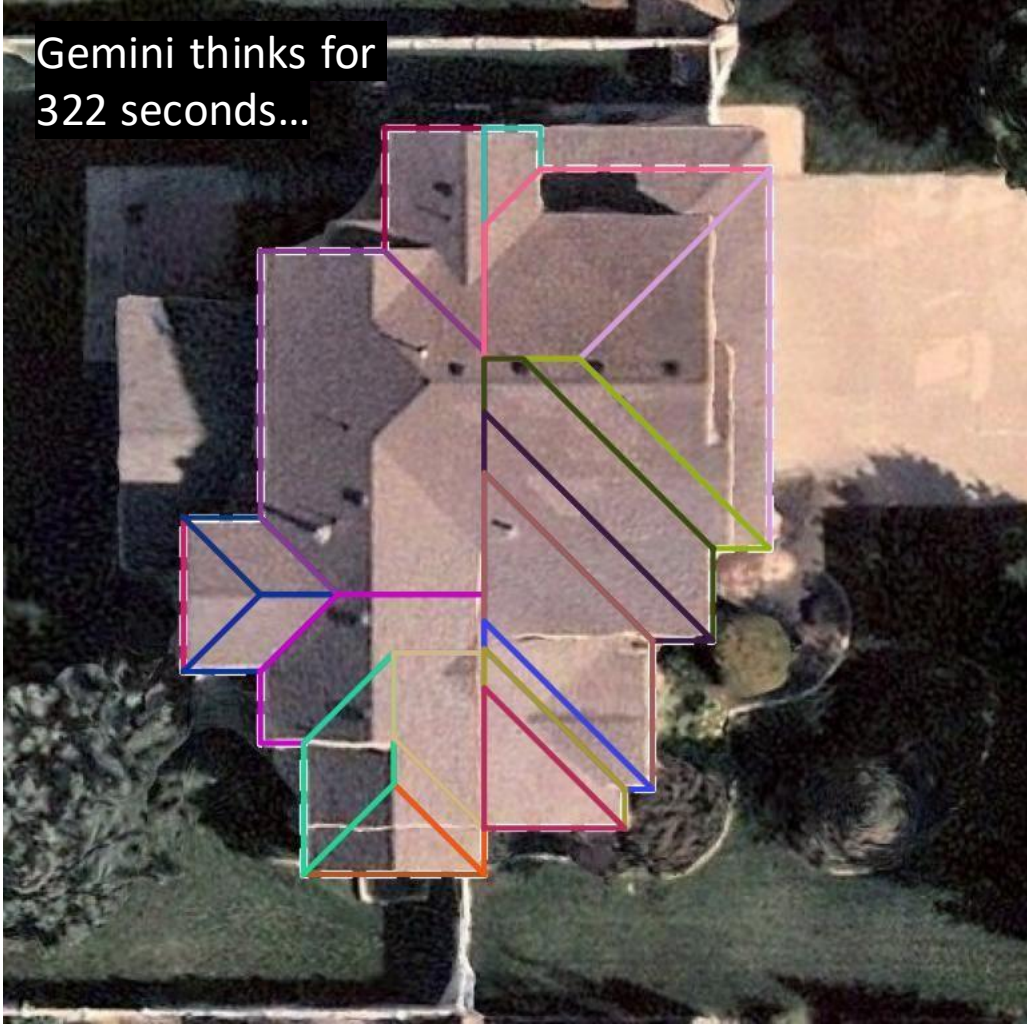
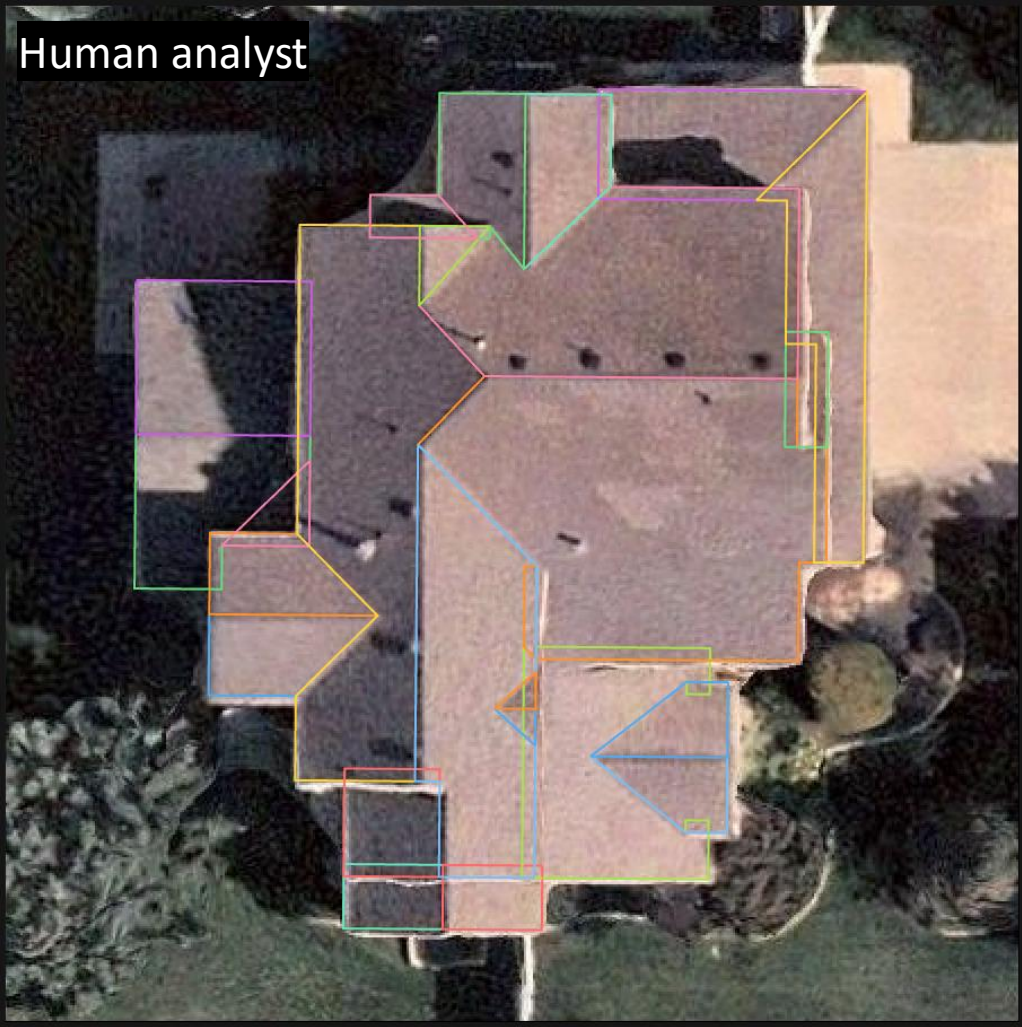


Metric	Nearmap AI Gen 6	Gemini 3.1 Pro (best LLM)	Claude Opus 4.6
Roof Count — Exact Match	80%	69%	60%
Roof Area — Mean Abs. Error	12 sqm	49 sqm	60 sqm
Roof Condition Score — MAE	—	12 pts	25 pts

# Gen AI: Costlier, Slower Responses, Lower Throughput (50-1000x)

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Roof Count — Exact Match	80%	69%	60%
Roof Area — Mean Abs. Error	12 sqm	49 sqm	60 sqm
Roof Condition Score — MAE	—	12 pts	25 pts
<b>Response Time (4 tasks)</b>	<b>&lt; 1 sec</b>	<b>55–112 sec</b>	<b>20–70 sec</b>
<b>Cost per Property (4 tasks)</b>	<b>Included</b>	<b>~\$0.02</b>	<b>~\$0.06</b>
<b>Throughput</b>	<b>20–1,000+/sec</b>	<b>&lt; 10/sec</b>	<b>&lt; 10/sec</b>

# What happens if we get Gen AI to draw roof panels?



# Factors in Choosing an AI Model



## Key factors in determining the proper AI Model



**Economics**



**Speed**



**Consistency**



**Confidence**



**Regulatory  
Defensibility**

# The economics break down at national scale

## LLM API cost per property (4 visual tasks: pool, roof count, area, condition)

- Gemini 3.1 Pro: ~\$0.02 per property
- Claude Opus 4.6: ~\$0.06 per property

## At 150 million US properties, a single national refresh costs:

- Gemini: ~\$3 million USD — every time you refresh, change the model, tweak the prompts, or add an attribute
- Claude: ~\$9 million USD
- Nearmap AI: 130+ attributes in a single inference pass — included in the subscription

## Resolution also matters for accuracy:

- LLMs see a ~500×500 px crop of a typical residential property at full resolution
- Nearmap AI processes areas ~10× larger in its proprietary model
- Scaling to higher resolution: costs 4× worse per zoom level — quickly unworkable

# Speed & throughput: a 100× gap

## Response time per property (4 sequential visual tasks)

- Claude Opus 4.6: 20–70 seconds
- Gemini 2.5 Pro: 55 seconds
- Gemini 3.1 Pro: 55–112 seconds
- Nearmap AI (API): < 1 second

