

# Guest Keynote

Josh Valman



shaping tomorrow with you

Human Centric Innovation

# Digital Co-creation

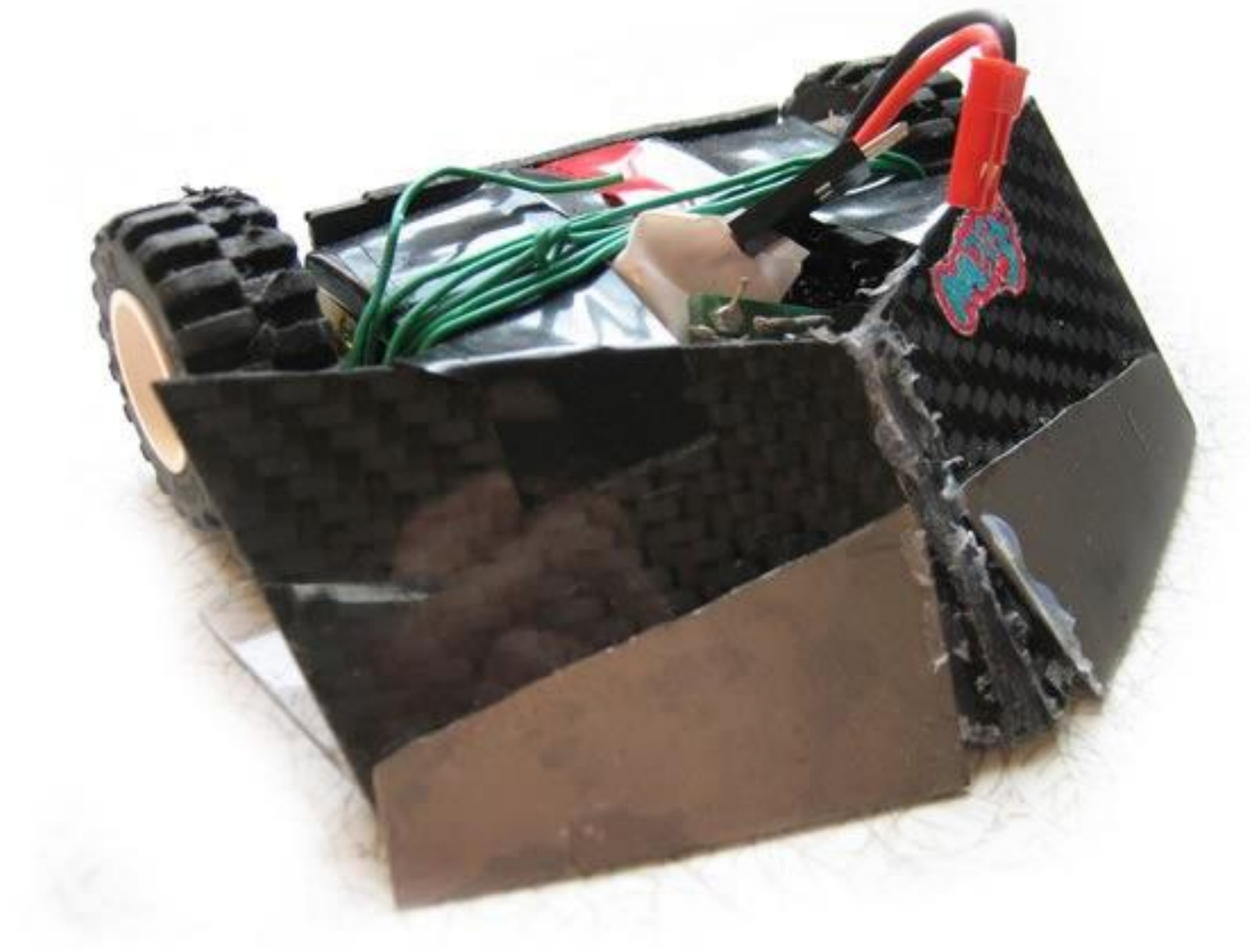
# Making Innovation Happen

Josh Valman | RPD International



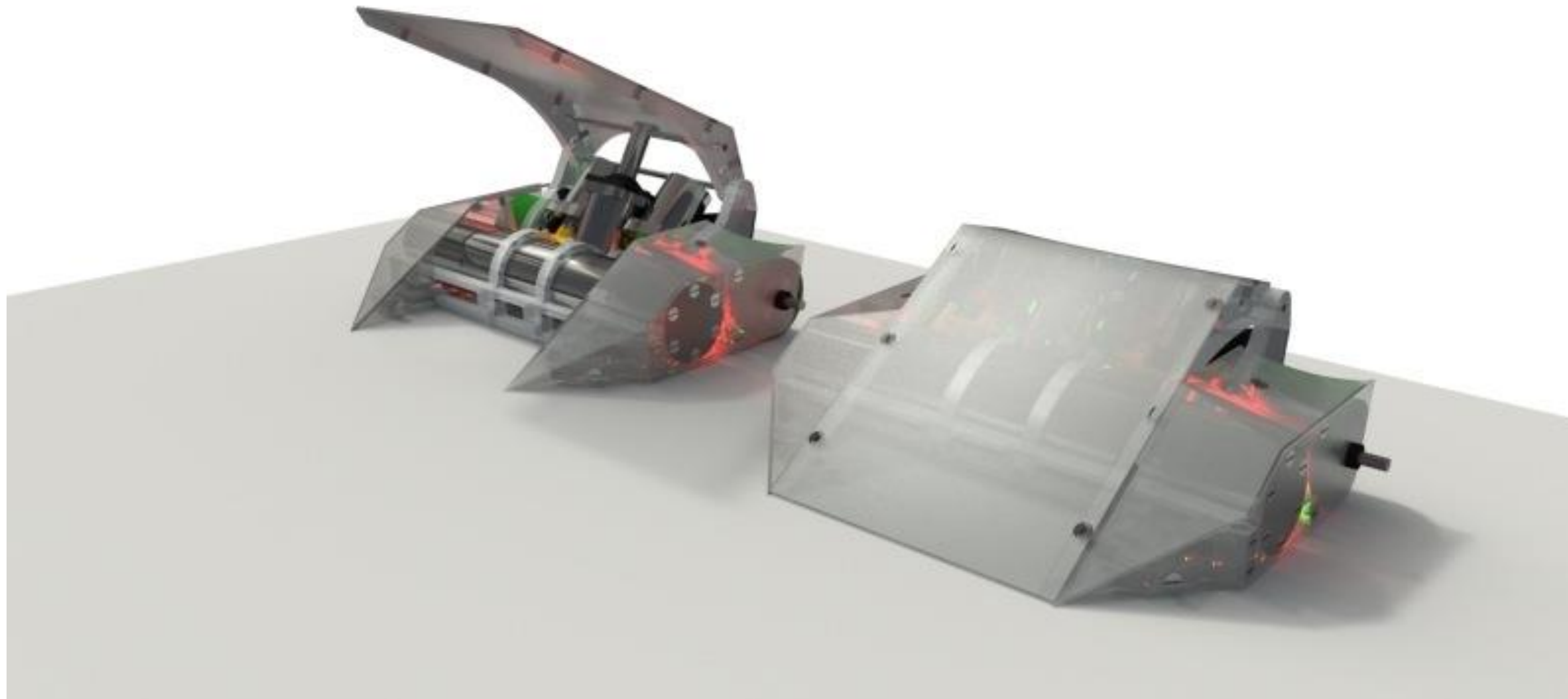
# An Early Engineering Start With Robot Wars

Making robots from toys, lego, rubbish and scrap materials



# Using Google to Learn

Using Google to answer each specific question, learning how engineering and design



# Using Google to Learn

Using Google to answer each specific question, learning how engineering and design



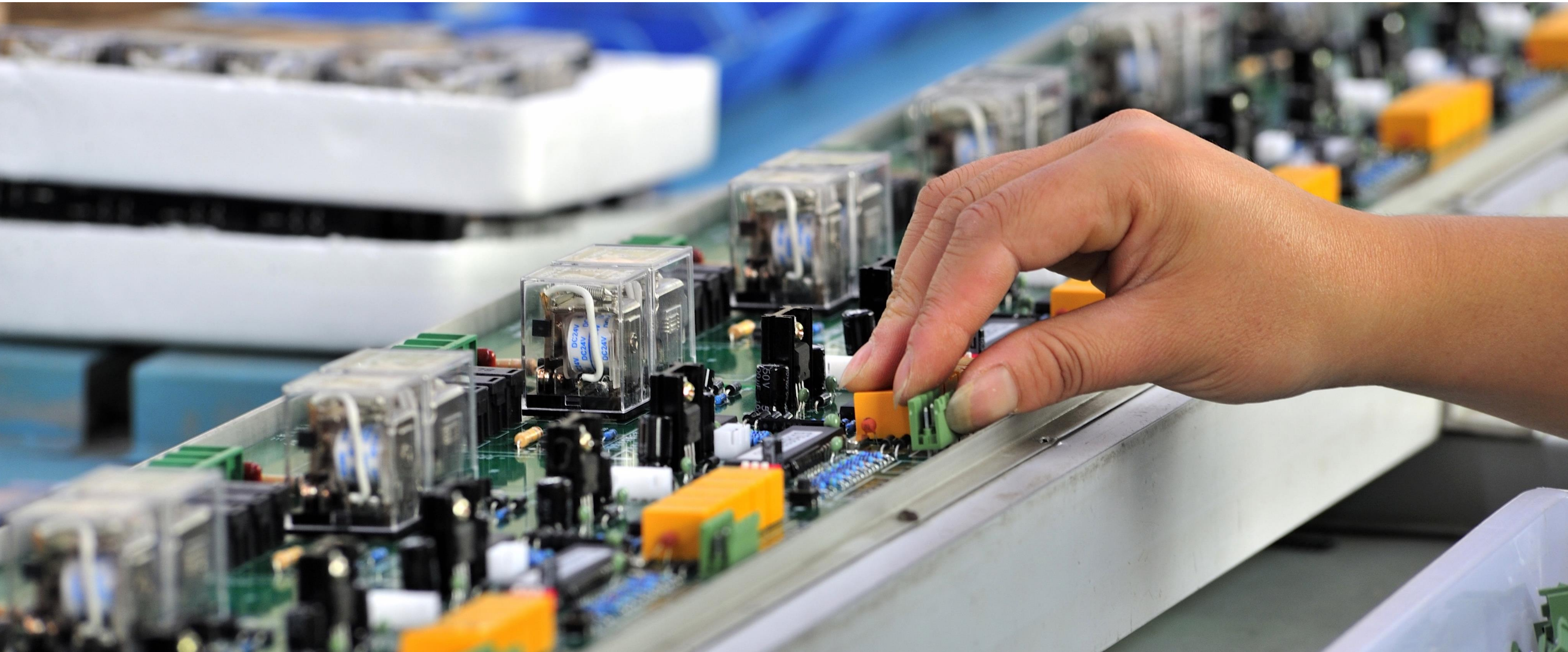
# From Robotics to Dishwashers

My robotics soon earned me glorious roles in engineering replacement dishwasher parts



# Running Global Supply Chains From School

Soon dishwashers escalated into corporate consulting on global product engineering and supply chain



# R&D to Supply Chain and Logistics

[www.RPDintl.com](http://www.RPDintl.com)



## Research & Innovation

RPD helps companies solve problems in design and product, across a diverse range of sectors.



