

WHAT'S IN BETWEEN? Hybrid Agile Processes for Product Development



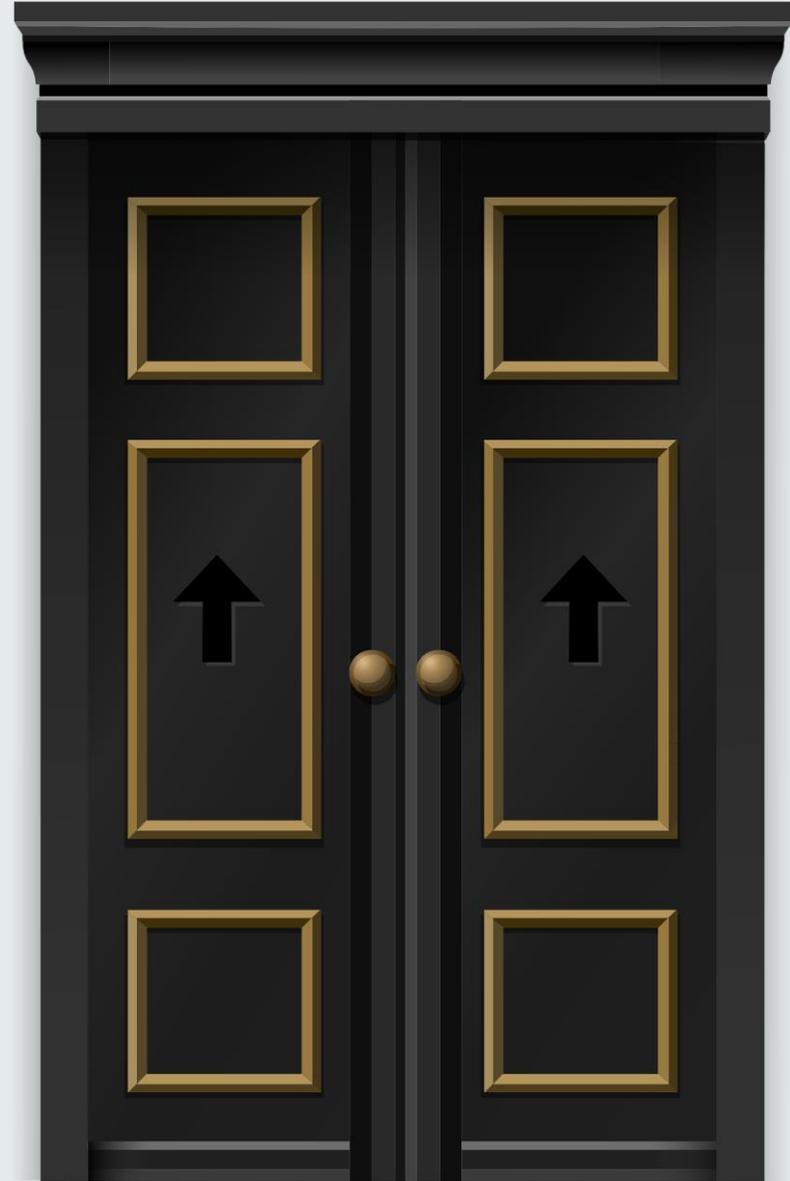
8 April 2025
12:00 – 1:00 pm CDT

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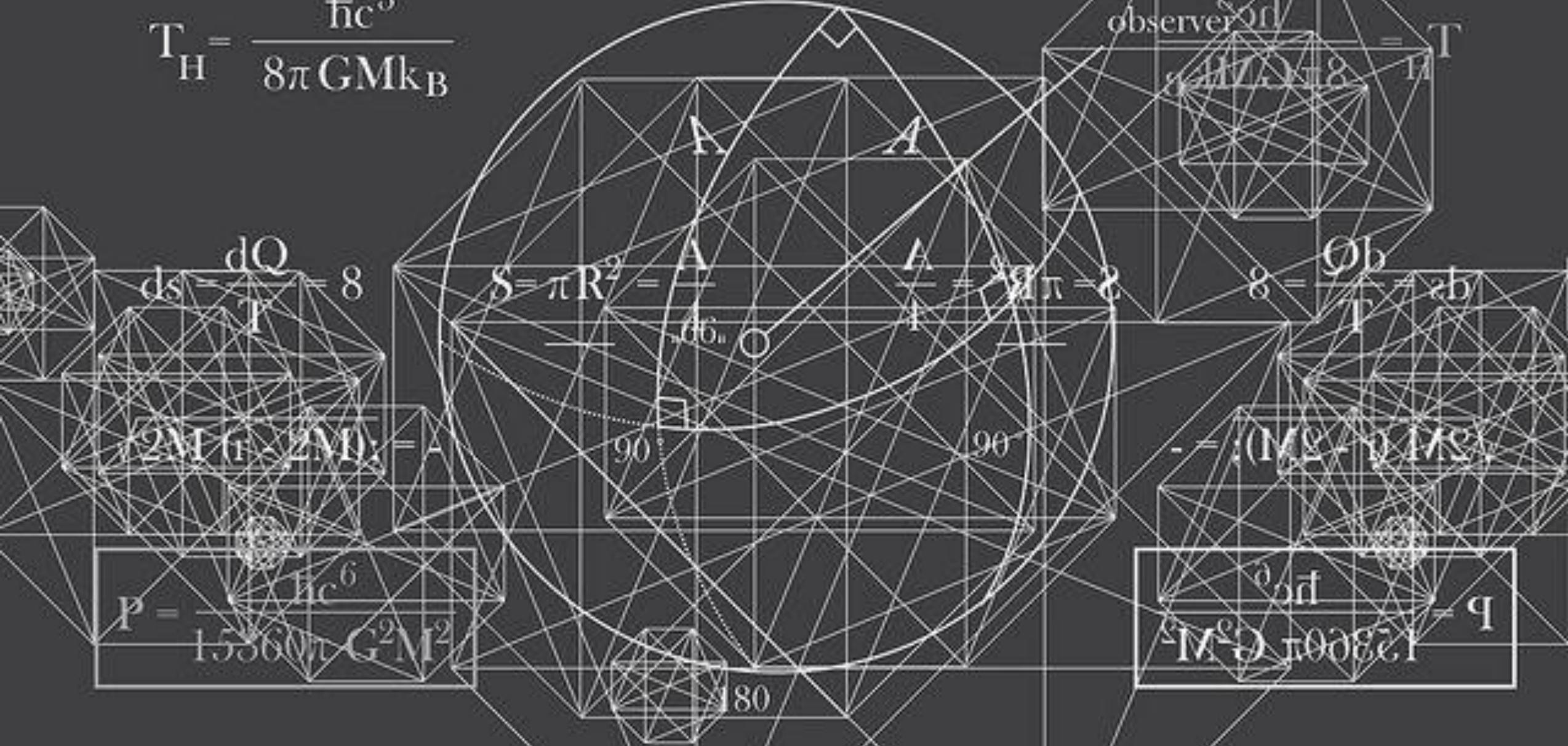


