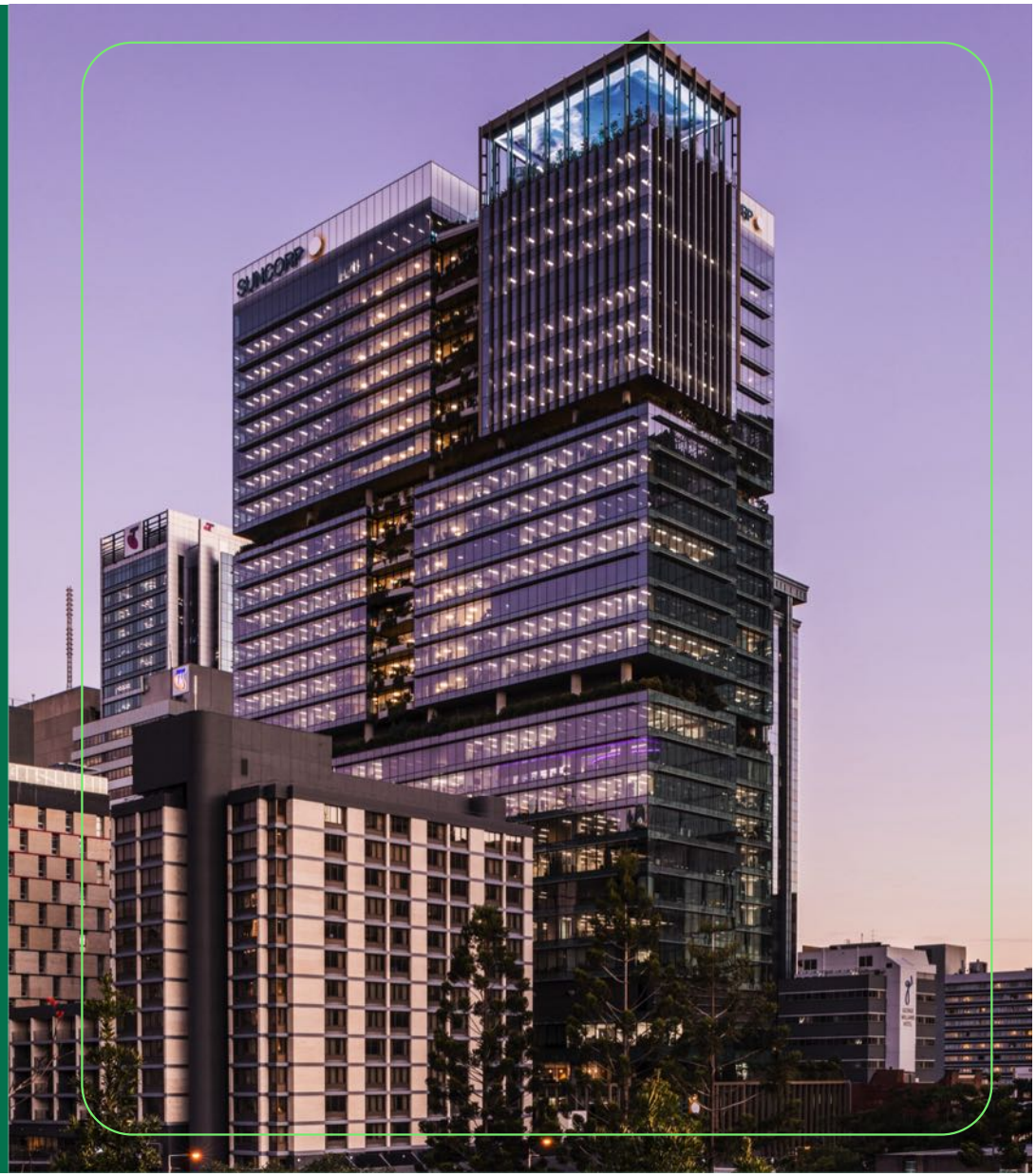
Run Before You Fly.

Where AI Actually Earns Its Place in Building Optimisation

Haibo Chen | Head of Global Services | Smart Building Show 2026

Bueno



How often does your building AI get it wrong?

