

AI Agents: Rebuilding AEC from the Ground Up

Transforming the oldest industry with the newest
technology

Part 2

The 98% Problem

A Massive, Systemic Issue



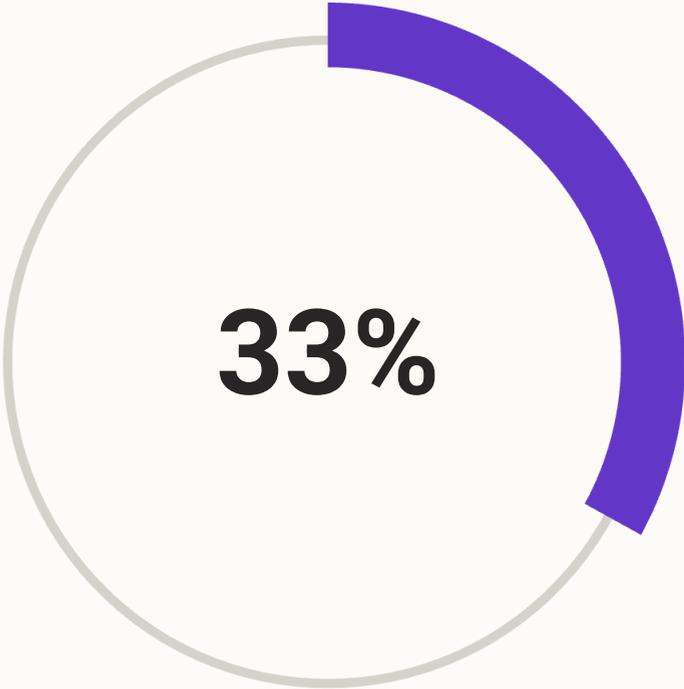
98%

The Mega Project Crisis

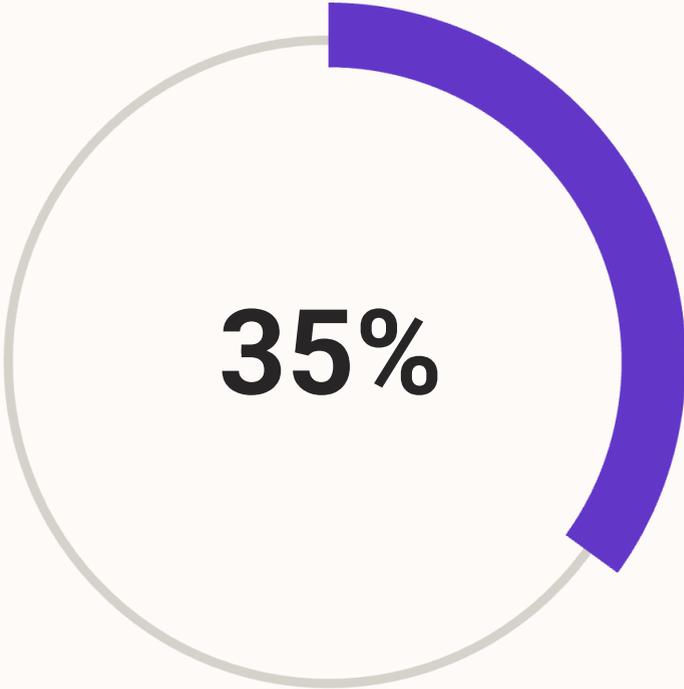
Mind-blowing 98% of all mega projects end up with massive cost overruns or huge delays

