

## UMaine Extension



# INNOVATION ENGINEERING®

Mission: To **change the world** through **systems that enable** innovation and problem solving by **everyone, everywhere, every day** resulting in increased SPEED and decreased RISK.

# Goals

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- Revisit Roadmap Work
- Ideas generated will be used in planning and changes in Extension
  - The process will continue
- Testing and data gathering will be used to gain knowledge and confidence about ideas
  - Data driven - idea/process

# The Process

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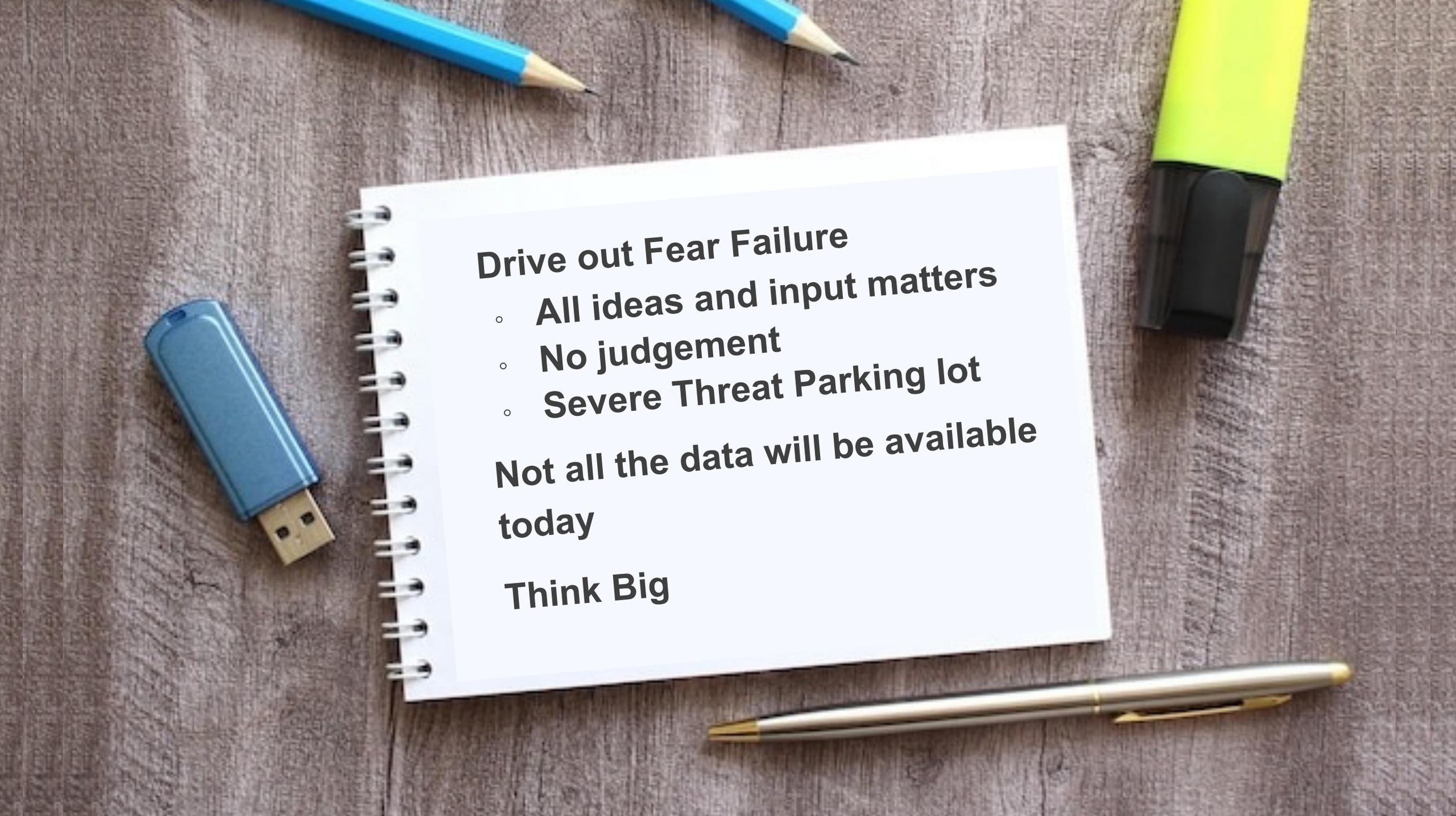
Know your current system

Identify Opportunity and/or Problem

Ideation – Idea tools

Identify Severe Threats

Determine a plan to test severe threats  
and gain confidence



**Drive out Fear Failure**

- **All ideas and input matters**
- **No judgement**
- **Severe Threat Parking lot**

**Not all the data will be available  
today**

**Think Big**

# System Opportunities for Extension

## *Roadmap work*

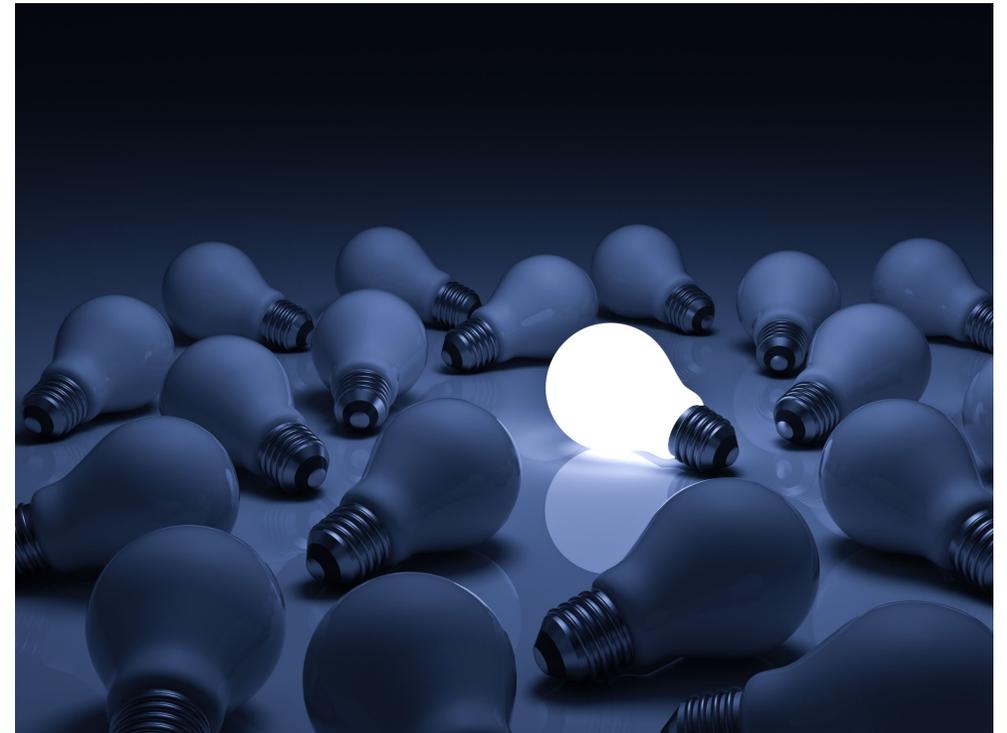
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**Ways of Working:** How do we see collaborations across geographic and programmatic areas?

**UMaine Extension Structure:** What structural and organizational changes will contribute to improved management/supervision/representation/advocation/

**Future of Programming:** From live and in person to asynchronous and virtual, how does Extension best meet its mission and stakeholder needs?

