The Blueprint for Physical AI

Engineering to deploy foundation models.

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THE DEPLOYMENT GAP.



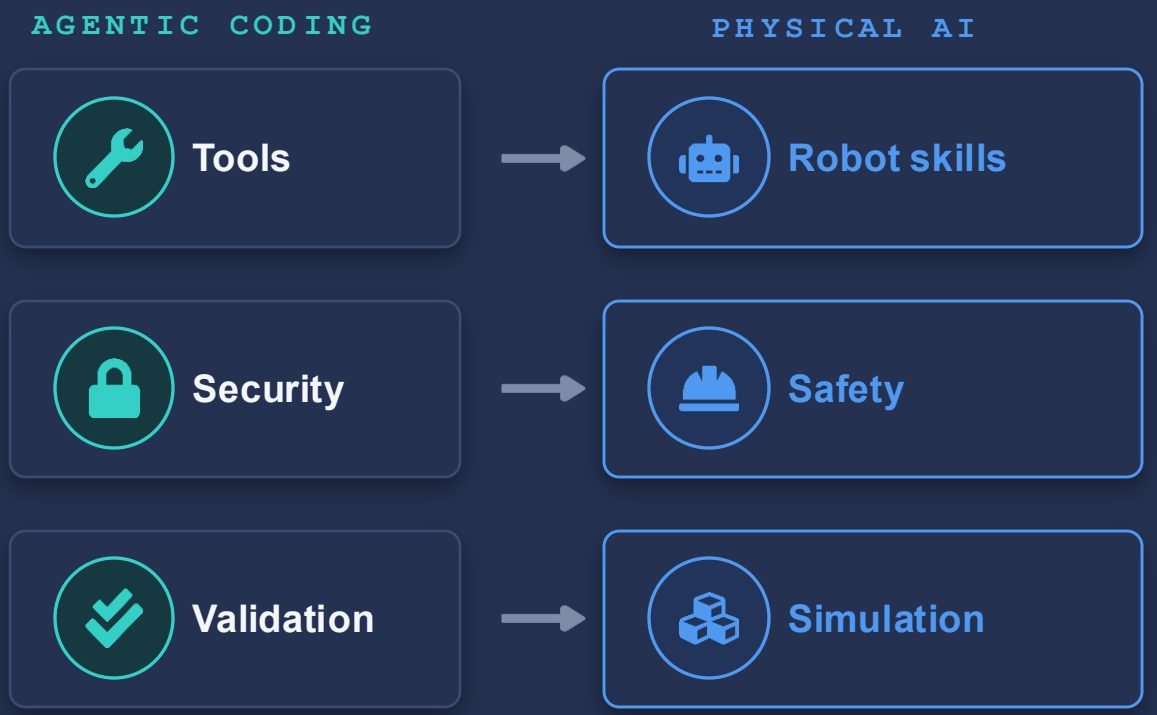
The missing **10%** is a stopped supply chain, a broken machine, an injured worker.

PHYSICAL COMMON SENSE.

We need engineering for foundation models to deliver - not just more data and training.

How do we add new reasoning without breaking what already works?

What **agentic coding** did for software, **robots** will do for physical work.



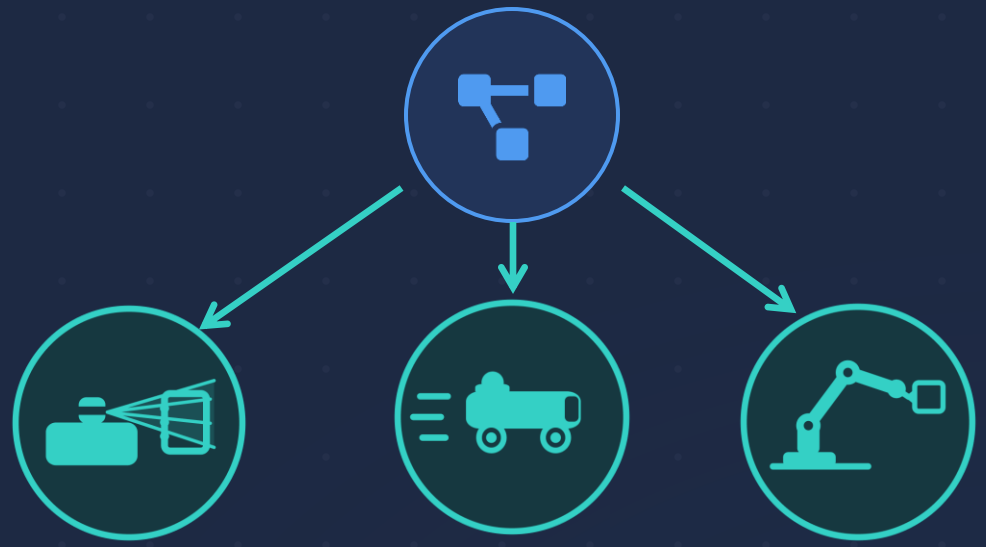
ENGINEER FOR SAFETY AND ADOPTION.

