

The Three Tiers of *Co-Intelligence* In Visualization

How AI Is Redefining Creative Control and Guiding Tool Adoption
for Architects and Designers



PRESENT BY D5 RENDER

About the Speaker

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Agenda

1. Introduction & Context

2. The Three Tiers of Co-Intelligence

3. Why it matters For AEC firms

4. Next Steps For Firms

5. Live Q&A

AI Is Changing How We Work

Visualization has long been a specialized craft:

◆◆ Specialized skills

◆◆ Dedicated roles

◆◆ High software fluency

Now AI introduces a shift:

Co-intelligence = human intent + machine capability

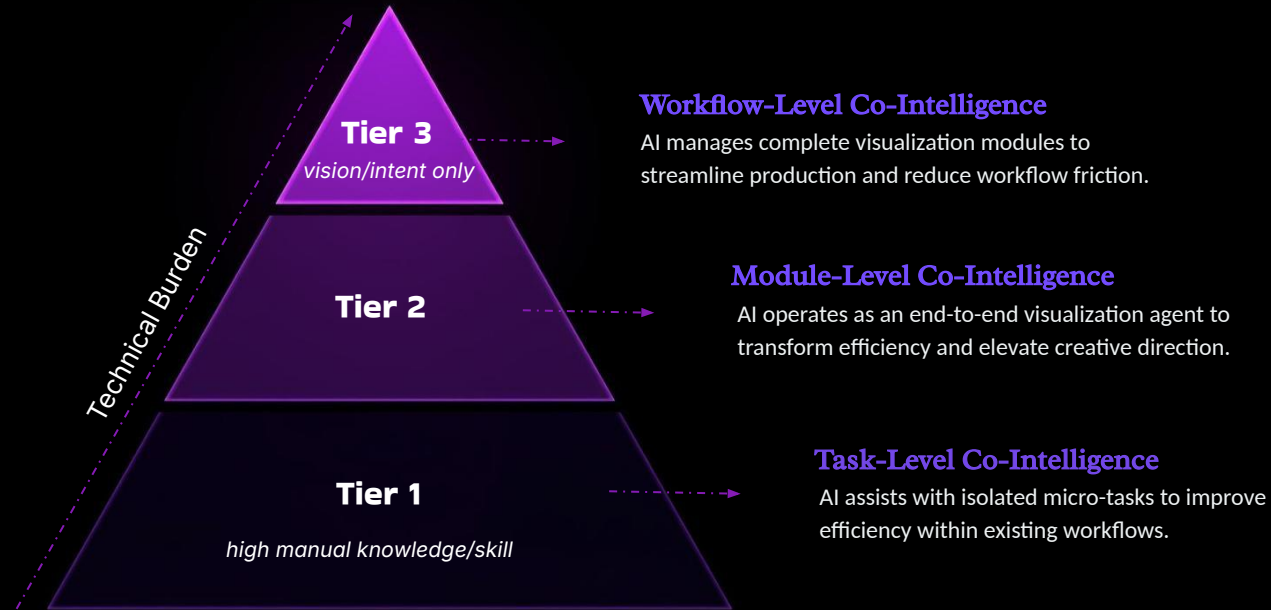


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**Yet the market is saturated with tools.
AEC firms are asking:**

- | Which tools matter?
- | Where do they fit?
- | How do we adopt strategically rather than reactively?