**How can Extension become one of the Top 10 places in Maine to work?**





Foster Center for Student Innovation



**INNOVATION**  
ENGINEERING®





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It's about an  
**ENGINEERING  
MINDSET**

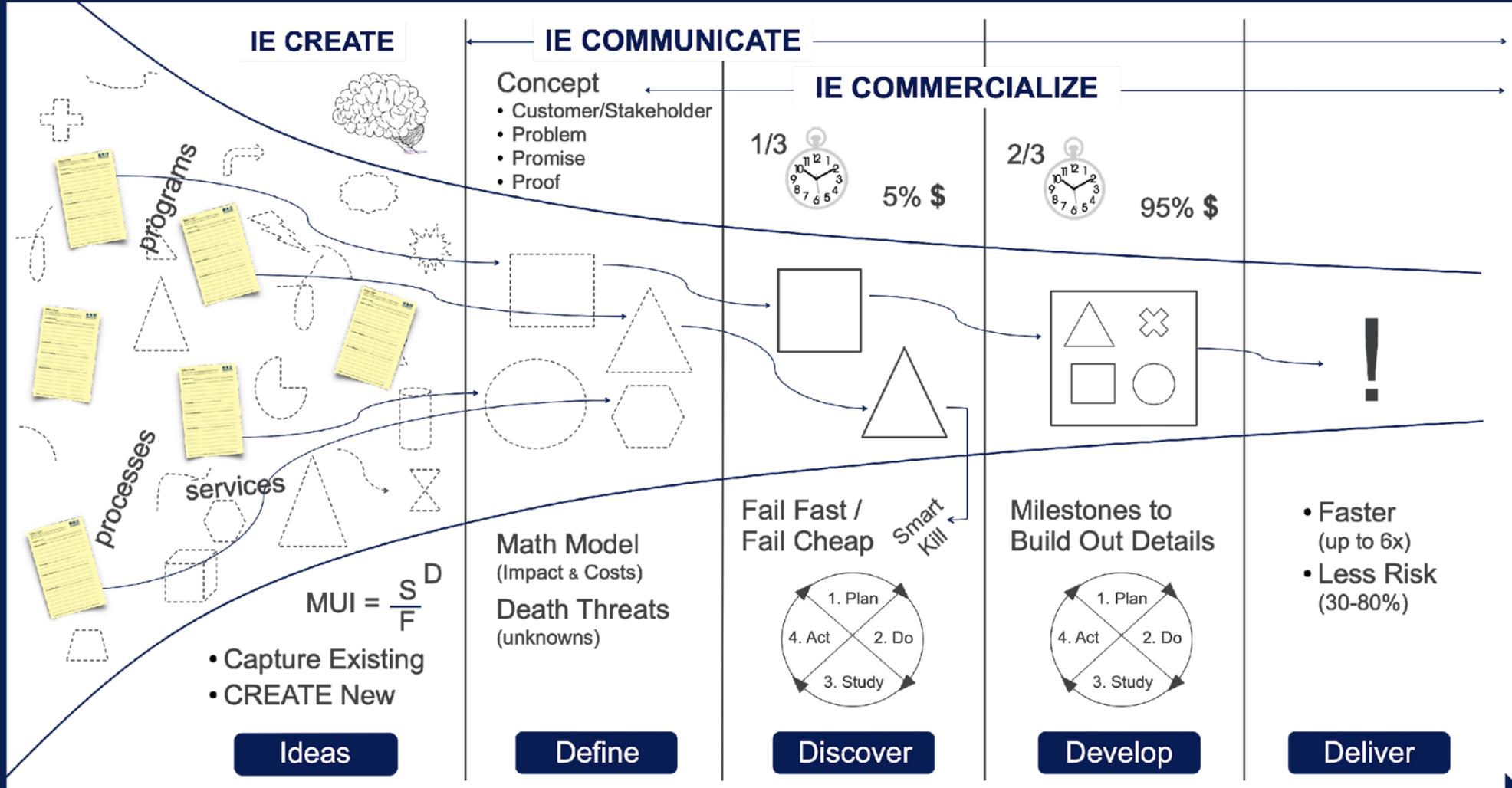
Disciplined, Systems  
Thinking

Data Informed Decision  
Making

# Innovation Engineering

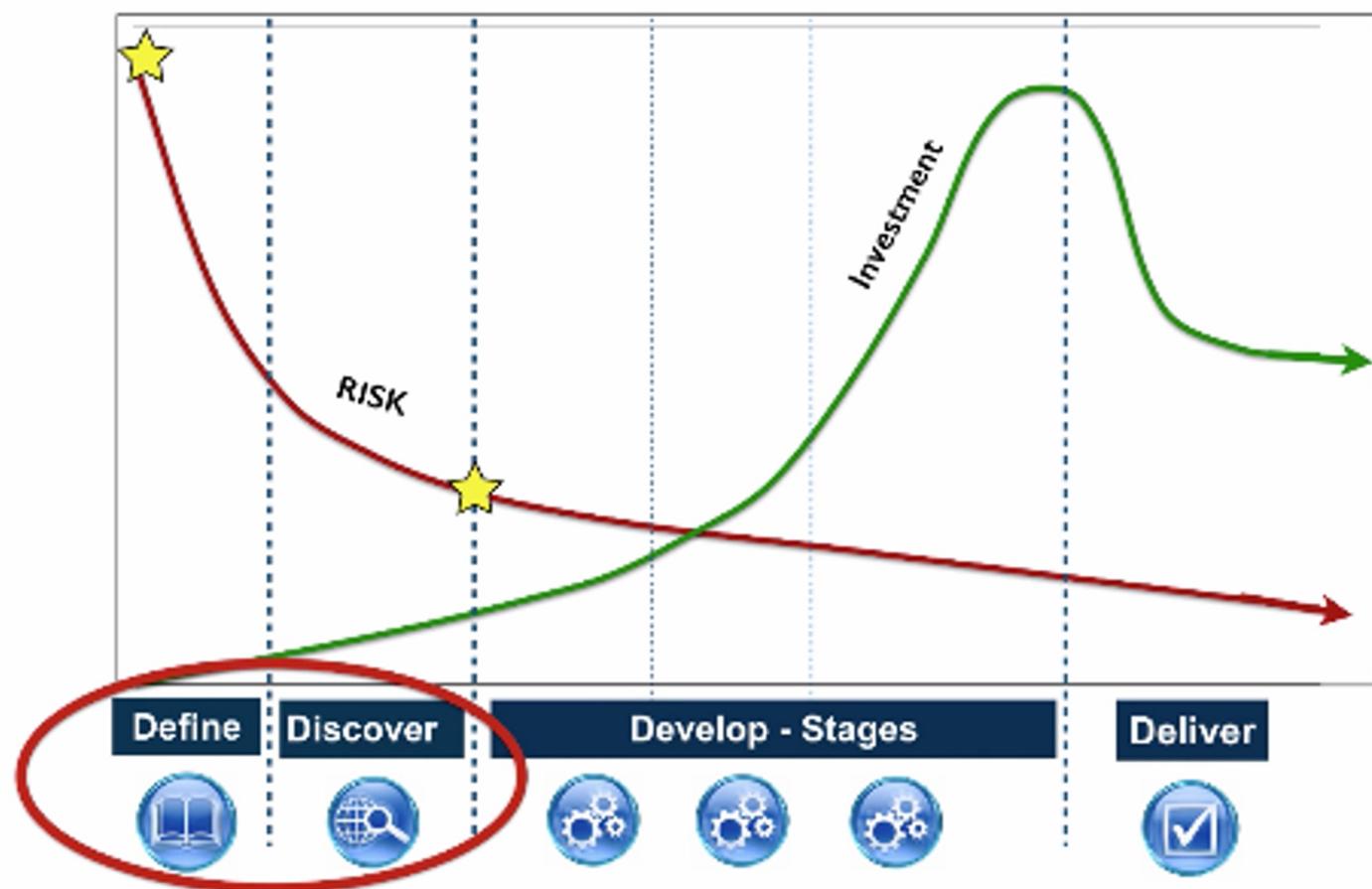
Define the Need

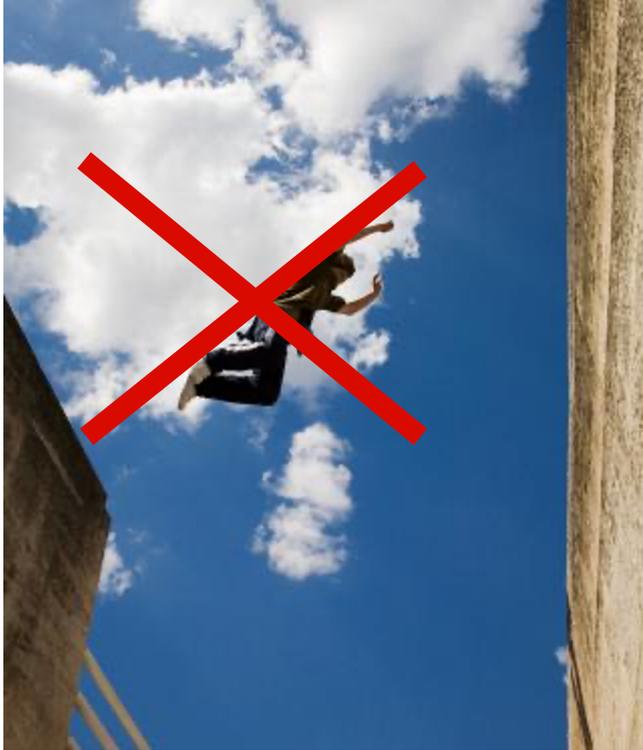
Very Important Opportunity/System



Weekly Project Coaching :: Monthly System Summits :: Quarterly Strategy Summits

## System Aim: Decrease Risk Before Making Investment





**Scary Leap  
Innovation**  
“All or Nothing”



**Fail Fast, Fail  
Cheap**  
Dissolve Risk with  
Small Steps  
Also known as  
“Learn Fast, Learn  
Inexpensively”

# Making Ideas Real

# Systems Thinking

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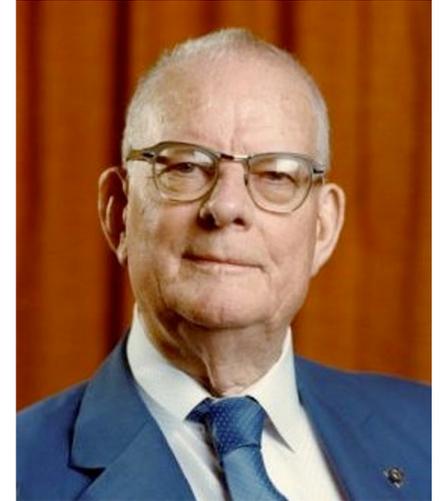
## Dr. W. Edwards Deming

American engineer, statistician, professor, author, lecturer, and management consultant

The W. EDWARDS  
Deming  
Institute

*“We must preserve the power of intrinsic motivation, dignity, cooperation, curiosity, joy in learning, that people are born with.”*

— Dr. W. Edwards Deming



The W. EDWARDS  
Deming  
Institute

*“It would be better if everyone worked together as a system, with the aim for everybody to win.”*

— Dr. W. Edwards Deming

Have an idea  
already?  
*Yellow Card –  
idea capture tool*



This Photo by Unknown Author is licensed under CC BY-SA

# Yellow Card

- Clearly communicate your idea



## Yellow Card®

A framework for clearly communicating innovations. Start from the front or back side of card. Fill in all that you can.

**Innovation Name:** \_\_\_\_\_  
*NAME that is suggestive of the benefit the innovation delivers.*