Being over budget and behind schedule is the **norm**, not the exception

Where Construction Goes Wrong



Projects fail due to poor comms



Time spent on non-productive outcomes



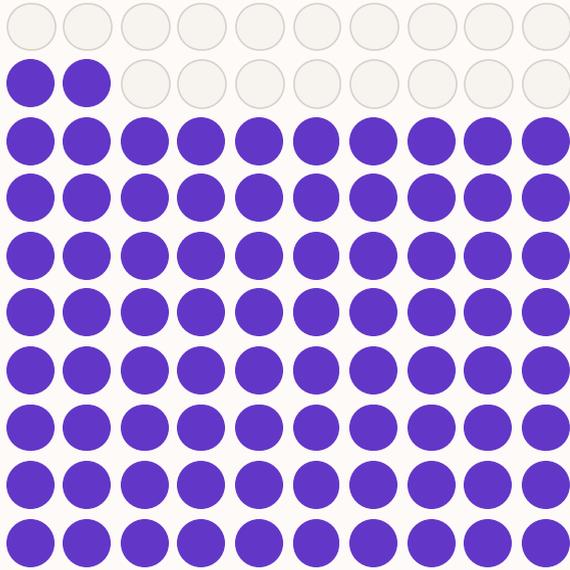
Part 2

The Great Disconnect

Ambition vs Reality

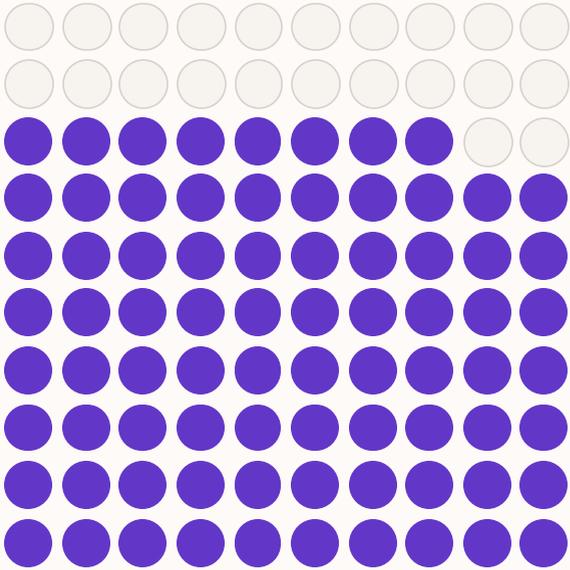
The Great AI Disconnect

The Optimism



82%

Believe AI Will Transform Everything

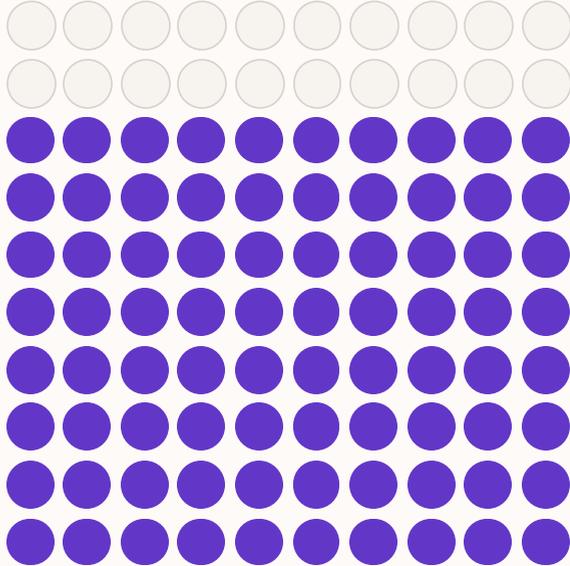


78%

Think It'll Happen in 5 Years

The Great AI Disconnect

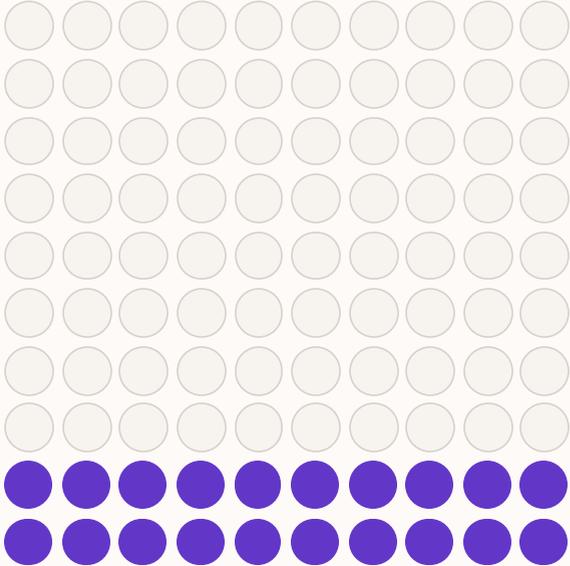
The Reality



80%

Stuck in Early Stages

Just pilot projects



20%

Actually Using AI Meaningfully

Real implementation

The Real Villain: The Business Case

91%

of firms say proving ROI is their number one roadblock

⊗ Trapped in vicious cycle: failed experiments → no ROI → leadership pulls funding