## Throughput — properties processed per second

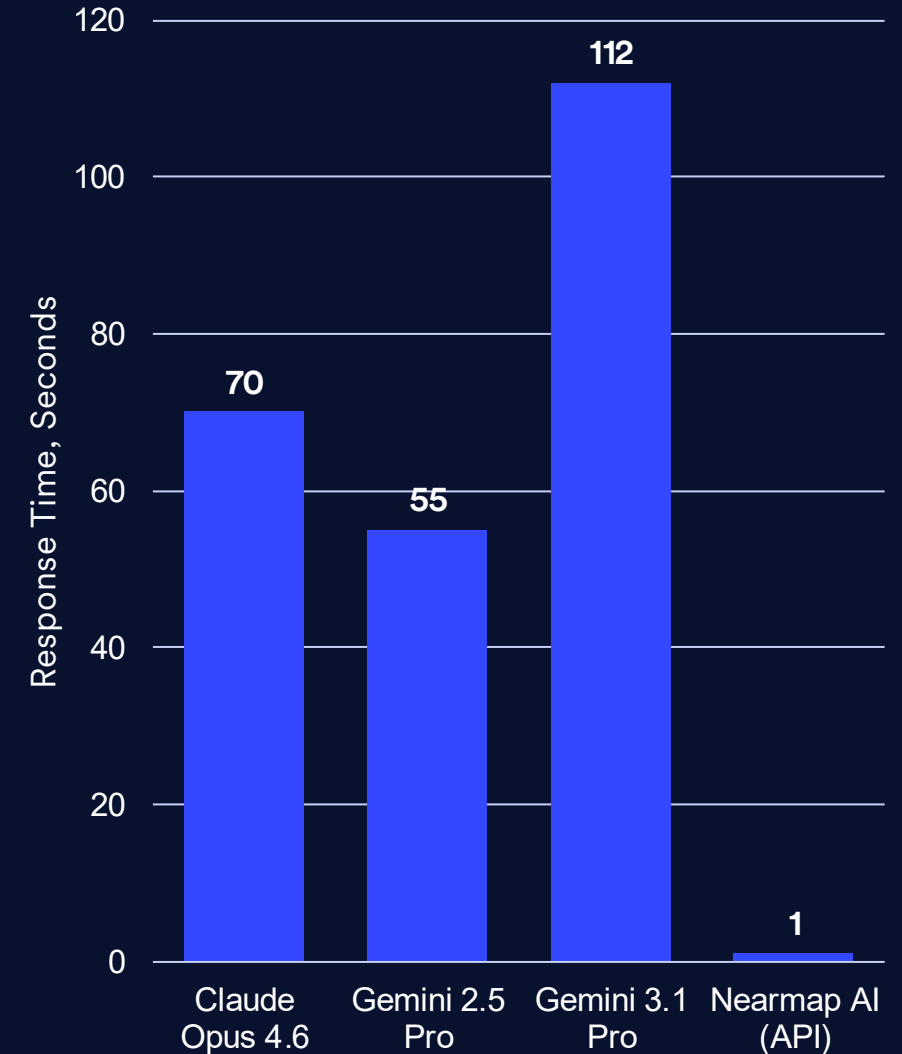
- Any LLM tested: < 10 properties / second (at maximum public rate limits)
- Nearmap AI real-time: up to 20 properties / second
- Nearmap AI bulk: 20 to 1,000+ properties / second

## What this means at national scale

- LLMs at max rate: hundreds of thousands of properties per day — months to cover the USA
- Nearmap AI bulk: 150 million properties processable in hours, not months

Gen 6 launch 2024: 3 million km<sup>2</sup> processed in 10 days on a 10,000-node GPU cluster.

## Maximum Response Time per Property



# LLM answers change — even when nothing changes

3 identical runs, same images, same prompts. How often did the answer differ?

## Claude Opus 4.6 (most consistent LLM)

- Pool presence: 0.2% of properties got a different answer → 300,000 unstable at US scale
- Roof count: 2.2% of properties got a different answer
- Roof area: mean spread of 5.4 sqm between runs
- Roof condition: mean spread of 0.5 points between runs

## Gemini 3.1 Pro (most accurate LLM)

- Pool presence: 2.6% of properties changed → 3.9 million unstable at US scale
- Roof count: 18.6% of properties changed → nearly 1-in-5 gives a different answer each time
- Roof area: mean spread of 52.7 sqm — nearly as large as the error itself
- Roof condition: mean spread of 9.7 points between runs

**Nearmap AI Gen 6: identical answer every time — deterministic by design.**

# Model/Prompt updates change your results

You don't train an LLM like Gemini or Claude – you steer it awkwardly, from a distance with prompts, and have to rerun large validation sets to explore for a better solution, THEN rerun at scale once you find one.

## Claude Opus 4.5 → Opus 4.6 (a minor version increment)

- Pool presence: 2.3% of properties changed answer
- Roof count: 20% of properties changed answer
- Roof area: mean difference of 22.7 sqm
- Roof condition: Opus 4.6 scored 7.8 points lower on average — systematically different risk view

## Gemini 2.5 Pro → Gemini 3.1 Pro

- Pool presence: 11.8% of properties changed answer
- Roof count: 30.2% of properties changed answer
- Roof area: mean difference of 52.5 sqm
- Roof condition: shifted 9.2 points in the opposite direction to Claude



# Regulatory compliance: Rife with Challenges

## State insurance rate filings challenges:

- Reproducible model outputs — same input must always produce same output
- Documented training data and methodology
- Model versioning with full audit trails
- Consistent behaviour over time
- Calibrated confidence scores ("80% confidence" must mean ~80% accuracy)

## Nearmap AI delivers all of these

- Gen 6 ships with a 59-page System Release Report documenting every layer
- Per-class precision, recall, F1, and failure mode analysis
- Platt and Temperature scaling for calibrated confidence on every prediction
- Full version lineage at system, model, and individual feature level

## LLM APIs deliver none of these

- Non-deterministic outputs that cannot be reproduced
- No training data lineage, no model versioning, no audit trail
- No confidence calibration — hallucinations are a feature, not a bug

only

21%

of companies report currently  
having a mature model for AI  
governance

-Deloitte 2026

So where does Gen AI fit?  
(Hint: we use it extensively  
at Nearmap)

# Gen AI is transformative — for the right jobs

We are not "anti" Gen AI. We use it extensively — the question is the right tool for the right job.

## Underwriting Document Intelligence — ideal for Gen AI

- Parse hundreds of pages of underwriting guidelines automatically
- Extract individual rules (e.g. "roof must be in good condition for eligibility")
- Map rules to Nearmap AI layers, scores, and 3rd-party data sources
- Already running on hundreds of US insurer guideline documents

## Accelerating New AI Layer Development — ideal for Gen AI

- Text-to-image search across billions of aerial images to find rare object classes
- Few-shot bootstrapping to accelerate labelling of new property features
- LLM-assisted ontology definition to precisely specify new layer definitions
- Result: new AI layers reach production faster with better edge-case coverage

## Accelerating Software Development — ideal for Gen AI

- Claude Code is transformative. We're finding new ways to deliver an onslaught of value.
- Take this study... this presentation. The code, testing, analysis, write up — massively faster.

**The most powerful approach to business innovation combines both Gen AI and Purpose-built models**

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Purpose-built AI for production property intelligence  
+  
Gen AI for the workflows around it

# The right tool for the job

Need	Nearmap AI	Gen AI
Classify: pool, solar, roof type	✓ >98% F1, deterministic	~ Approximate, inconsistent
Count objects (rooftops, trees)	✓ Geometric precision	~ Approximate only
Measure areas & geometries	✓ Calibrated measurements	X Cannot measure from imagery
130+ attributes in one pass	✓ Single inference pass	X One API call per question
National scale (150M properties)	✓ 1,000+ properties/sec	X <10 properties/sec
Regulatory audit trail	✓ 59-page system report	X No docs, no version control
Reproducible outputs	✓ Deterministic	X Stochastic by design
Calibrated confidence scores	✓ Per-class calibration	X Not available
Parse underwriting documents	X Not the right tool	✓ Exactly what Gen AI does best
Explore and search for novel things / R&D prototyping	~ Possible but costly	✓ Fast, flexible

"The question was never Gen AI or Nearmap AI.  
It's: what's the right tool  
for each part of the job?"

— Nearmap TM033 Study Conclusion | March 2026

# Nearmap Labs

# Nearmap Labs

A window into the future of  
property intelligence

Showcase of foundational technologies

Early access to our thinking and building

Behind-the-scenes look at the data and  
models shaping Nearmap's future

# Nearmap Labs

A window into the future of property intelligence

Agentic  
Rules  
Mapper +  
SERFF  
Explorer

Zero-Shot  
Learning

Few-Shot  
Learning

Foundation  
Models

Polygon  
Deep  
Learning

Temporal  
Reasoning  
Engine

Agentic  
Change  
Detection

# Nearmap Research

Technical whitepapers and analyses

Insurance  
Lift Analysis  
with Image  
Recency

National  
Roof Age  
Study

# Nearmap Labs #1b: SERFF Exploration

## What is it?

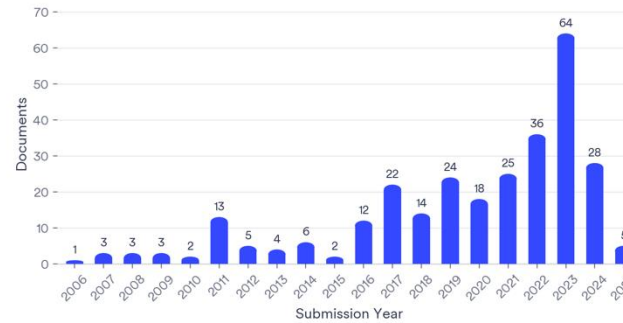
- The obvious next step:
  - >**300 underwriting guidelines docs** from the open SERFF platform covering **47 carriers** in **25 states**
- Analysis and Exploration** app, and a **Whitepaper**

Corpus Overview: Submission Timeline & Geographic Distribution

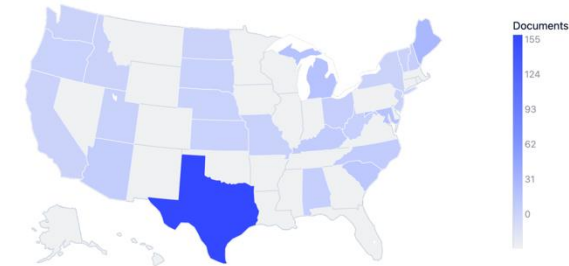
Data Set Summary

Documents	302
Carriers	47
States	25
Shortest doc	3 pp
Longest doc	91 pp
Average doc	16 pp