**NEW S HEAD LINE:** *In a sentence - what makes your innovation MEANINGFULLY UNIQ U.E. The first... , the only...*

**CU STO MER / STAKEH OLD ERS:** *WHO is the Customer who benefits most from this innovation? For system innovations who are the Stakeholders who will be most affected?*

**Customer PRO BLEM:** *WHAT Customer / Stakeholder PRO BLEM does this idea address?*

**Benefit PRO MISE:** *Make a SPECIFIC or numeric PRO MISE to the Customer / Stakeholders to SOLVE the problem listed above.*

**WHAT** the Innovation is and **HOW** it can deliver this promise is on the BACK of CARD.

**PROOF:** *WHAT is the Innovation we are offering to the Customer / Stakeholder & WHAT makes it possible for us to deliver on what we Promised?*

**Customer PRICE:** *First estimate / goal for price. System innovations- also consider costs in terms of time and energy investments.*

This is a good value when you consider: \_\_\_\_\_

**PASSION:** *This project is important to the organization and to me because...*

**D EATH THREATS:** *Major challenges or risks associated with this innovation.*

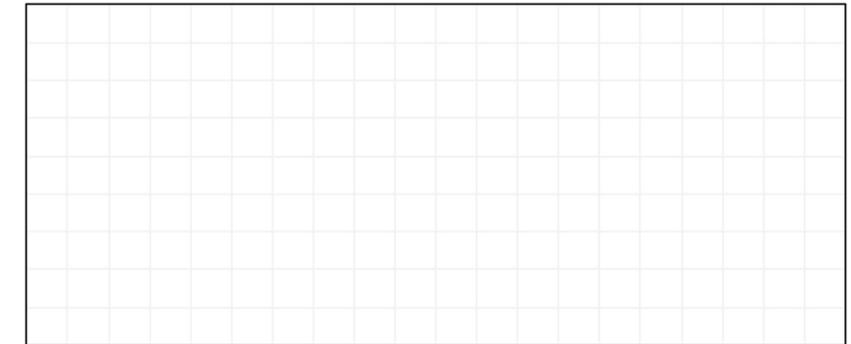
1. Death Threat \_\_\_\_\_

DO to learn more: \_\_\_\_\_

2. Death Threat \_\_\_\_\_

DO to learn more: \_\_\_\_\_

**Optional Invention Sketch or Math Game Plan**



Inventor's Autograph: \_\_\_\_\_ Date \_\_\_\_\_

WHAT is a  
system?



# System Innovation

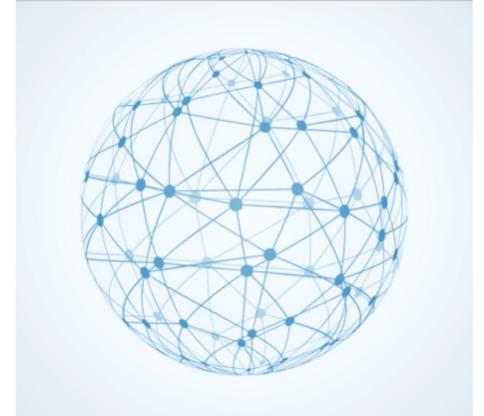
## PRINCIPLES

1. Appreciation for a System
2. Knowledge about Variation
3. Psychology
4. Theory of Knowledge (PDSA)

# Appreciation for a System

“A **SYSTEM** is two or more parts that work together to accomplish a **SHARED AIM**”

Dr. W. Edwards Deming



A **PROCESS** doesn't require different groups or departments to work together.



# Appreciation for a System

System results  
are the  
product of  
interactions.



# Appreciation for a System

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Optimizing the parts  
does not necessarily  
make a better whole.

You need to think  
about the interactions  
of the parts.



