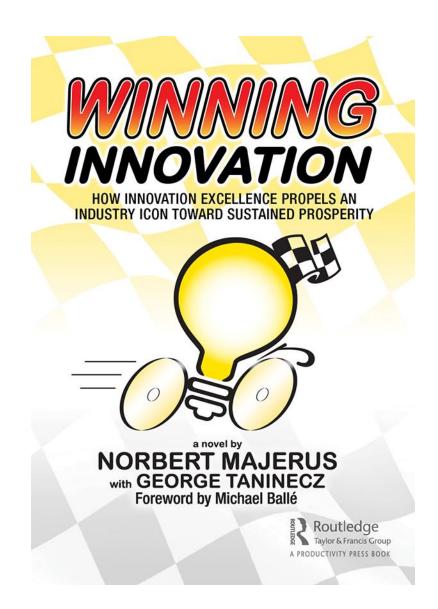
Building a Lean Culture of Innovation

Norbert Majerus

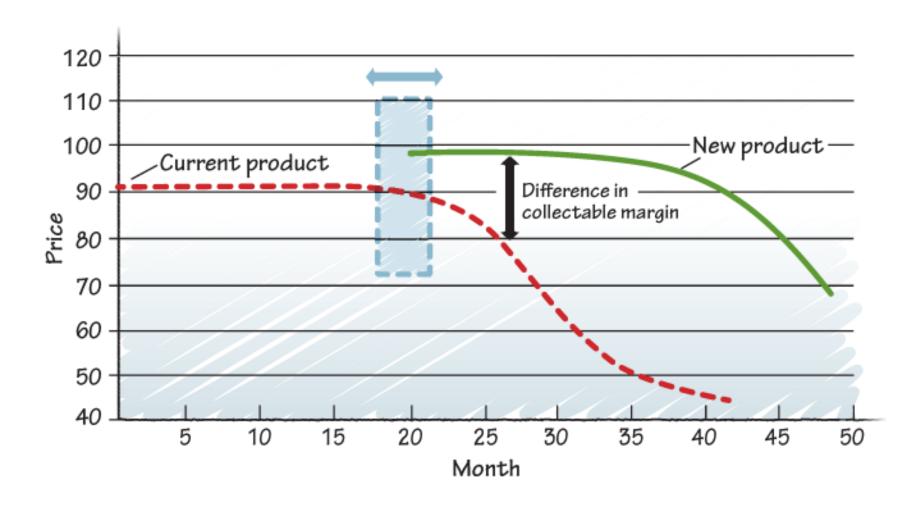


From the Stories to the Principles

 Story – explains what happens and how it was done one time

 Principles = universal, timeless – work everywhere and always

Winning in Innovation



My Personal Experience

Is it harder to sell a new idea for a product or for a new process?

- The "selling" is the same in both cases
 - Disruptive innovation is hard to sell
 - So are disruptive new processes
- My leadership would not wait for small kaizans and small innovation – (and I am glad) – try everything except pairing

My Personal Opinion

- If a company is successful with innovation fails at it, always comes down to CULTURE
- Culture (process and values) is how we do things how we have always done things (how we all got to we're we are) and how we set ourselves up to continue to do lings (what we do to assure our [personal] future). >> Robustiess McKinsey anybody can get assigned to anything
- Lean/opex is a great dation for an innovation culture

Lean and Innovation Today

Broad sense

- GLOBAL Economy
- Higher complexity, shorter product life cycles, more opportunities, high connectivity, less resources
- Economic growth is largely a function of:
 - Population Growth
 - Market Growth
 - Productivity/Efficiency >>> Lean Manufacturing
 - Innovation >>> Lean Innovation

We innovate to create a better future for everybody

Lean Culture

The *Shingo Model*™ is not just another initiative; it is a new way of thinking.

Click on the links below to learn more.

Principles

The *Shingo Guiding Principles* are the basis for building a sustainable culture of organizational excellence. In the Guiding Principles diamond, the principles are divided into three dimensions: Cultural Enablers, Continuous Improvement, and Enterprise Alignment. Each dimension and principle are presented in further detail below.