...and would you know?

Hands up if you know the answer for the platform you use today.

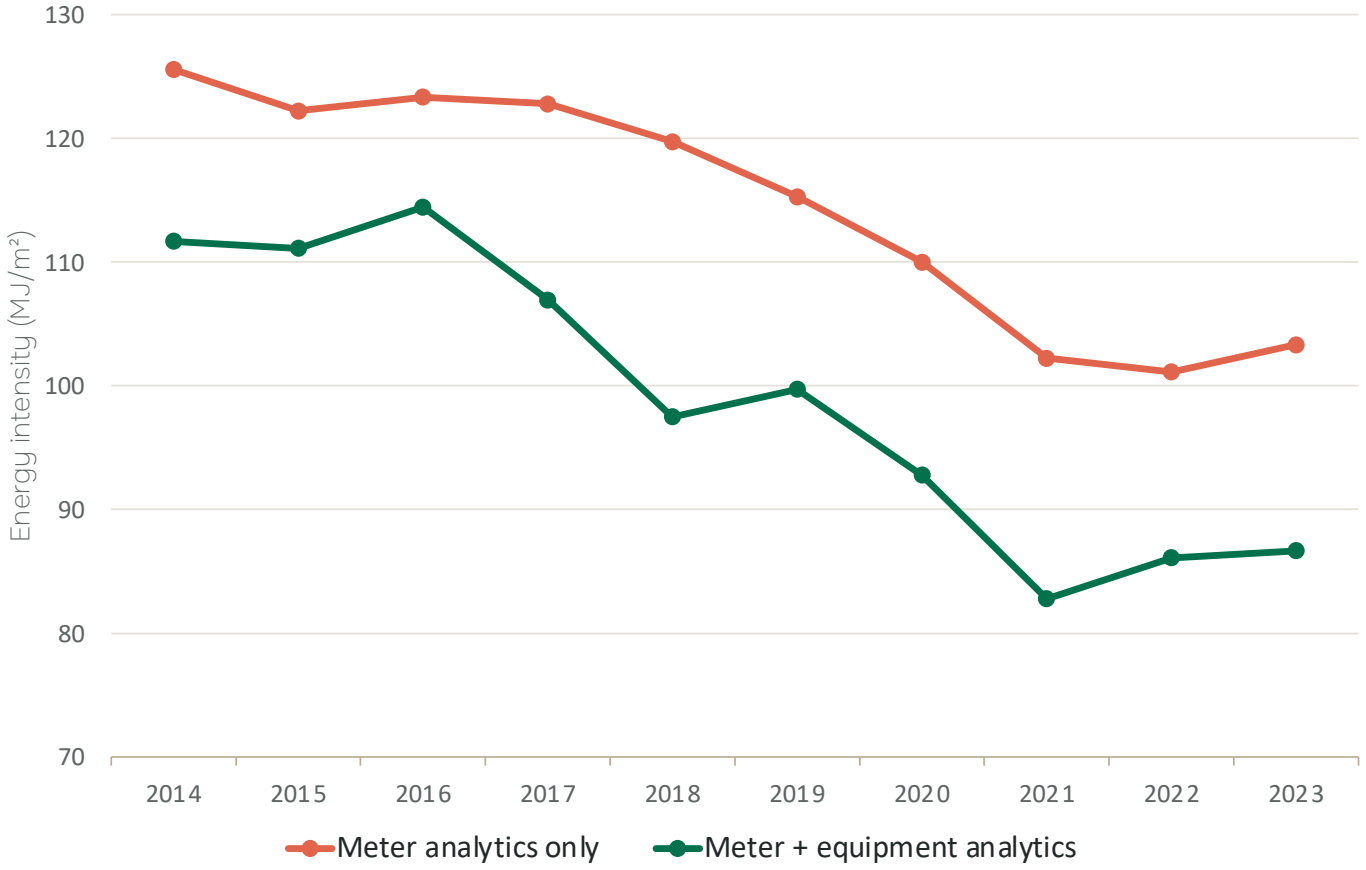
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AI has already changed optimisation

Before	With AI
Weeks of manual trend analysis to find opportunities	Opportunities scoped and quantified automatically
Periodic audits that drift out of date	Continuous analytics, 24/7, on every connected asset
Deep expertise needed to find the savings	Expertise barrier lowered: experts spend time on decisions
Thousands of checklist PPM tasks on healthy equipment	~50% of routine PPM checks automated

Maintenance is where this is furthest along. I'll go deep on that in my second session, [day / time].