## Prototyping & Iteration

RPD develops products and engineers solutions for your market purpose. in record times.



## Production & Assembly

RPD manages manufacturing facilities in over 40 countries, for production and assembly.



## Supply Chain & Logistics

RPD scales production and logistics, then helps integrating your PLM operation.

# R&D to Supply Chain and Logistics

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What is **Innovation**,  
and what does it  
really mean?

# Even Google Can't Really Define What Innovation Is

So how can we be expected to grow such a thing within our businesses?

**innovation**

/ɪnəˈveɪʃ(ə)n/ 

*noun*

the action or process of innovating.

"innovation is crucial to the continuing success of any organization"

*synonyms:* [change](#), [alteration](#), [revolution](#), [upheaval](#), [transformation](#), [metamorphosis](#),  
[reorganization](#), [restructuring](#), [rearrangement](#), [recasting](#), [remodelling](#),  
[renovation](#), [restyling](#), [variation](#); [More](#)

“The action or  
process of  
innovating”

# Global Governments are Encouraging Innovation

And yet, still nobody seems to really tell you what it is, only that it's essential?

## Key steps towards business innovation

Develop a strategic, responsive plan, which includes innovation as a key business process across the entire business.

Remember, innovation is the key to competitive advantage for your business.

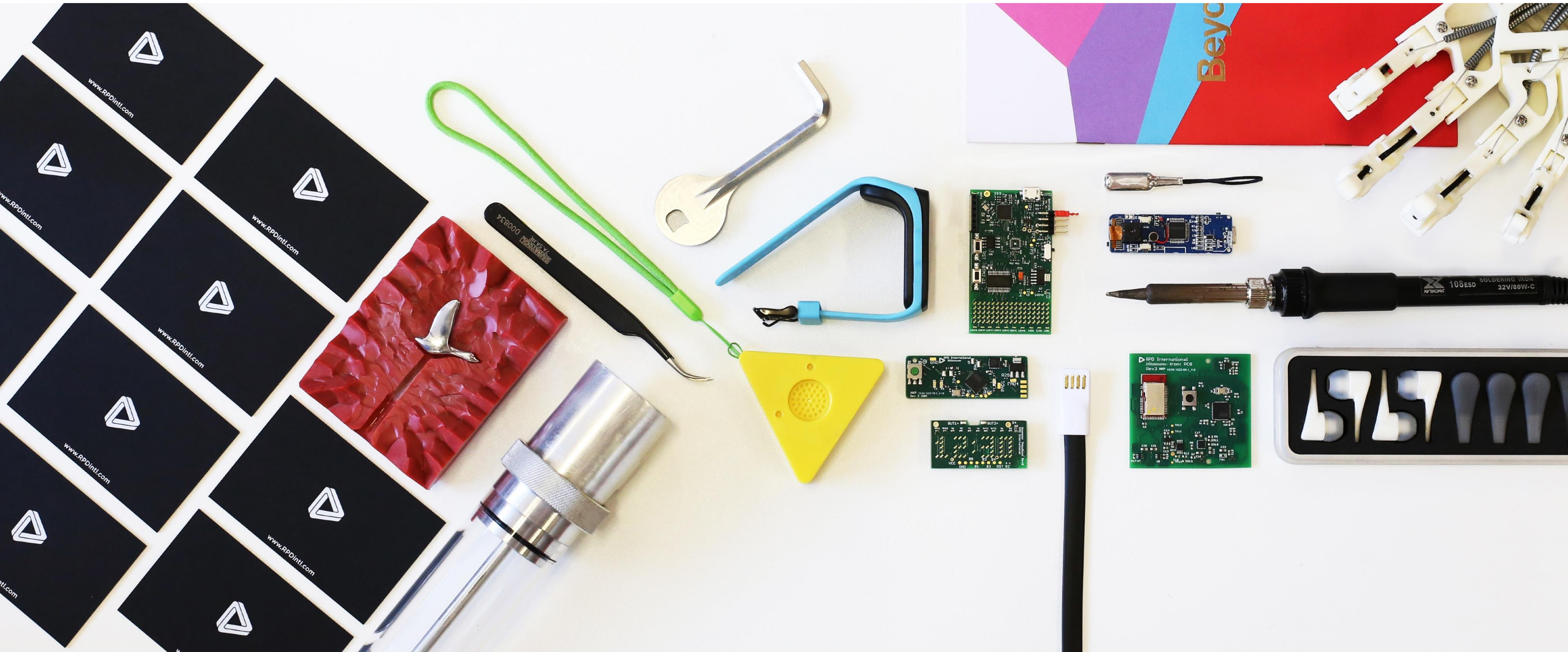
“Develop a strategic, responsive plan, which includes innovation”

What is **Innovation**,  
and what does it  
really mean?

“Innovation is the  
process of executing on  
new ideas”

# What if we could do this in a year, a month, a week, a day?

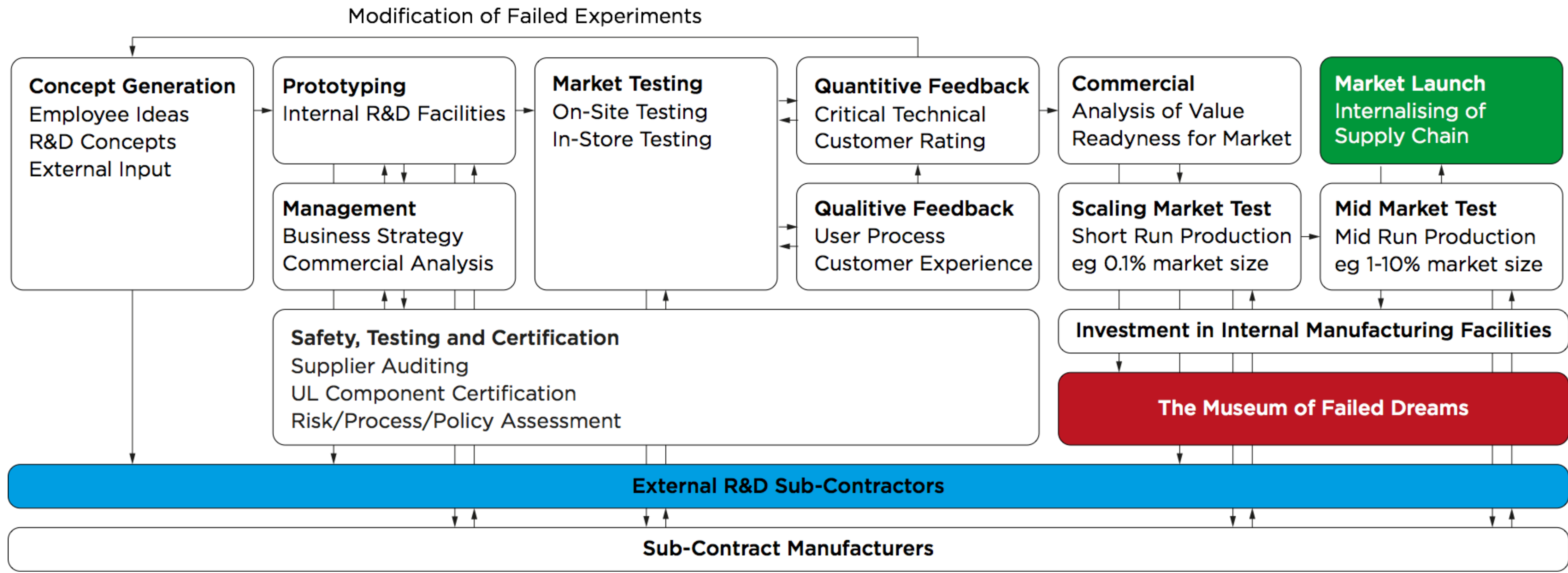
If we can accelerate the pace of corporate innovation, how far and fast can the world move?



How do **we** make  
innovation and  
execution happen?