Tools

Systems

Results

Culture



Characteristics of a lean culture

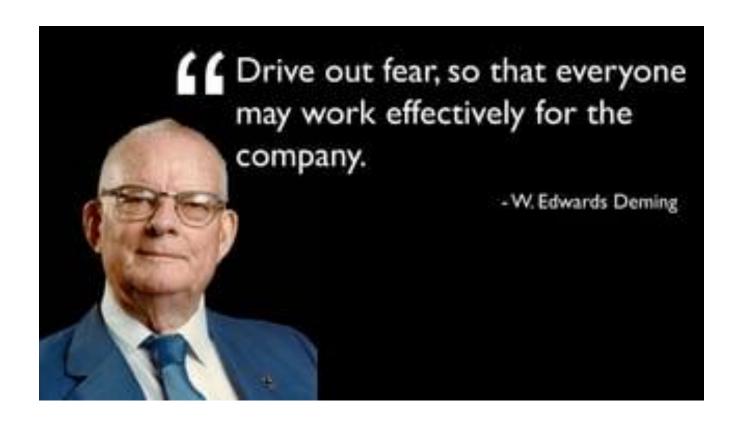
• Built upon:

- Respect for all people
- Humble leadership
- Engagement, empowerment, trust
- Continuous improvement
- Sustainability

Cultural Elements Critical to Innovation

- Education (about innovation)
- Strategy/Metrics
- Collaboration
- Eliminate Fear
- Agility and speed Later
- Create the environment
- Talent Management

Real FEAR, not complacency, taking a chance.....



Fear

- Fear of personal career consequences
- Augmented by change, habits, little to gain lot to lose, pressure to meet daily targets
- REMEDY
 - Fear can be managed by setting the right company goals, (including behaviors) and maybe rewards
 - Lean culture promotes respect, engagement, trust, all help reduce fear

Create the environment

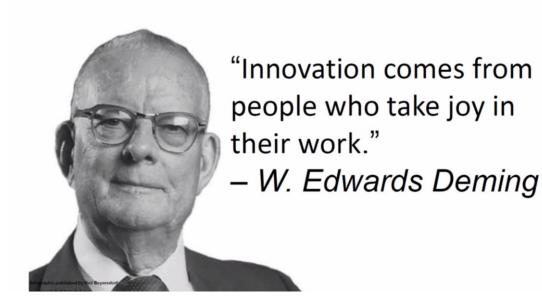
Offices – Goodyear vs google

The box in my book

Moonshine

Talent Management

- Education!!!
- Motivation
- Left/right brain
- The round peg in the square hole
- Engagement
- The corporate innovator
- Entrepreneurship/initiative
- Rewards/career
- Leadership Behaviors



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"Joy, Inc. is a marvelous title, sure. But this masterpiece delivers and delivers and delivers. I beg you to keep taking deep breaths and imagining the world that Richard Sheridan reveals. Then . . . give it the best shot you can. I do truly beg you."

—Tom Peters, coauthor, In Search of Excellence



How We Built a
Workplace People Love

Richard Sheridan

Cofounder and CEO, Menlo Innovations

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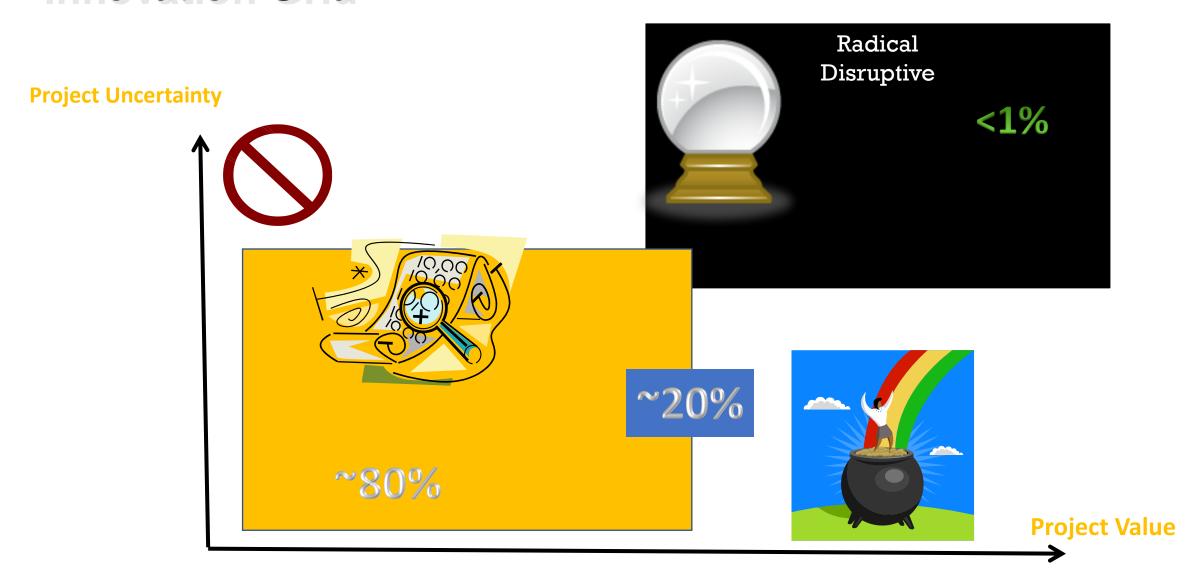
INHERENT Motivation (at work)

