

RAPID INNOVATION:

A BLUEPRINT FOR EVALUATING, MANAGING AND SUPPORTING TECHNOLOGY SOLUTIONS

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Project Management



Innovation Development Director

Key Achievements

- 25 Years Leading Innovation
- 3 Patents Awarded
- Reached over 100M Customers
- Board Member, Kansas City AI Club

"Driving innovation through technology and collaboration."



**You will never experience a
slower rate of change
than right now.**





// The Urgency Of Innovation



An Industry at a Crossroads



New Client Expectations



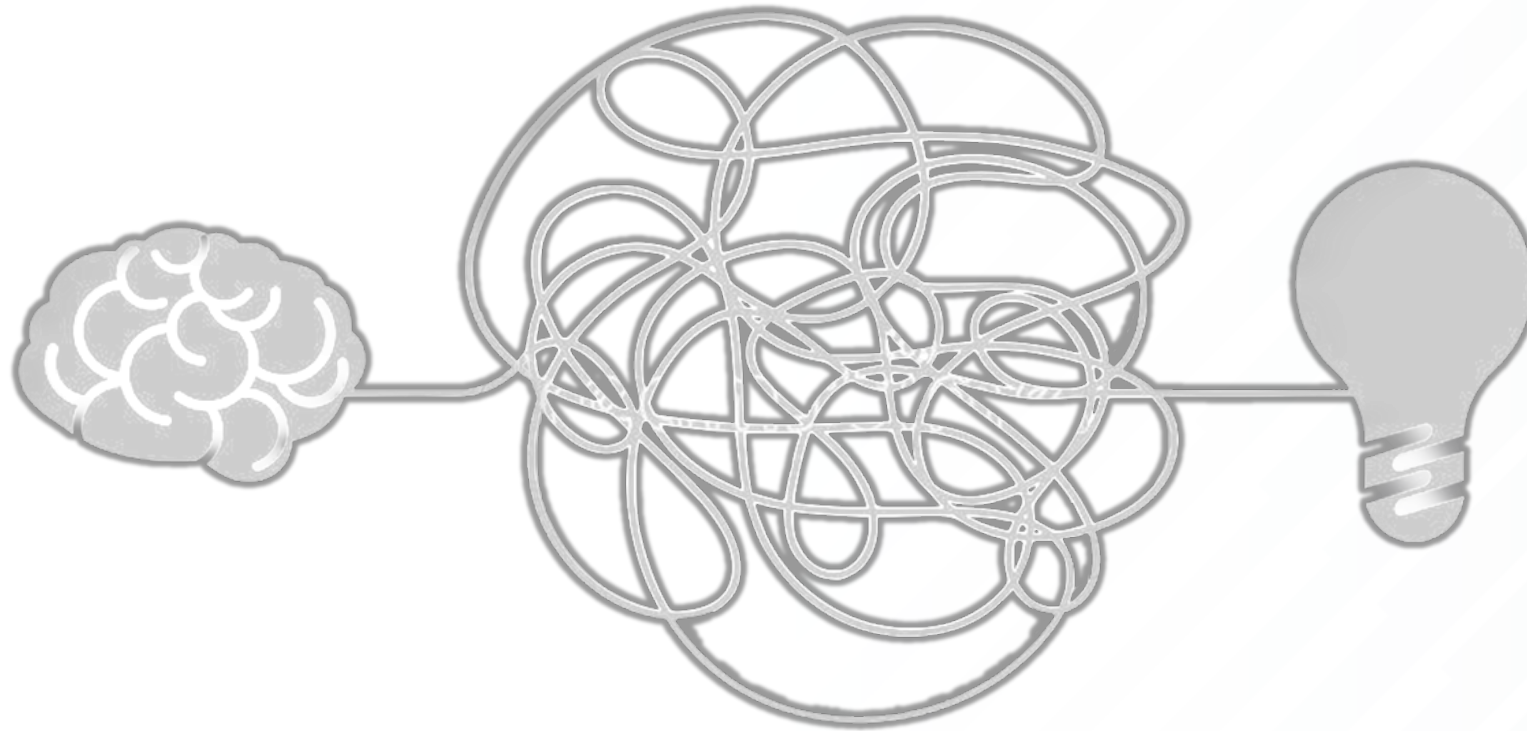