Need 2 Volunteers

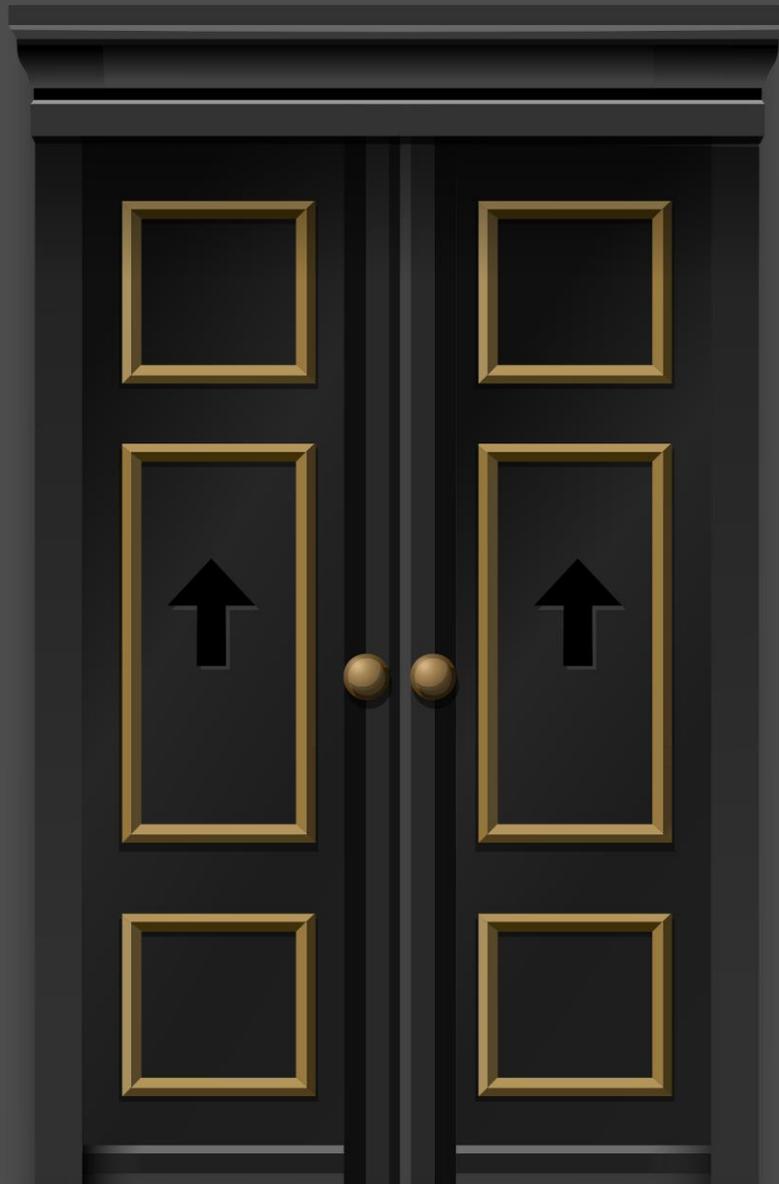




$$T_H = \frac{\hbar c^3}{8\pi G M k_B}$$



$$ds^2 = - \left(1 - \frac{2M}{r} \right) dt^2 + \frac{1}{1 - 2M/r} d\Omega^2 + r^2 d\Omega^2 + \left(\frac{M\Omega}{r} - 1 \right) dt^2$$





Let's Debrief...

Volunteer #2

- How did you **feel** about this exercise?
- Was there **risk** or **uncertainty** involved?