Credit: UNESCO UNITWIN

# ALIGNMENT



# Defining Strategy

**WHAT** we need

**& WHY** we need it



# LEADERSHIP Defines



## Blue Card®

**Purpose:** To maximize alignment between leadership's strategy and how employees invest available time & energy

- |                                                                                  |     |    |                                                             |     |
|----------------------------------------------------------------------------------|-----|----|-------------------------------------------------------------|-----|
| 1. Very Important Opportunity<br><i>Innovations for current or new customers</i> | ___ | OR | Very Important System<br><i>Innovations for how we work</i> | ___ |
| 2. Looking for LEAP Innovations<br><i>Potential for High Impact &amp; Risk</i>   | ___ | OR | CORE Innovations<br><i>Low Impact &amp; Risk</i>            | ___ |
| 3. Long Term Blue Card "years"                                                   | ___ | OR | Short Term Blue Card "months"                               | ___ |
| 4. This is for Entire Organization                                               | ___ | OR | for Specific Division/Department                            | ___ |

**VIO/VIS Name:** Give this VERY Important Opportunity a name that is suggestive of the mission.

# VIS

# Very Important Systems

**Narrative:** Tell the story of WHY it is VERY IMPORTANT that we focus energy on this Blue Card. The Narrative should be so clear that if employees get no further direction they will be motivated to work on this Blue Card and will know exactly what the Leadership's strategic and tactical intent is.

For How We Work  
Creating new capabilities  
that enable...  
Growth, Cost Savings,  
Performance, Quality...

# TEAM invents HOW to solve

**Blue Card®**  
INNOVATION ENGINEERING

**Purpose:** To maximize alignment between leadership's strategy and how employees spend available time & energy

1. Very Important Opportunity (relevant to career or measurement)	OK	Very Important System (relevant to time we work)
2. Looking for LEAD innovations (relevant for High Great & Best)	OK	CRUI Innovations (low Great & Best)
3. Long Term Blue Card "name"	OK	Show Your Blue Card "results"
4. This is for future Organization	OK	for Specific Division/Department

**VIO/VIS Name:** Give the VERY Important Blue Card a name that is suggestive of the mission.

**Narrative:** Tell the story of WHY it is VERY IMPORTANT that we focus energy on this Blue Card. The Narrative should be so clear that if employees get no further direction they will be motivated to work on this Blue Card and will know exactly what the Leadership's strategic and tactical intent is.

**Yellow Card®**  
INNOVATION ENGINEERING

A framework for clearly communicating innovations  
Start from the front or back side of card. Fill in all that you can.

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**NEWS HEADLINE:** In a sentence, what makes your innovation MEANINGFULLY UNIQUE?

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WHAT the innovation is and HOW it can deliver this promise is on the BACK of CARD.

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# Strategic Mission:

***“Finish the sentence with ONE Mission. “We need ideas for \_\_\_\_\_”***

*"I believe that this nation should commit itself to achieving the goal, before this decade is out, of landing a man on the moon and returning him safely to the earth."*

- President Kennedy
- May 25, 1961



**Strategic Mission:** *Finish the sentence with ONE mission, “We need ideas for \_\_\_\_\_”*

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**Strategic Exclusions:** *Ideas or types of ideas that we are NOT interested in.*

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**Tactical Constraints:** *Design, time, resources, investment, regulations, people, etc., etc.*

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**Exploration Areas:** *Areas for stimulus mining when working to accomplish the mission including any relevant live project work that is already going on.*

1. 

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2. 

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3. 

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Autograph: \_\_\_\_\_ Date: \_\_\_\_\_

**Strategic Exclusions: Ideas or types of ideas that you are NOT interested in.**

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**Design, time, resources,  
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1. 

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2. 

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3. 

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Autograph: \_\_\_\_\_ Date: \_\_\_\_\_

**Exploration Areas: Areas for research (stimulus mining) when working to accomplish the mission including any relevant live project work that is already going on.**

**Strategic Mission:** *Finish the sentence with ONE mission, "We need ideas for \_\_\_\_\_"*

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1. 

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2. 

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3. 

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Autograph: \_\_\_\_\_ Date: \_\_\_\_\_

# Group Blue Card

- New Blue Card

OR

- Modify an existing Blue Card

WHAT is an Innovation?



# **Meaningfully Unique**

# **Innovations**

# **Solve Problems**



**Relevant**  
**Purposeful**  
**Valuable**

**Meaningful**

**Unique**

**Novel**  
**Non-obvious**  
**Unexpected**

If you are not

**Meaningful**

**Unique**

you better be cheap

**Really Cheap**

# A Product or Service is Meaningfully Unique

when.....

*Customers/Clients are willing to change behavior  
and/or pay more money for it.*



# A SYSTEM Innovation is Meaningfully Unique when...

Your Co-workers & Organization are willing to Invest Time, Energy, and Money to implement



TIME



ENERGY



MONEY

HOW to Innovate?



$$E = \frac{S^D}{F}$$

Meaningfully  
Unique ideas =  
(Eureka! ideas)

Explore Stimulus

Drive out Fear

Leverage  
Diversity

# Value of Stimulus

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## Stimulus feeds the brain

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**Stimulus Available**

**# of practical ideas invented**

**Low Stimulus**



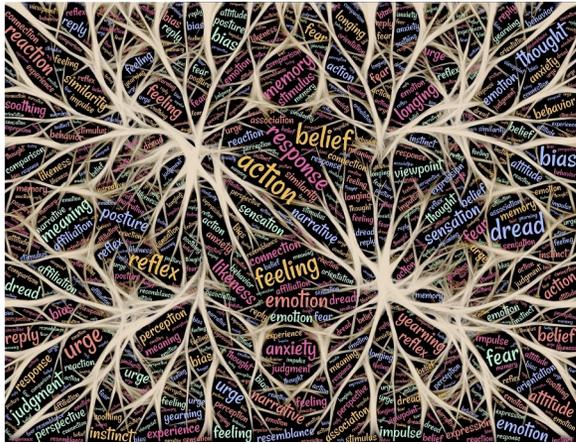
**Medium Stimulus**



**High Stimulus**

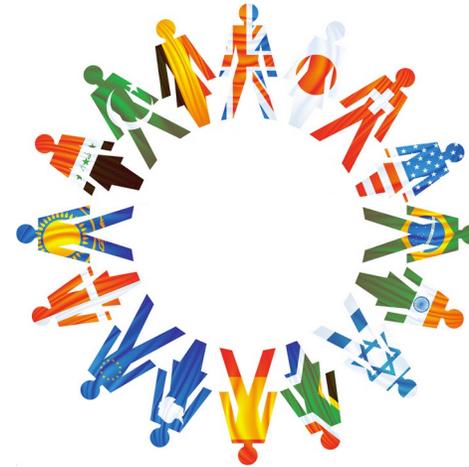


# Diversity means people who think differently from you

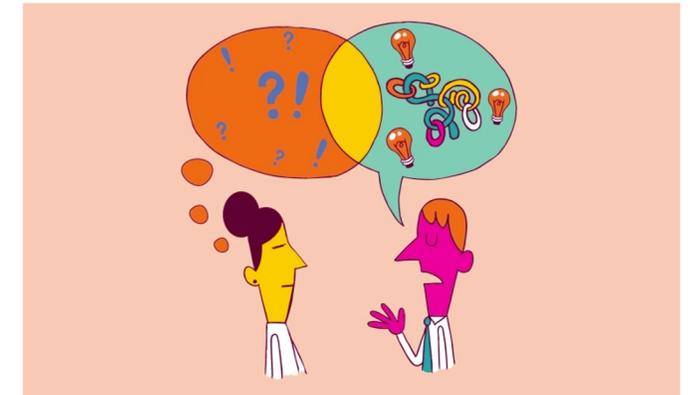


Mindset

Backgrounds



Culture



Maybe Even  
Who You  
Disagree With

# Traditional Model

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Individual “~~Brainstorming~~”

