

WHAT DO BUILDING A START-UP AND CHOOSING AN AI TOOL AS A NEXT-GEN PROGRAMMER HAVE IN COMMON? **DESIGN THINKING**

Nat Graff, PhD
ADS Programmer
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WORKPLACE PARALLELS IN START-UPS & INDUSTRY

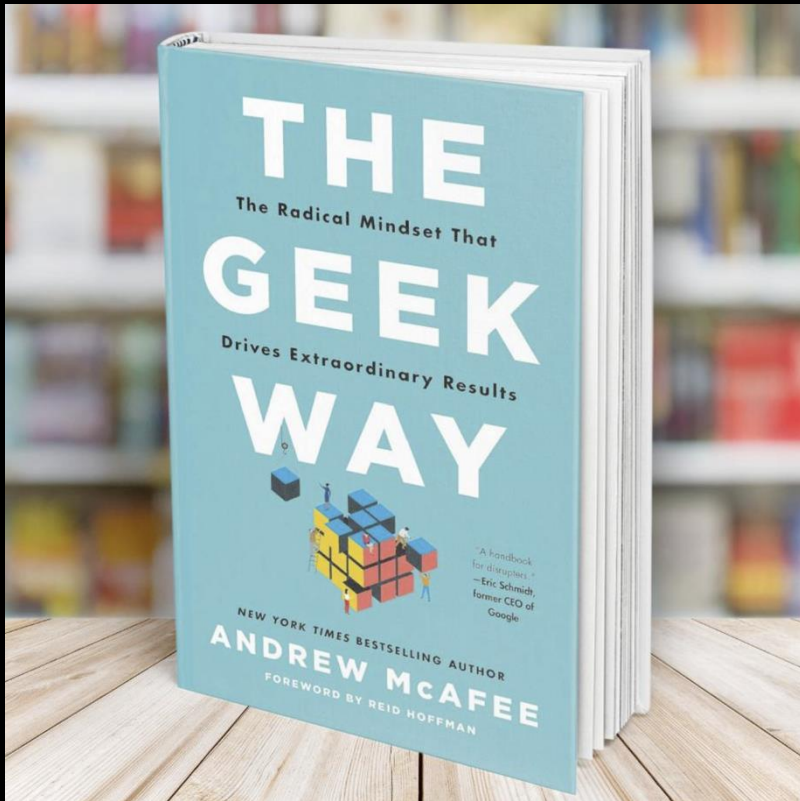
MOVING FAST WHEN THE MARKET IS WAITING

PUSH FOR HUMAN **RESOURCE EFFICIENCY**

RISK OF FOLLOWING **THE HYPE**



LESSONS FROM “THE GEEK WAY”



“INTEGRATED” SHIFTED TO “MODULAR”

“HIERARCHICAL” SHIFTED TO “EGALITARIAN”

“PROCESS-FOCUS SHIFTED” TO “OUTCOME-FOCUS”

Newsletters

The Atlantic

TECHNOLOGY

The Winter Getaway That Turned the Software World Upside Down

How a group of programming rebels started a global movement

By Caroline Mimbs Nyce

THE BIRTH OF **AGILE METHODOLOGY**

THE AGILE WAY WE'VE LEARNT TO BUILD SOFTWARE IS BECOMING THE AGILE WAY WE BUILD EVERYTHING. I SOMETIMES FEEL LIKE I HAVE A SIXTH SENSE. I CAN SEE DEAD COMPANIES. THEY DON'T KNOW THEY'RE DEAD, BUT THEY'RE DEAD BECAUSE **THEY'RE NOT RESPONSIVE ENOUGH**. AND THE COMPANIES THAT ITERATE MORE QUICKLY WILL **RUN CIRCLES AROUND THEM**.