Evolving Competitive Landscape



Adapt or Fall Behind

// Unstructured Innovation

Challenges of Unstructured Innovation



No Focus

Expensive

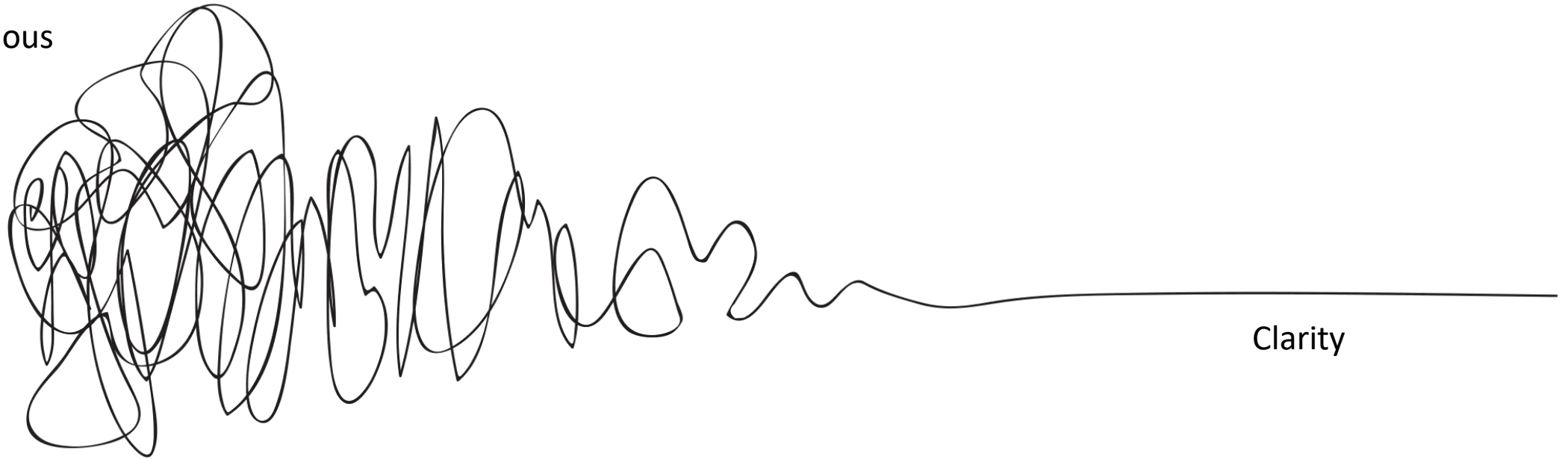
Unpredictable

// Structured Innovation Program

Design Thinking in Innovation



Ambiguous



Focused

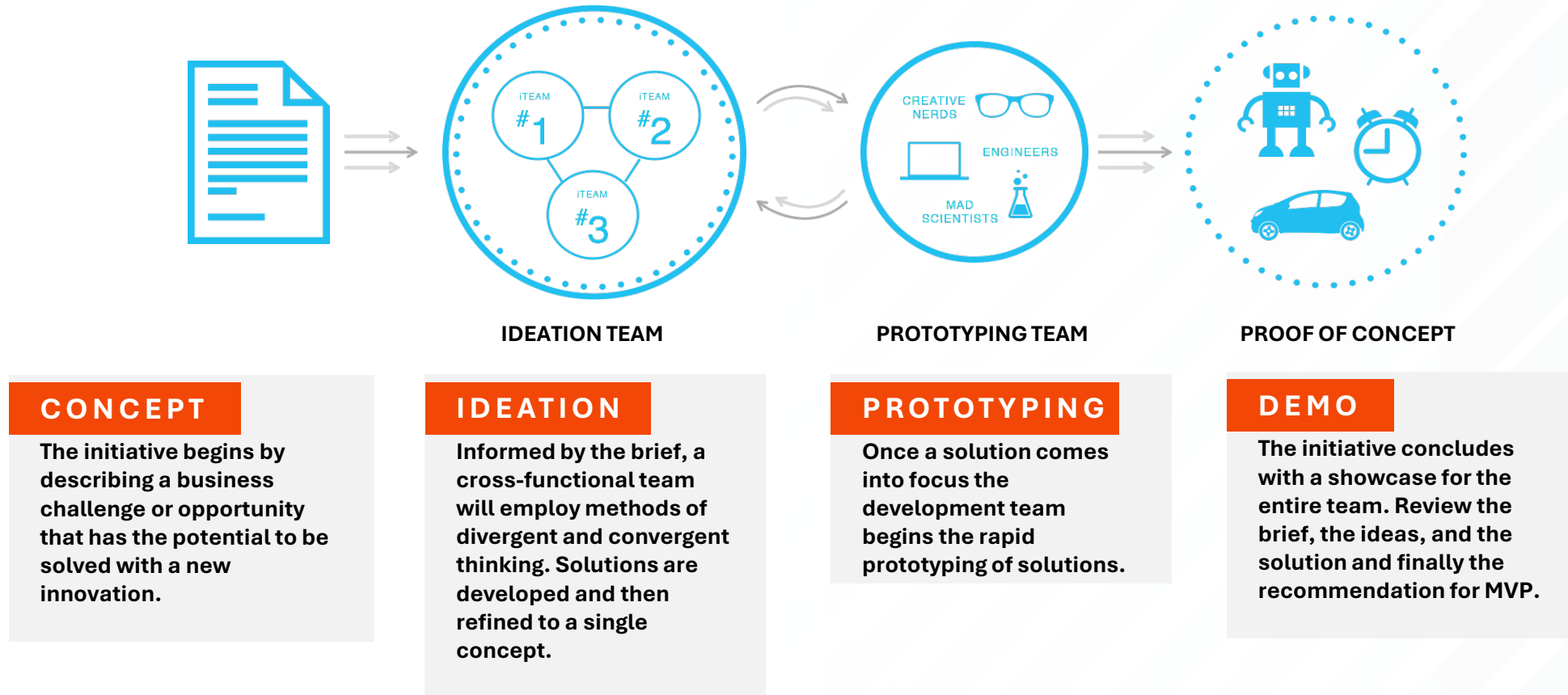
Repeatable

Predictable

// Rapid Ideation & Prototyping

Fast-pass to Proof of Value

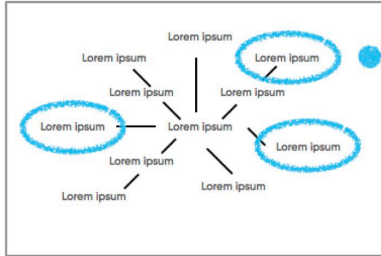
Beginning with a concept brief, a cross-functional team is formed. We employ methods of divergent/convergent thinking and problem solving. Once the team lands on a