SERFF Submission Year



Document Coverage by State

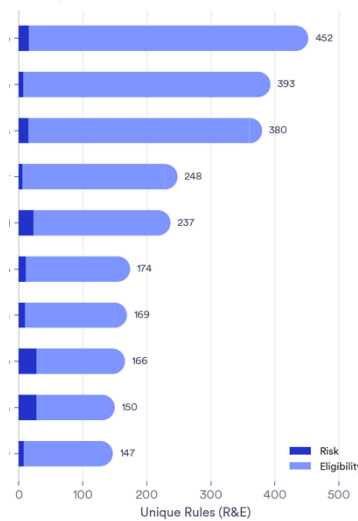


## So What?

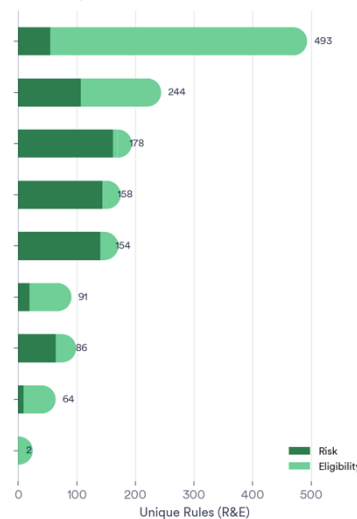
- Unique **strategic understanding** of the whole underwriting industry, and our place in it
- Driving **use case focused innovation & insights** as we build scores, layers and experiences

Top 10 Mappings by Ontology — Risk & Eligibility Rules (Carrier-Deduped)

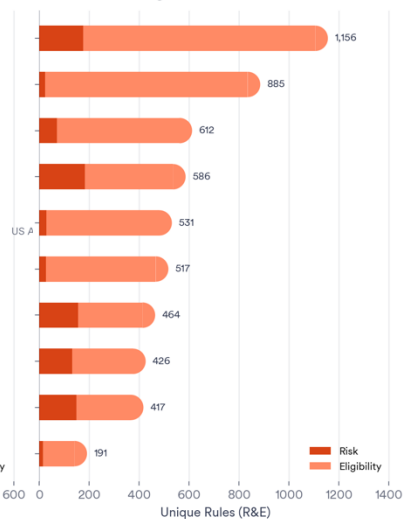
AI Layers



Nearmap Scores



Partner Offerings



By Carrier By State

INSURANCE COMPANY 5

Access Home Insurance Company 1

Acuity, A Mutual Insurance Company 1

Aegis Security Insurance Company 26

Agricultural Workers Mutual Auto Insurance Company 2

Alabama Insurance Underwriting Association 2

Allied Trust Insurance Company 8

Allstate Indemnity Company 14

Allstate Vehicle and Property Insurance Company 9

American Bankers Insurance Company of Florida 19

American Family Connect Property and Casualty Insurance Company 4

American Hallmark Insurance Company of Texas 3

American Modern Home Insurance Company 4

American Modern Property and Casualty Insurance Company 37

American National Lloyds Insurance Company 27

American National Property And Casualty Company 1

American Reliable Insurance Company 1

American Risk Insurance Company, Inc. 1

Select a document to view.

Select a document on the left first

ELIGIBILITY RISK ROUTING PROCEDURE APPLICABILITY

# Nearmap Labs #2: Zero Shot Learning (Text Search Embeddings)

## What is it?

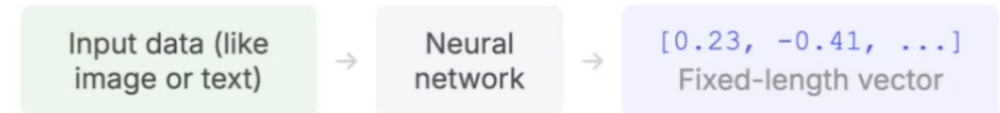
- Embeddings executed on vertical and multi-angle imagery of properties
- Current demo at 130k properties / **1M images** (Billion image, **national scale data** in next couple of months)
- Search for arbitrary keywords, including obliques

## So What?

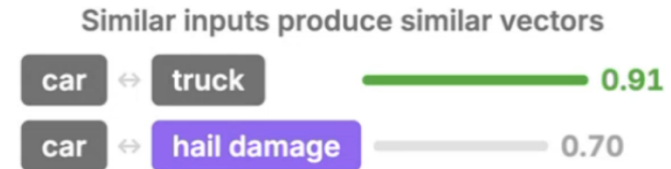
- Developed initially for internal purposes – efficiently building new AI Layers
- A Caution: Like all **embedding** approaches - **approximate search only**
- **Not exhaustive, variable accuracy**
- **Flexible search**, but **performance un-quantifiable**

## What is an embedding?

A neural network maps inputs to fixed-length numeric vectors



Trained so that semantically similar inputs map to nearby vectors



Models are optimized for a specific distance measure like cosine similarity or dot product

# Property search

## Dataset

2026-05-12 21:30 · 132,875 properties · 132,875 vert · 1,053,609 oblique · siglip2\_so400m\_parcel\_vert\_naflex / siglip2\_so400m\_parcel\_obliques\_naflex

Refresh

## Query text

e.g. swimming pool, red roof, dirt driveway

## Mode

Both

## Rerank

Max

## Top K

10

Search

# Why not wrap it in a MCP Connector?

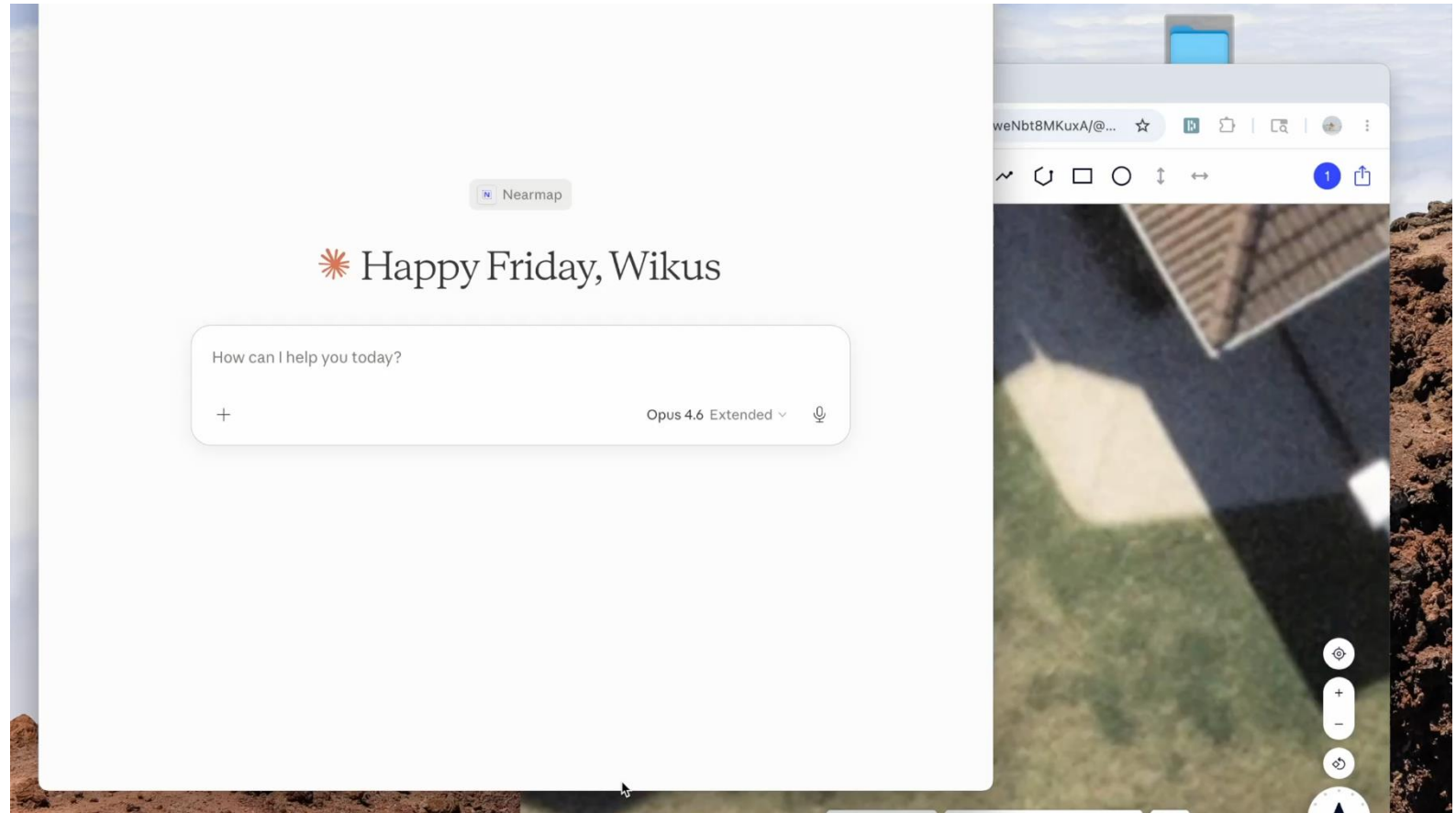
An MCP is not the hard thing – it’s like an API.

It’s the data and technology capabilities that it connects an LLM to that matter.