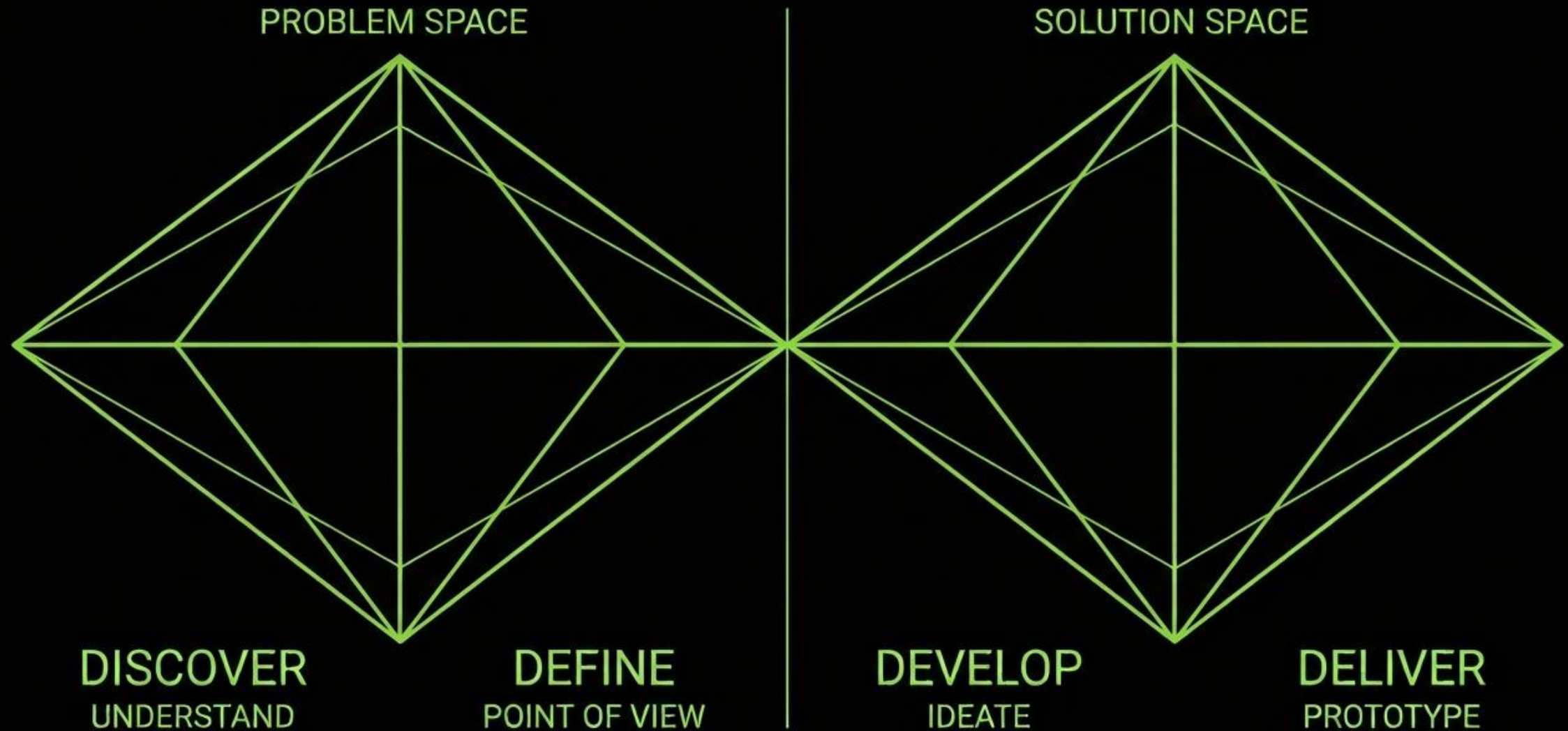
STEVE JURVETSON, INTERVIEW IN THE GEEK WAY



**THE PHARMA CONSTRAINT:
UNFOCUSED AI
EXPERIMENTATION TURNS INTO
A TIME SINK OF PROMPT-
TWEAKING WITHOUT
MEASURABLE ROI.**

**THE PARADOX: WE NEED THE
SPEED OF DECENTRALIZED
START-UP CULTURE BUT
CONSTRAINED BY THE
DISCIPLINE OF CLINICAL
DELIVERY.**