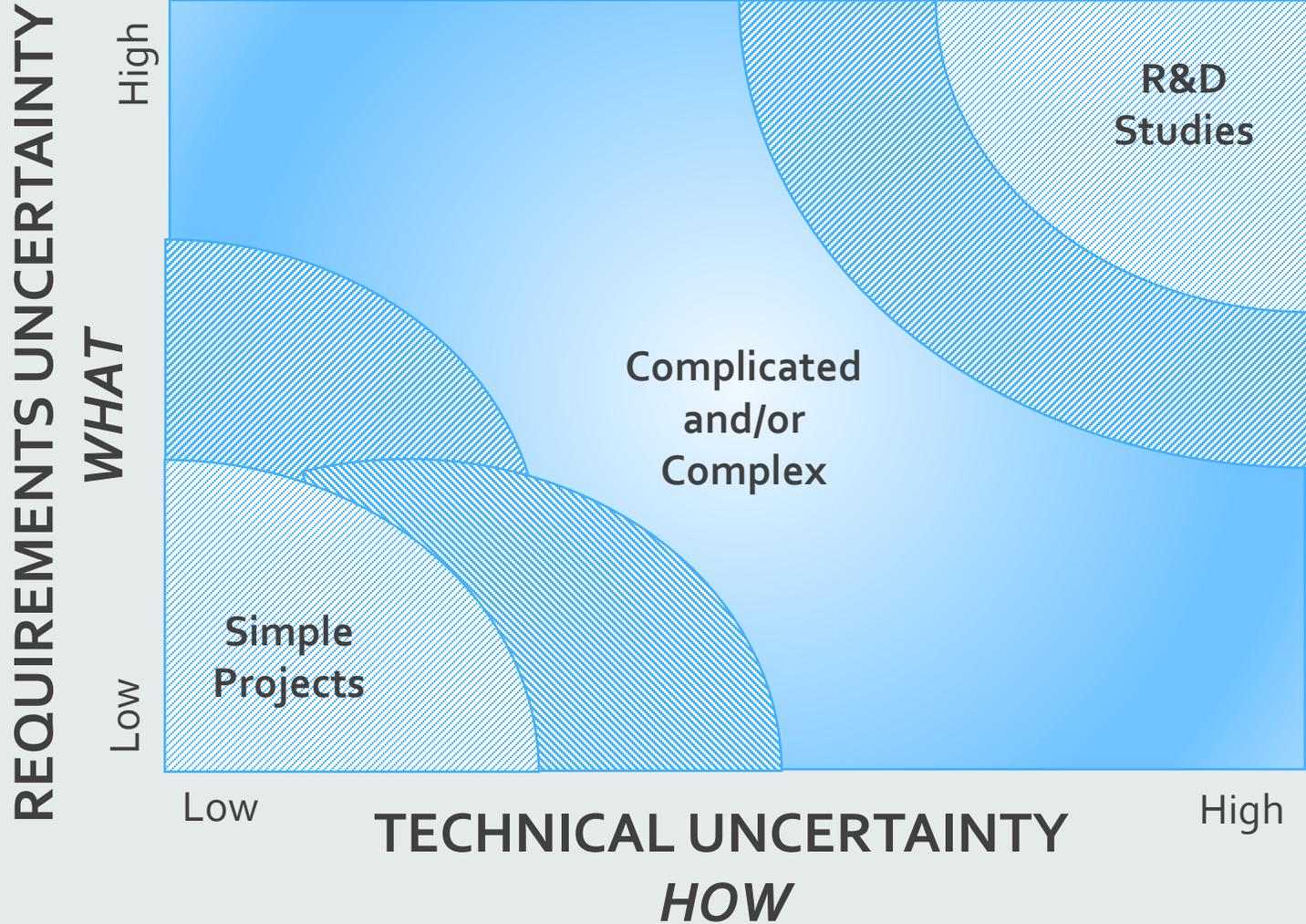
Volunteer #1

- How did you **feel** about this exercise?
- Was there **risk** or **uncertainty** involved?

Topics for Today

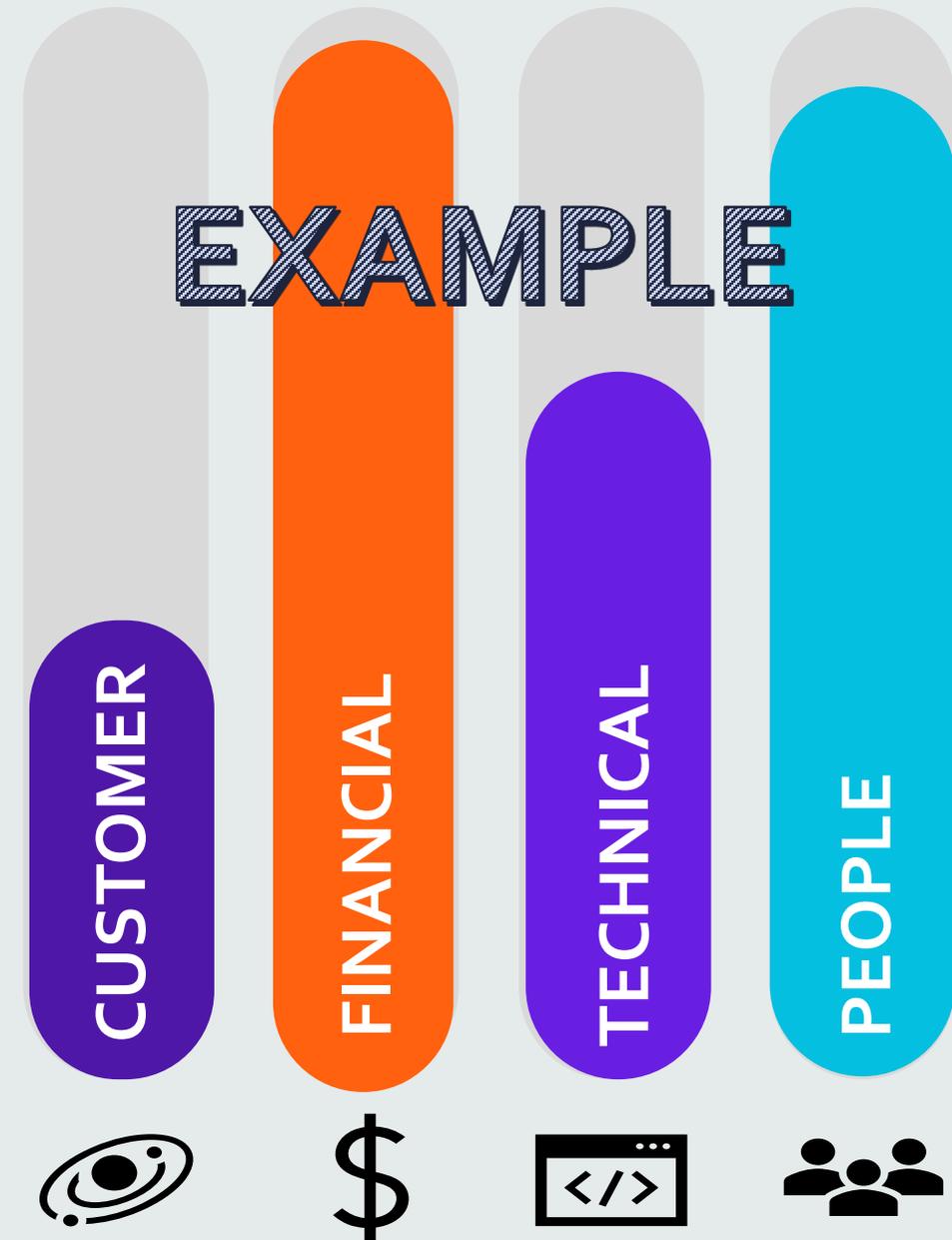
- How do **project managers** view risk?
- What is the link between **risk** and **product management**?
 - Quick review of typical project management processes
- **Two Hybrid Processes**
 - **WAGILE** and an example
 - **Lean NPD** and an example
- **Wrap-up, Q&A**