This one is a connector to the Zero Shot Embedding Search demo

... and some basics like image viewing/reviewing

Embeddings are bad at combinations – so the MCP does basic “this AND NOT that” style expressions



# Nearmap Labs #3: Few Shot Learning

## What is it?

- **Start** with zero shot **approximate search**
- **Click some examples** to correct the answers
- **Train a supervised embedding model head**
- Refine until **desired performance** reached

## So What?

- **Smooth scaling** beyond text search
- **Verifiable performance** from human supervised answers
- Used internally for **efficient** AI Layer creation
- **Customer specific** AI Layers on our embeddings?
- **Custom embeddings?**

## Nearmap Image Analysis

Multi-model vision embeddings for aerial imagery analysis

### Tile Search

Search 388K aerial tiles by text query with zoom level filters

### Parcel Search

Search 52K land parcels with boundary/masked view toggle

### Webtile Viewer

Interactive map viewer for survey tiles with similarity overlay

Example UID: e76935a1-33f1-4aec-b75b-9948cc2362f8

### Saved Datasets

View and download exported search results

### Active Learning Classifier

Train custom image classifiers interactively with uncertainty sampling

### Address Inference

Generate parcel images from address and run multi-model

# Foundation Model Workstreams

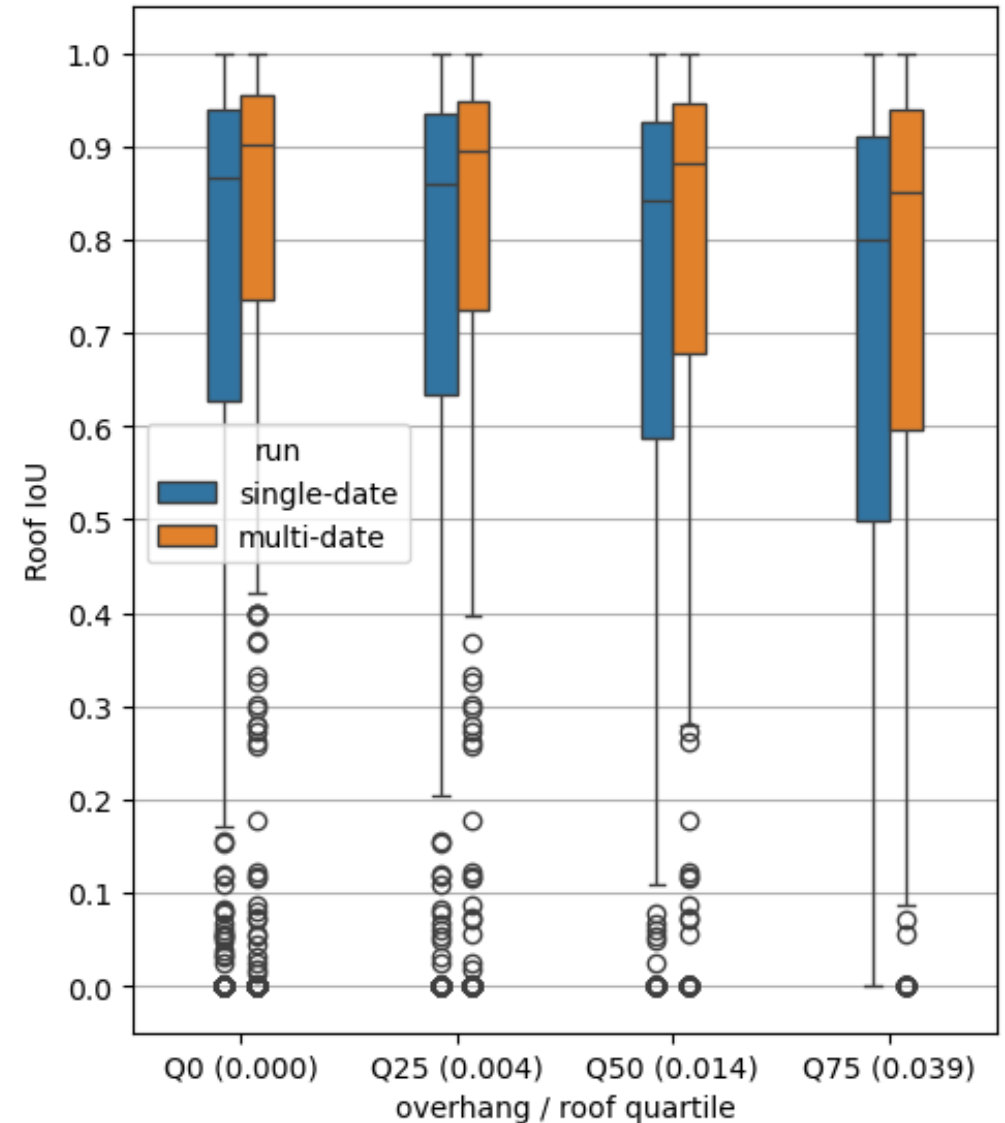
Model training experiments with hundreds of millions to **billions of images in training data**

Open source embedding models like DINOv3 are great for single image – they have learned about the structure of the world from internet scale imagery.

Nearmap trained embedding models... are adapted to the nuances of our data set:

- Learn implicit 3D reconstruction from multi-view
- Learn temporal patterns from multi-date
- Learn multi-modal info from near infrared, DSM, DEM

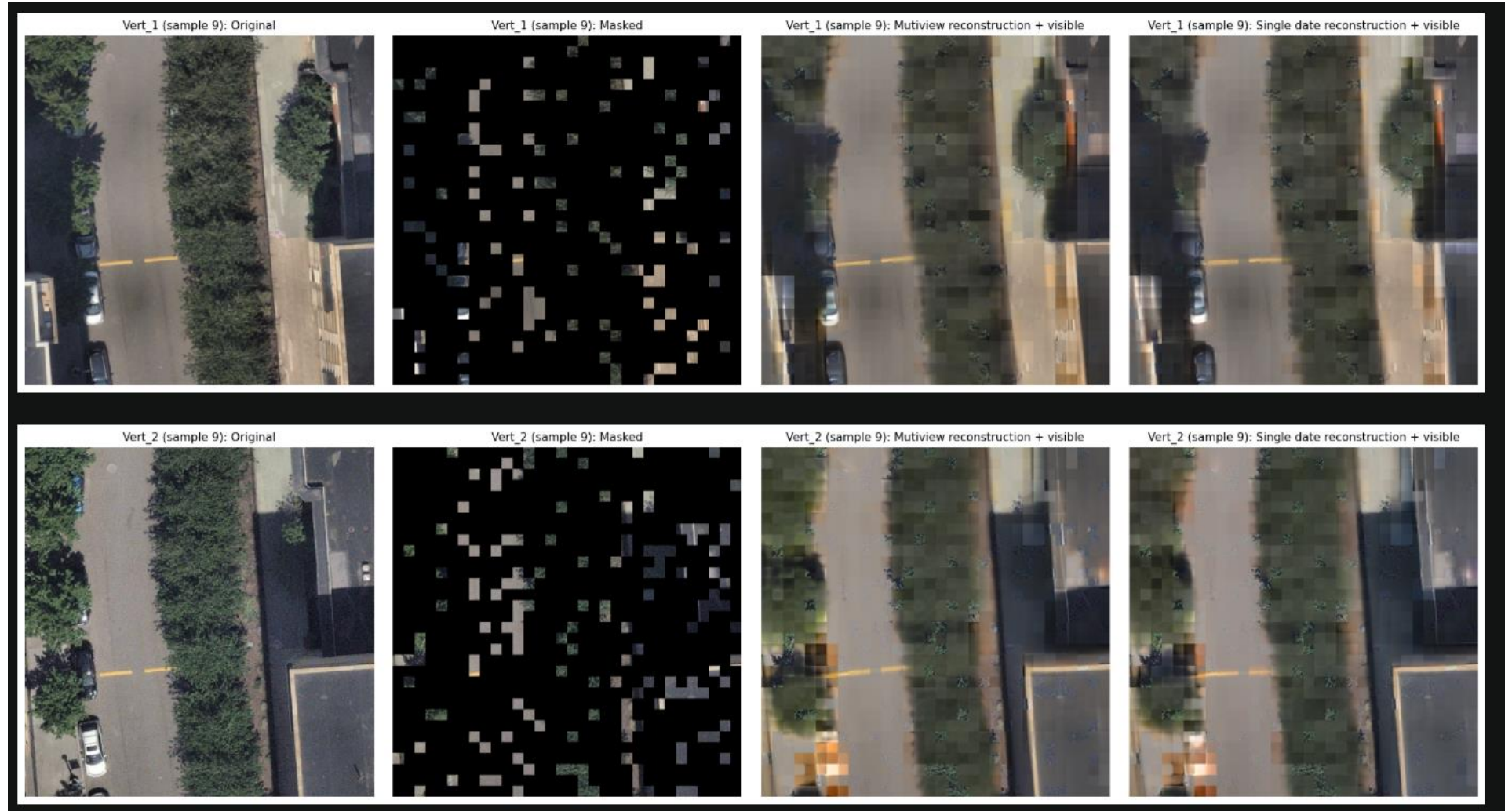
Distribution of roof IoU by run, filtered by overhang / roof quartile



# Foundation Model Workstreams

Columns (Left->Right)

- **Original** Image
- **Masked** Image
- Reconstruction from masked using **multi-view**
- Reconstruction from masked using **multi-date**