story-mapped solution, designers and engineers take over. The process concludes with a showcase revealing a final proof of concept.



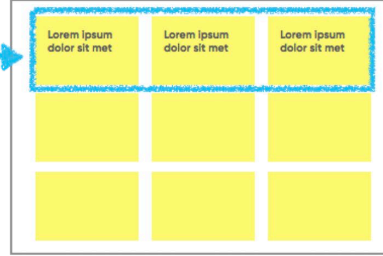
// Innovation Workshops

An Intentional Approach to Ideation

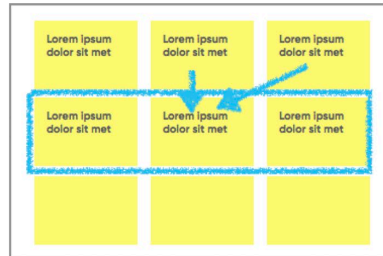
1) MINDMAPPING 10 MINS



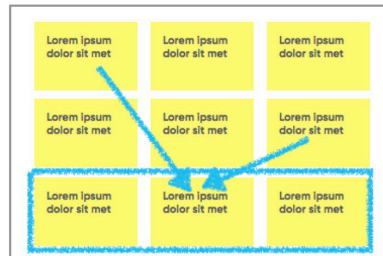
2) 3X3'S 15 MINS



You fill in top row with your best ideas



2nd person builds on your ideas



3rd person builds again

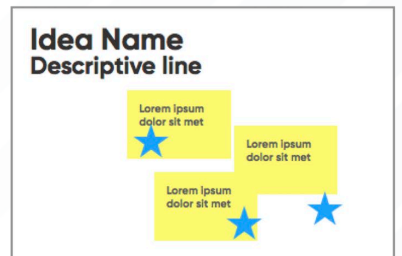
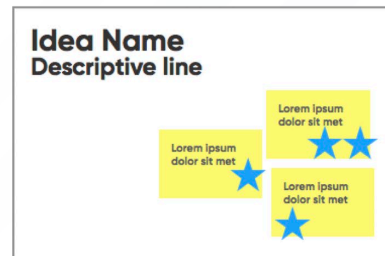
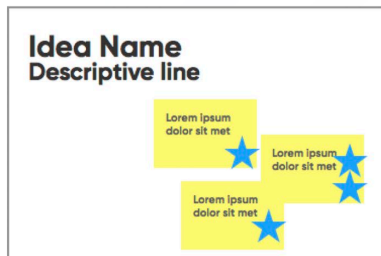
3) DOT VOTE 10 MINS