PM View of Project Risk



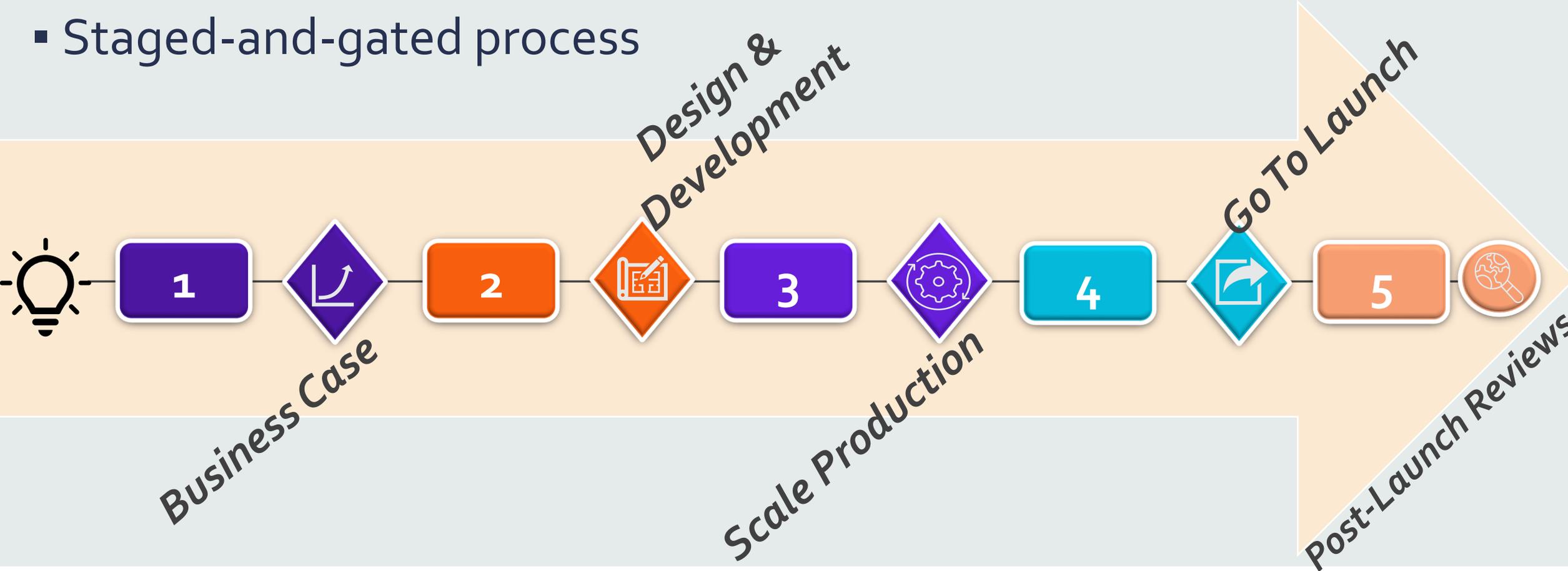
Product Development and Process Risks

- **Why?** The product itself
- **Where?** Customer Risk
- **What/When?** Financial Risk
- **How?** Technical Risk
- **Who?** People (Team) Risk