# Nearmap Labs #5: Polygon Deep Learning (Visual Parcels)

## What is it?

### Proprietary “direct to polygon”

transformer deep learning model

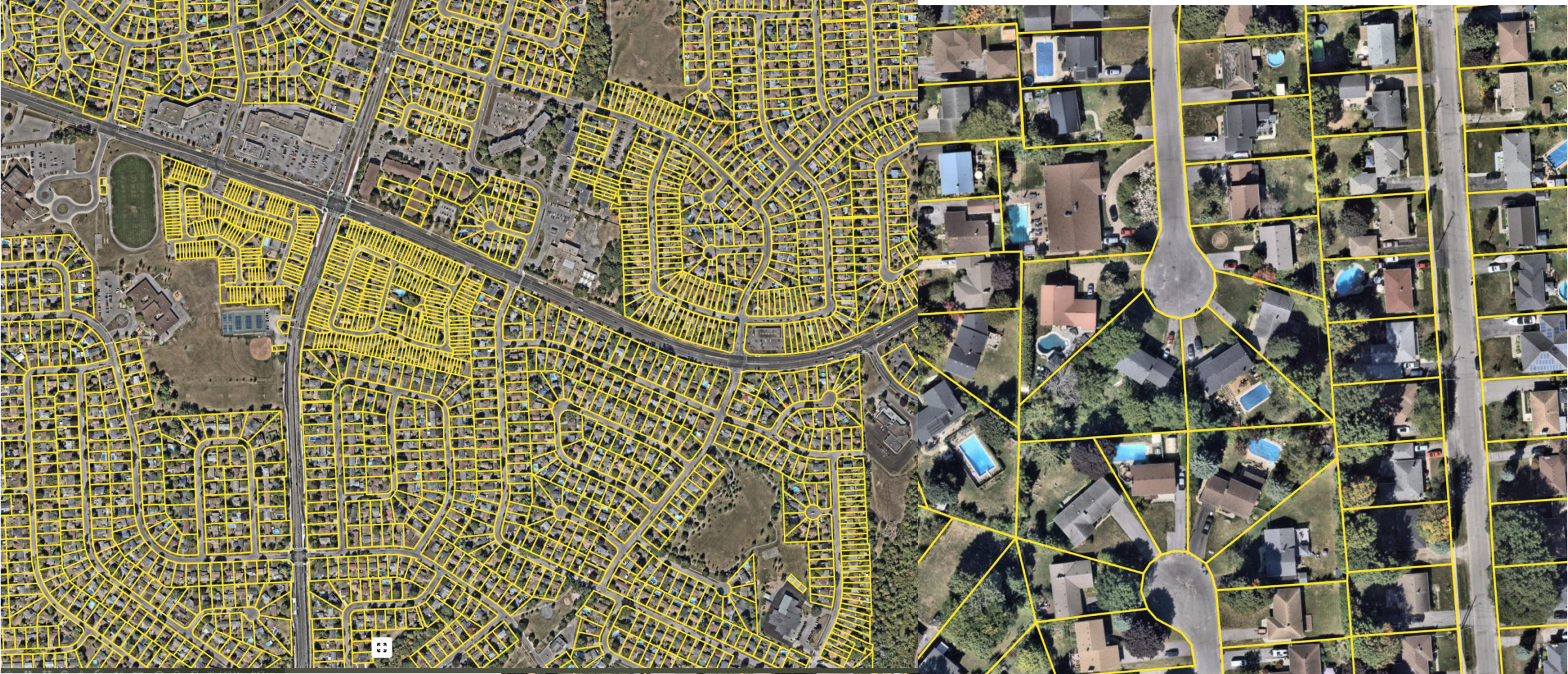
Identify property boundaries purely from imagery, or enhancing existing parcels.

## So What?

1. **Bad Parcels** are common (misalignment, errors) and break data
2. **New Developments** lag with parcel boundaries
3. **Whole Jurisdictions** (e.g. Canada) lack parcels
4. **Other Polygons...?**



# Visual Parcels (pure imagery) – Kingston, Canada



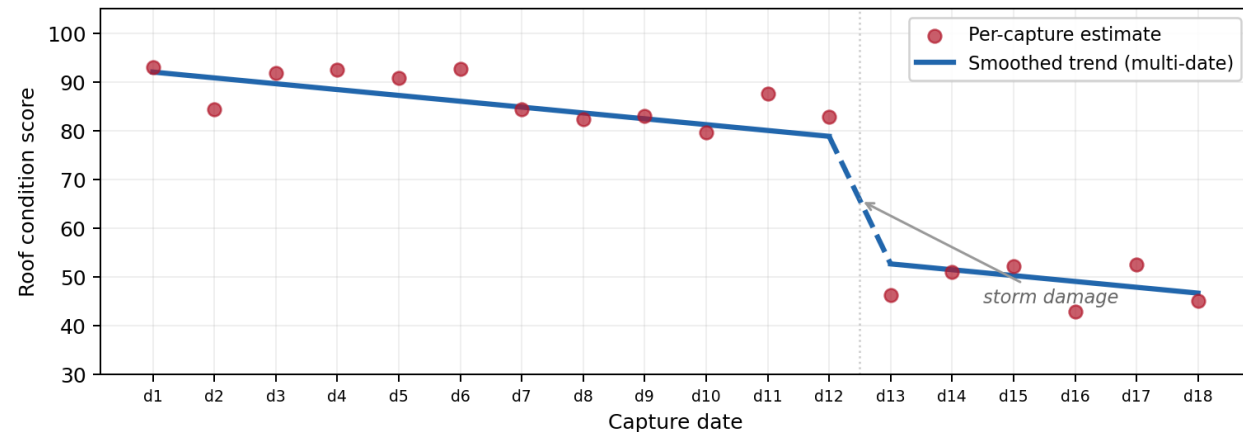
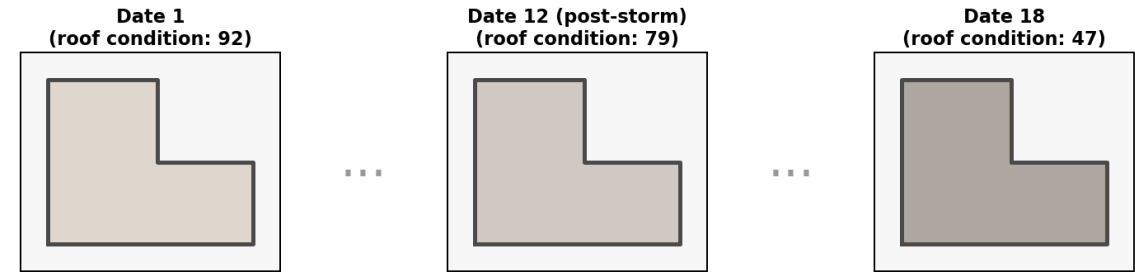
# Nearmap Labs #6: Temporal Reasoning Engine

## What is it?

- New multi-date, multi-source first reasoning system
- First used for roof age – every building, every date, multiple data sources
- Every date on every building now **has full Gen 6 AI**
- Extra **temporal embedding** models to enrich
- 3<sup>rd</sup> party data ingest (assessor & permit)
- Meta algorithms reasoning about full history
- Simplified data set

## So What?

- New Damage Conflation product
- Pre-cat footprints, reasoning about cloud and occlusion
- “Best and latest” view – **unified data set updated each survey** in an event
- What’s next? Applying this to **everything about a roof**