4) CLUSTER 15 MINS

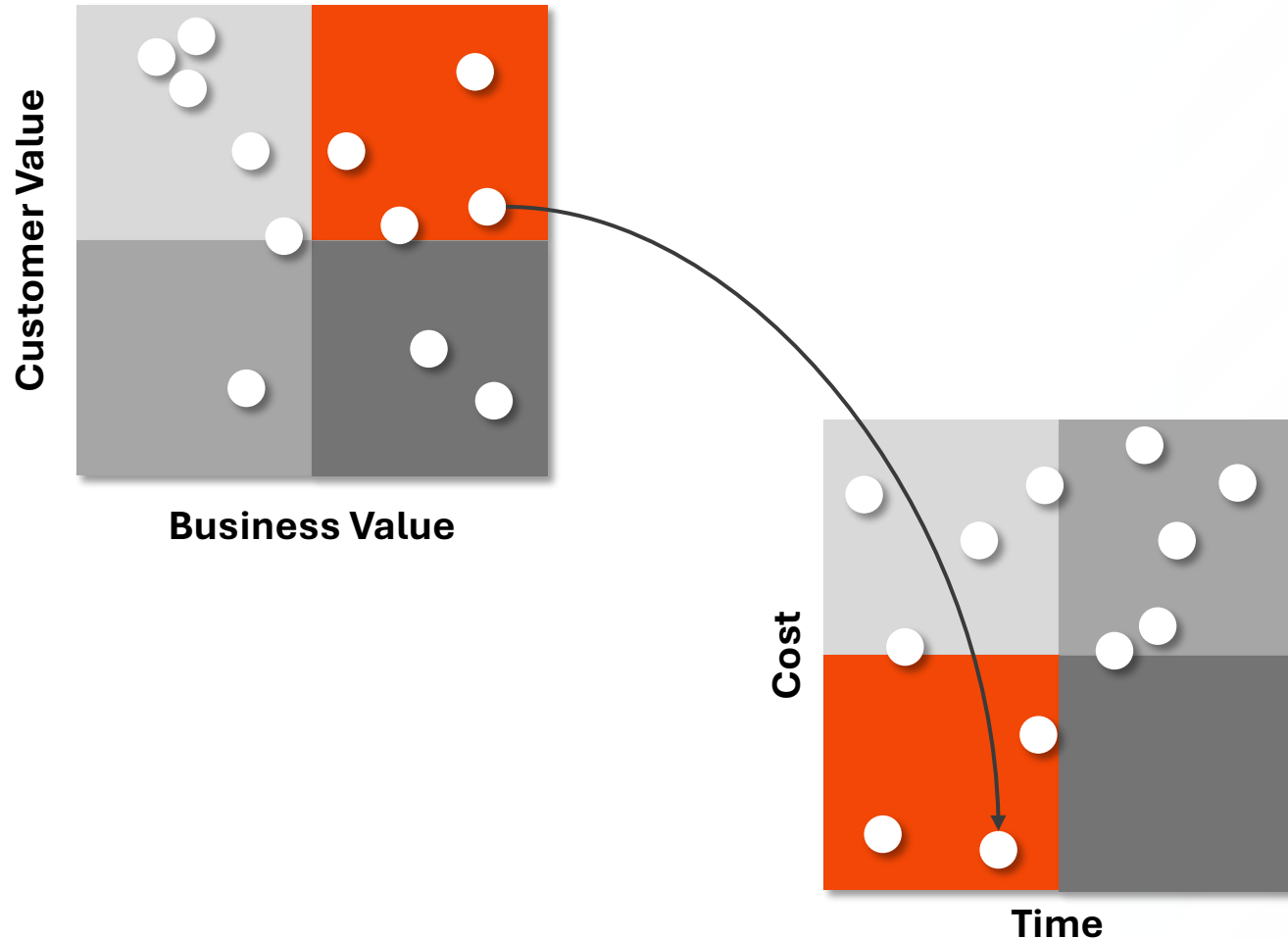


5) SUMMARIZE 20 MINS



**BRAIN-
STEERING**

// Approach to Prioritization



First prioritization is to look at Customer Value and Business Value.