Draining”

Before



After



**Suck Method**

Uses Your Brain Like a Library

# Think of your brain like a **COMPUTER**

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**Stimuli** →

**Stimuli** →

**Stimuli** →

**Stimuli** →



→ **EUREKA**

→ **EUREKA**

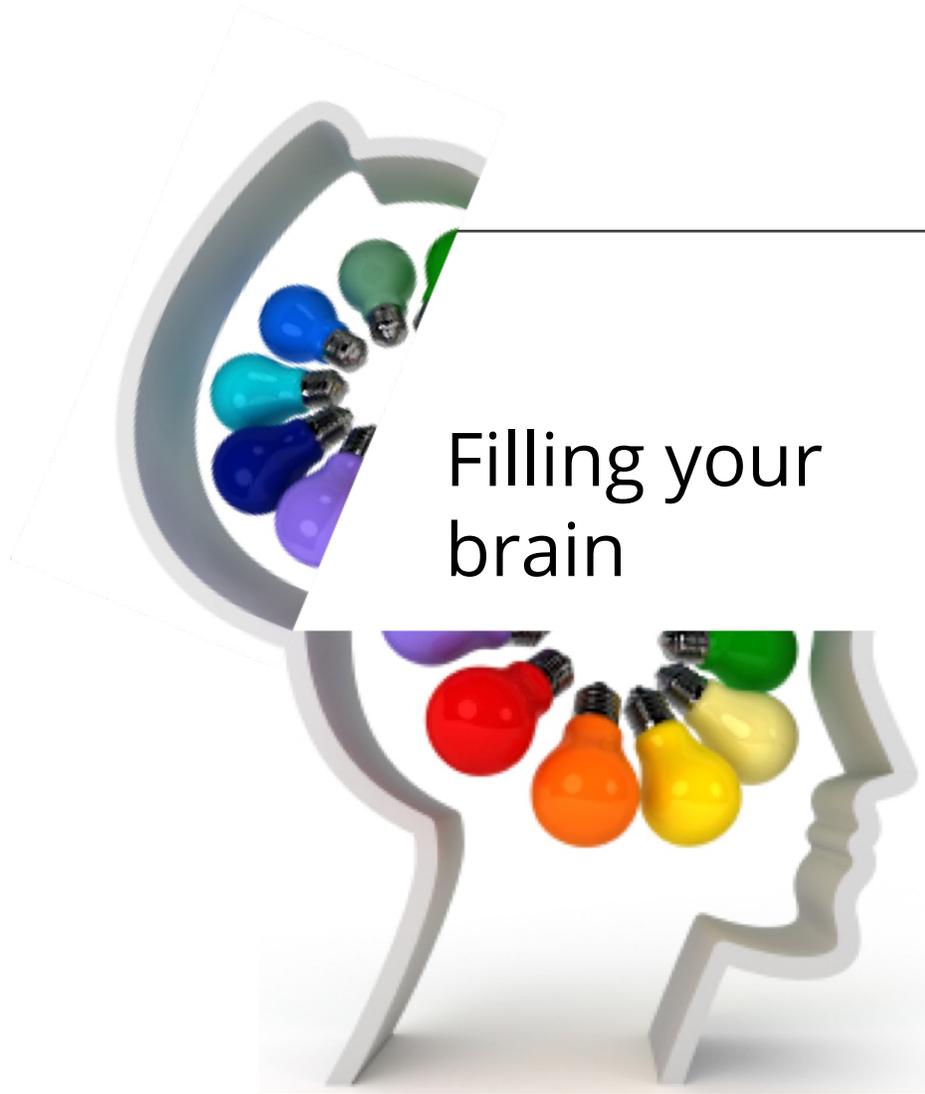
→ **EUREKA**

→ **EUREKA**

**Stimulus sets off a CHAIN  
Reaction!!!**

# Stimulus Mining

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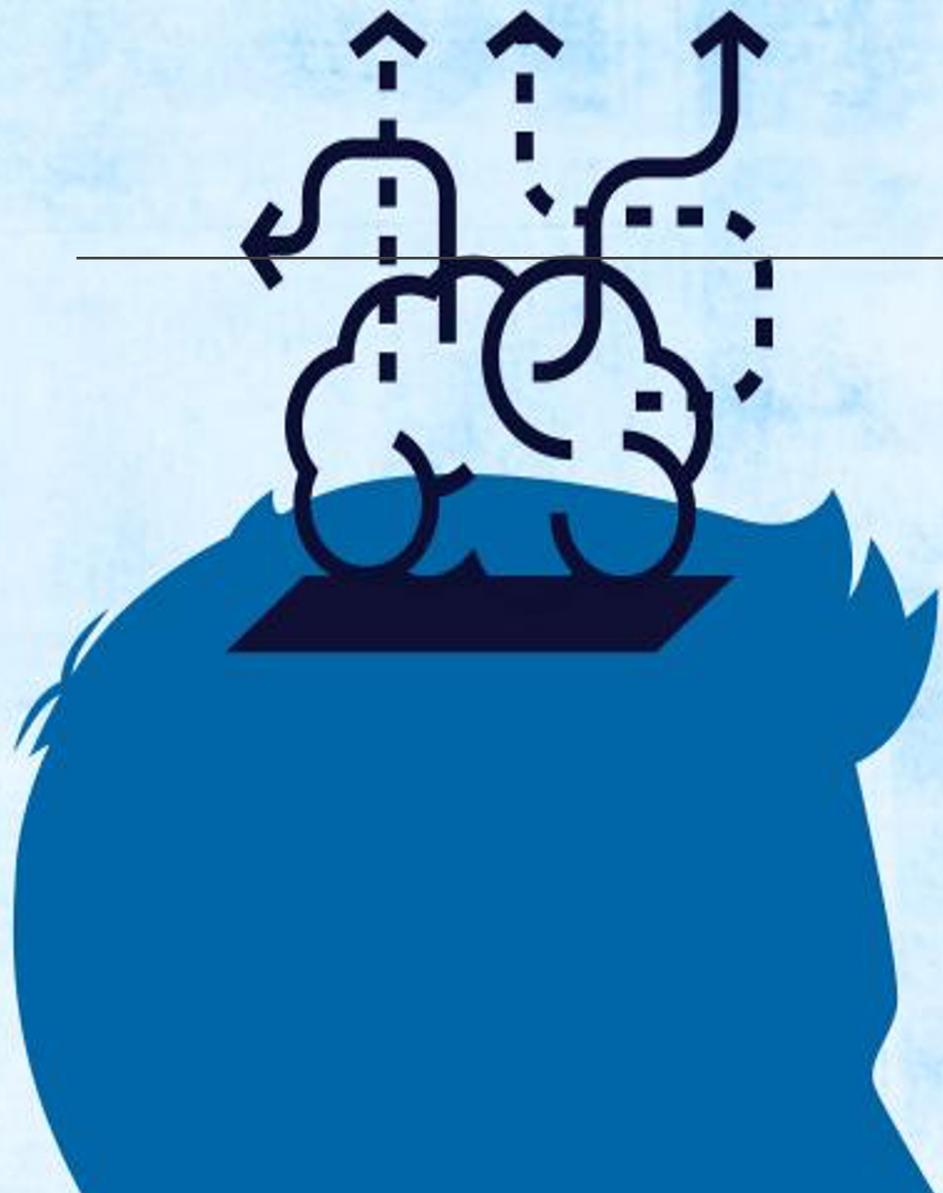
So that you can make more connections



# 6 Categories for Stimulus Mining



Help us get to LEAP ideas



# Innovation Tools

Stretch Mining

Matrix Mixing, Po, Analogy,  
Take Over Time

# Future mining

Read about or imagine possible or predicted MEGA SHIFTS related or unrelated to your Industry

- Possible or Predicted MEGA SHIFTS in Demographics  
*Ex: shift to in stakeholder age*
- Possible or Predicted MEGA SHIFTS in Laws, Regulations  
*Ex: Green energy in all state or federal buildings*
- Possible or Predicted MEGA SHIFTS in Societal, Cultural, or Stakeholder Behavior  
*Ex: Only social media educational resources ie: TikTok videos*
- Possible or Predicted MEGA SHIFTS in Technology  
*Ex: VR becomes dominate way to learn*

For each Mega Shift.