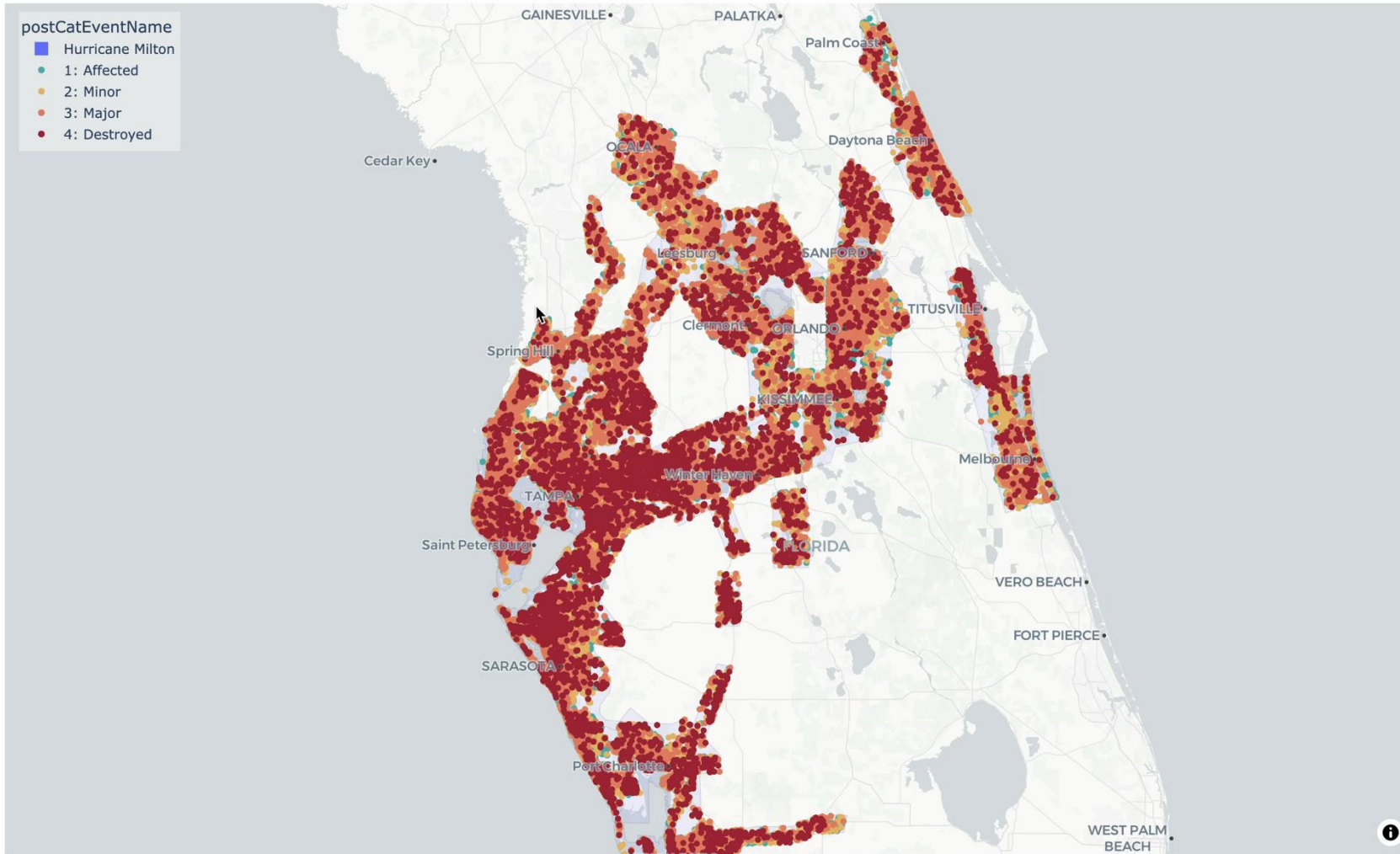


Number of Buildings  
**4,297,711**

Impacted Buildings  
**244,476**

Major or Destroyed Buildings  
**42,474**

Buildings with Pre-Event Data  
**4,094,064**



Number of Filtered Buildings from Event  
**1,860,582**

Filter Thresholds:  
Minimum Area (sqm) 30.0

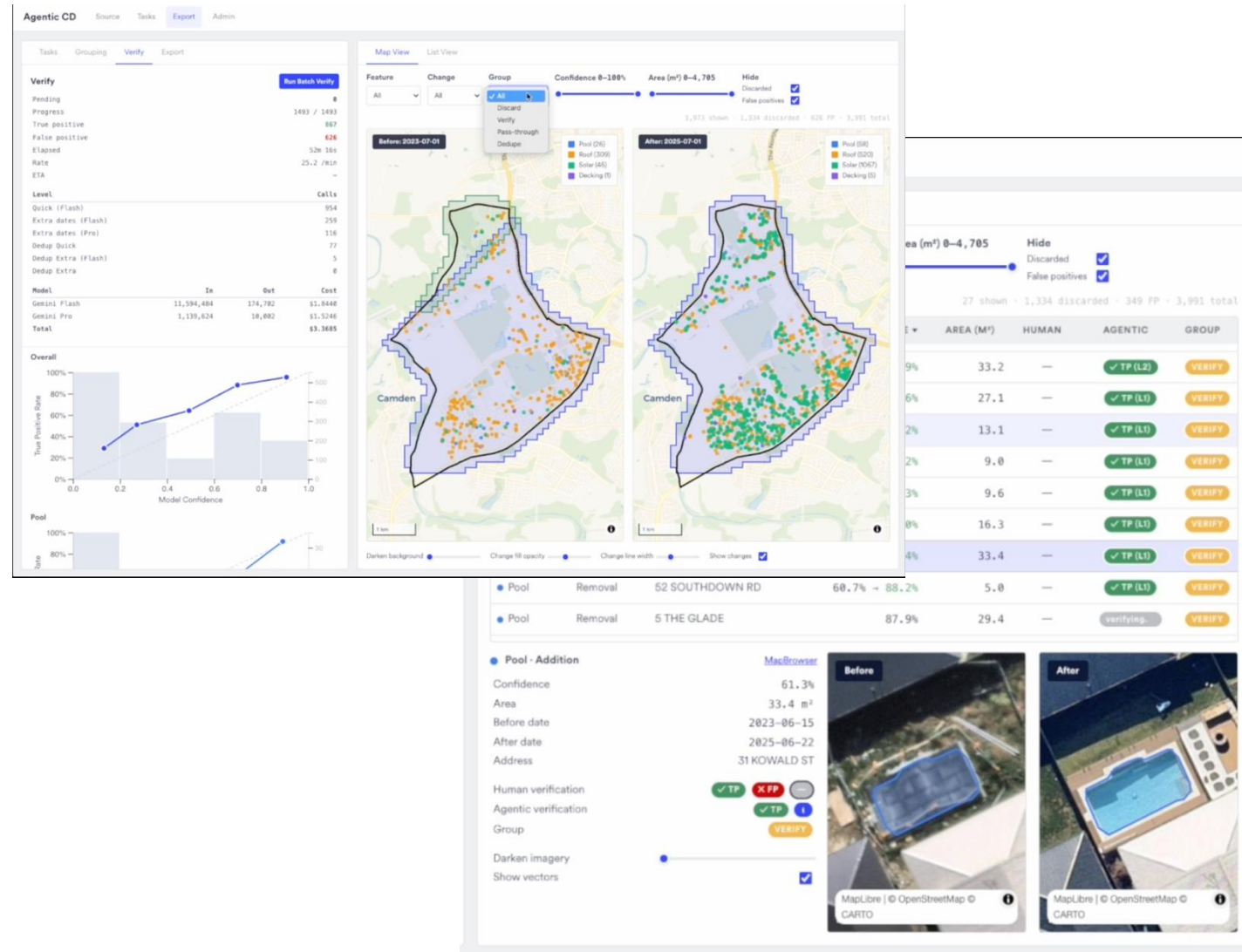
# Nearmap Labs #7: Agentic Change Detection

## What is it?

- Advanced Heuristic Change Detection (Gen 6 “intelligent” two date comparison)
- Temporal reasoning with a twist - Agentic Refinement

## So What?

- Change Detection is Hard (bad signal-to-noise ratio, in a messy physical world)
- Scalable Success on a range of change tasks requires **extremely high grade imagery and supervised ML**
- Even that needs some **curation by an agent...** human is traditional, machine scales



Region

Source

US Counties

Search

bron

NAME ▲	STATE	AREA (KM <sup>2</sup> )
Bronx	NY	109

Search parameters

Before

01/01/2024

After

01/01/2026

Target window (± days)

60

Overlap (zoom 18 tiles)

1

Reasoning model

claude-sonnet-4-6

Vision model

gemini-3-flash-preview

Prioritisation weights

Date proximity  0.40

Fewer pairs  0.20

Image quality  0.20

Leaf-off  0.20

Reset

Find Surveys

Filter & Save

Map View



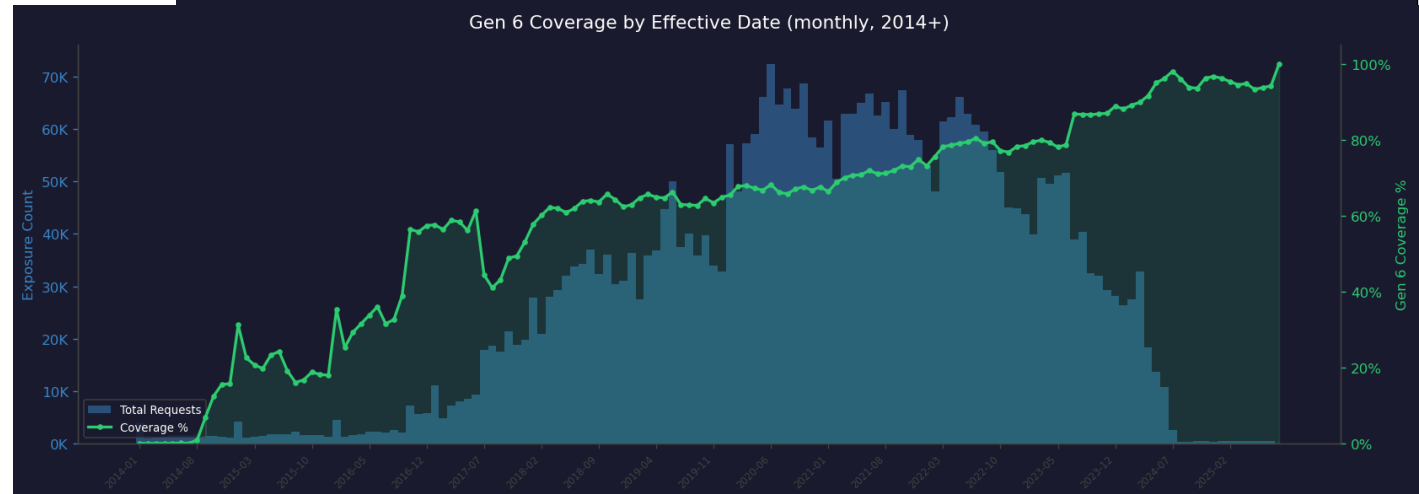
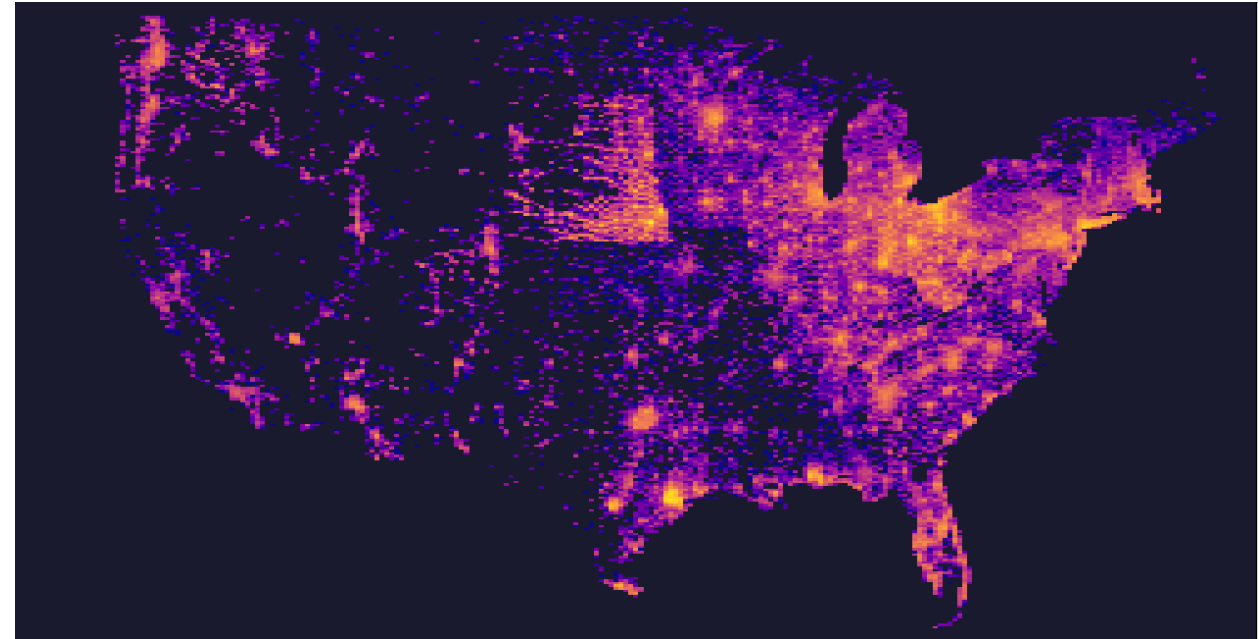
# Nearmap Research #1: Gen 6 Lift Analysis