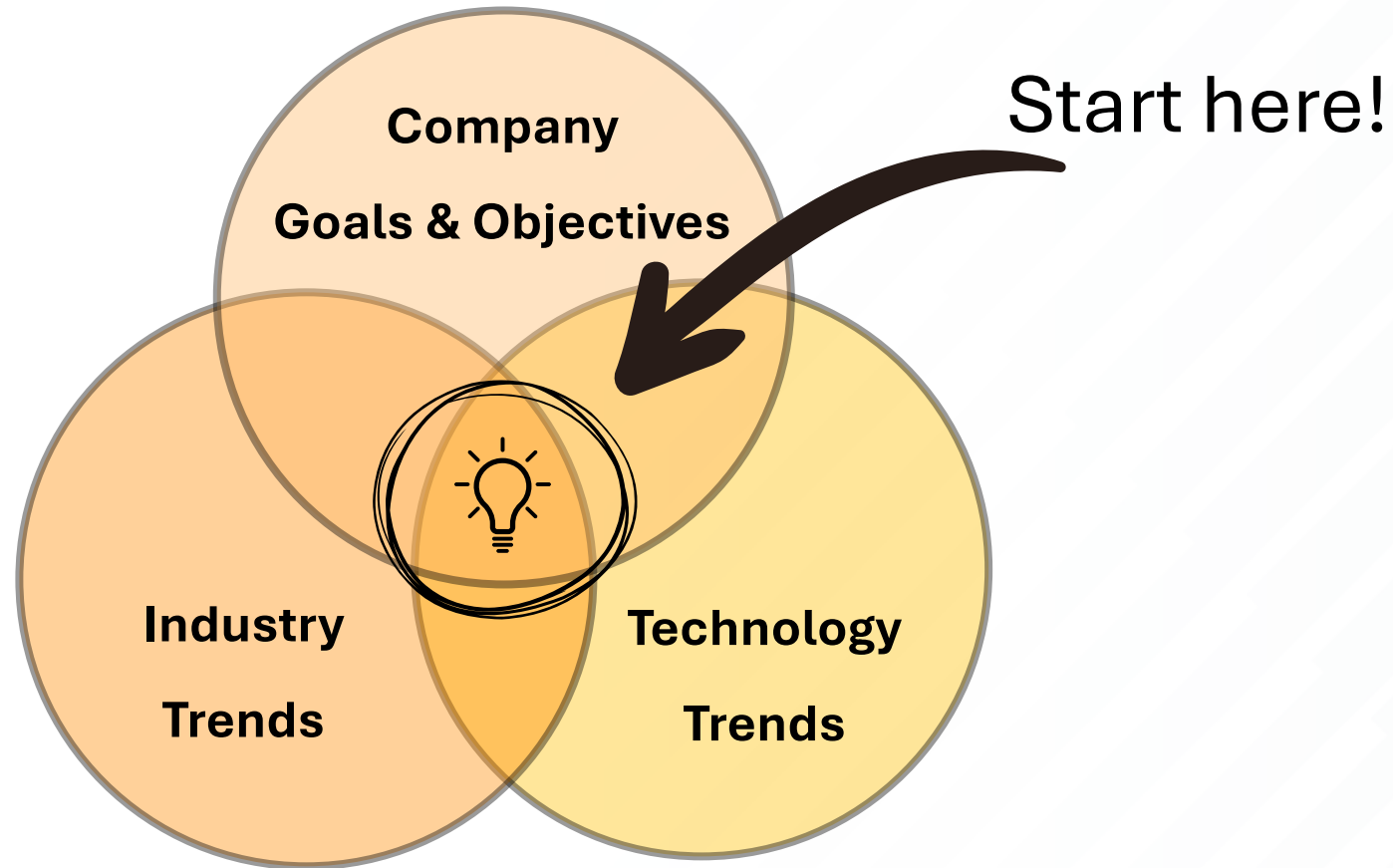
The highest priorities are then evaluated based on time and cost.

This provides a list of high value items that can be delivered quickly to markets at a reasonable cost.