⅔ of the savings come from below the meter



−8%

Energy meter analytics only

−22%

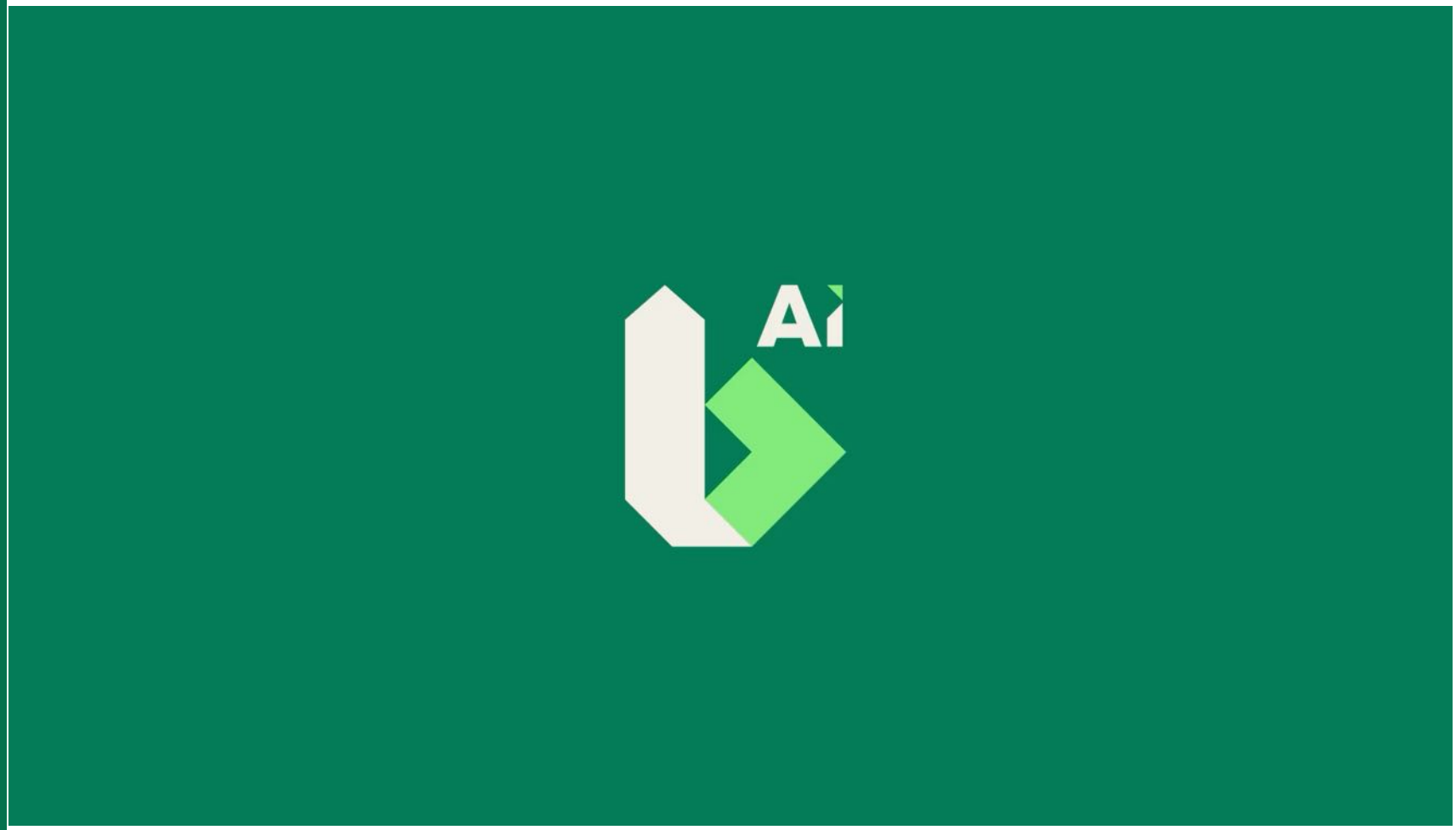
Meter + equipment-level analytics

Source: NABERS building reports 2014–2023 and Bueno Analytics data (Australian office buildings)