Part 3

Your Digital Colleague

The AI Agent



AI Agent

Software programs capable of performing tasks autonomously by analysing data and making decisions.

01

Understands Environment

Analyses context and available resources

02

Makes Decisions

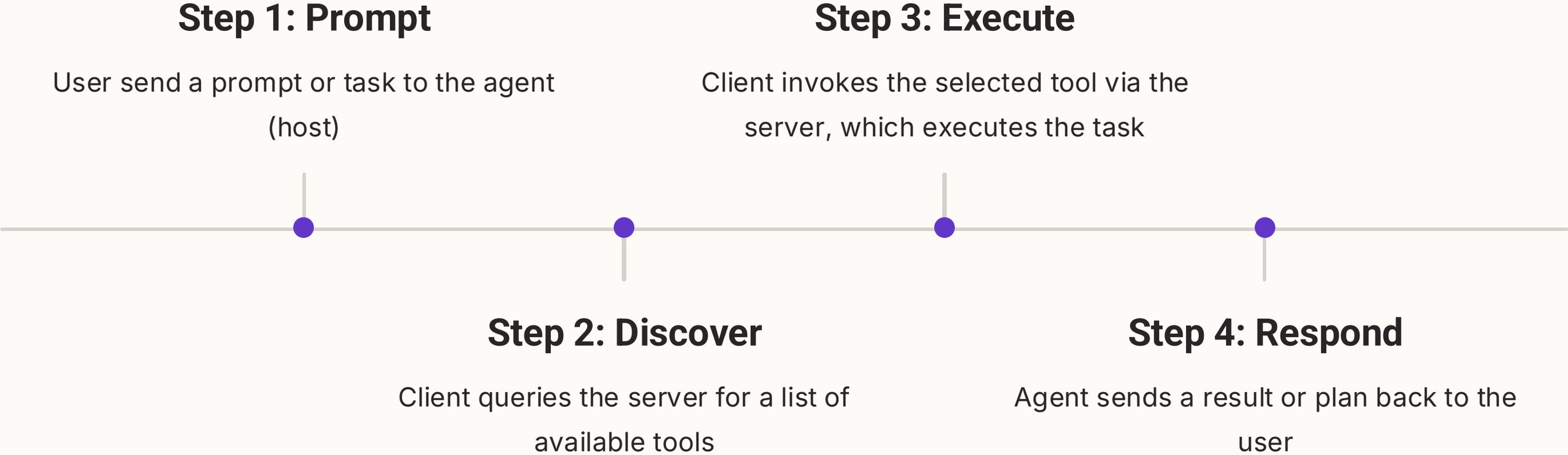
Evaluates options independently

03

Takes Action

Executes complex multi-step jobs

How AI Agents Actually Work





The Universal Plug: Model Context Protocol

Think of MCP like a USB port, but for AI—one universal plug that connects agents to any tool

Part 4

The Strategic Playbook

A Phased Implementation



Your Specialist Digital Team



Reporting Agent

Handles stakeholder updates automatically



Safety Agent

Scans job sites for potential hazards



Cost Tracker

Watches every penny in real time



Schedule Optimizer

Predicts delays before they happen

The Implementation Playbook

Phase 1 - Foundation (1-6 months)