- AutonExpense

Innovation Principles

- How innovation works
- The Innovator's dilemma
- Innovation Killers
- Interference with Lean
- Risk Management later
- Accounting skip
- The MOTHER of Innovation later
- Principles of Industrial Creativity later
- Opportunities later
- Rethinking Customer Value combine with dilemma

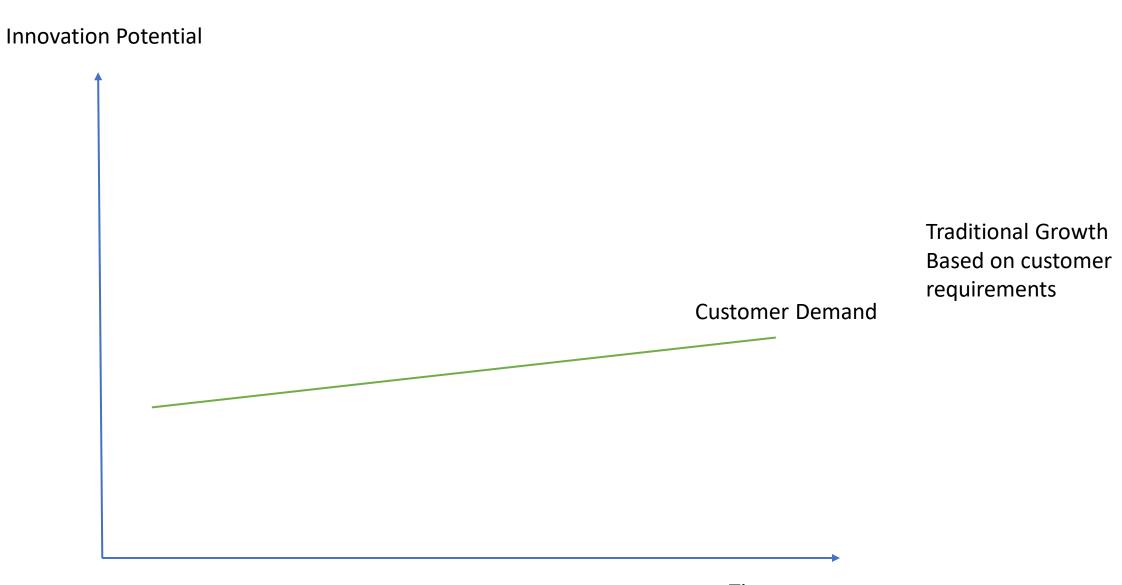
Innovation Grid



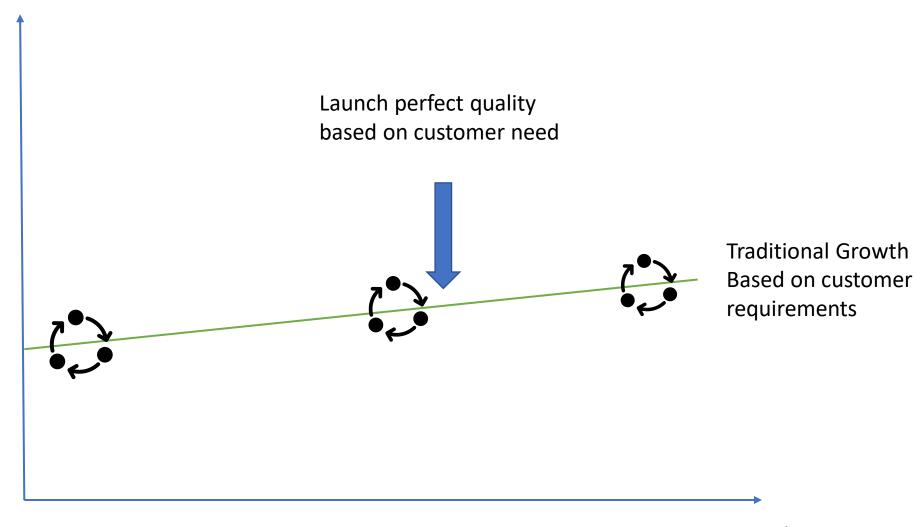
Innovator Dilemma

- Well researched/documented (Clayton Christenson)
- Successful companies least likely to succeed with disruptive innovation
 - They are comfortable with their current position and afraid to change
 - They invest in what their current customers want even if they want faster horses
 - They rely on facts and data which are not available for disruptive innovation.
 Same for internal processes