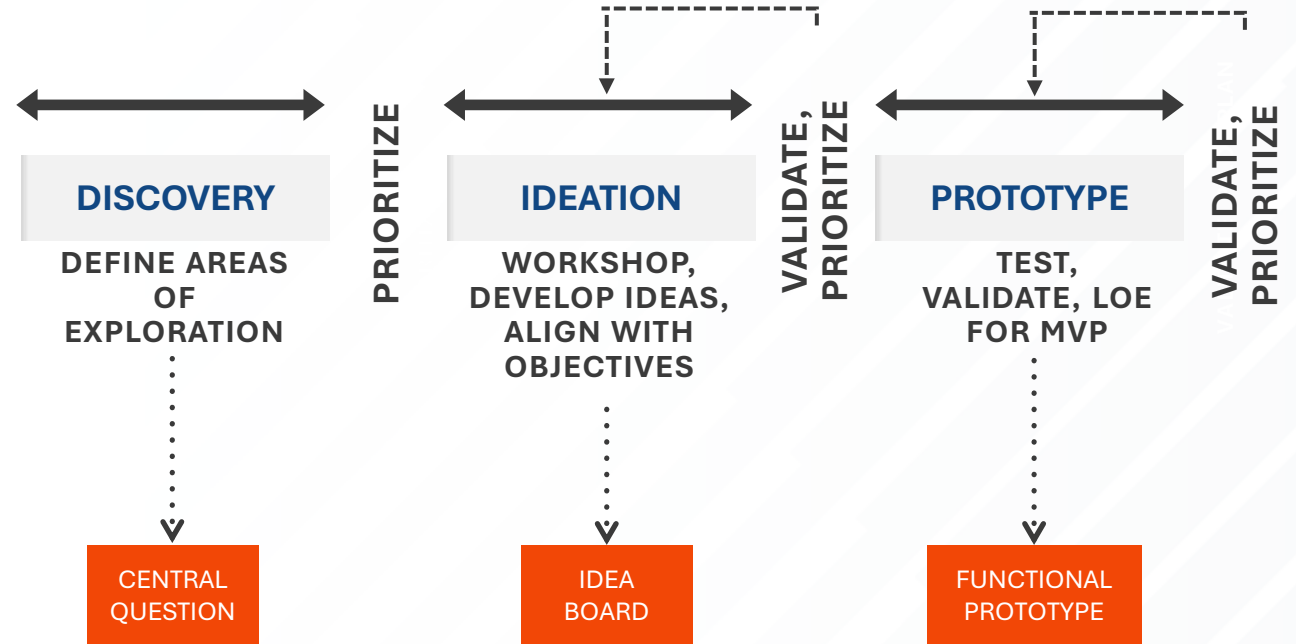
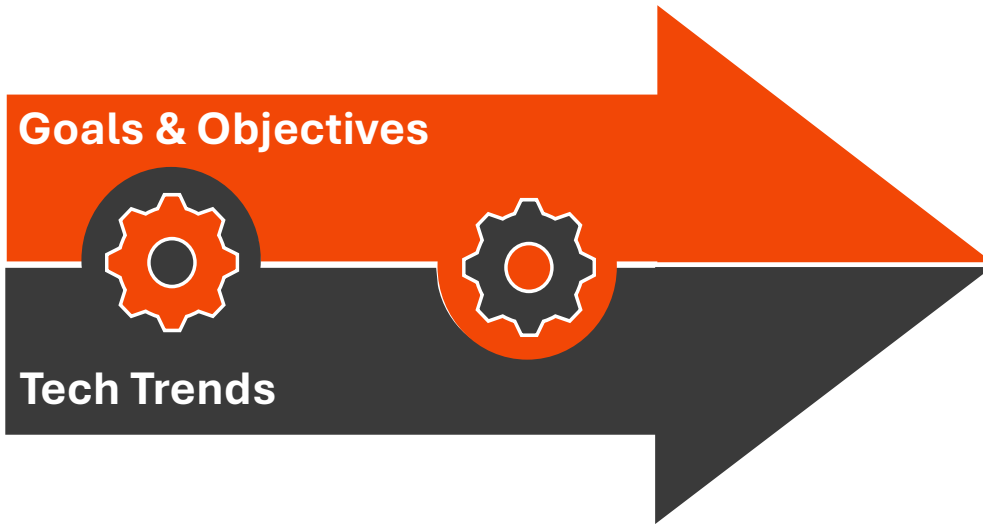
Trade-offs can be made between value and feasibility.