## What is it?

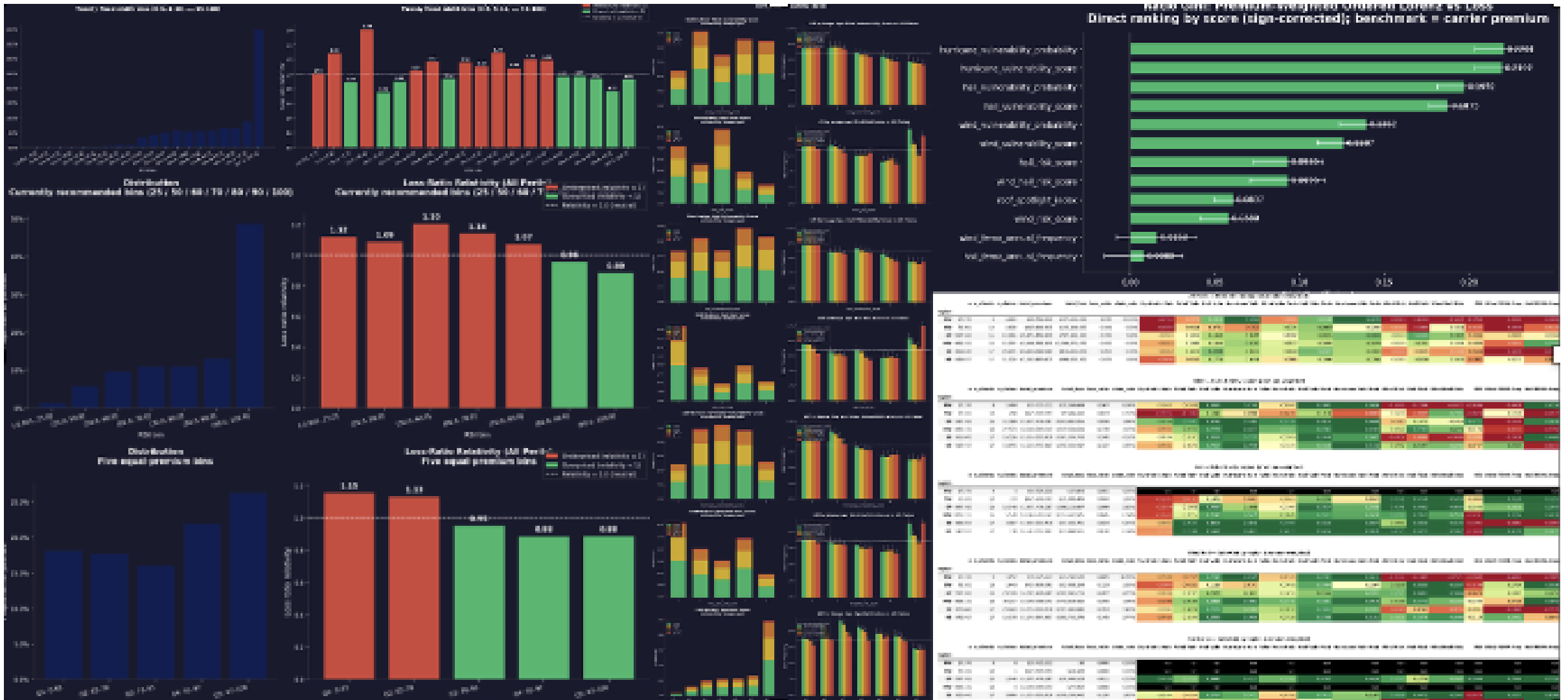
- Analysis against an aggregated data set of claims data equivalent in size to a **top ten US insurer** (with claim types and loss value)
- **Comprehensive lift analysis** on existing Gen 6 Attributes and Scores

## So What?

- Demonstrate value of existing attributes
- Guide complex data tests more effectively, and engineer better features
- Building a **next generation** of features and scores using Gen 6
- Already found **large lift opportunities**



# “Top Ten” Equivalent Nearmap Lift Analysis



# Nearmap Research #2: National Roof Age Study

## What is it?

- Based on full, national US roof age analysis
- Aggregate statistics and trends
- Combined with climate data (temperature, humidity, precipitation)

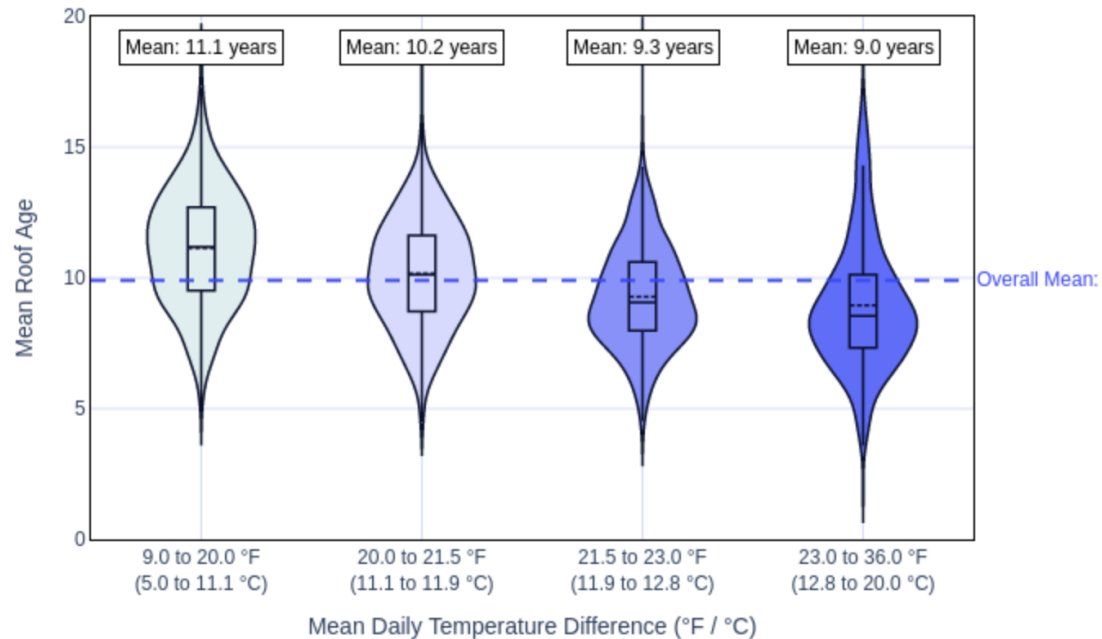
## So What?

- Only possible with consistent, **national pre-processing**
- **Benchmarking** and **Analysis:**  
See your properties vs the nation

## Thermal Stress and Roof Age

One of the clearest trends in the data is the relationship between large daily temperature swings and younger roofs. Counties experiencing mean daily temperature fluctuations above 23°F (12.8°C) had an average roof age of 9 years, compared to 11.1 years in counties where fluctuations stayed below 20°F (11.1°C). This seemingly small difference in weather behaviour resulted in a roughly 23% increase in mean roof age.