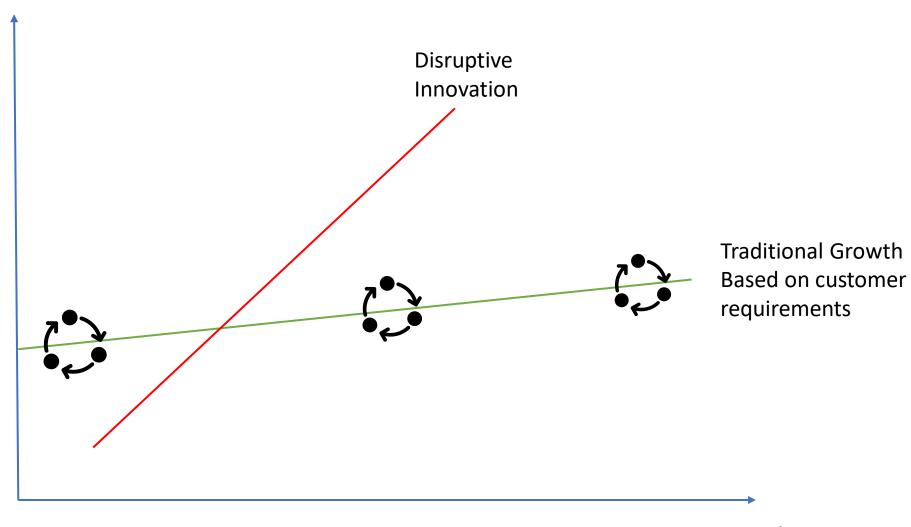
Could this be the reason for the Toyota/Tesla gap



Growth

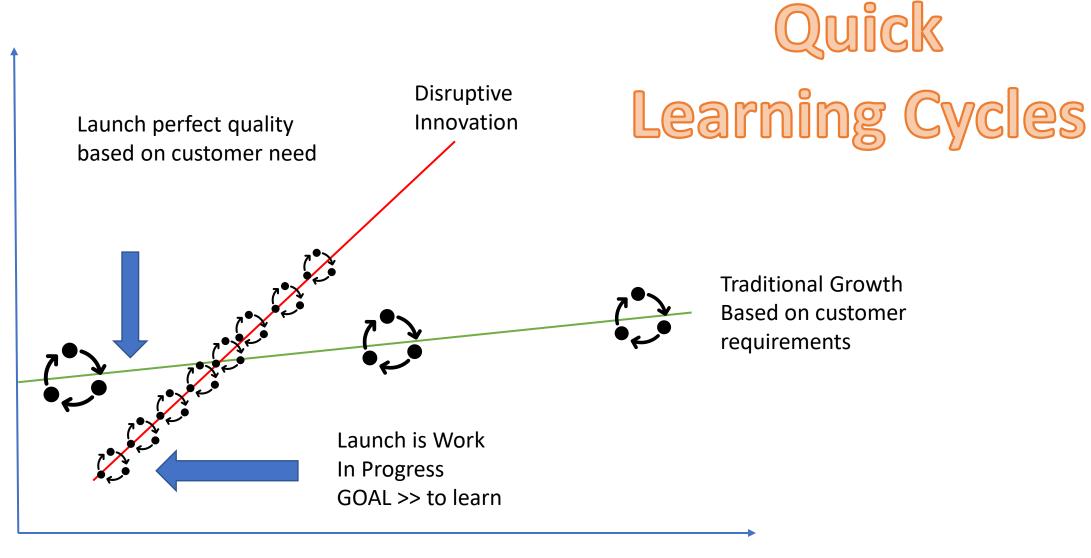


Growth



Time

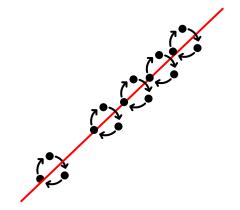
Growth

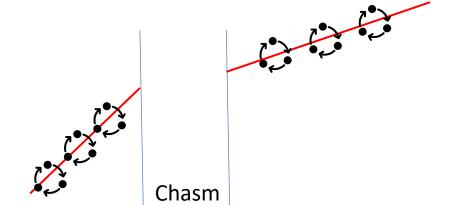


Time

Disruptive Innovation

Customer Value Growth







ROI & When can I get it?

The Disruptors

- Happy with the small market
- Can afford low/no income for a while
- Performance, reliability, convenience ... price
- Move up the market

Not only START-UPS

Root Cause and Remedy

- Lack of innovation culture
- Christensen: Managers worried about their OWN careers shy away from disruptive innovation and play the game in the culture that got them to their position.