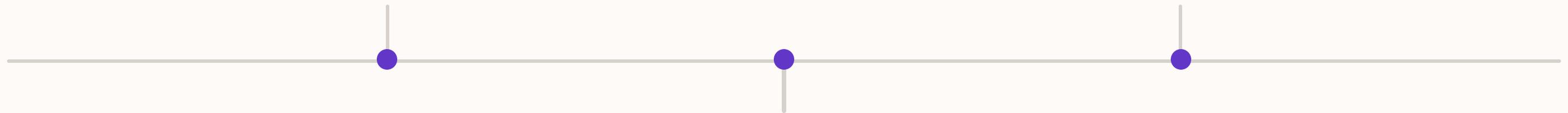
Execute low-risk, high-impact 'quick-win' pilots and measure ROI

Phase 3 - Culture Phase (18+ months)

Cultivate an AI-first culture through firm-wide training and experimentation

Phase 2 - Scaling (6-18 months)

Integrate successful pilots into core production workflows



Real-World Success: MCORM Architects



AI Sandbox Approach

Controlled experiments on non-mission-critical projects

Risk-Free Learning

Discover AI capabilities without risking client projects

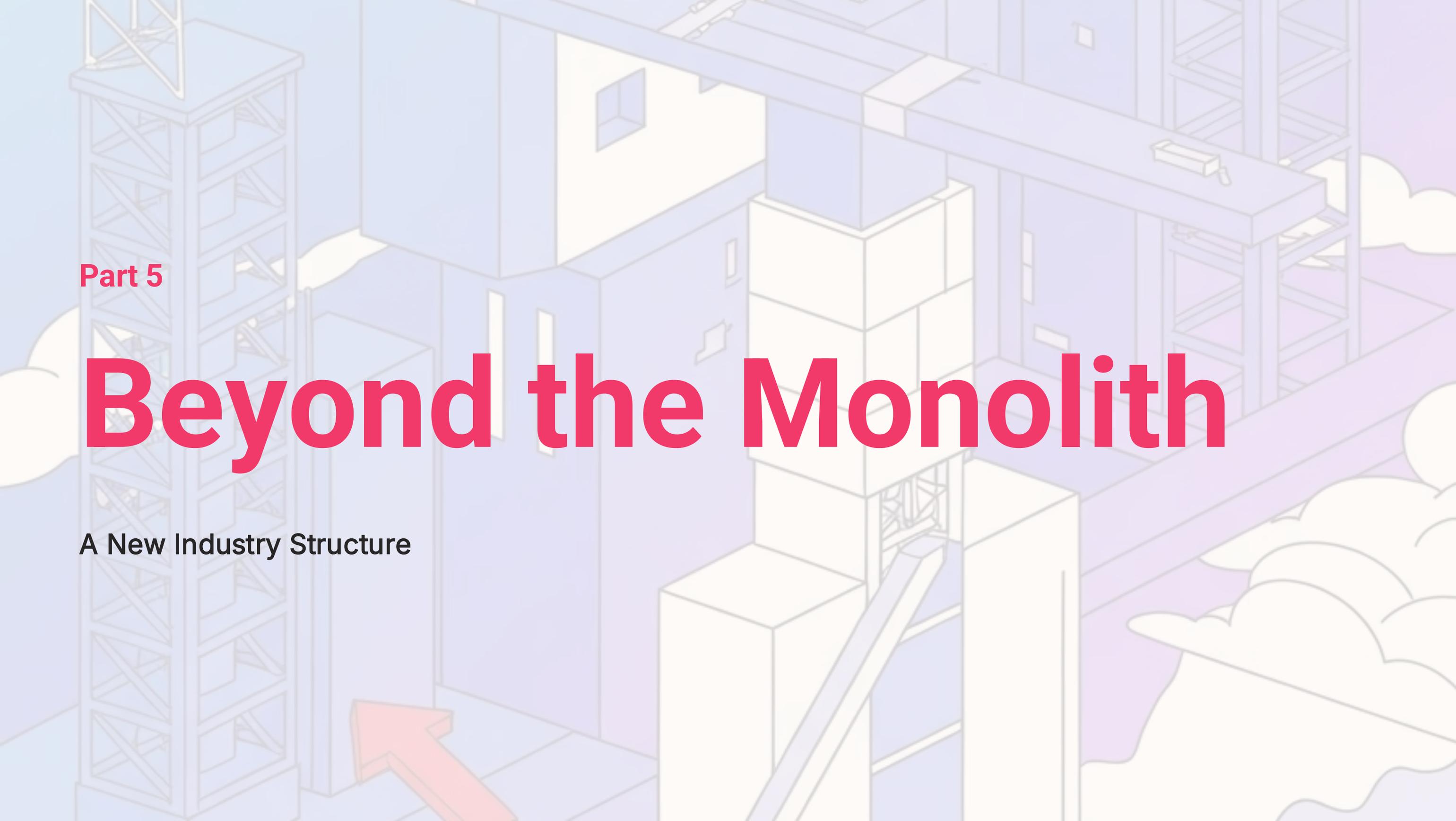
Smart Scaling

Masterclass in innovation implementation

Part 5

Beyond the Monolith

A New Industry Structure



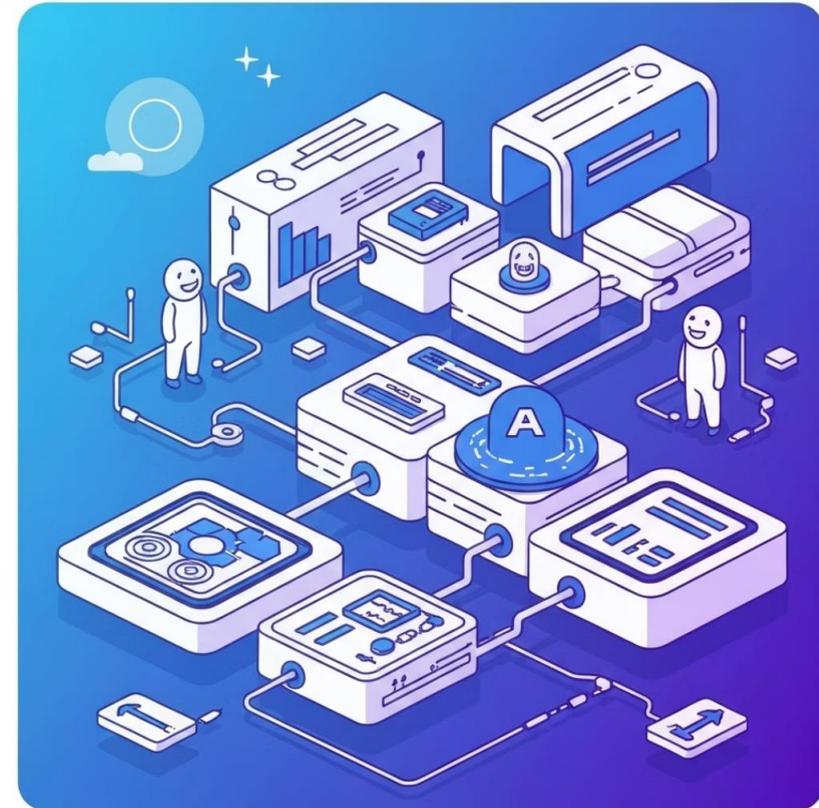
Beyond the Monolith

Old Way



- Giant all-in-one programs
- Proprietary file formats
- Information silos
- Vendor lock-in

New Way



- Open data lakes you control
- Specialised AI agent swarms
- Collaborative systems
- Data ownership

In 1439, you had to go to a **priest** for information. Then the **Gutenberg press** was invented.

How do we access this data without complex tools?

AI builds your workflow

1

Describe

Tell an AI what you need in plain english

2

Create

The AI writes and updated pipeline in a simple JSON

3

Execute

Run this file into a free platform like n8n and run it locally

Instant **answers**, no proprietary
data, in minutes - no code

Key Advantages



No Code

Just describe what you need.



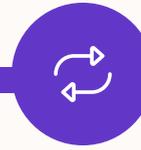
Completely Free

Uses powerful, open-source platforms.



Secure & Local

Your data never leaves your computer.



Infinitely Repeatable

Apply to any number of future projects.

Now that you can **talk to you**
data, what will you **ask**?