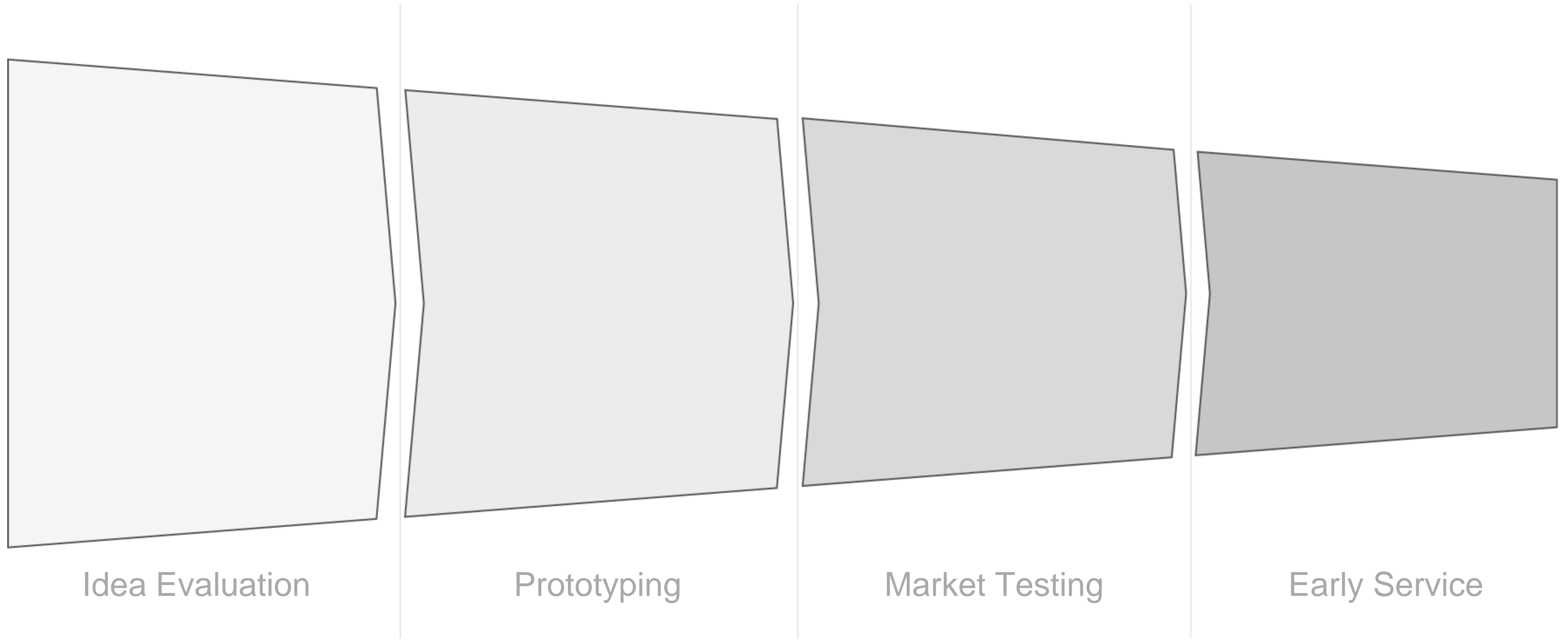
# What Does Innovation Look Like?

Innovation fits into a system diagram - but it doesn't fit onto one slide



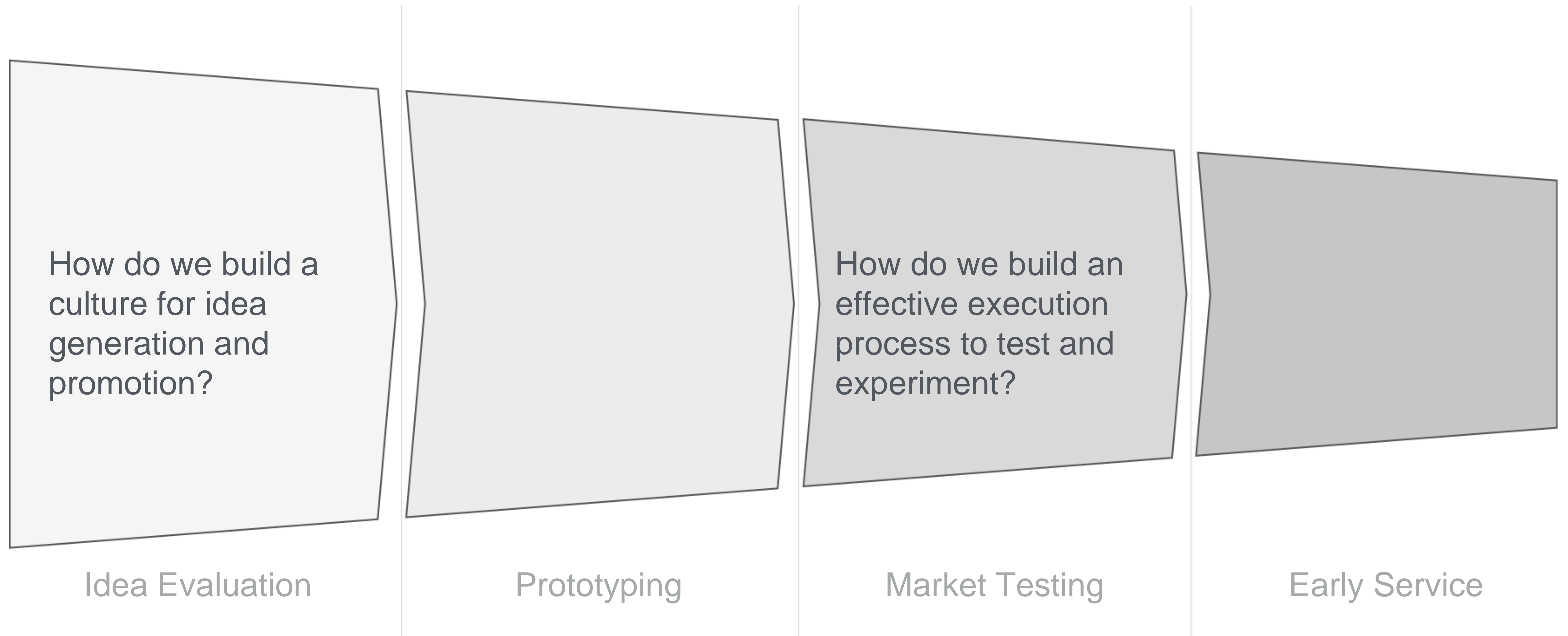
# Innovation Is Execution When Expressed as a Pipeline

Whilst corporate stock imagery has you believe innovation lives on post-it notes, it might be better served in Salesforce



# Innovation Is Execution When Expressed as a Pipeline

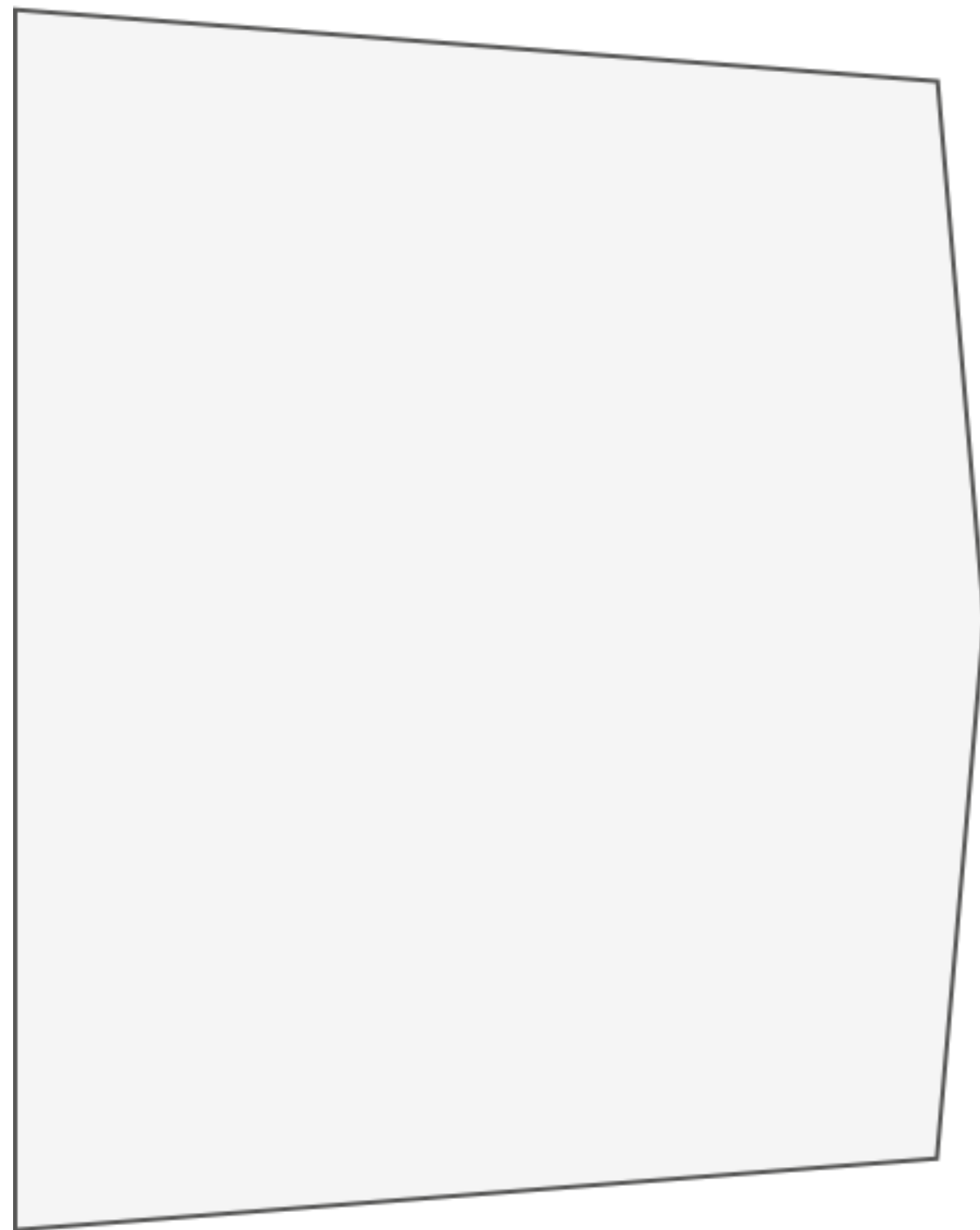
Whilst corporate stock imagery has you believe innovation lives on post-it notes, it might be better served in Salesforce



How will we  
**implement** this  
across a global  
operation?

# Building a Culture of Innovators

How can we build a culture that promotes the proposition of ideas in day-to-day and the generation of ideas in R&D?