- Remedies
 - Education Could include patterns of how successful companies did it
 - Company strategy
 - Eliminate fear

Create Value for the Customer

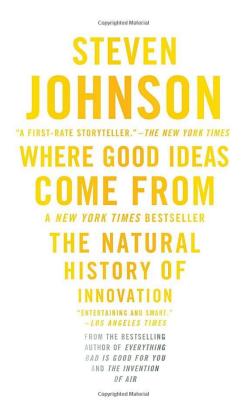
- Remains valid
- "value" may change but people do not
- Customers will leave in an instant for the better and cheaper product
- Even established companies do radical innovation if there is an explicit customer demand

Focus on need AND opportunity

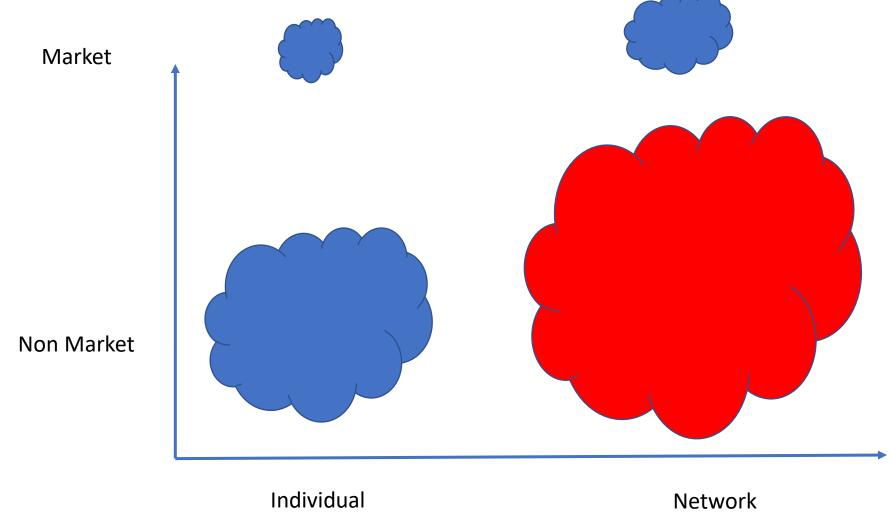
7 (Industrial) Creativity Principles

- The Adjacent Possible
- Liquid Networks
- The Slow Hunch
- Serendipity
- Error
- Exaptation
- Platforms





Innovation Evolution



Necessity is the mother of invention Invention is the mother of necessity

Ideas must connect with needs and opportunities



Find

Create

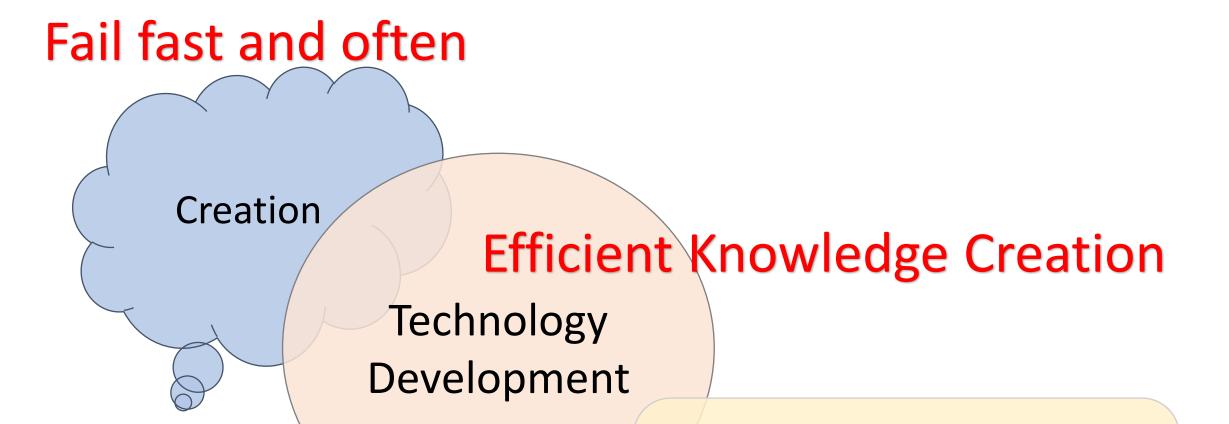
Look For

- Changes in
 - Economy
 - Business
 - Culture
 - Fashion
 - •
- NEEDS
 - Immediate customer
 - Industry
 - Environment
- Knowledge, know-how, technology
 - What you have
 - What you need

- Demographics
 - Change fast
- Perceptions
- Unexpected
- Incongruities
- Government/laws

......