Demo

Automated
AI Optimisation

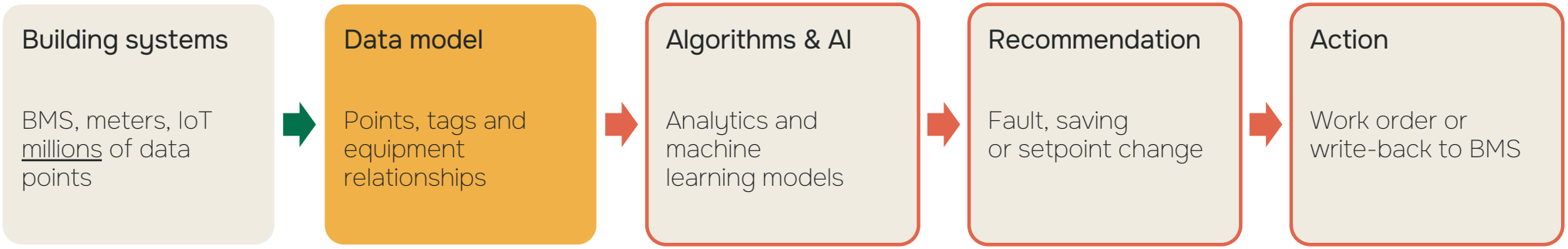
Bueno



What used to take an engineer hours of trend analysis, scoped and quantified nearly instantly.

Garbage in, garbage out: AI inherits your data model

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One mislabelled point in the data model flows through to every result after it

Supply and return air swapped

Analytics sees cooling that isn't happening, and flags a fault that doesn't exist

Sensor mapped to the wrong AHU

The 'fix' gets applied to equipment that was working fine

Meter units or tenancy wrong

Savings are overstated, and the business case is built on numbers that are wrong

AI makes building the data model faster. It doesn't make it right.

A brand-new London tower had 400+ defects at handover.

How accurate is the data model in yours?

Bueno

Other industries publish their error rates

Of the 14 most widely adopted building analytics products:

0

publicly disclose the precision of their AI or analytics



Medical AI



Consumer tech



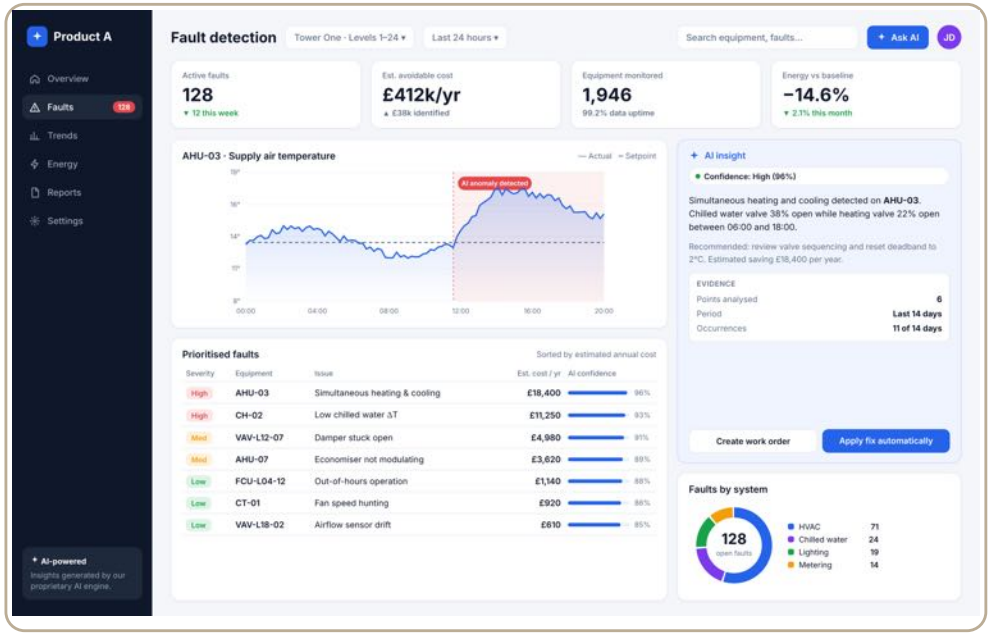
Cybersecurity

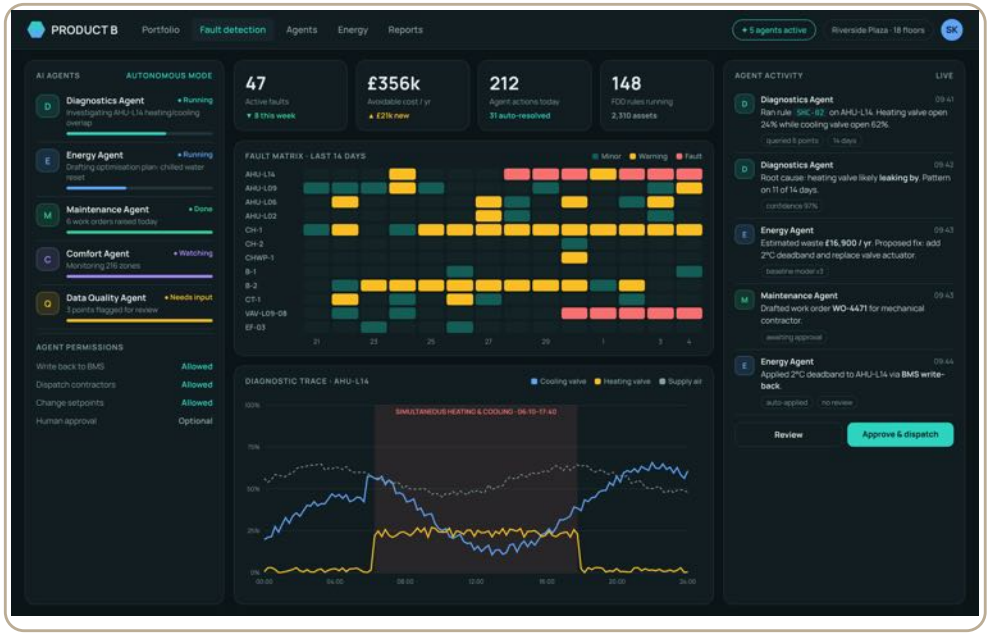
Building analytics
?

Desktop review of vendor websites and materials, [month] 2026

Vibe-coded AI: can you tell which is real?

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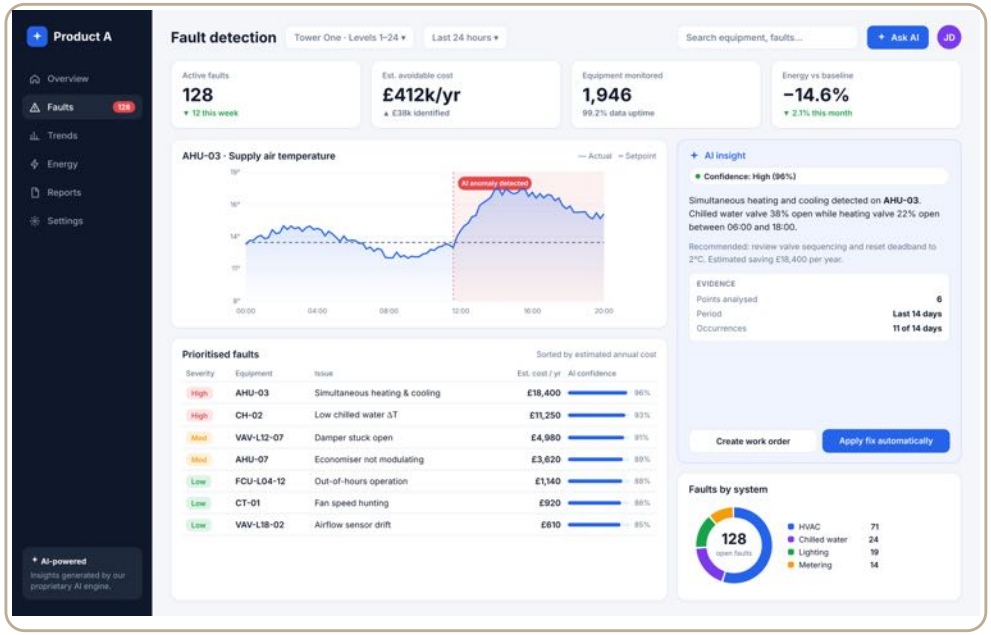