Idea Evaluation

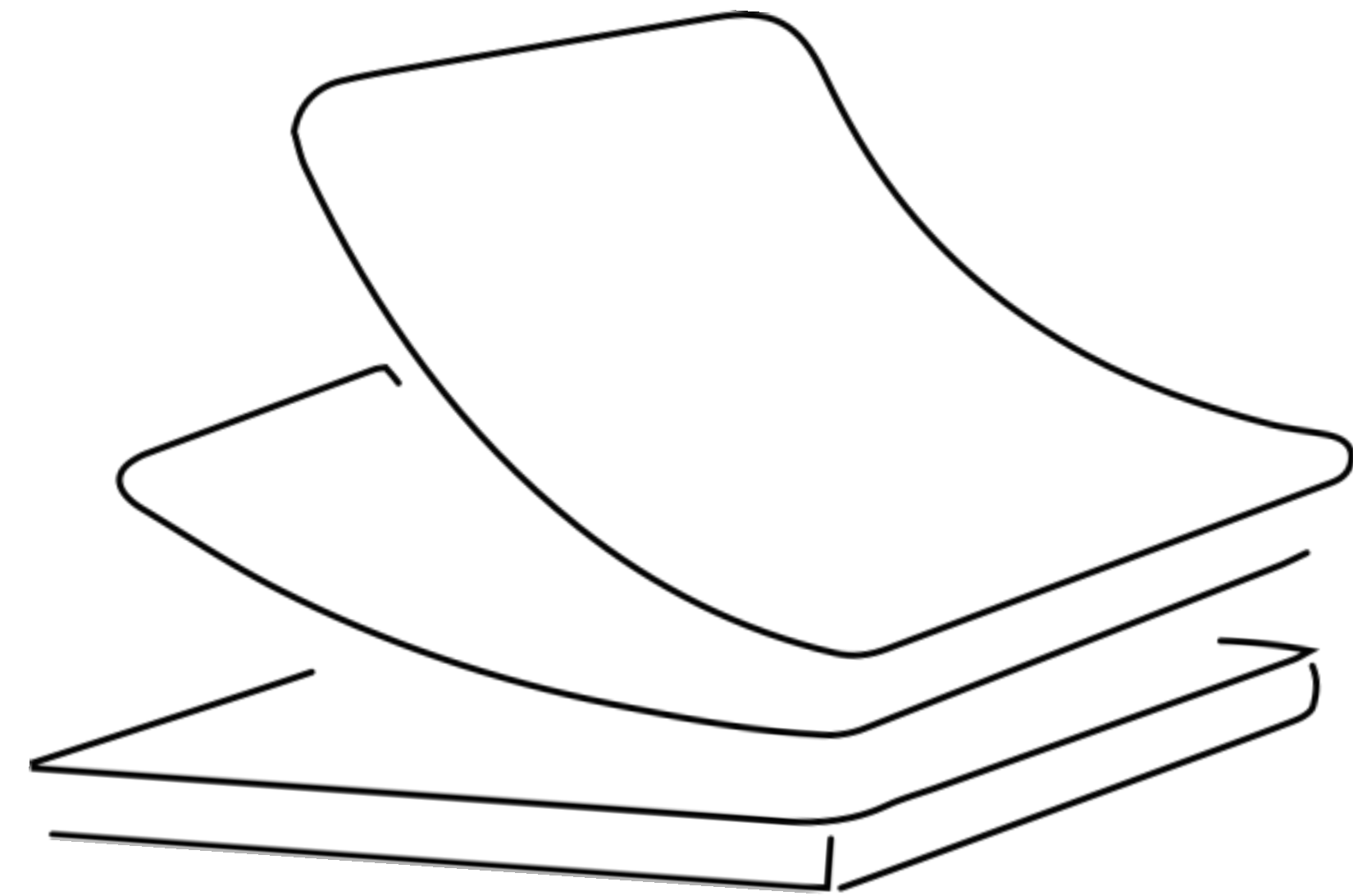
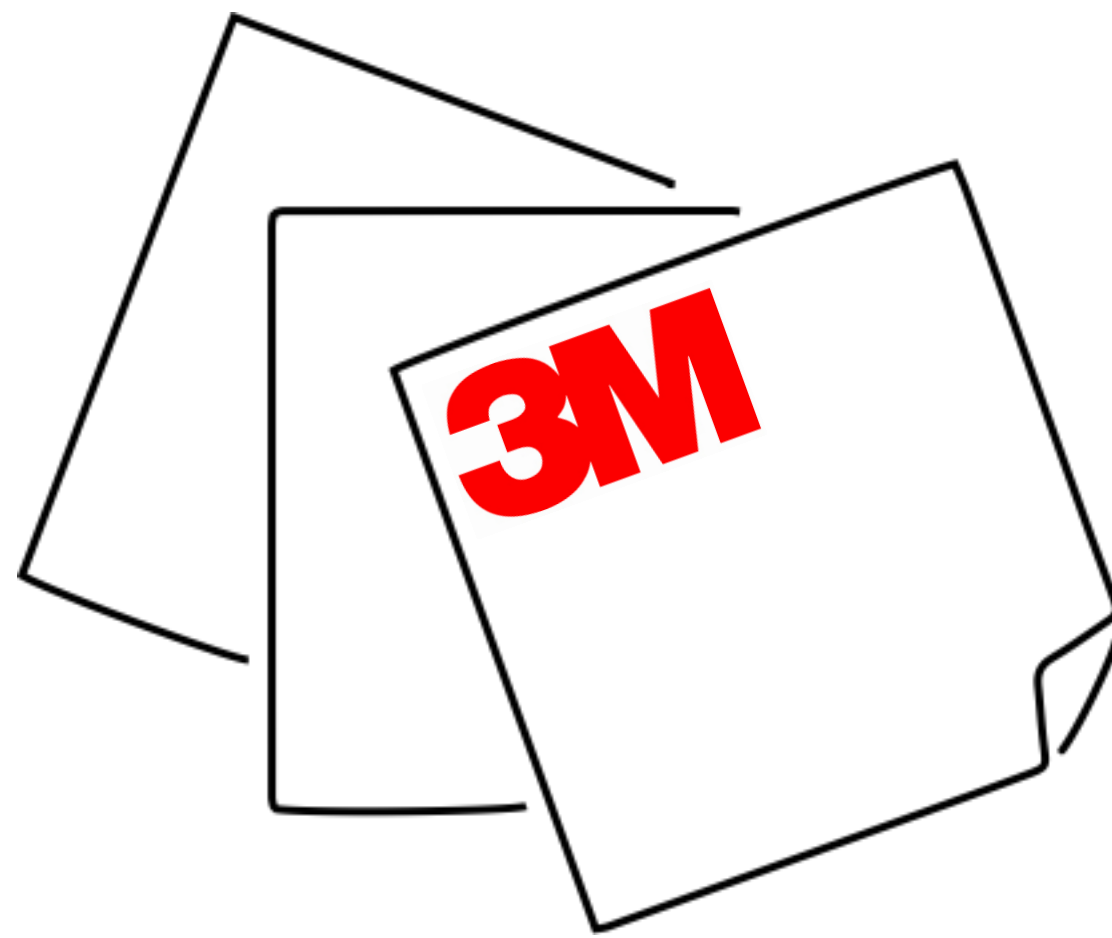
Prototyping

Market Testing

Early Service

# Building a Culture of Innovators

The Post-It Note came from 3M's 15% time, but so did one of the world's largest innovations in abrasive materials



Idea Evaluation

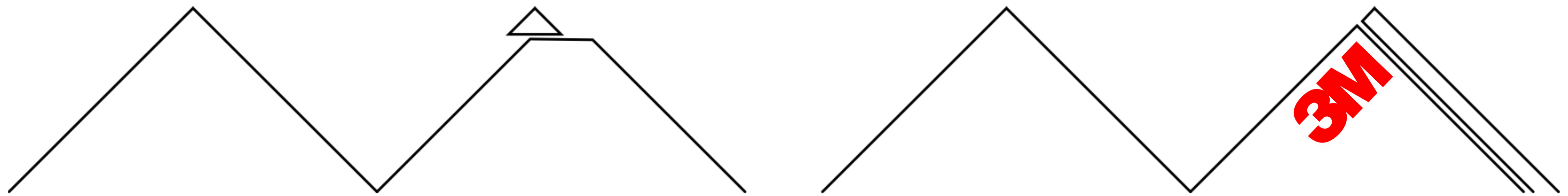
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# Building a Culture of Innovators

3M's engineers reformulated the crystal structure of the particles, making them fracture, leaving a constant sharp point



Idea Evaluation

Prototyping

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# Building a Culture of Innovators

How can we build a culture that promotes the proposition of ideas in day-to-day and the generation of ideas in R&D?

What if my idea offends the company?

What will I get from sharing ideas?

What do I do with my ideas?