// Sources For Innovation

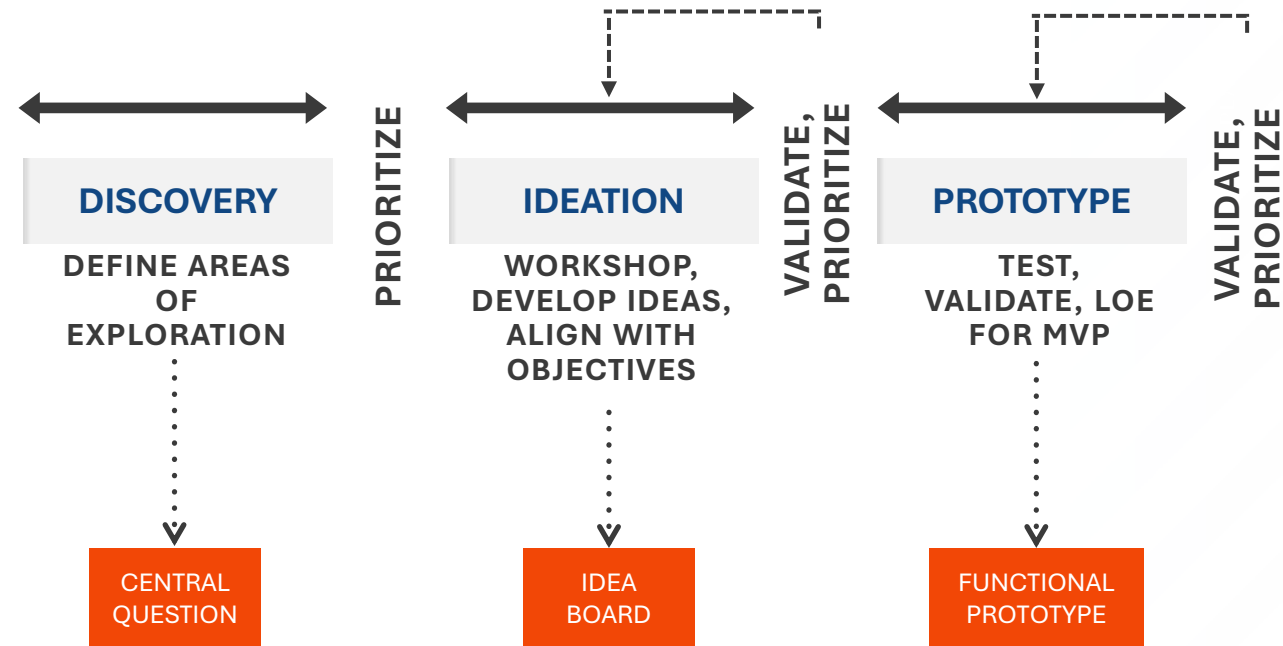
Aligning Innovation with Business Objectives