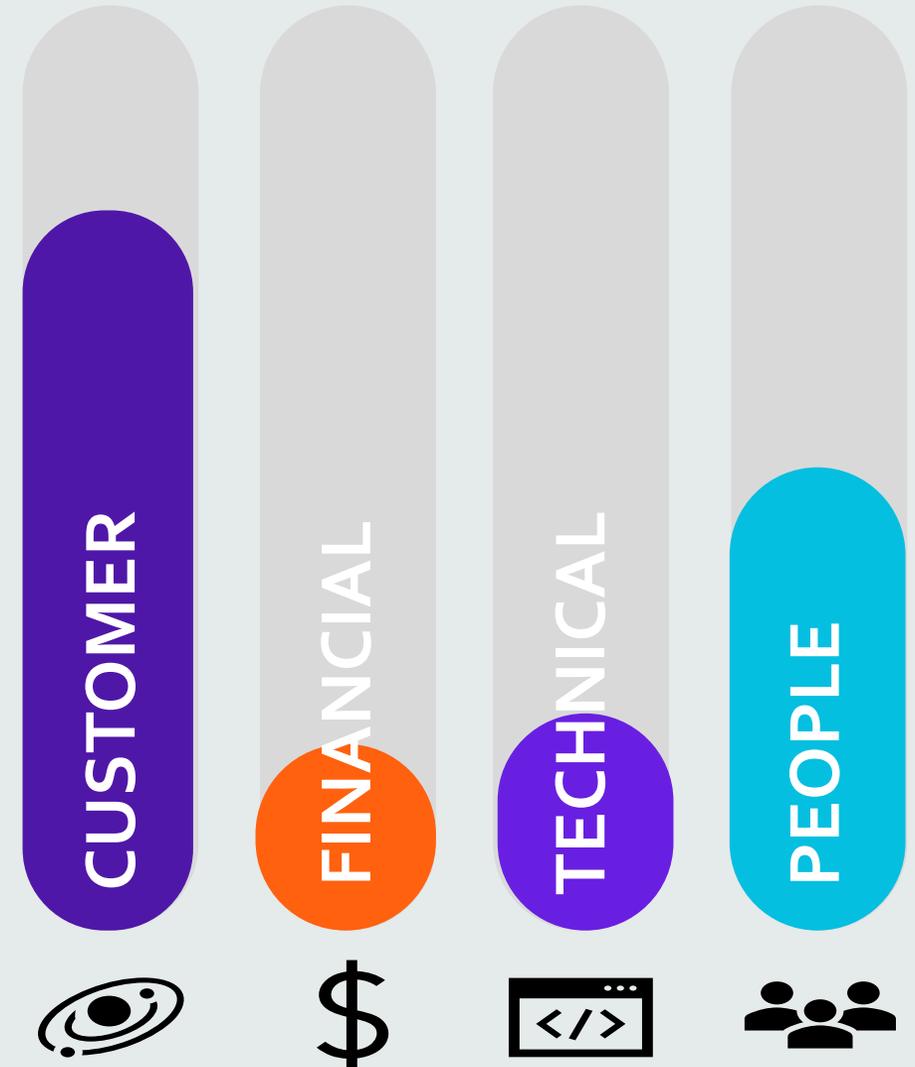
Quick Review: Waterfall / Predictable Process

- Low degree of requirements uncertainty (*what*) ...PLUS...
- Low degree of **technical uncertainty** (*how*)
- Staged-and-gated process