The Three Tiers Framework



Task-Level Co-Intelligence

Discrete, tactical AI for isolated steps, repetitive micro-tasks



Examples:

- Image upscale
- Seam texture creation
- Image quality fixes
- Image 2D → 3D

Firm relevance:

Quick quality improvements

Low disruption

Requires visualization expertise

Module-Level Co-Intelligence

AI owns entire complete scene modules



Examples:

- Photo → PBR material generation
- Smart post-processing
- AI Atmosphere Match

Firm relevance:

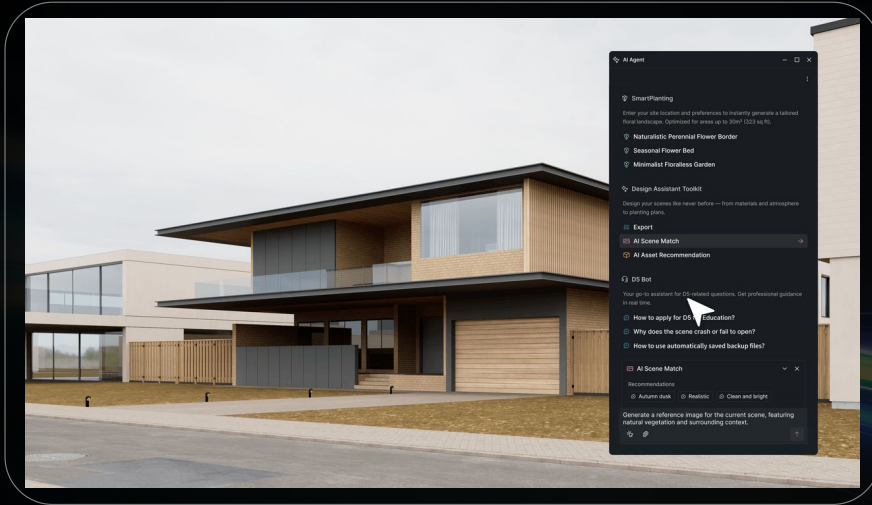
Workflow acceleration

Less reliance on specialists

Strong near-term ROI

Workflow-Level Co-Intelligence

AI acts as an end-to-end contextual visualization agent



Firm relevance:

High transformation potential

Designers shift toward creative direction

◆◆ Emerging conversational agents

- Real-time answers, recommendations, and design
- Fully integrated into the visualization workflow



AI Agent

Change to a clear, sunny sky.

Planning Completed

Understood. Will adjust the scene to a clear blue sky mood as requested.

Analysis:
The current environment is cloudy and overcast with flat, grayish lighting. To match your vision, I will shift the atmosphere to bright & vibrant by introducing direct sunlight and vivid colors.

Key Adjustments:

1. Weather: Switch to Sunny with direct sunlight.
2. Sky: Replace gray clouds with a vivid blue sky and scattered clouds.
3. Lighting: Enhance sun intensity and shadow contrast to create a crisp, bright day.

Generating AI reference for the current view...



Does this reference work for you? If not, let me know what to change and I'll regenerate it.