1. Consider the possible CONSEQUENCES of that shift occurring in the future.
2. Consider the OPPORTUNITIES for innovation should that shift occur.



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**Benefit PROMISE:** *Make a SPECIFIC or numeric promise to SOLVE this problem.*

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**WHAT** the Innovation is and **HOW** it can deliver this promise is on the BACK of CARD...

# Yellow Card

Clearly defining your idea  
or innovation

# Define Your Idea

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Build confidence by making the unknown known

Define the idea from the customer's perspective



Stakeholder **PROBLEM**  
Benefit **PROMISE**  
Innovation/Service **PROOF**

# Problem

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Meaningfully Unique  
Innovations

solve

**Customer or  
Stakeholder**

problems



Problems that **MATTER**

Problems that are **REAL**

Problems that are **SPECIFIC**

# Promise

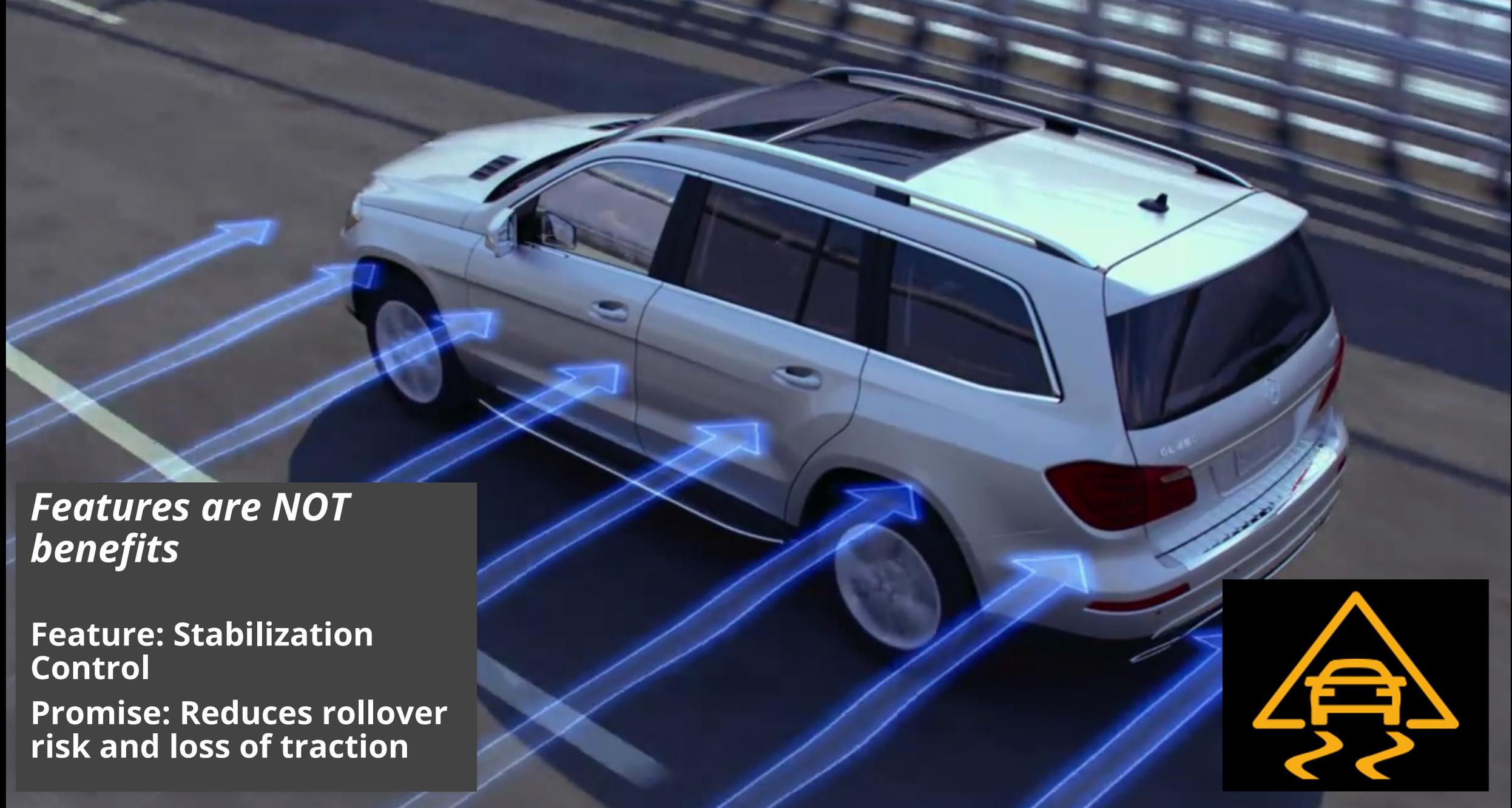
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What benefit will the stakeholder receive, enjoy/see value, experience in exchange for their time, energy and money?

Problem



Promise



***Features are NOT  
benefits***

**Feature: Stabilization  
Control**

**Promise: Reduces rollover  
risk and loss of traction**



# Proof

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## **Tell a story:**

How are you able to deliver on the promise?

## **Hints:**

**Be clear** – no jargon, explain how a smart person not in your field would understand it

**Be specific** – explain how it works in simple language (recipe logic)

**Quantify your benefit and/or**

**proof:** specific numbers help customers visualize and understand the benefit and how it works

**Research finds that you should**

**Write so that a  
fifth grader can understand  
your idea**



# Translating ideas into a written concept *Is the FASTEST & CHEAPEST prototype on Earth.*

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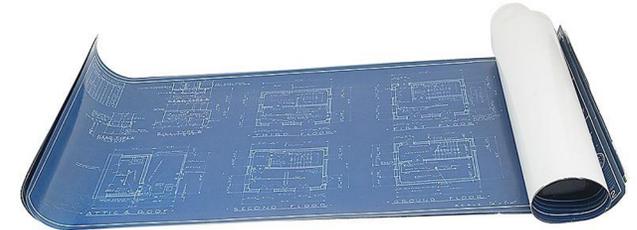
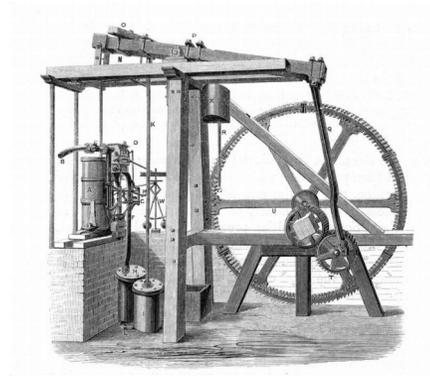
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\_\_\_\_\_  
\_\_\_\_\_

