

HOW AI CAN HELP CLEAR THE CONNECTION QUEUE

AND DE-RISK TRANSMISSION INVESTMENT

Human expertise at grid scale

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Energy in Western Australia 2026

THE PROBLEM

The queue is no longer administrative

It is a strategic constraint on opportunity.

RENEWABLES

**Projects waiting to
move**

INDUSTRY

**Mines seeking
green power**

DIGITAL

**Data centres
seeking capacity**

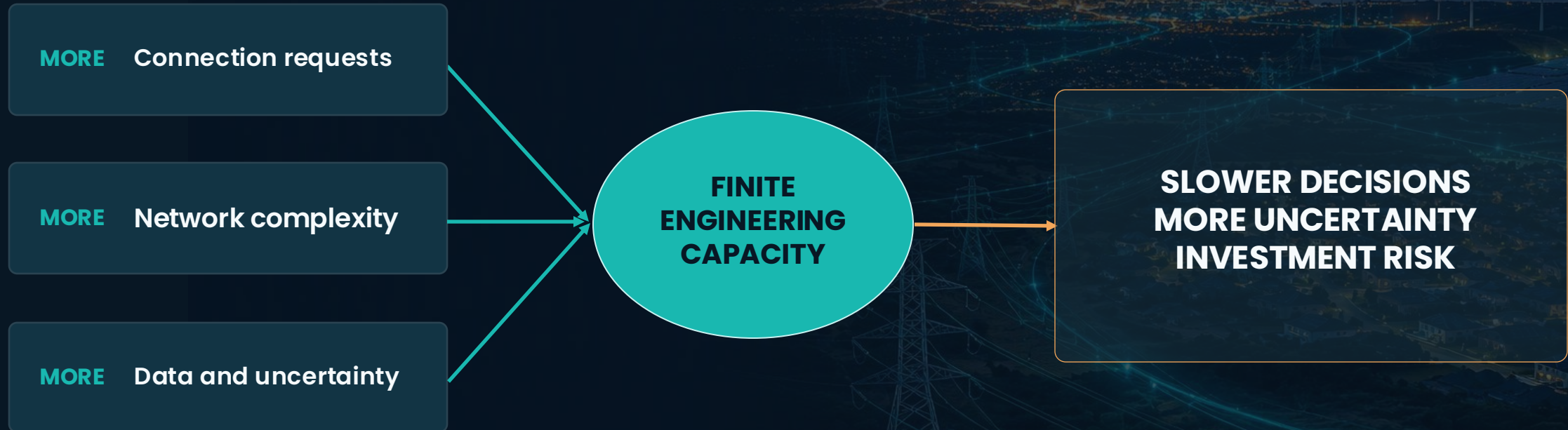
COMMUNITIES

**Growth seeking
reliable supply**

**Behind every connection enquiry is investment, employment and
someone's plan for the future.**

THE BOTTLENECK

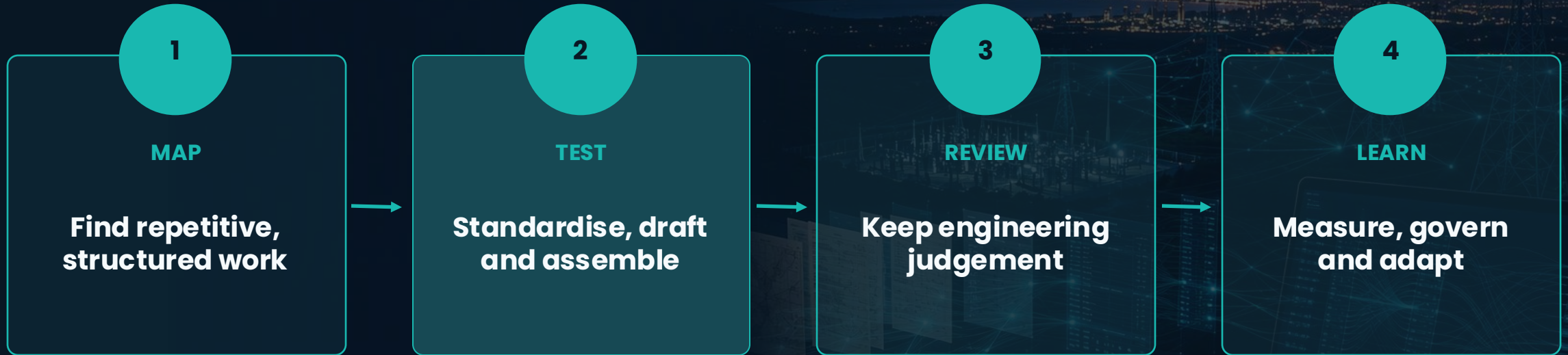
Demand grows. Expert time does not.



**The question was not "Can AI write a report?"
It was "Can engineers spend more time engineering?"**

THE EXPERIMENT

Start with a narrow, testable hypothesis



AI does the heavy lifting. Engineers retain judgement, authority and accountability.

WHAT WORKED

The breakthrough was not an AI engineer

It was a better starting point for the human engineer.