Employee

Idea Evaluation

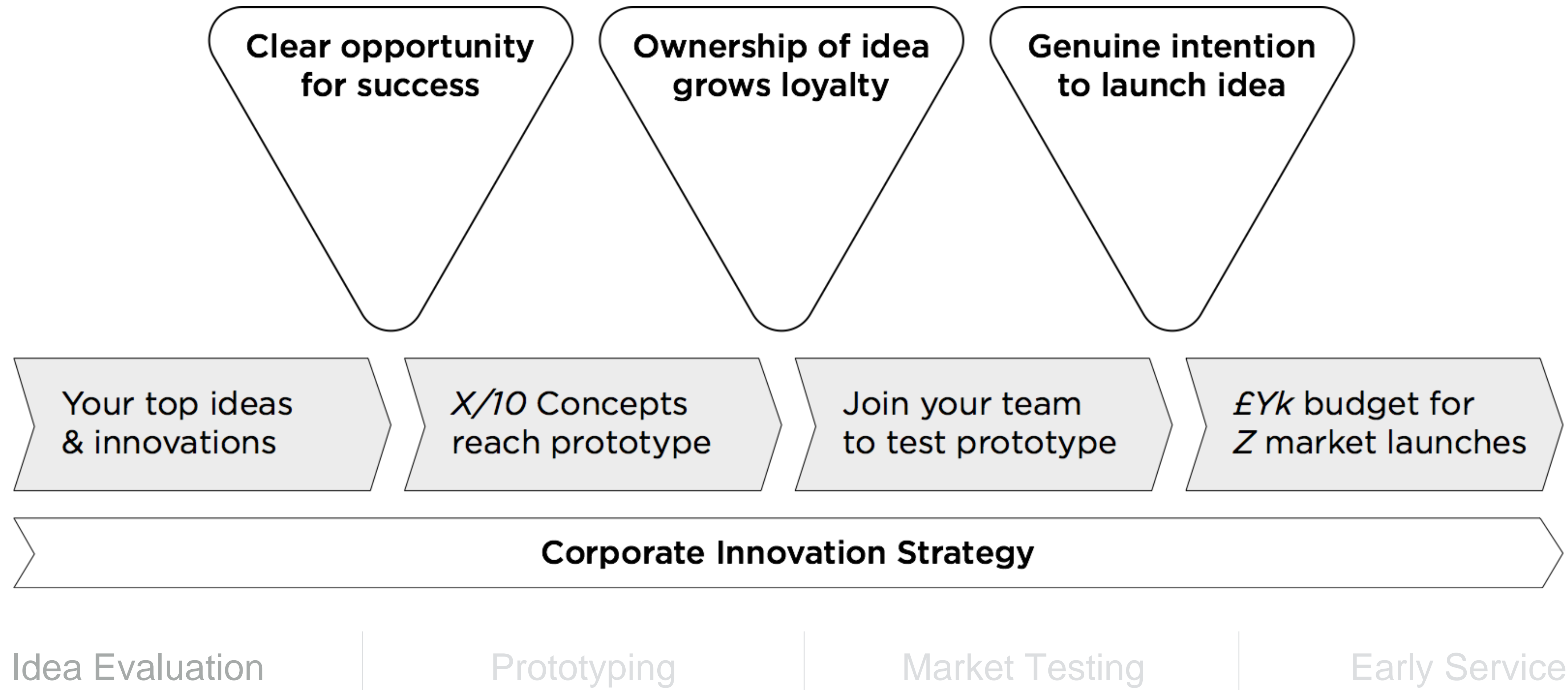
Prototyping

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# Building a Culture of Innovators

Implementation of clear innovation processes allow your employees to understand the value, and gives permission to think



# Building a Culture of Innovators

The key for employees to contribute and evolve your company, is clarity on their worth

**Empower** employees by  
creating a clear call for  
contribution and define  
exactly **how it will work**

Idea Evaluation

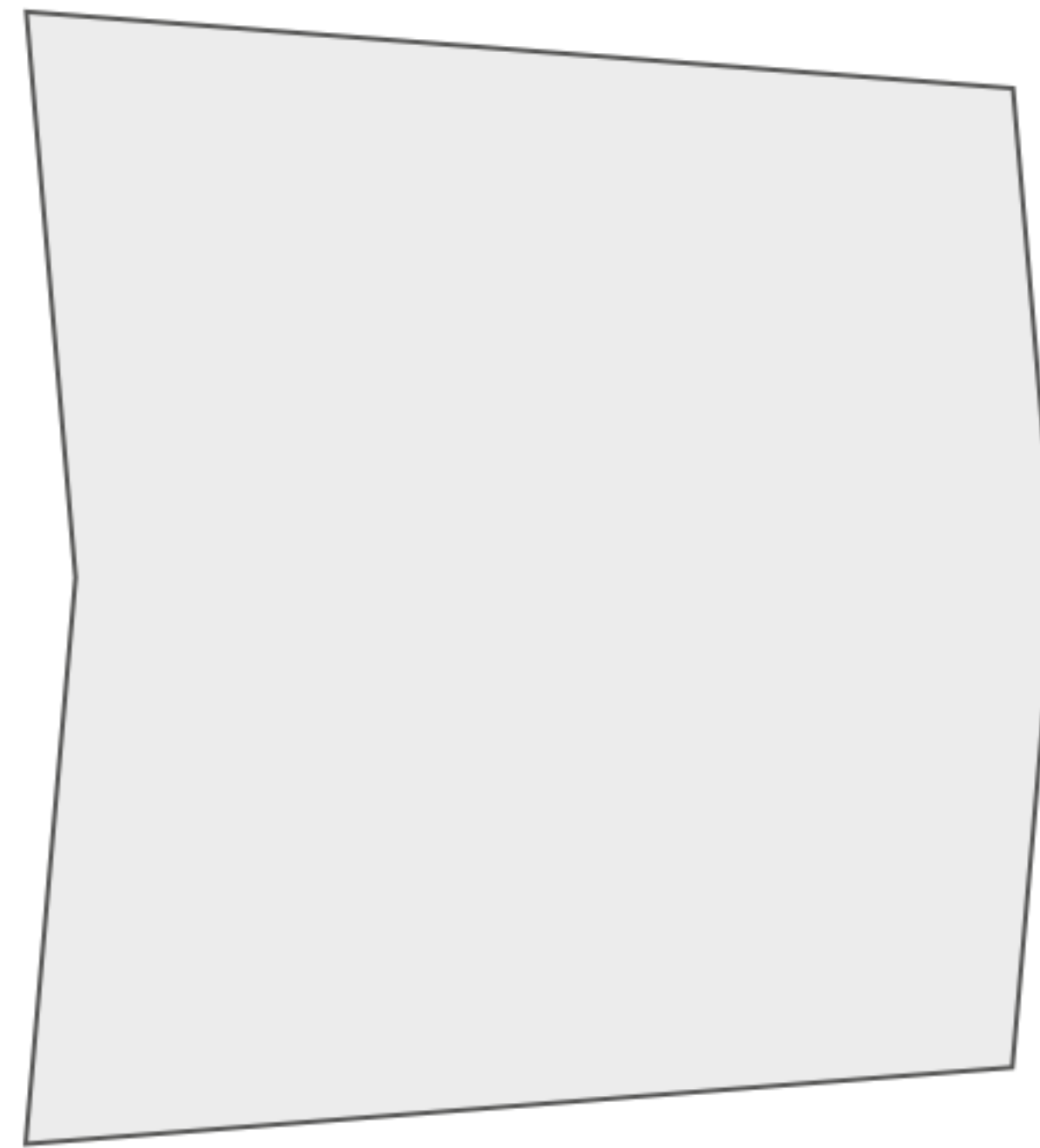
Prototyping

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# Building and Engine for Execution and Experiments

Most ideas get shut down by negative legacy thinking and process. How can we drive an experimental atmosphere?



Idea Evaluation

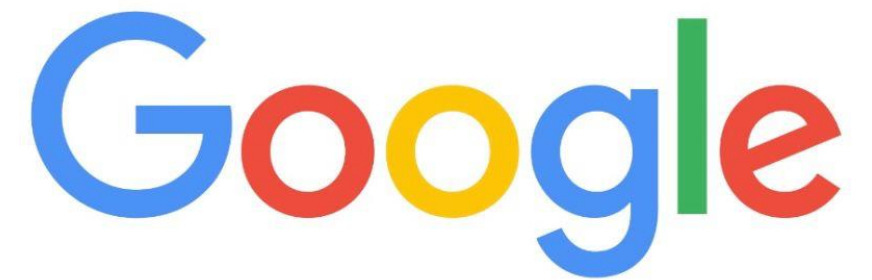
Prototyping

Market Testing

Early Service

# Building and Engine for Execution and Experiments

How long did Google take to put together the first glass experiment?



GLASS



Idea Evaluation

Prototyping

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# Building and Engine for Execution and Experiments

1 Day. That's how long Google's R&D team took to make the first cardboard frankenstein prototype



Google



Idea Evaluation

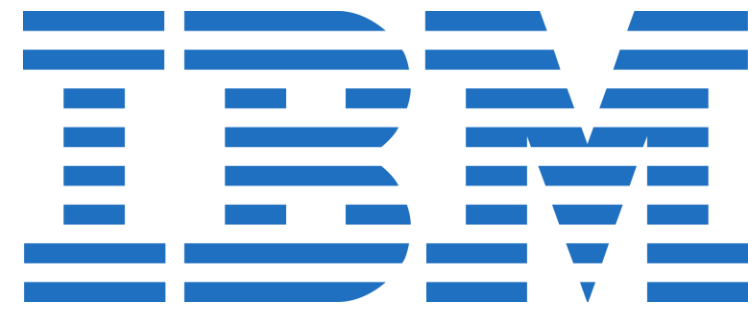
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# Building and Engine for Execution and Experiments

The greatest products, companies and solutions are built from an amalgamation of less successful products