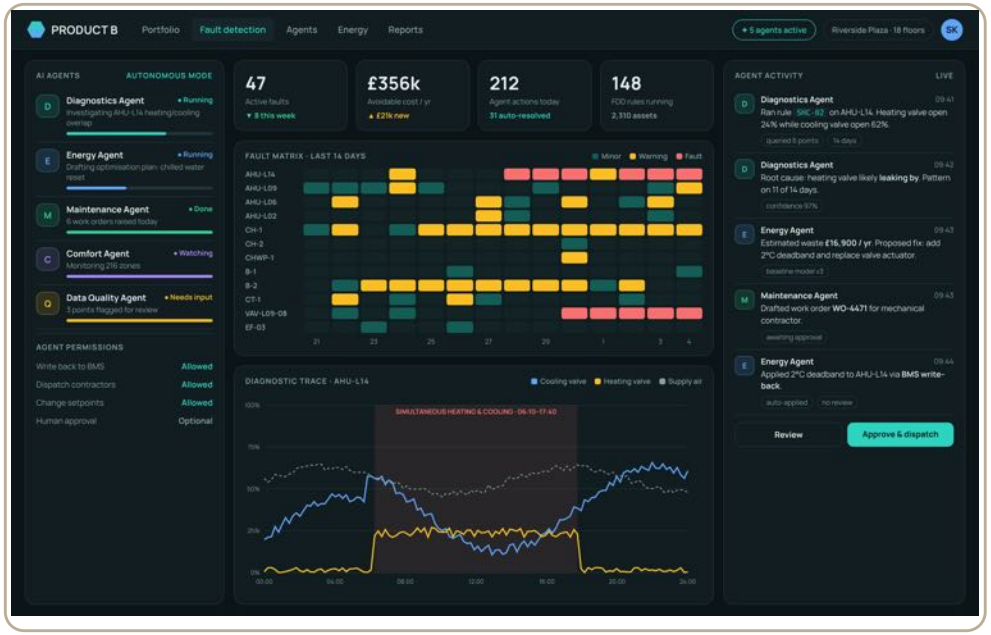


Which one would you trust to change your building?

Vibe-coded AI: can you tell which is real?

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Built with AI in under an hour

Built with AI in under an hour

Neither has run on a real building. A polished UI proves nothing; validated results at scale do.

The gold standard for the next 12–24 months

Bueno

1

Verified at scale

Results validated across thousands of buildings and years of data, not a pilot or a demo

2

Human-in-the-loop by design

AI proposes; people verify before it changes anything. Verification has to be cheap, or people won't do it