AI PREPARES



Engineer assesses

AI ASSEMBLES



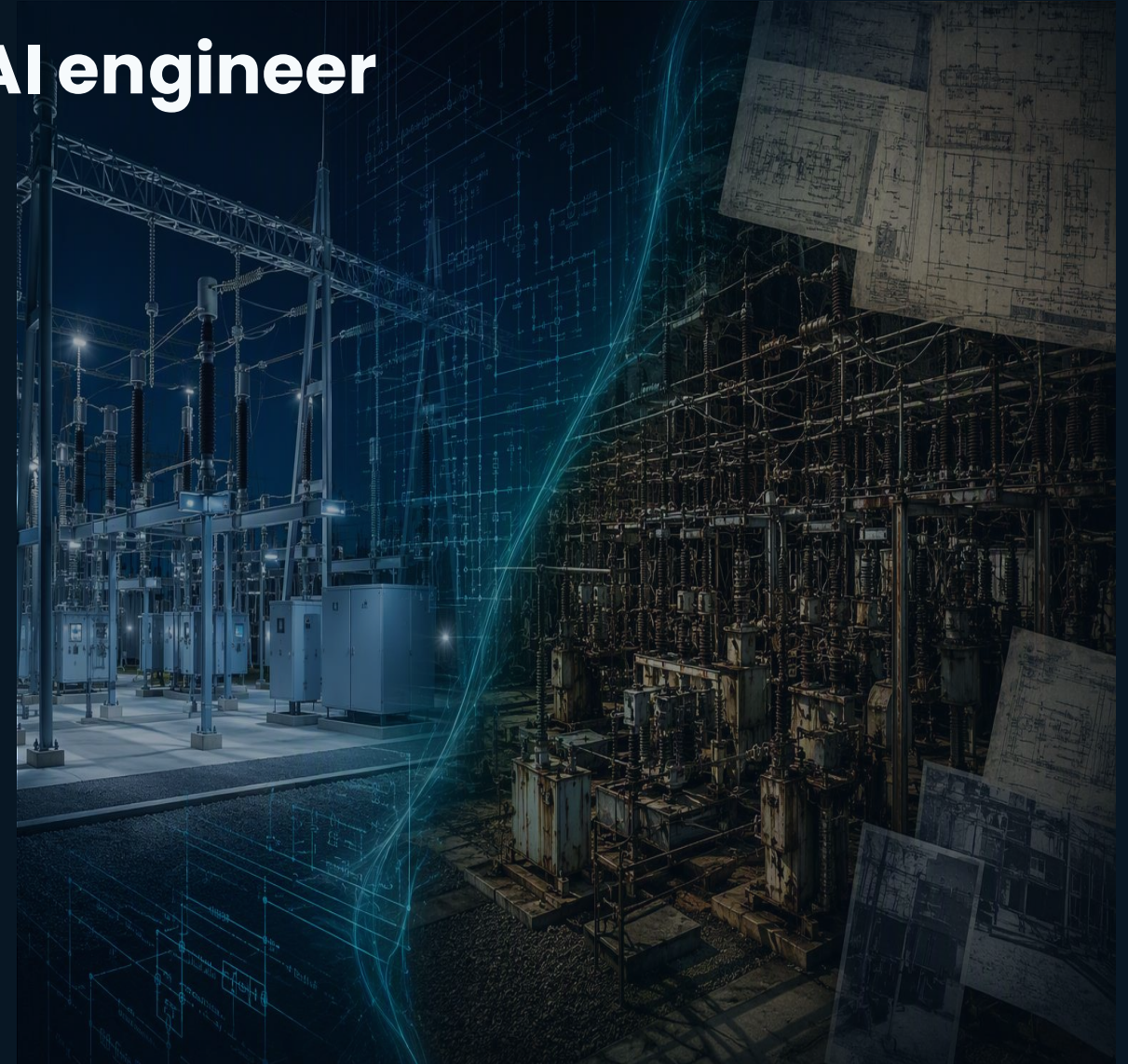
Engineer decides

AI FINDS PATTERNS



Engineer judges risk

**Critical infrastructure runs on accountability,
not algorithms.**



WHY IT MATTERS

From connection information to lower-risk investment



We are not automating transmission investment decisions.

We are improving the quality and speed of information feeding them.

SCALING REALITY

Greenfield proves the pattern. Brownfield proves the value.

GREENFIELD

**New sites. Cleaner data.
Fewer complications.**

BROWNFIELD

**Decades of changes.
Layers of engineering history.**

***“AI is brilliant in a new environment.
Then, it meets a thirty-year-old substation...”***

WHAT WE DID NOT EXPECT

The hard part was not the model

GOVERNANCE

Who may rely on the output?

ASSURANCE

How is quality demonstrated?

SECURITY

How is critical infrastructure protected?

OPERATING MODEL

Who owns, reviews and approves?

Ask not only “What can AI do?” Ask “What should AI do?”

**THE FUTURE IS NOT
AI VERSUS ENGINEERS.**

**IT IS HUMAN EXPERTISE
OPERATING AT GRID SCALE.**

FASTER CONNECTIONS

BETTER INFORMATION

LOWER-RISK DECISIONS

Amplify expertise. Govern the risk. Accelerate opportunity.