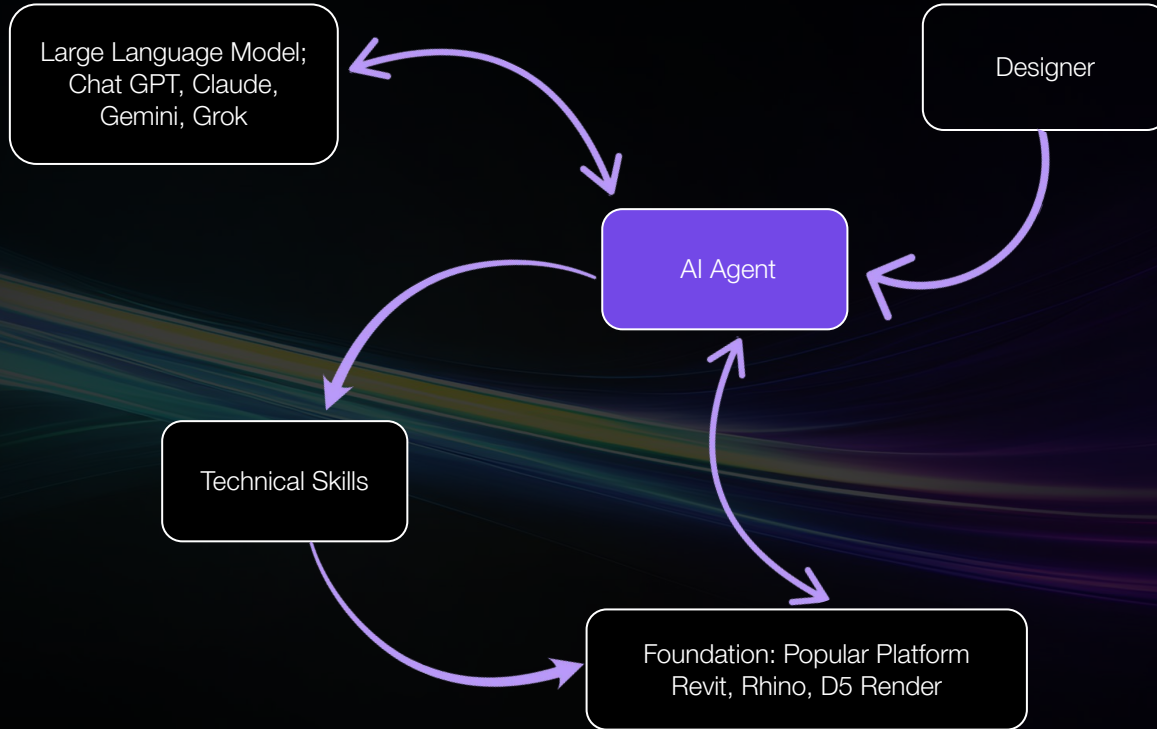
Apply the Atmosphere

Recommend assets similar to those in the reference image

⚙️ 🎨 ↗️



How Agent Works?



DATA RESIDENCY AND OWNERSHIP

Large Language Model Providers

Check agreement to avoid usage data for training (most of the time, LLMs require an enterprise agreement).

AI Agent Providers

Check the terms and conditions and their agreement with large language model providers.

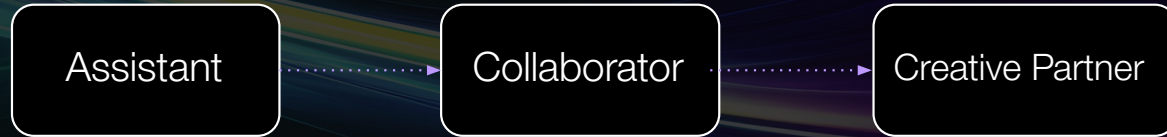
Design Firms

The data and project can be chosen to be local or cloud-based.
Ownership belongs to the user and the architectural design firms.

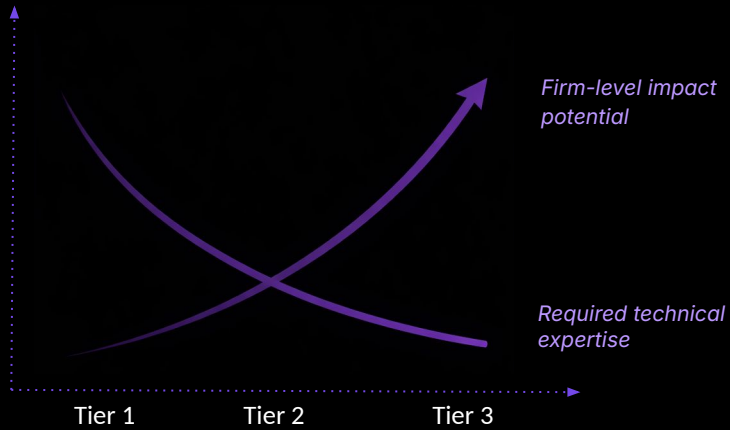
Global Compliance & Certifications

Check for global compliance standards, such as GDPR.
Check information security management and privacy information management, such as ISO 27001, ISO 27701, etc.