Find
Jump
Capture
Change



Mass Design Failure is not an option

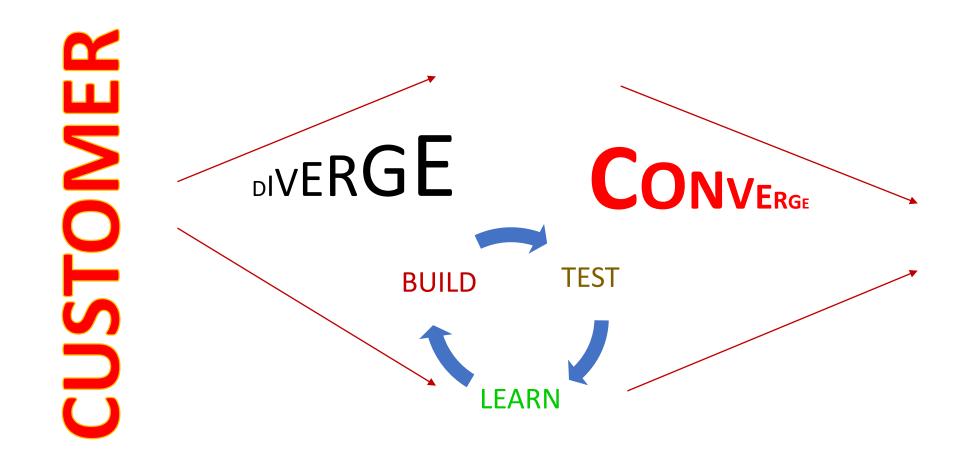
My Dream Process



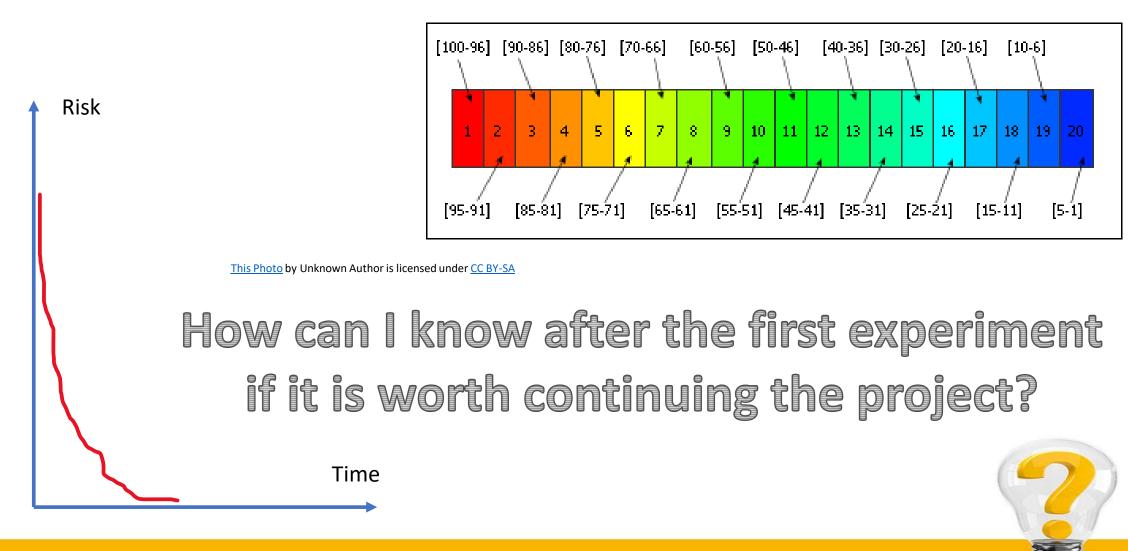


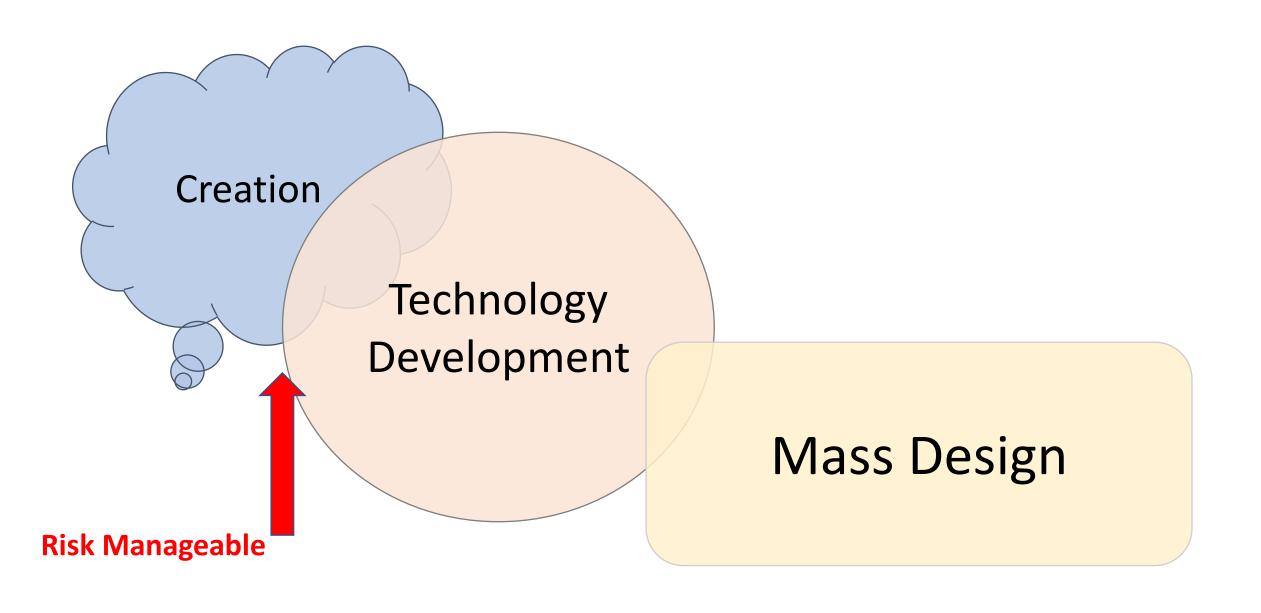


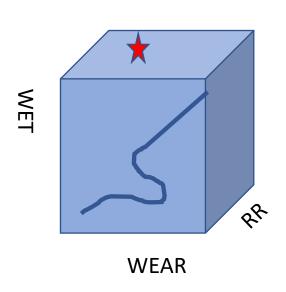
MY Innovation Cycle



Follow the Risk Scale With Critical Questions



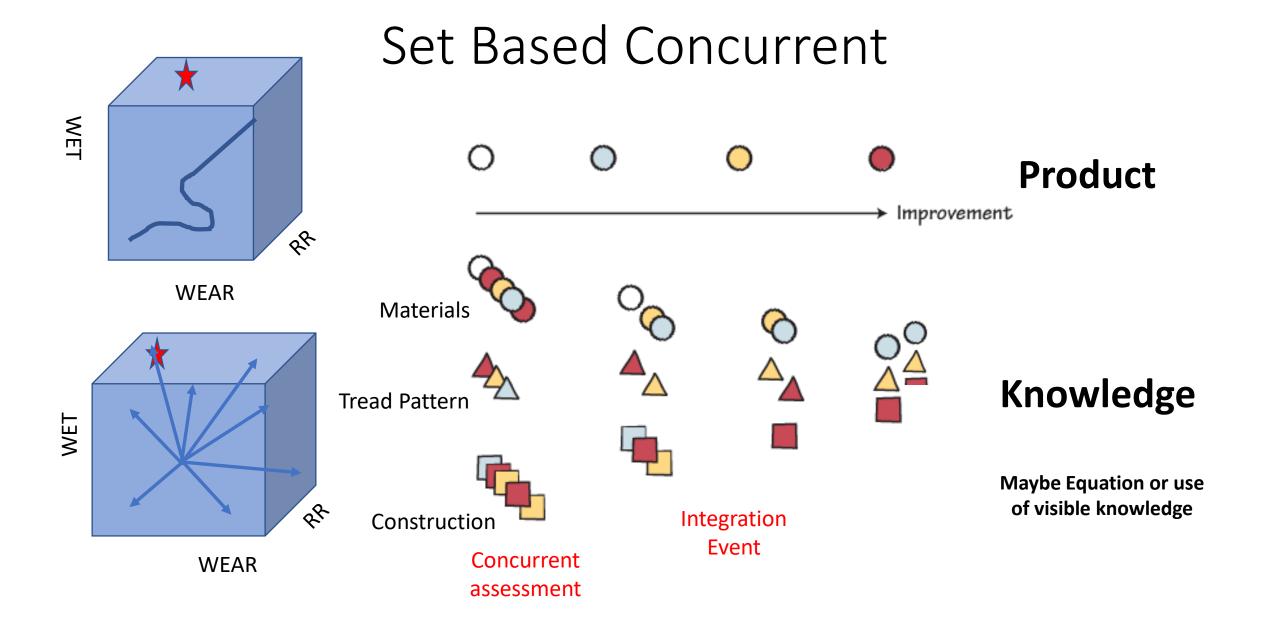


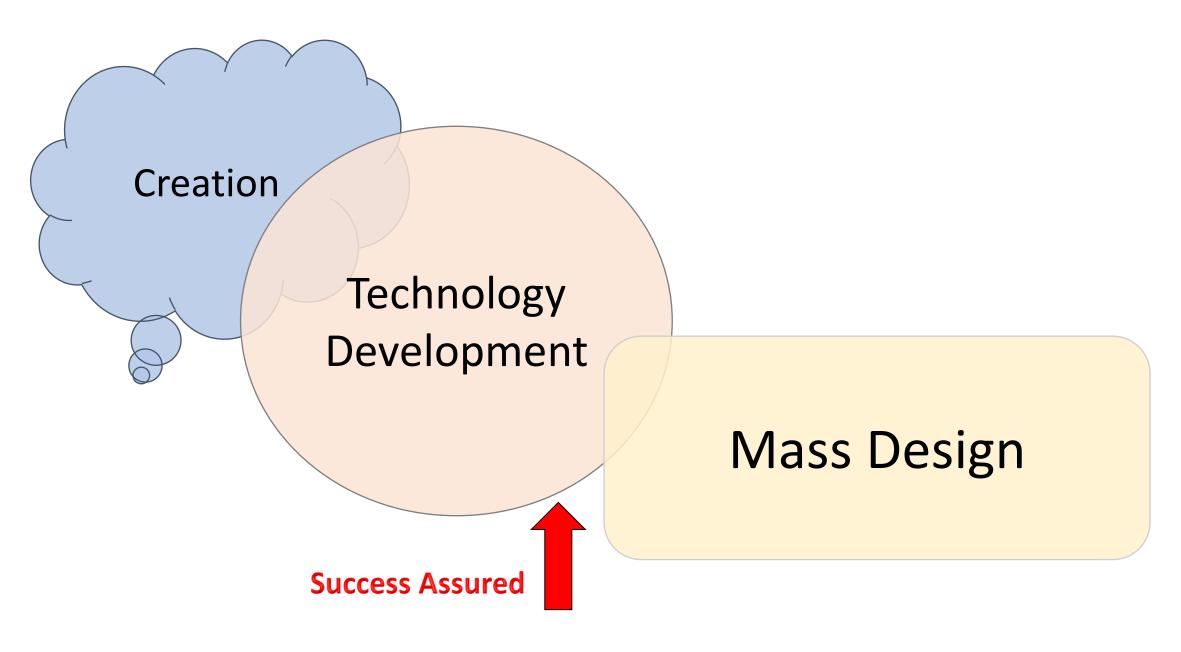


Set Based Concurrent

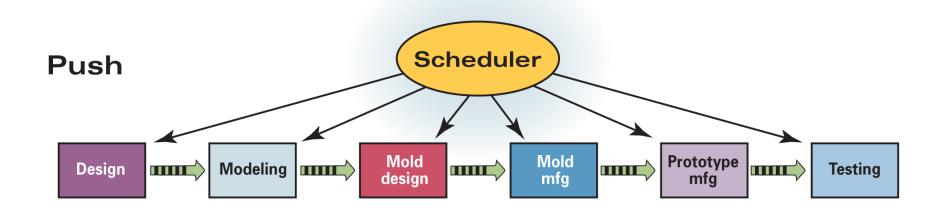