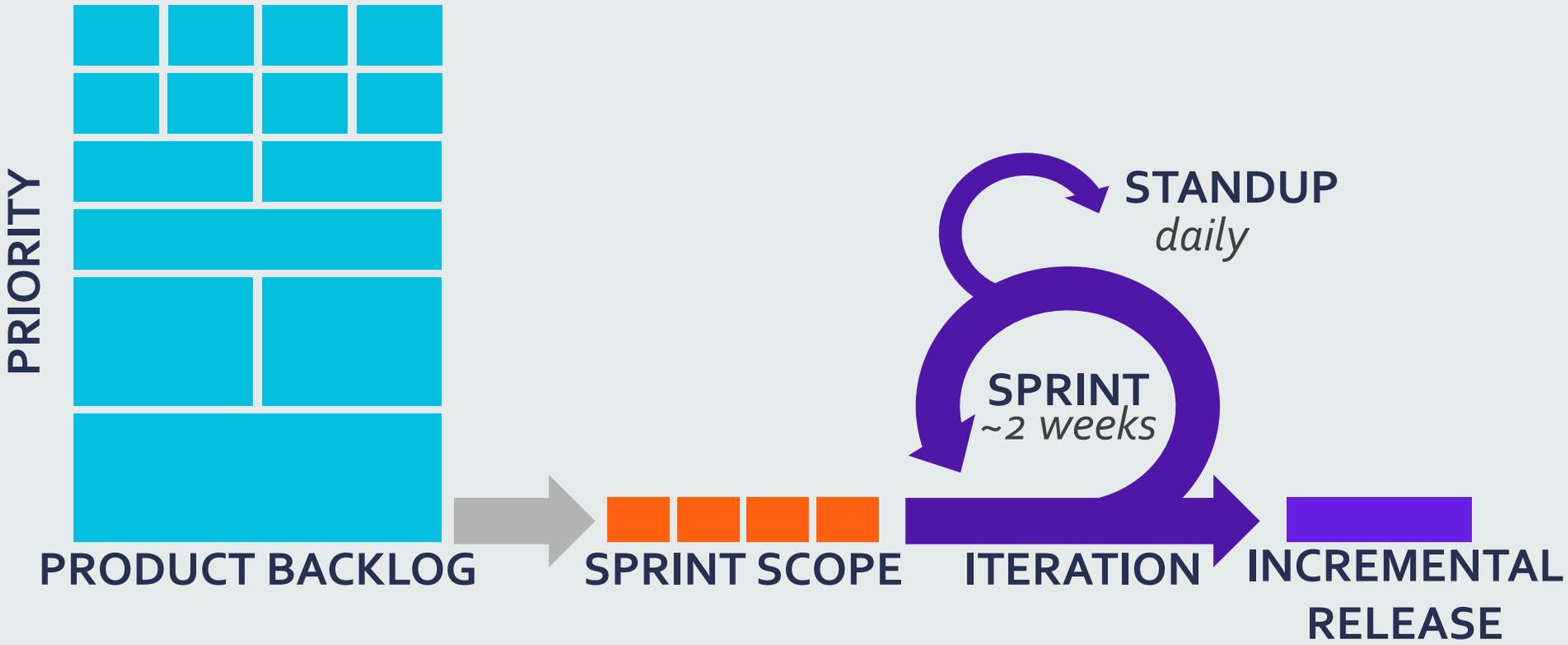
Selection of a Waterfall Process

- **Example:** Simple project
 - Expand food and beverage product to global (vs. regional)
- **Benefits:**
 - WHAT and HOW are known
- **Potential Pitfalls:**
 - Customer Identification
End-User Needs/Wants?
 - Lack of PM Process Experience
(People Risk)
 - Often slow and bureaucratic



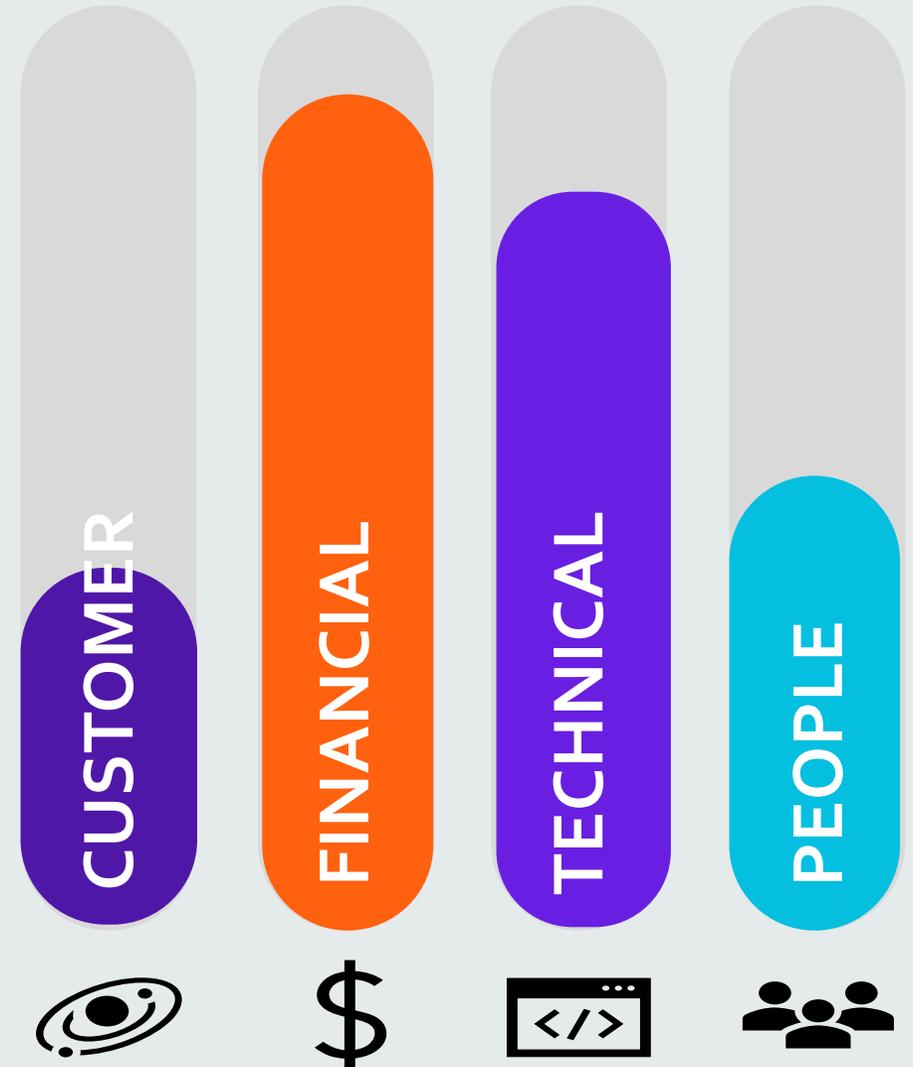
Quick Review: (Agile) Scrum Approach

- Med-high degree of requirements uncertainty (*what*) ...PLUS...
- Med-high degree of technical uncertainty (*how*)
- Iterative, incremental process