*This progression mirrors how
intelligence scales:*

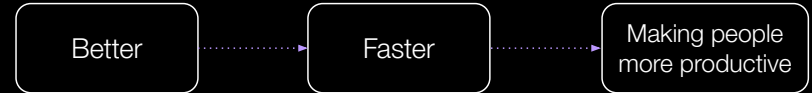


The Impact of Co-intelligence



Higher tiers depends on lower-tier AI capabilities

As co-intelligence deepens:



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The question is no longer:

But:

At what level of intelligence
should we operate?

Should we use AI?

Practical Benefits for AEC Firms



Avoid tool sprawl



Vendor/tool comparison



Build strategic adoption roadmaps



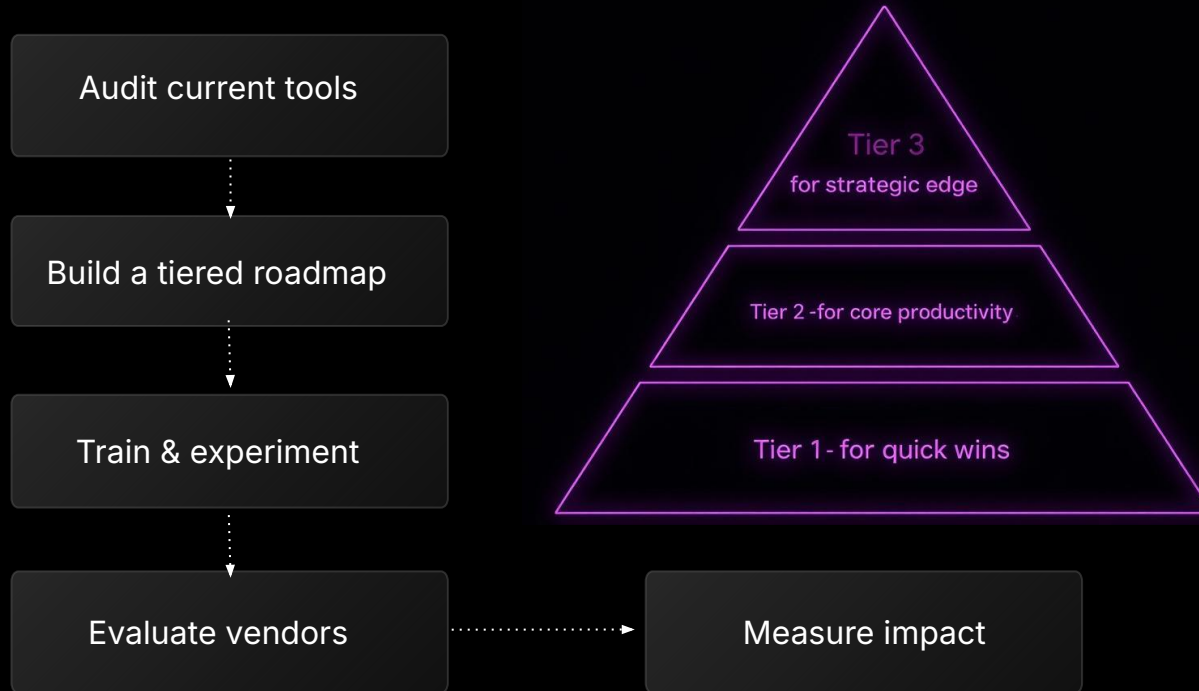
Risk & ROI assessment



Align training with intelligence tier

Next Steps for AEC Firms

How to Apply the Framework



The Future of Design Intelligence



The Architects Are Essential

- Creative vision, Taking Responsibility for Design
- Balancing Aesthetics and Budget
- Navigating Complex Human Relationships

While co-intelligent systems handle:

- Repetitive execution
- Iterative refinements
- Technical optimization

Questions?

Let's keep the conversation going



Want to schedule a live demo or meeting
to discuss your workflow?



Check the Report: The 2025 Impact of
AI in Architecture & Design



Fill out the form to **get in touch** with us!

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Thank you