// A Blueprint For Rapid Innovation



// A Blueprint For Rapid Innovation





CONSTRUCTION EXAMPLES

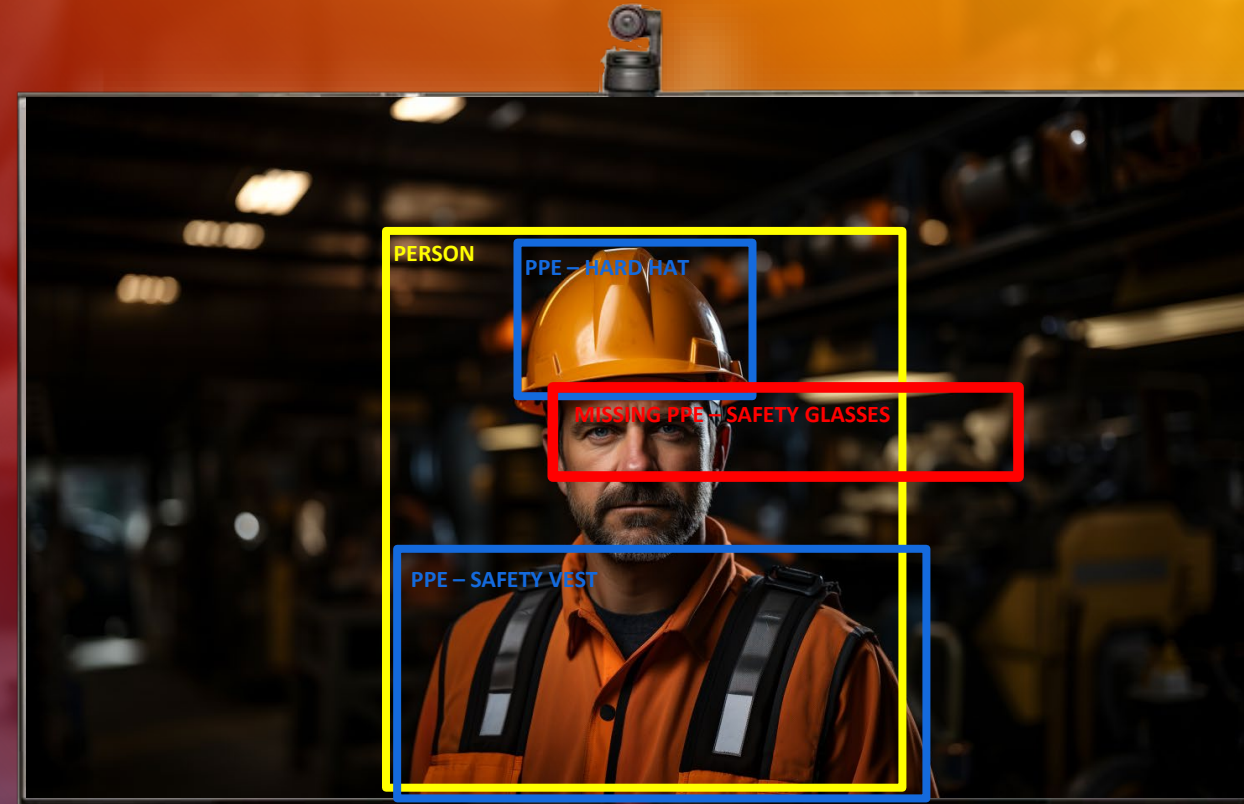


// Safety Gear Detection – Computer Vision

Experience Overview –

A webcam mounted on top of a screen will use computer vision (CV) technology to detect the presence of people in front of the screen. CV models will then detect the presence of PPE such as hard hat, safety glasses, and safety vest.

Google VertexAI APIs will monitor a live camera feed. When a person is detected, the system will look for the presence of PPE.



// Safety Talk Translator

Experience Overview –

The Safety Talk Translator enables Spanish speaking workers to text in real-time as safety talks are given each morning at the job site. The speaker talks into a microphone, and the text is translated in real-time and displayed on a TV in the trailer. Also, a Spanish to English mode will enable Spanish speaking employees to offer safety talks and the English translation will be displayed on the TV.



// Construction Command Center

Experience Overview –

Data from across the job site and across the internet comes to life on this interactive Command Center inside our job site trailers. The most relevant data used by site leadership is always on display.

Real-time alerts for safety, weather, and critical schedule items will pop up on the screen. Tap any widget to interact with the information.





AI-Powered RFP Assessments



RFP360 is an AI-powered RFP assessment and response tool that is trained to evaluate new opportunities and responds as if it were a member of our pursuit team with complete knowledge of our project history.



70% Time Savings



AI-Driven Insights



**Immediately Identify Risks,
Inconsistencies, and Other Questions**

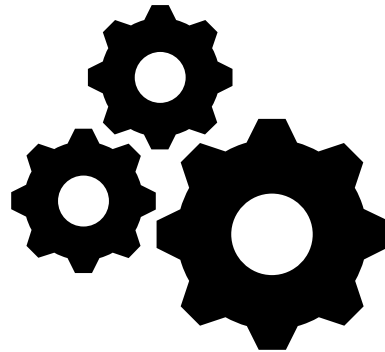
// AI-Powered RFP Assessments

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RFP INPUT



AI SYSTEM



SYSTEM OUTPUT

- **Project Summary**
- **Key Response Dates**
- **Risk Identification**
- **Contradicting Statements**
- **Response Package Checklist**
- **Links to Similar Projects**
- **70% Complete RFP Response**



// Key Takeaways

Innovation is Essential: In today's fast-paced market, staying ahead requires continuous innovation and adaptation.

Strategic Implementation: Successful technology adoption involves careful planning, from identifying needs to scaling solutions.

Collaboration is Key: Cross-functional teamwork and ongoing support are crucial for overcoming challenges and driving progress.



Q&A

THANK YOU



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#InnovationByDesign