3

Confidence disclosed

You can see how sure the system is about each output, on your buildings

What "at scale" looks like in practice

2,800+
buildings

5M+
connected points

~13 yrs
of equipment data

3
regions: AU, UK, US

Autonomy is earned, one task at a time

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Step 1

AI suggests, human decides

New or lower-confidence algorithms

Step 2

AI decides, human spot-checks

Proven algorithms, sampled review

Step 3

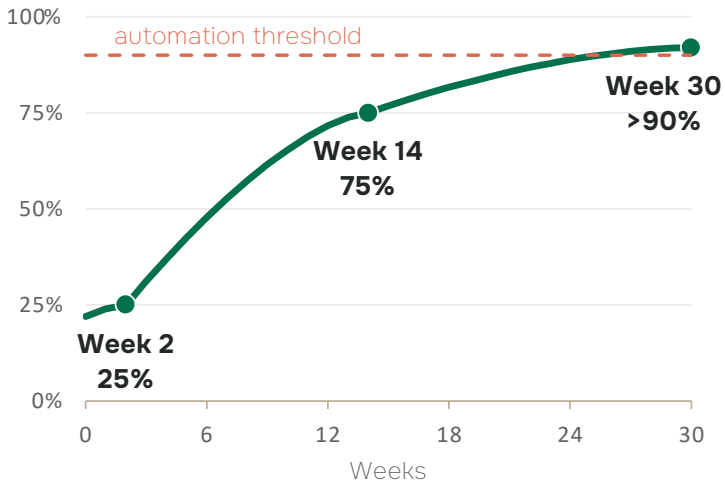
Fully automated

Customers chose to switch off review

Valve hunting
for all customers

Example: valve hunting detection

Accuracy over time, with reviewer feedback

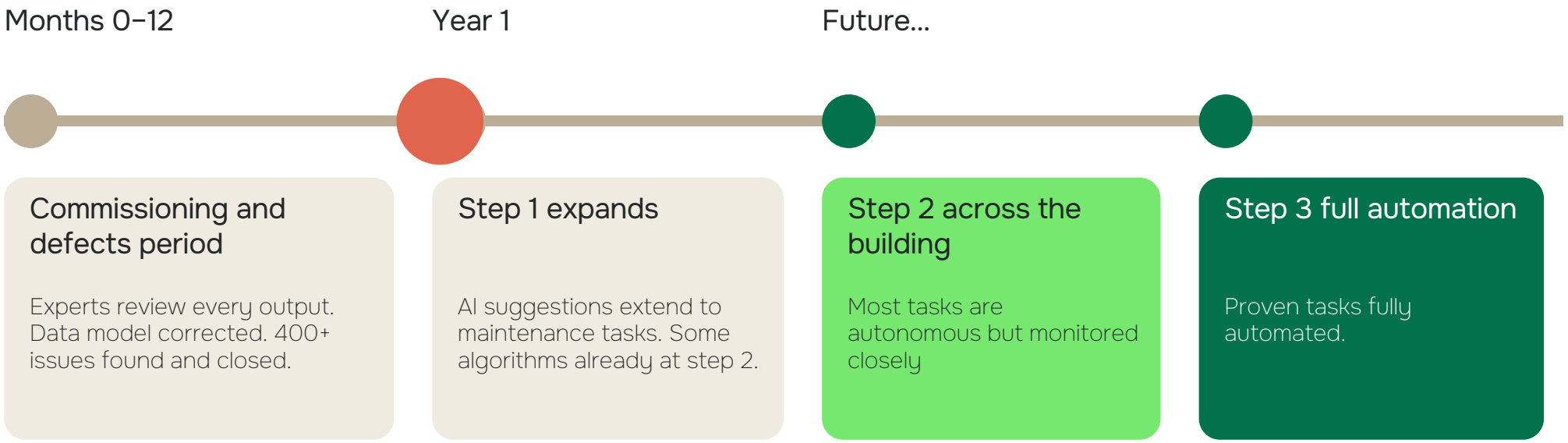


30 weeks of reviewer feedback took it from 25% to over 90%. Today it's fully automated for every customer.

Algorithms take months. Buildings take years.

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Earning autonomy: the same new London tower, from practical completion



Where this building's algorithms sit today

[85%] Step 1 | [15%] Step 2

[0%] Step 3

3 questions to ask your AI vendor

1. How often are you wrong, on buildings like mine?
2. How do you know my building's data model is right and remains right?
3. Who checks before changes are implemented in my building?

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Walk. Run.
Then fly.

So, how often does your building AI get it wrong?

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Thank you
Questions?

Bueno

Good. Better. Bueno

www.buenoanalytics.com