DESIGN THINKING



AI INITIATIVES AND START-UPS FAIL FOR THE SAME REASONS

ADDRESSING A PROBLEM NO ONE HAD

DESIGN THINKING TOOLS

PROBLEM SPACE

BROADEN: 5 WHY'S ANALYSIS

CONVERGE: P.O.V STATEMENTS

SOLUTION SPACE

BROADEN: TECH SCANNING

CONVERGE: TOOL MATCHING

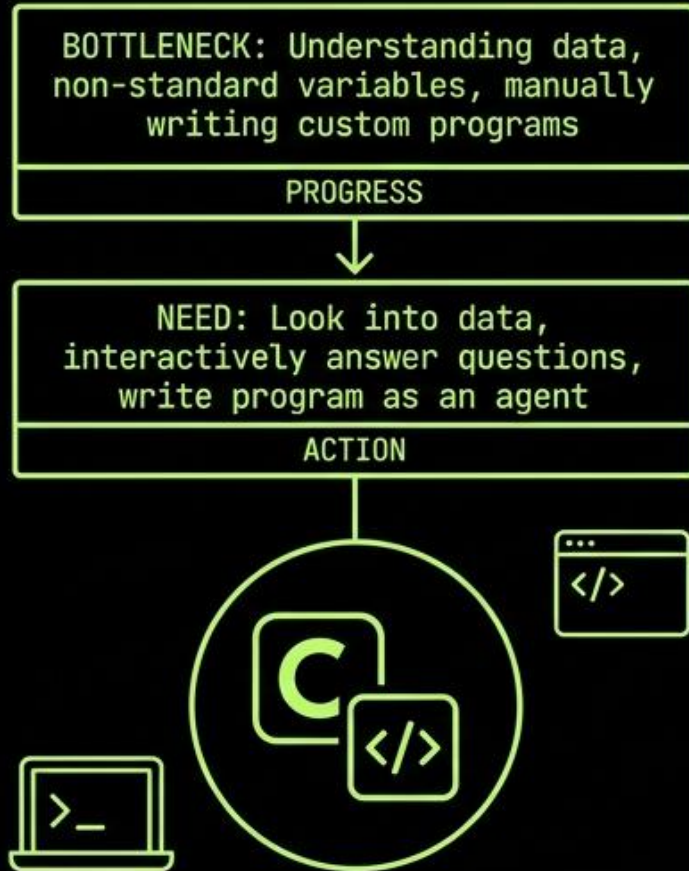


[USER / PERSONA] NEEDS A WAY TO [USER'S NEED] BECAUSE [SURPRISING INSIGHT / ROOT CAUSE].

INDEPENDENT AI TOOL SELECTION EXAMPLES

EXAMPLE 1

1. Claude in Posit Workbench



EXAMPLE 2

2. Gemini Chat



EXAMPLE 3

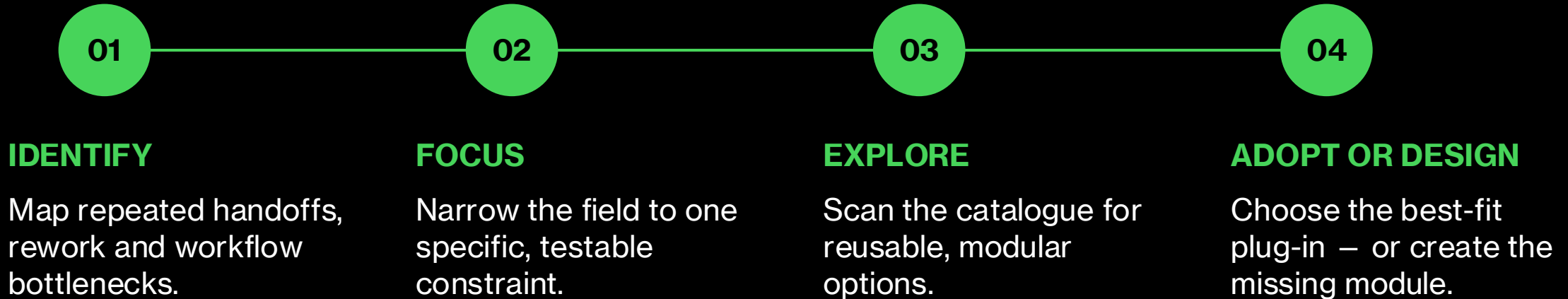
3. Consult AIDCG for a custom solution



CLAUDE PLUG-INS AS MODULAR SOLUTIONS

FROM FRICTION TO FIT

Treat every plug-in as a focused module for one clearly defined constraint.



— The unit of change becomes a module – not an entire platform.