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\_\_\_\_\_  
\_\_\_\_\_

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\_\_\_\_\_  
\_\_\_\_\_

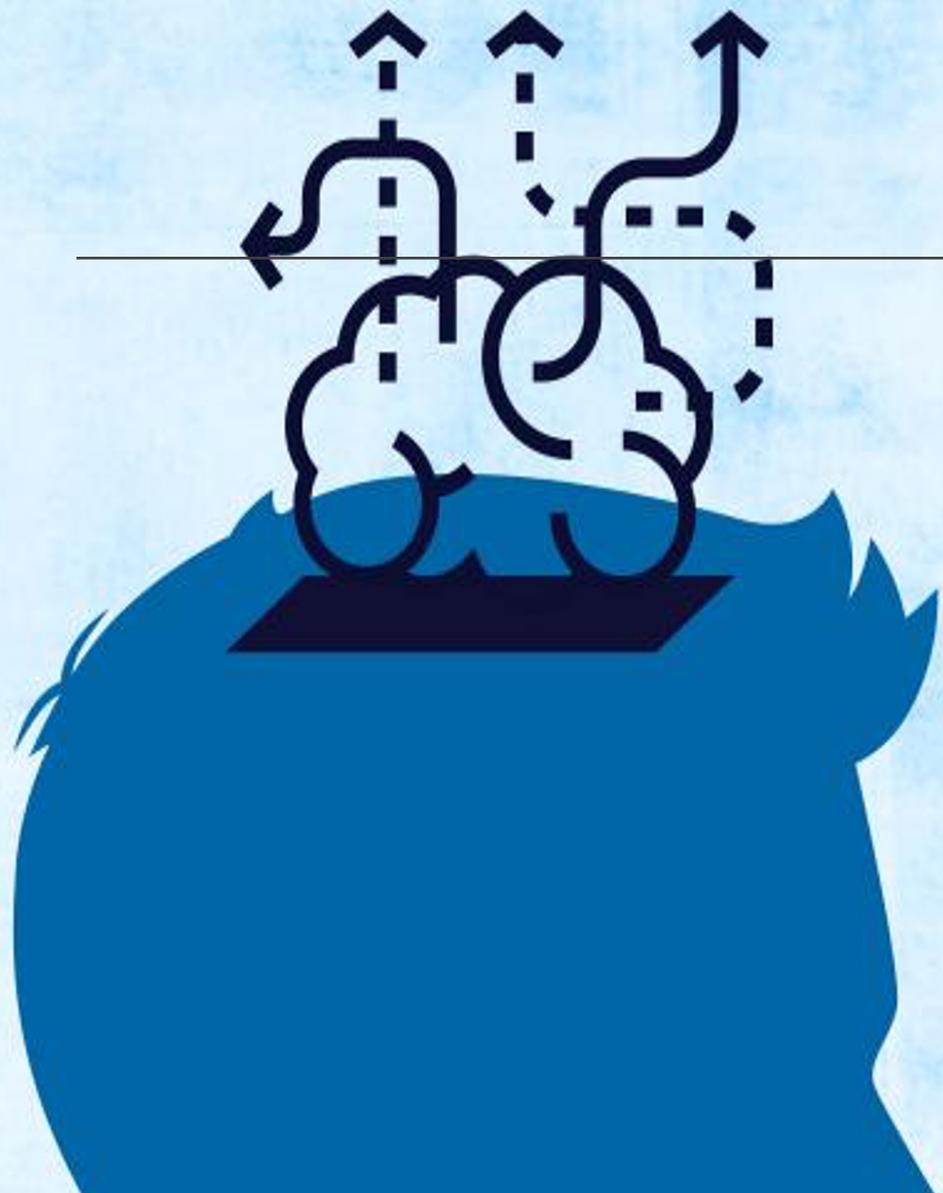
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\_\_\_\_\_  
\_\_\_\_\_

WHAT the innovation is and HOW it can deliver this promise is on the BACK of CARD.



# Value Proposition

Benefit Promise + why your solution is better  
than other solutions



# Commercialization

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Reduce risk early in the  
process

# Fermi Estimation

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Gain confidence by rapidly  
understanding the numbers

# Why Estimating?

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- Makes the Unknown Known
- Reduce Uncertainty
- Build Confidence
- Provides Focus

# Why Estimating?

---

- Makes the Unknown Known
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# Fermi Estimation Process

*Estimating when you don't know much*

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*Calculated approximation, which is useful even if the data is incomplete and uncertain*

**Step 1: Deconstruct Challenge into a few Key Factors You Can Estimate**

**Step 2: Estimate Factors & Document Your Reasoning**

**Step 3: Do Simple Math & REPEAT with the help of Mining**



**Scary Leap Innovation**  
“All or Nothing”



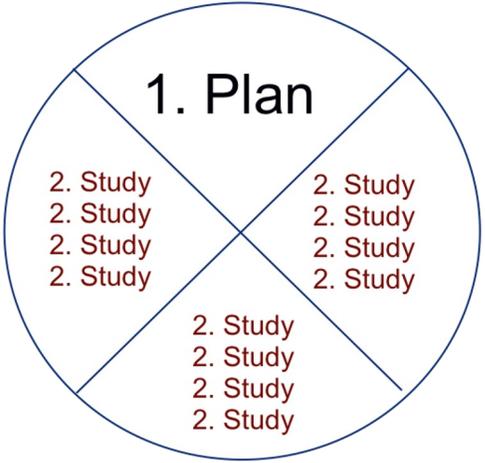
**Fail Fast, Fail Cheap**  
Dissolve Risk with Small Steps

# Making Ideas Real

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# Old World

**“Proper & Mature”  
FEAR Reduction System**  
Expensive & Slow



# New World

**Plan-Do-Study-Act**  
Fail FAST Fail CHEAP



# Fail Fast, Fail Cheap Principles

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Rapid Cycles of Learning

Focus on the Biggest Problems First

Simultaneous Engineering





Build Courage  
By Making It  
**EASY... to Run**

Experiments

# Making Ideas Real

---

# Focus on Severe Threats

Small  
Problem

Small  
Problem

Small  
Problem

Results in  
idea failure  
Severe  
Threat

# Focus on Severe Threats

*“Teams like to address easy issues first. At P&G we have flipped the sequence. Teams must identify so-called ‘killer issues’ - problems that must be solved for the innovation to succeed.”*

A.G. Lafley

Retired CEO

# Making Ideas Real

Results in  
idea failure  
Severe  
Threat



Manageable  
Threat

Experiments that can be run in one week or  
less  
Fail FAST, Fail Cheap

# Simultaneous Engineering



**Innovation is about “Whack-a-Mole”**



**PLAN:** What does success look like for this cycle?

**DO:** A specific activity to accomplish the PLAN.

**STUDY:** Stop and Think, what did you learn?

**ACT:** What is next?

**PLAN:** What does success look like for this cycle?  
To solve / resolve the Death Threat?



What do we want to achieve?

Where are we going?

How will we know we got there?

What is our organization's standard?

What is the desired end state for the

PDCA Cycles we will be completing?

**DO**: a specific activity to accomplish your plan

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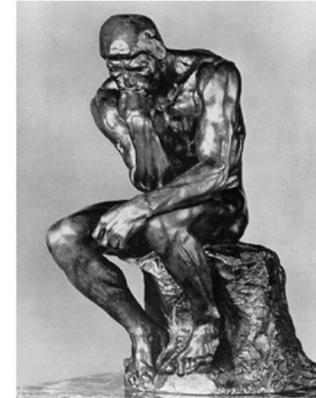
**We believe that doing the following work will help us address the PLAN.** When will we stop and **STUDY** results?