Mean Roof Age Distribution by Mean Daily Temperature Difference Bucket

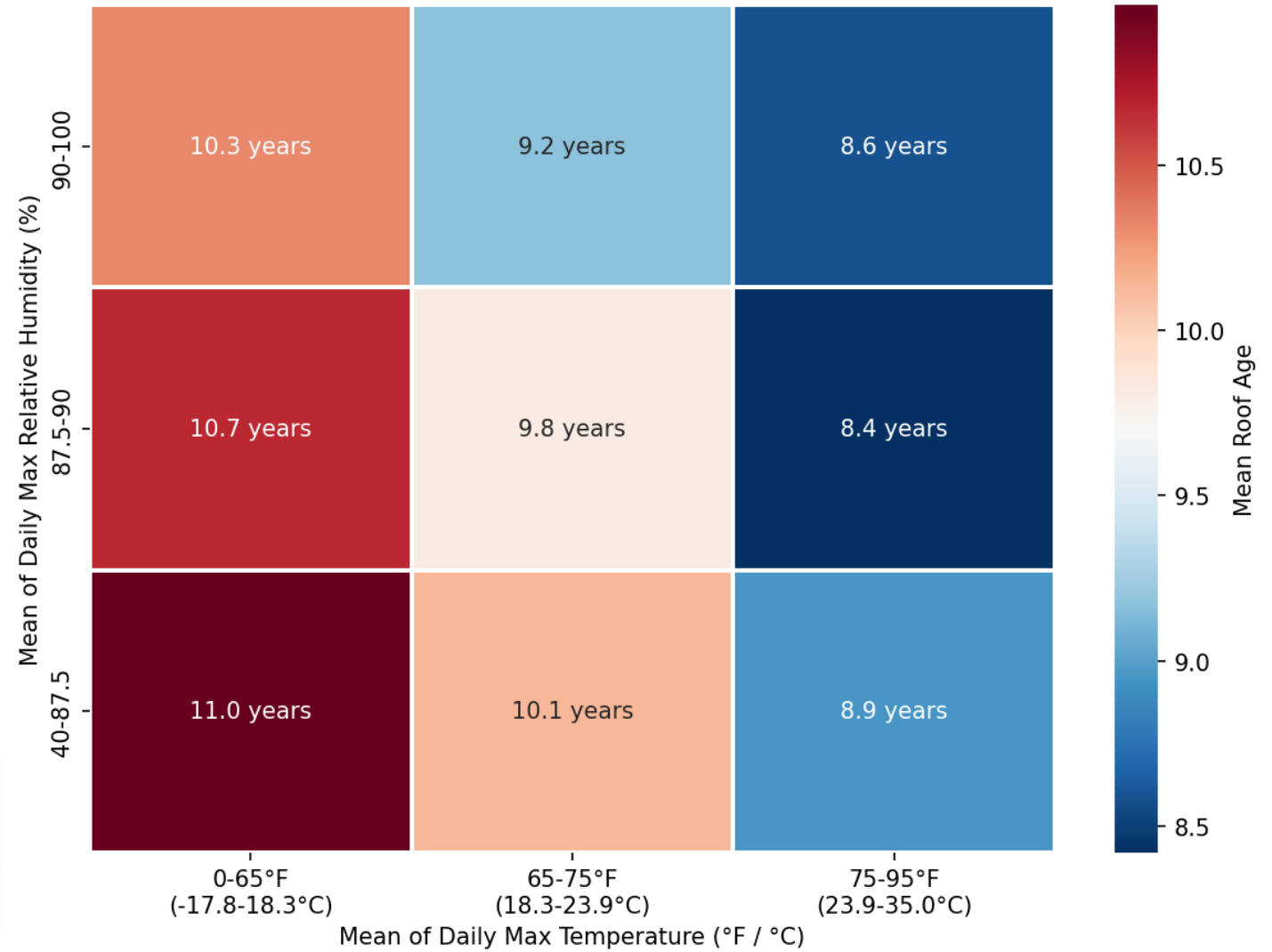
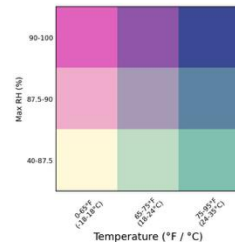
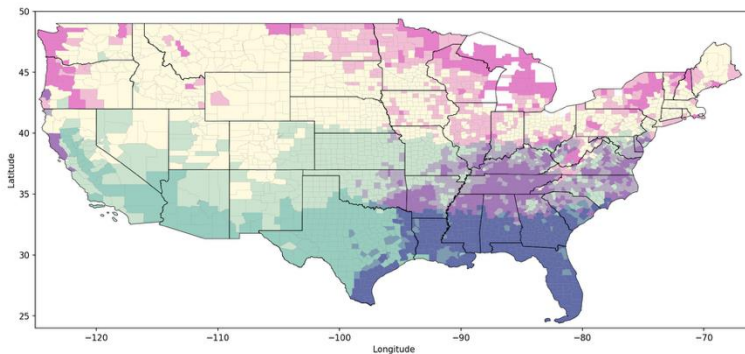


# Weathering the Elements: How Climate Impacts Roof Lifespan in the US

Divide USA based on climate:

- Average **daily max temperature**
- Average **daily max humidity**

For each of the 9 groups:  
calculate **average roof age**

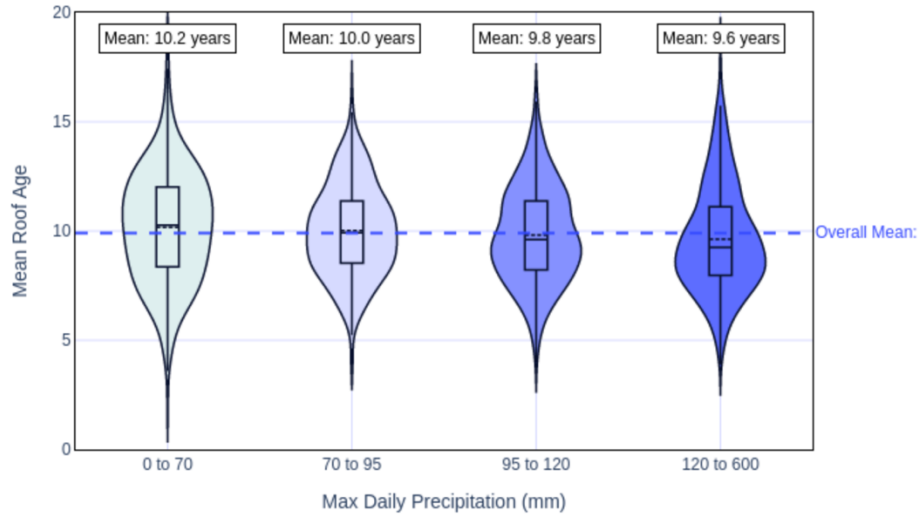


# Max Daily Precipitation Comparison

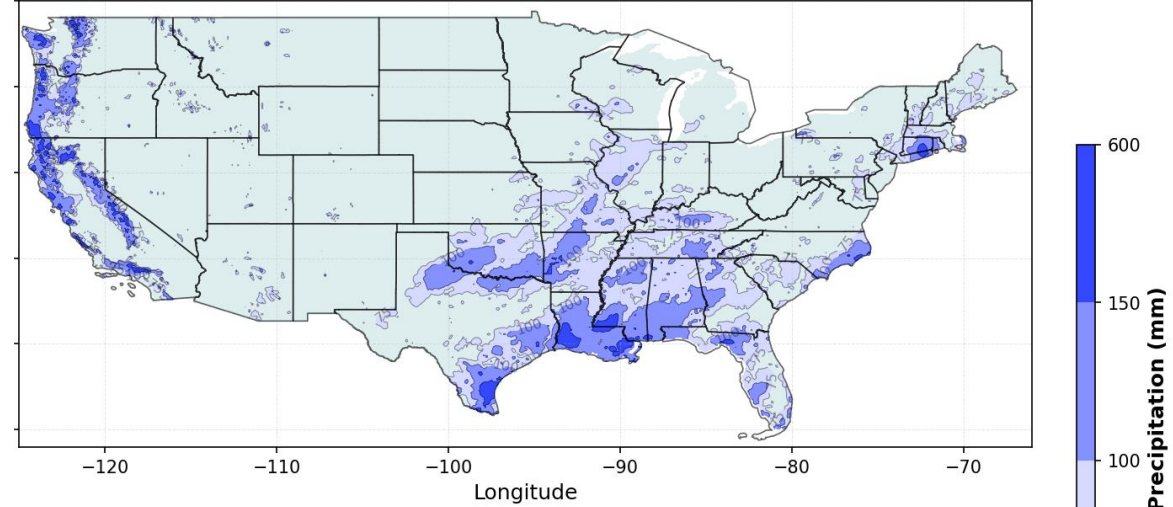
## The Rising Toll of Heavy Rain

Extreme rainfall events, often associated with Severe Convective Storms (SCSs), are becoming more prevalent [5] and have significant effects on roof damage [6]. The data shows a clear relationship between maximum daily rainfall and roof age: counties experiencing the highest rainfall intensity tend to have younger roofs, indicating more frequent replacements. In regions where maximum daily rainfall exceeded 3 inches, mean roof ages were considerably lower than in areas with more moderate precipitation patterns.

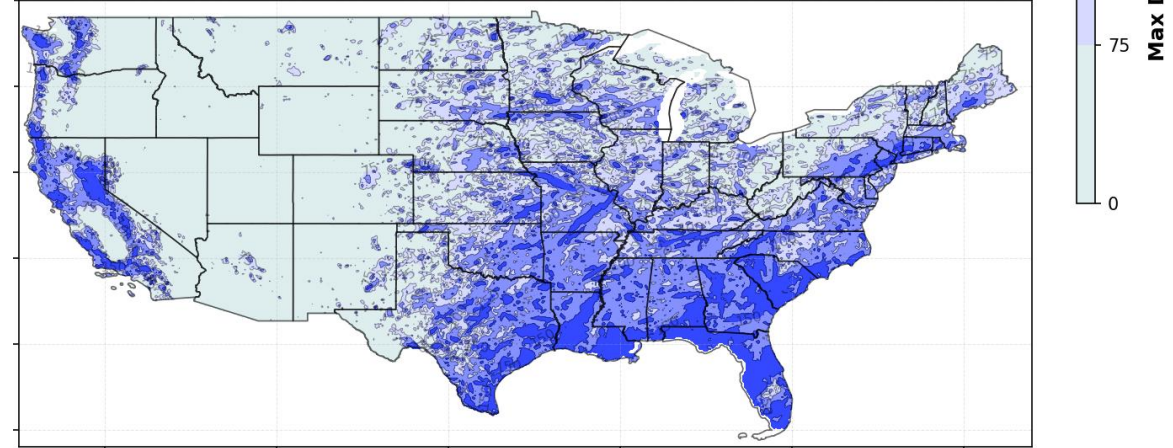
Mean Roof Age Distribution by Max Daily Precipitation Bucket



Max Daily Precipitation 1980-1984 (5 years)



Max Daily Precipitation 2020-2024 (5 years)



# Nearmap

Let's talk

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