IBM did not invent the personal computer



Apple did not invent MP3 technology



Amazon did not invent the online book store

Idea Evaluation

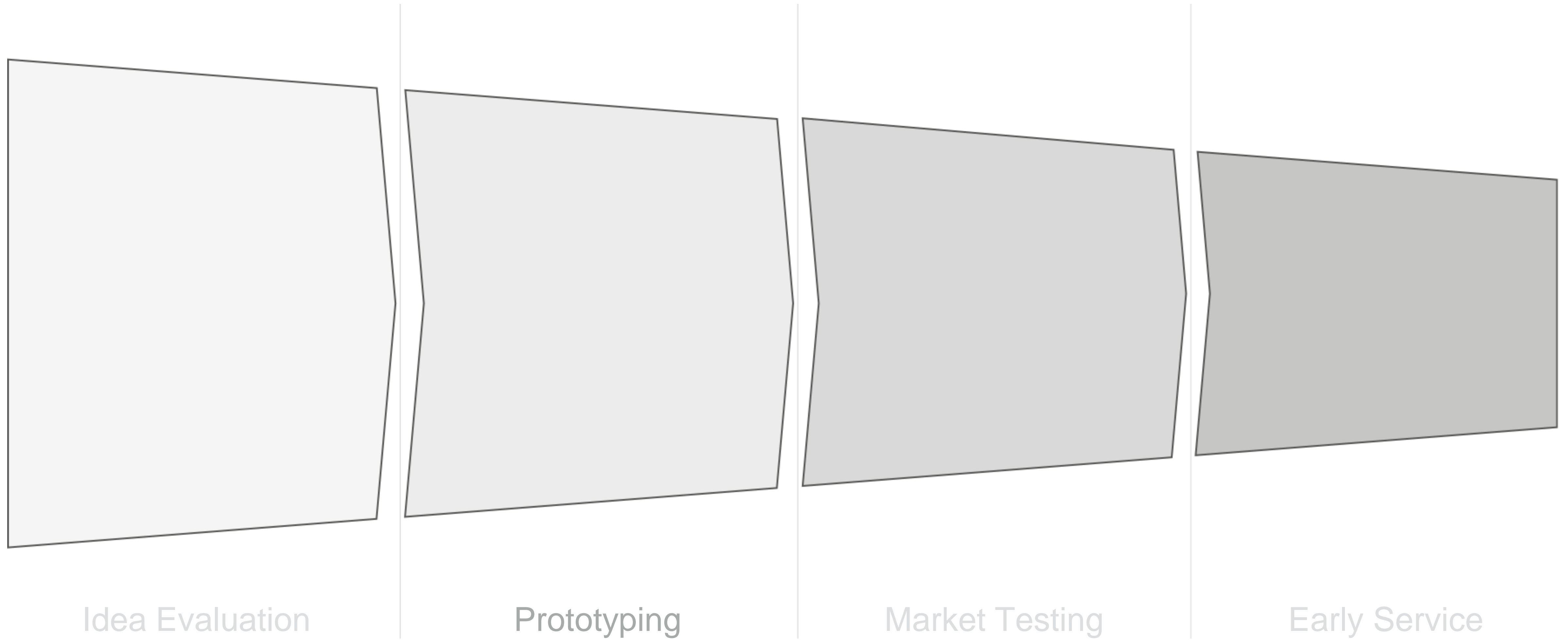
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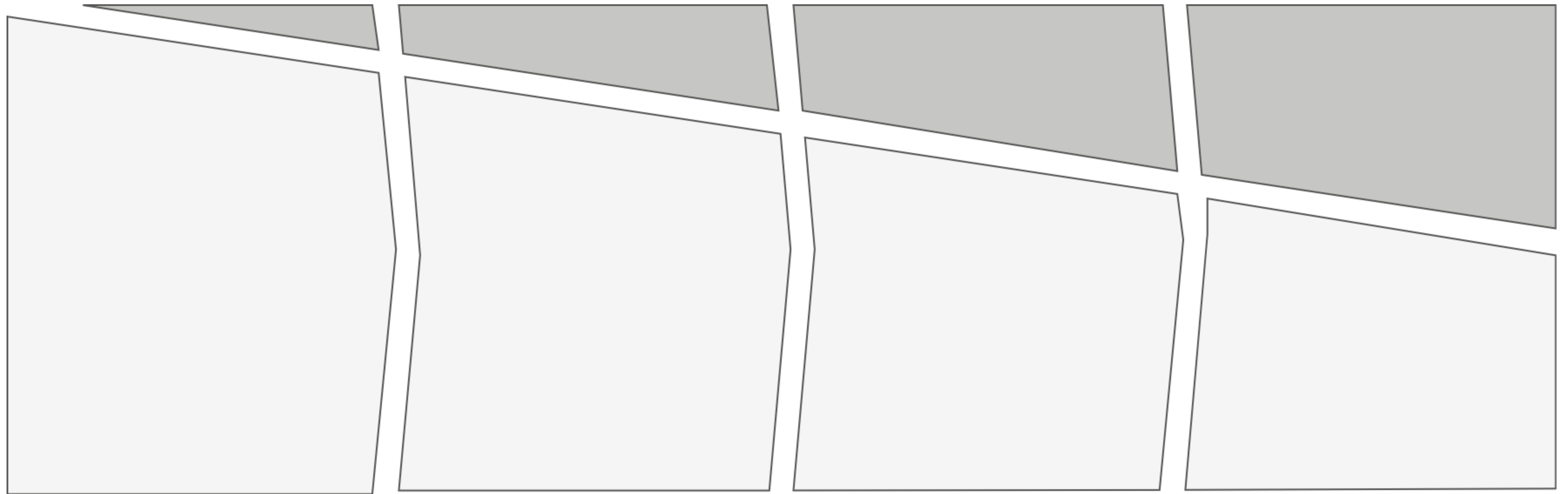
# Building and Engine for Execution and Experiments

Unlike Sales, the innovation pipeline thrives on failure, it feeds itself to an extent



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Unlike Sales, the innovation pipeline thrives on failure, it feeds itself to an extent



Idea Evaluation

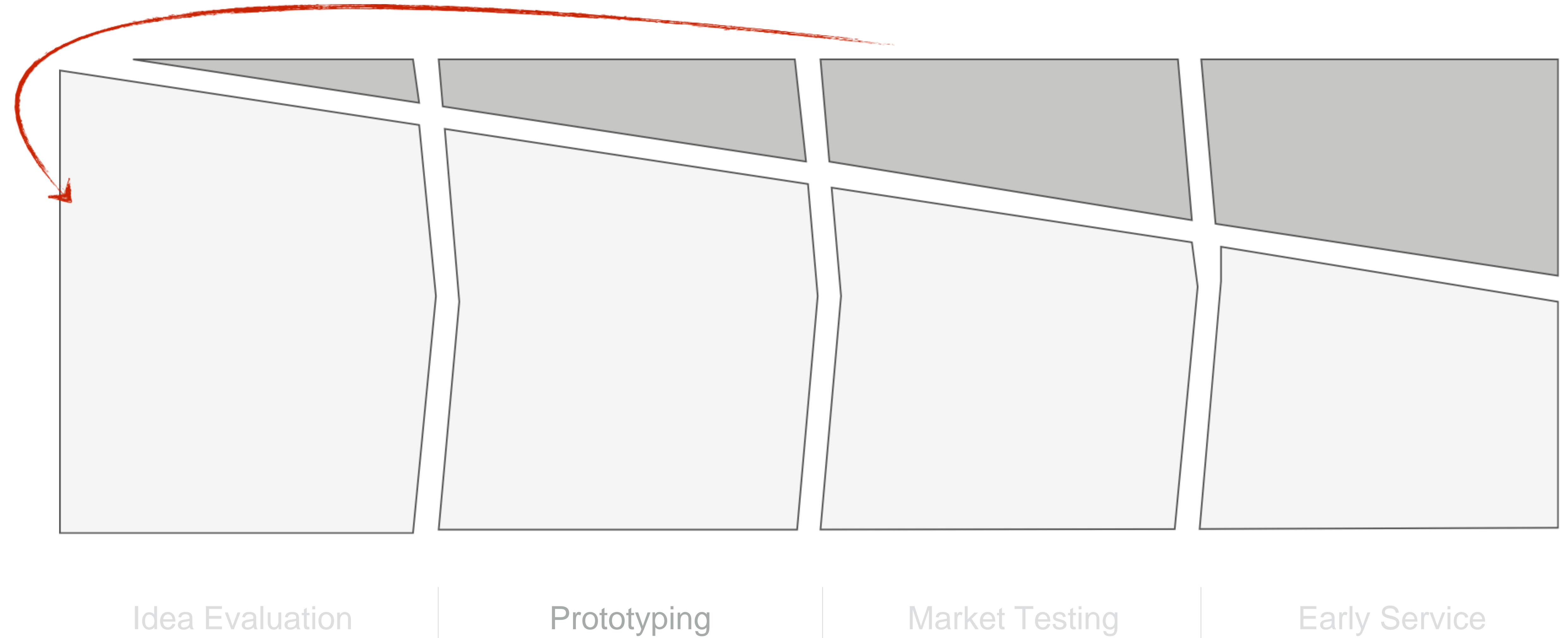
Prototyping

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# Building and Engine for Execution and Experiments

By focussing on how projects fail, and why, we can adapt and combine them to evolve into new ideas



# Building and Engine for Execution and Experiments

Entrepreneurs and Corporate Entrepreneurs have different appetite's for risk - we need to create a safe haven for failure

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Create an environment that  
suits the necessary failure  
of innovation

Idea Evaluation

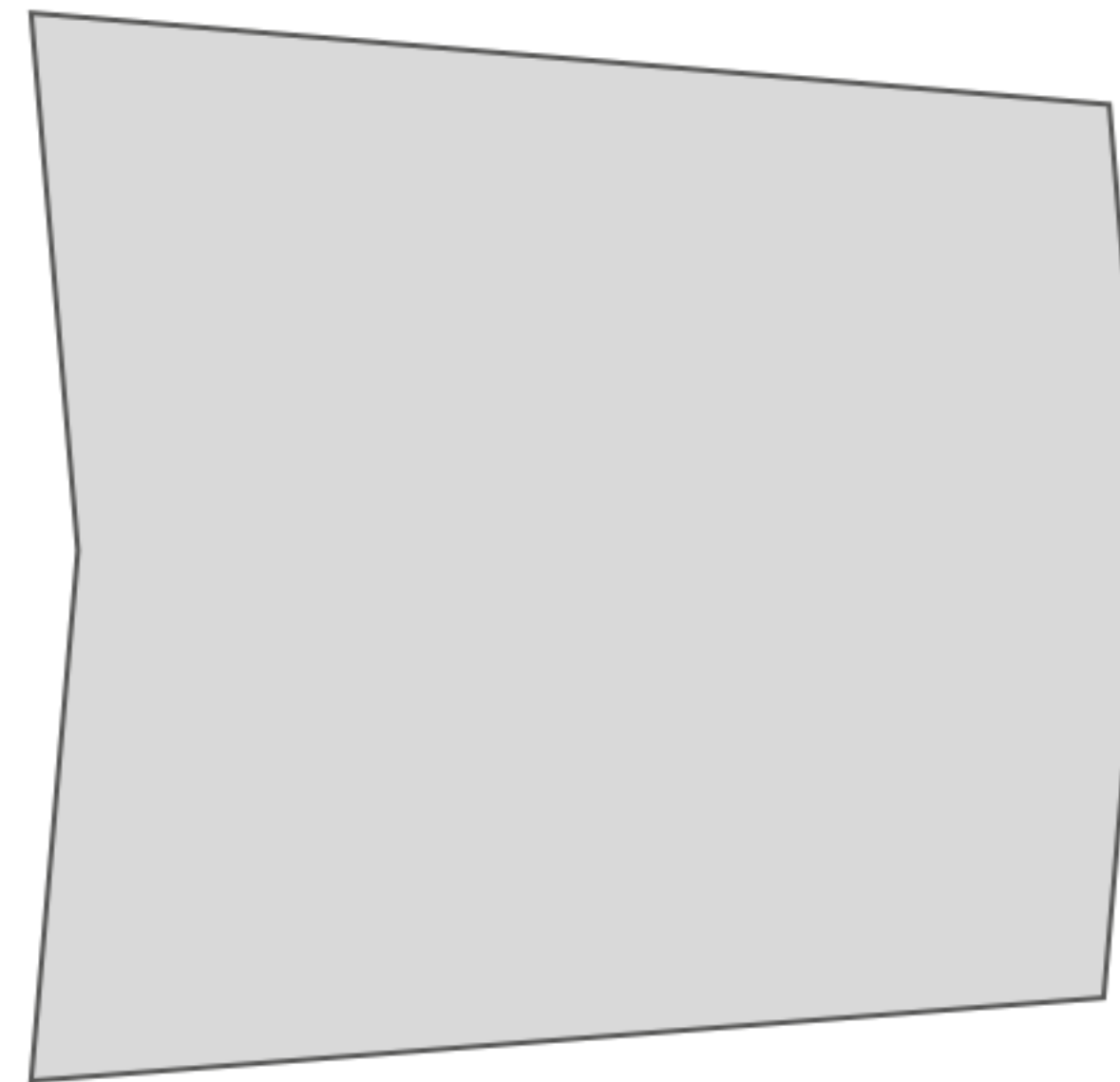
Prototyping

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# Using The Real World To Define Success

How can we use real customers and scenarios to define success in our innovation?