SAFETY — ASSUME ZERO TRUST

“Safe even with the dumbest AI in charge”

contracts envelopes guardrails

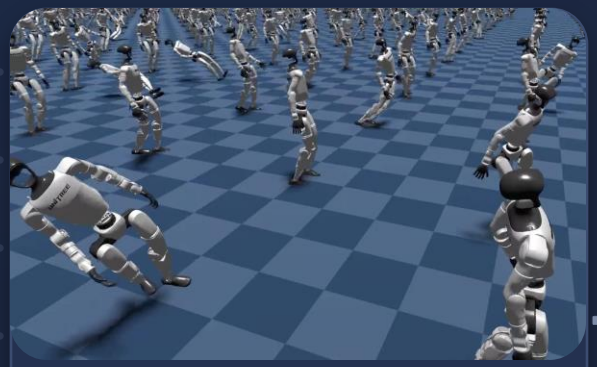
ROBOT SKILLS & ORCHESTRATION



How to understand if AI is more productive and stays safe?

BE SERIOUS ABOUT SIMULATION.

Test operational behavior at scale before anything touches the floor.



Train

policies & models



Prototype

fail fast



Test ops

behavior at scale, with metrics

↑ the shift in emphasis

A simulation toolbox. **Interoperability & standards (OpenUSD).**

SMALL WINS

Auxiliary and additive - each adds value without replacing core processes with AI.



Inspection

Compliance and safety - general rules and site-specific.



Debugging

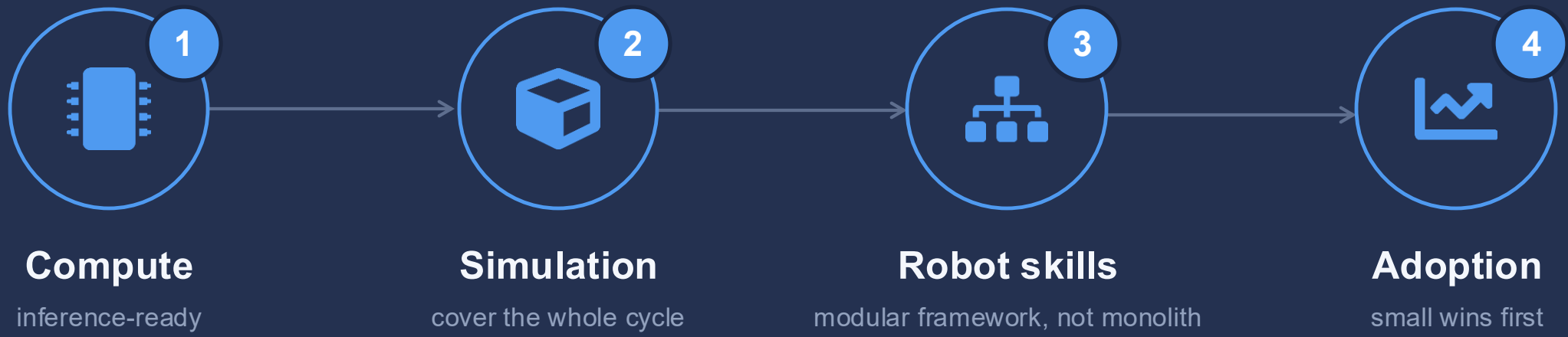
Faster root-cause, less downtime.



‘Stuck’ resolution

Reason and rescue, without human intervention.

THE BLUEPRINT.



TIME TO BUILD

AI doesn't have to do everything to be useful.

- **Learning from the success of agentic coding.**
- **Engineering for safety and adoption.**



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