AI ACCELERATES 80%. HUMANS OWN 100%

AI COMPONENT HANDLES 80% E.G. TEMPLATE PROGRAMME, APP MODULE

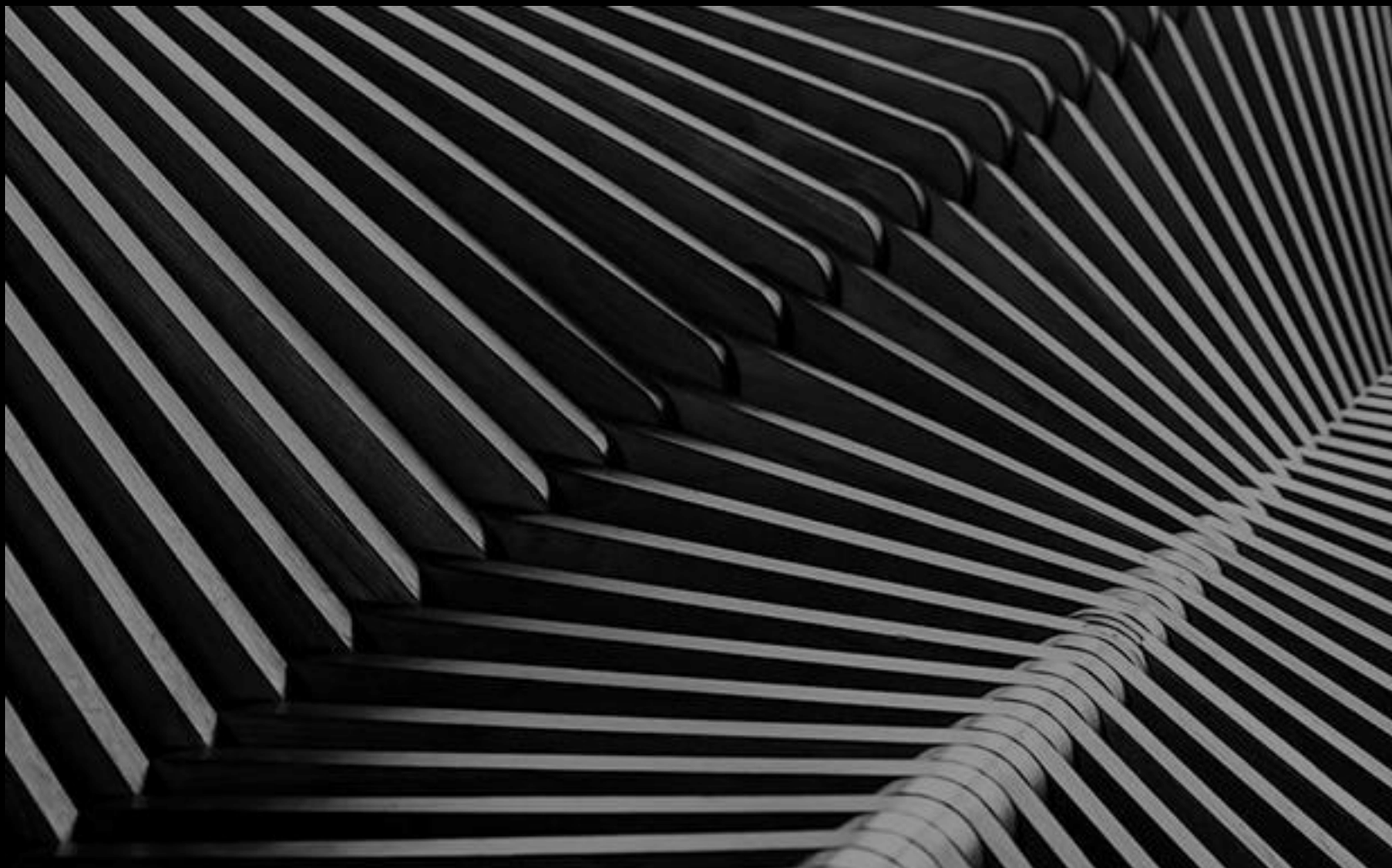
HUMANS PERFORM LOGIC REVIEW, VALIDATE DOMAIN SPECIFIC VARIABLES

THE REGULATORY ACCOUNTABILITY LIES WITH THE PROGRAMMER



DON'T CHASE THE HYPE, SOLVE THE BOTTLENECK

MOVE FROM "HOW DO WE USE THE NEW AI MODEL?" TO "WHAT SPECIFIC PROBLEM ARE WE TRYING TO SOLVE TODAY"



NAT GRAFF, PHD
ADS PROGRAMMER
ROCHE PHARMACEUTICALS



Nat Graff, PhD

Roche | Late-Stage Clinical Trials |
AI Automation | Molecule-to-Market ...