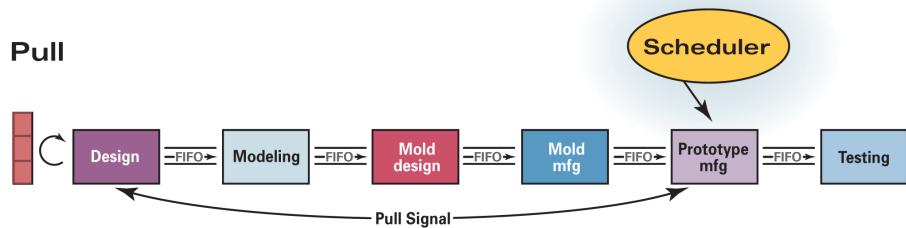
Scientific Full Factorial





Push and Pull





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LEAN Goodyear Process

- 100% on time
- 75% faster
- 3x more efficient
- 100% financially successful

How to Create that Lean Culture of Innovation

Add Innovation to lean or lean to innovation

BEST – implement/improve simultaneously

My Personal Opinion

- For process innovation AND product innovation, the small stuff only goes so far
- There is a time when most companies/organizations flatten out or hit a wall both in process and product development
- Now it takes a little out of the box thinking
- It does not cost a lot of money to become more innovative AND it can have huge payback (I said the same thing about my first lean transformation)
- Lean/opex creates a lot of wealth innovation does the same

Thanks



If everything seems under control, you're just not going fast enough.

-- Mario Andretti

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