Idea Evaluation

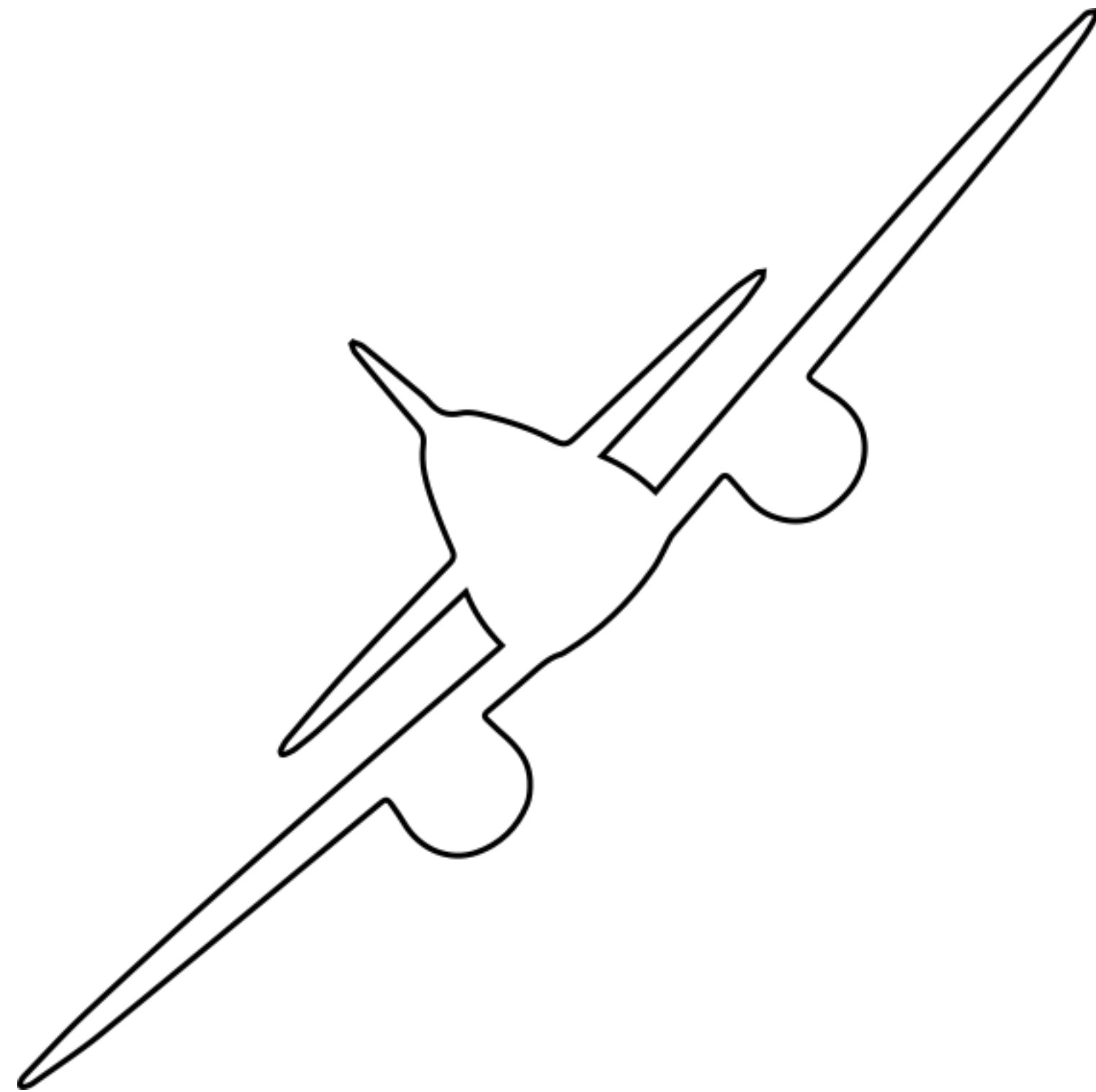
Prototyping

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# Using The Real World To Define Success

What happens when you realise everything you know about your customer is hypothetical?



Idea Evaluation

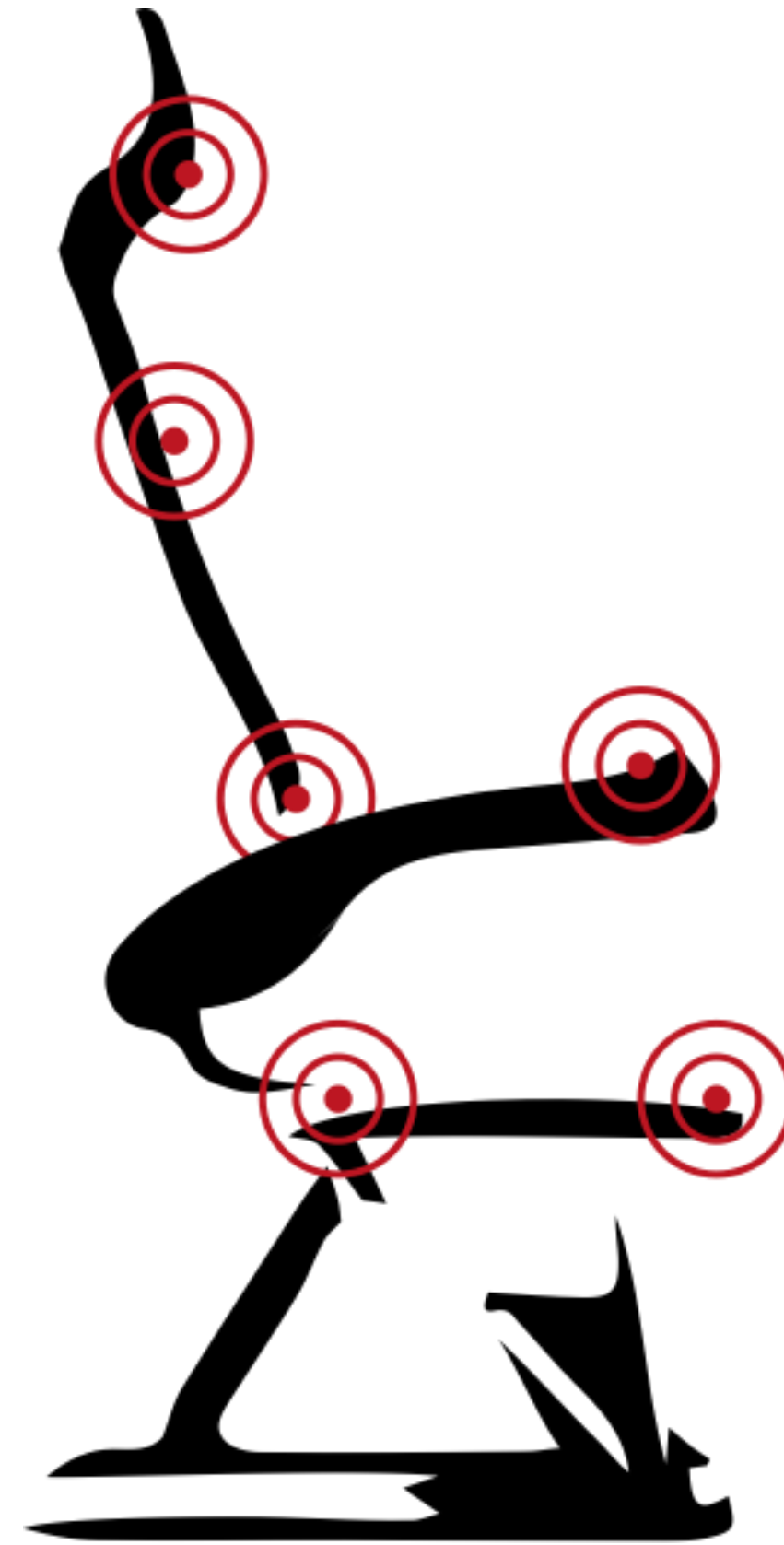
Prototyping

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# Using The Real World To Define Success

How much do you really know about how your product/process/tool will be used?