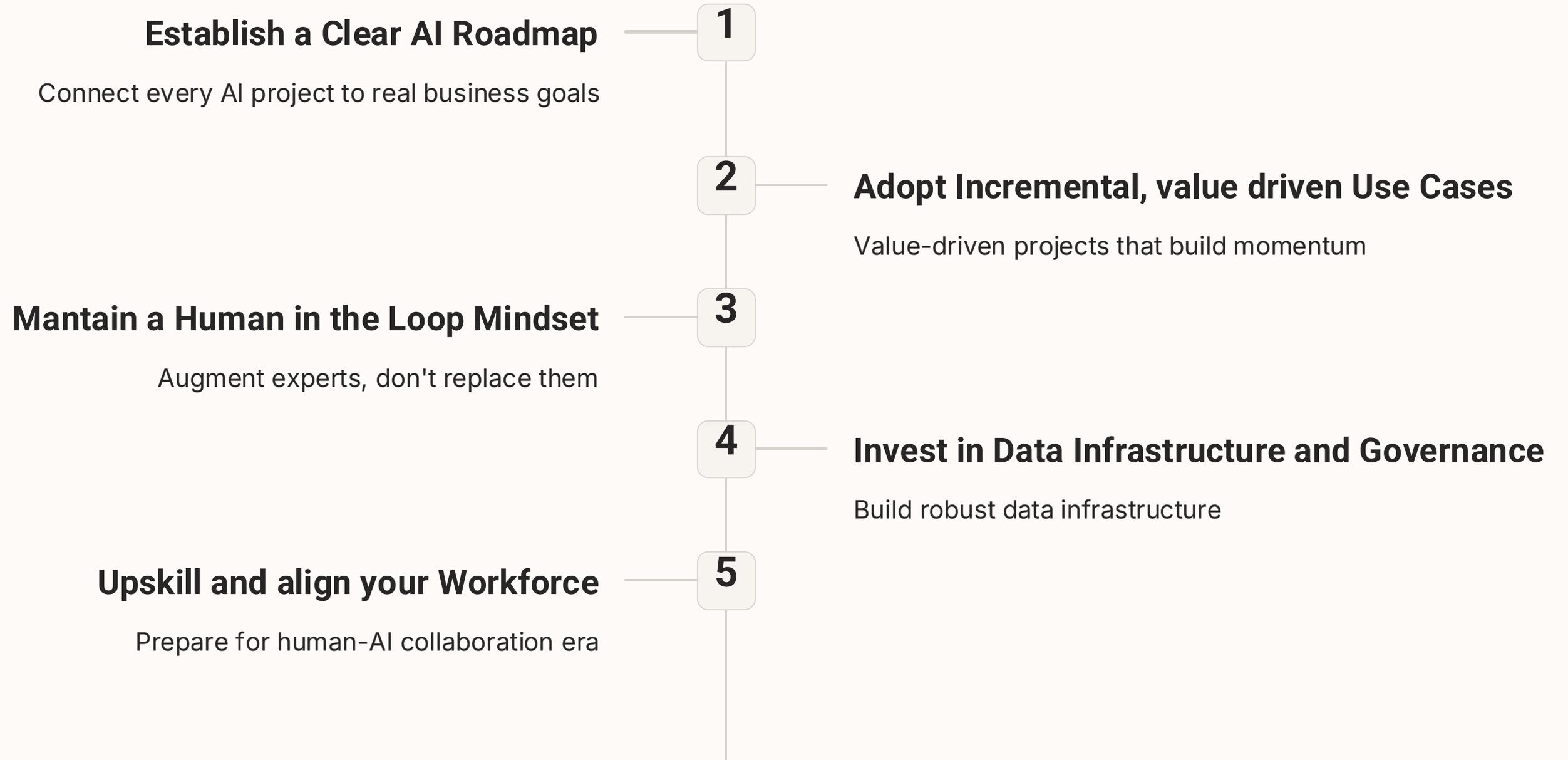
Part 6

Building The Future

Your 5 Essential Steps



Your 5-Step Action Plan



Is your business ready to **build**
the future ?

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