- *Describe the work, activity, or experiment that will help to address this Death Threat or Milestone.*
- *What specific tasks do you need to accomplish to reach your desired outcome?*

**STUDY:** Stop and Think, what did you learn?

**What did we learn?**

**THINK**



**First Answer is YES or NO**

**Did We Achieve/Solve/Resolve Plan**



**Second Answer is MORE IMPORTANT**

**WHY Did it work? WHY Didn't it work?**

# **STUDY:** Stop and Think, what did you learn?



- Document **LEARNING** versus the **PLAN**
- Not “**ACTIVITIES**” in the abstract
- Study the actual result the real **NUMBERS**
- Compare versus the **PLAN**

# ACT: What is next?

“Based on what was learned...”



**Yellow Card-**  
A framework for clearly communicating innovations.  
Start from the front or back side of card. Fill in all that you can.

**INNOVATION ENGINEERING**

**Innovation Name:** \_\_\_\_\_  
NAME that is suggestive of the benefit the innovation delivers

**NEWS HEADLINE:** In a sentence - what makes your innovation MEANINGFUL/ UNIQUE.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**CUSTOMER / STAKEHOLDERS:** WHO, specifically, benefits from this innovation?  
\_\_\_\_\_  
\_\_\_\_\_

**Customer/Stakeholder PROBLEM:** WHAT problem, specifically, does this idea address?  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Benefit PROMISE:** Make a SPECIFIC or numeric promise to SOLVE this problem.  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

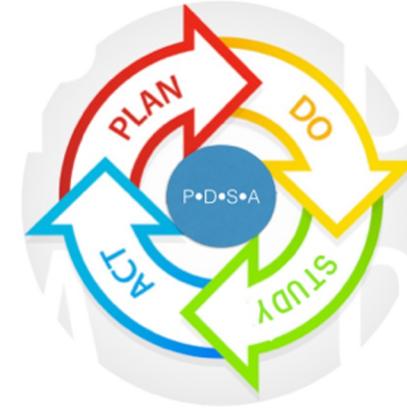
WHAT the Innovation is and HOW it can deliver this promise is on the BACK of CARD...

Change **Idea** or **Yellow Card** to...

Change **Math** to...

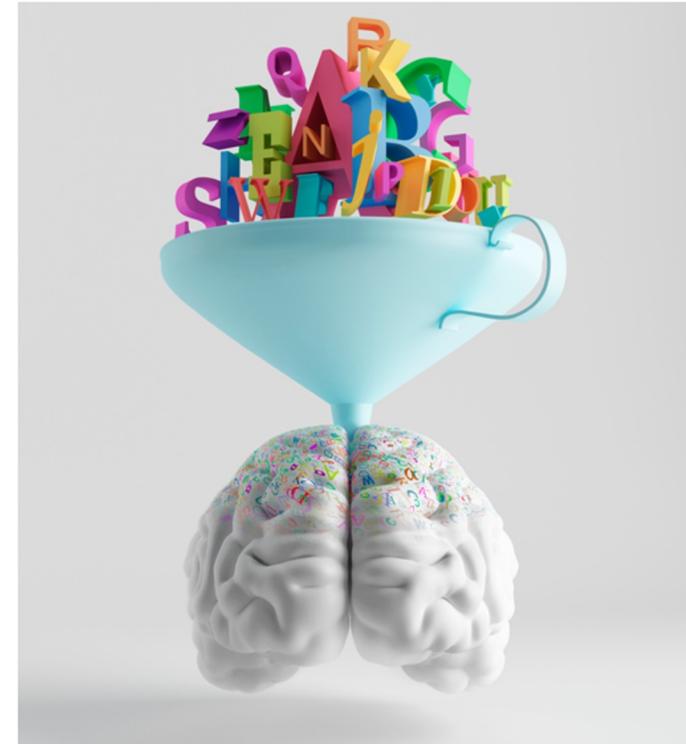
# Critical

**Plan, Do  
Study, Act**



# Documentation

Builds Collective Brainpower

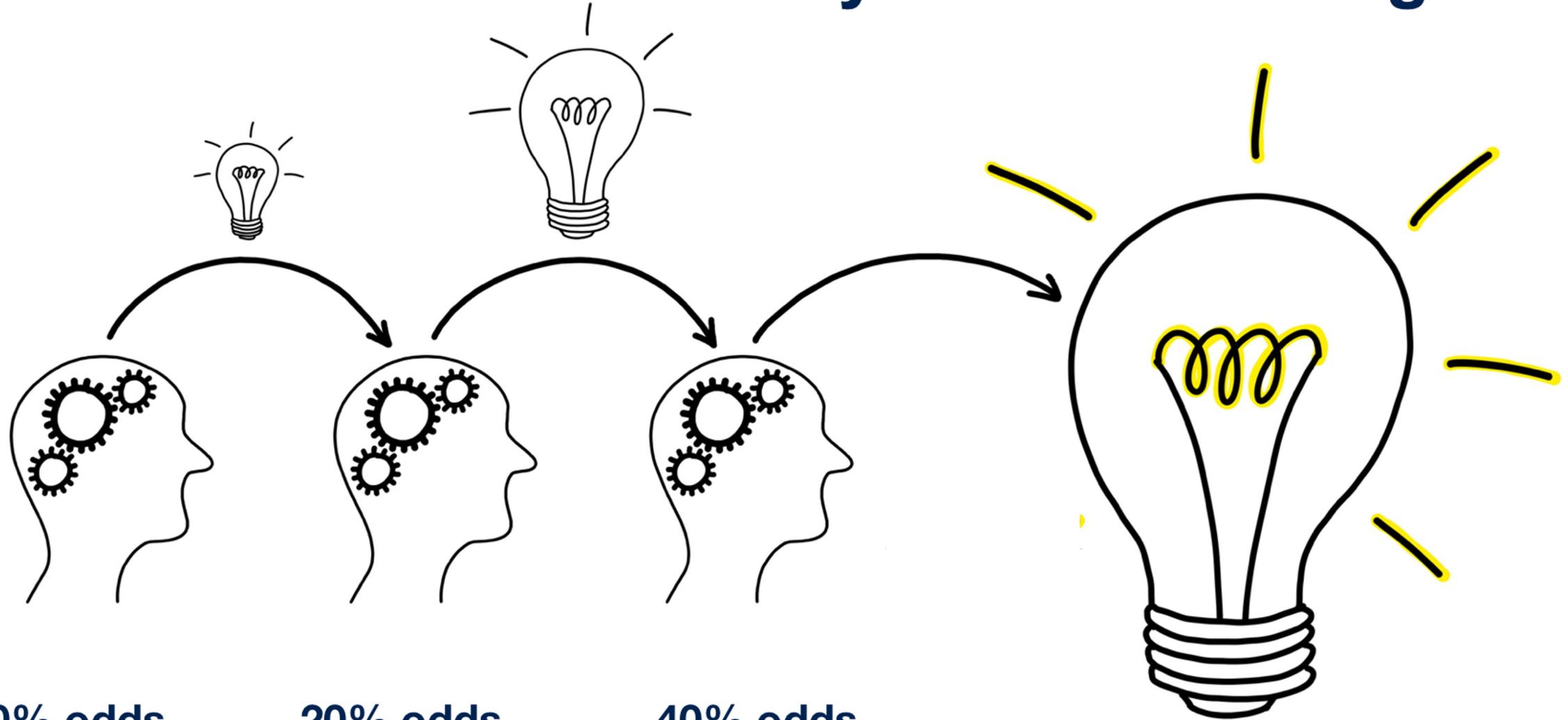




# **First Learning Cycle Is Often to Determine If the DEATH THREAT is really a Death Threat**

Because the idea is new  
we often over react  
thinking there is a problem  
when in truth there isn't.

# LESSON: Trust In The Cycles of Learning.



**10% odds**

**You fail but get  
twice as smart.**

**20% odds**

**You fail but get  
twice as smart.**

**40% odds**

**You fail but get  
twice as smart.**

**80% odds**

**You WIN!**