Idea Evaluation

Prototyping

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# Using The Real World To Define Success

Look at how your products can generate feedback

Build **feedback systems** into  
everything you test,  
because most **humans lie**,  
even to themselves

Idea Evaluation

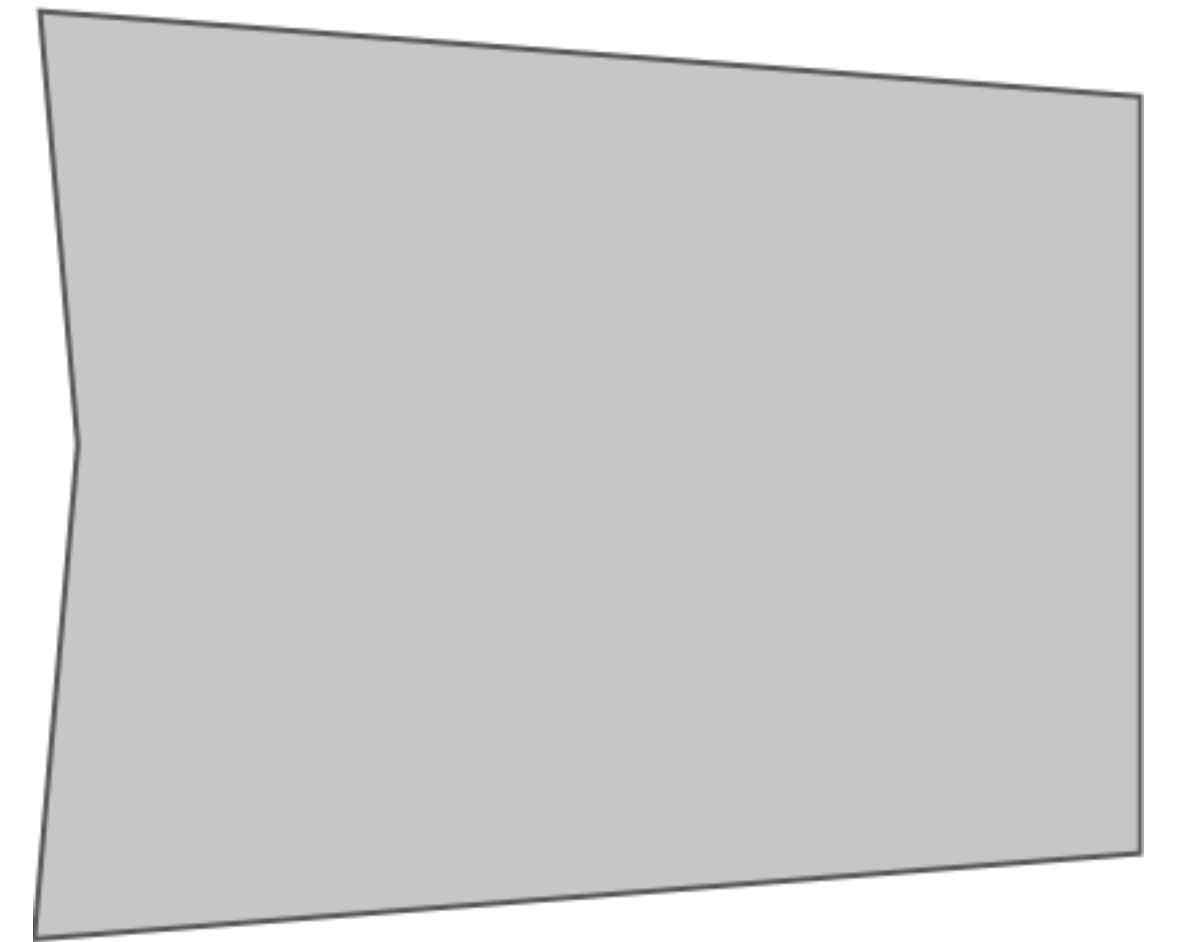
Prototyping

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# Mastering Go-To-Market Strategy

Once validated, how can a business build the go-to-market strategy for any new process, tool or product?



Idea Evaluation

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# Mastering Go-To-Market Strategy

Who makes more revenue, Pepsi Co, or Coca Cola?



Idea Evaluation

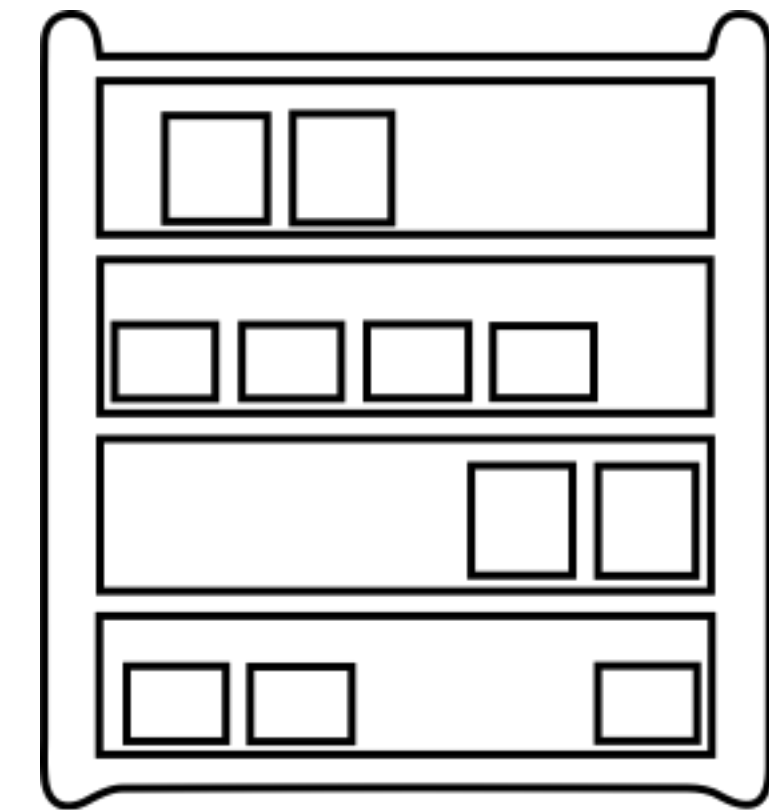
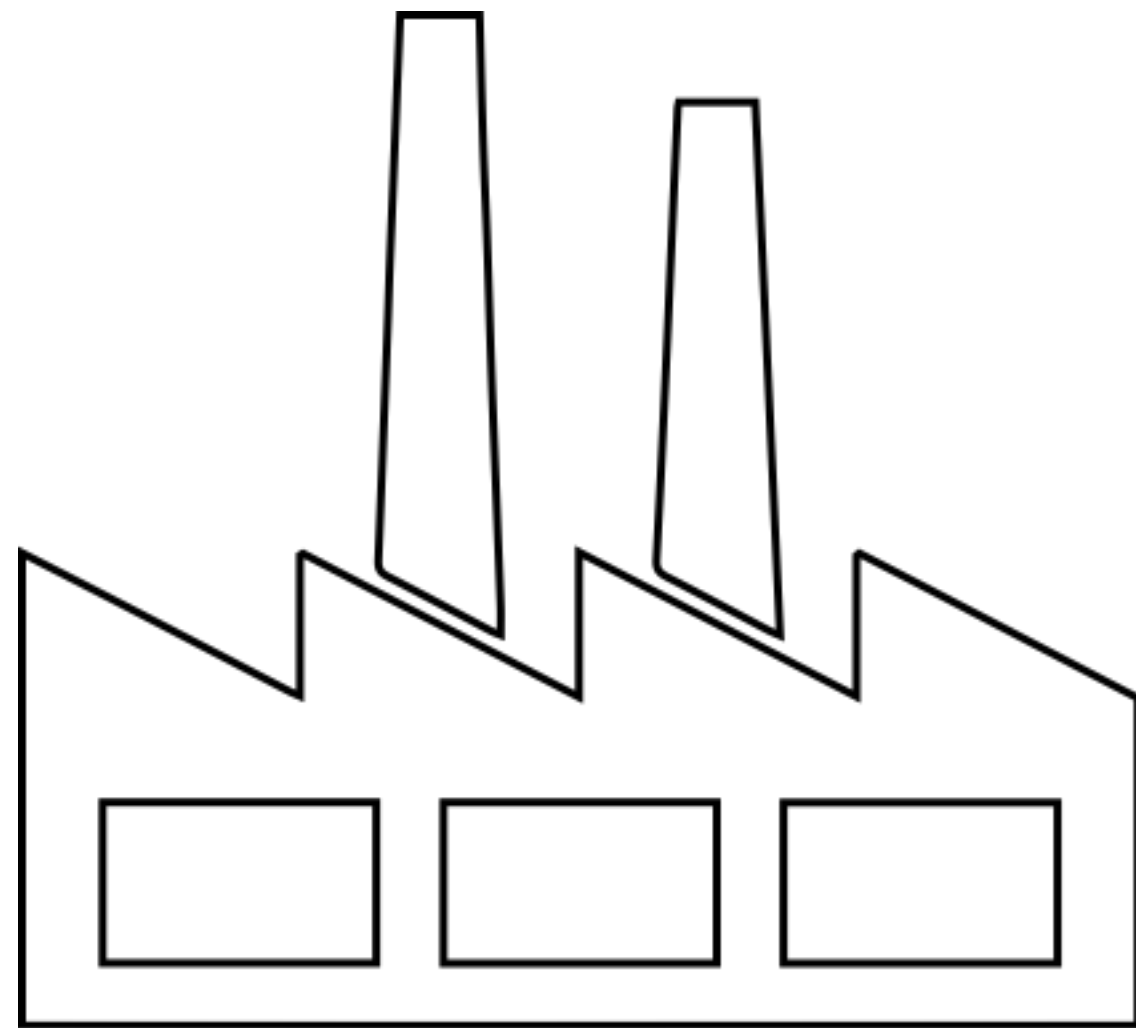
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# Mastering Go-To-Market Strategy

Pepsi found the majority of their customers bought snacks too, so they utilised an existing supply chain to sell snacks



Idea Evaluation

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# Mastering Go-To-Market Strategy

New Zealand is a 'test-bed', a customer base similar to the Western World, but a community that shares less outside



Idea Evaluation

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# Mastering Go-To-Market Strategy

How do we keep things small and secluded, to reduce risk when trailing in the real world?

Use **small opportunities** to  
validate your market and  
**restrict backlash** from ‘work  
in progress’

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What is **Innovation**,  
and what does it  
really mean?

“Innovation is the  
process of executing on  
new ideas”

# Making Innovation Happen

The 4 key steps to making innovation and execution work in your business, from 9am tomorrow

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- Empower employees, by defining exactly how contribution works
- Create an environment that suits the necessary failure of innovation
- Build feedback systems into everything you test
- Find ways to validate, restricting backlash from ‘work in progress’

By Accelerating Innovation

How far and fast can the world move?