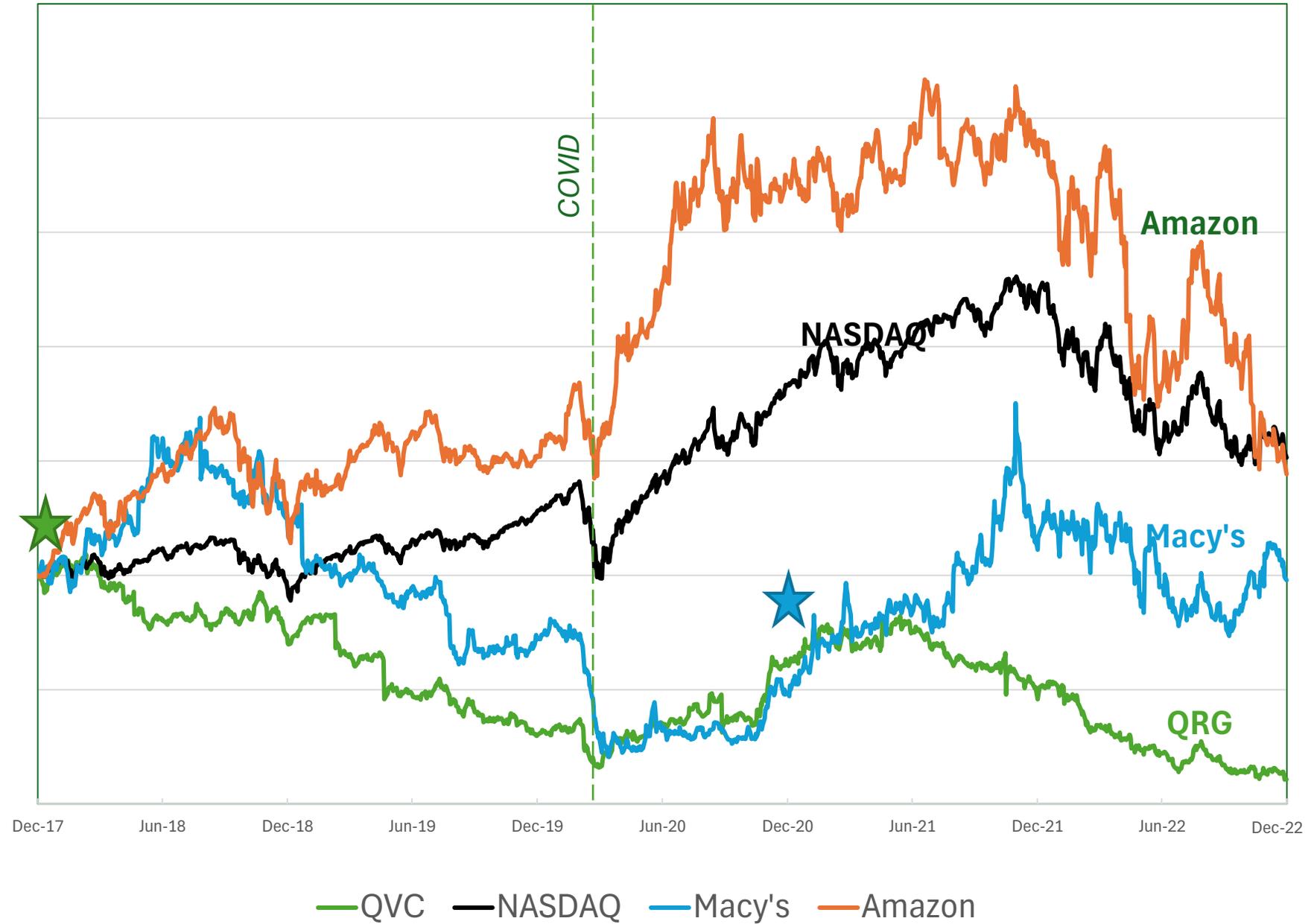


Selection of (Agile) Scrum Process

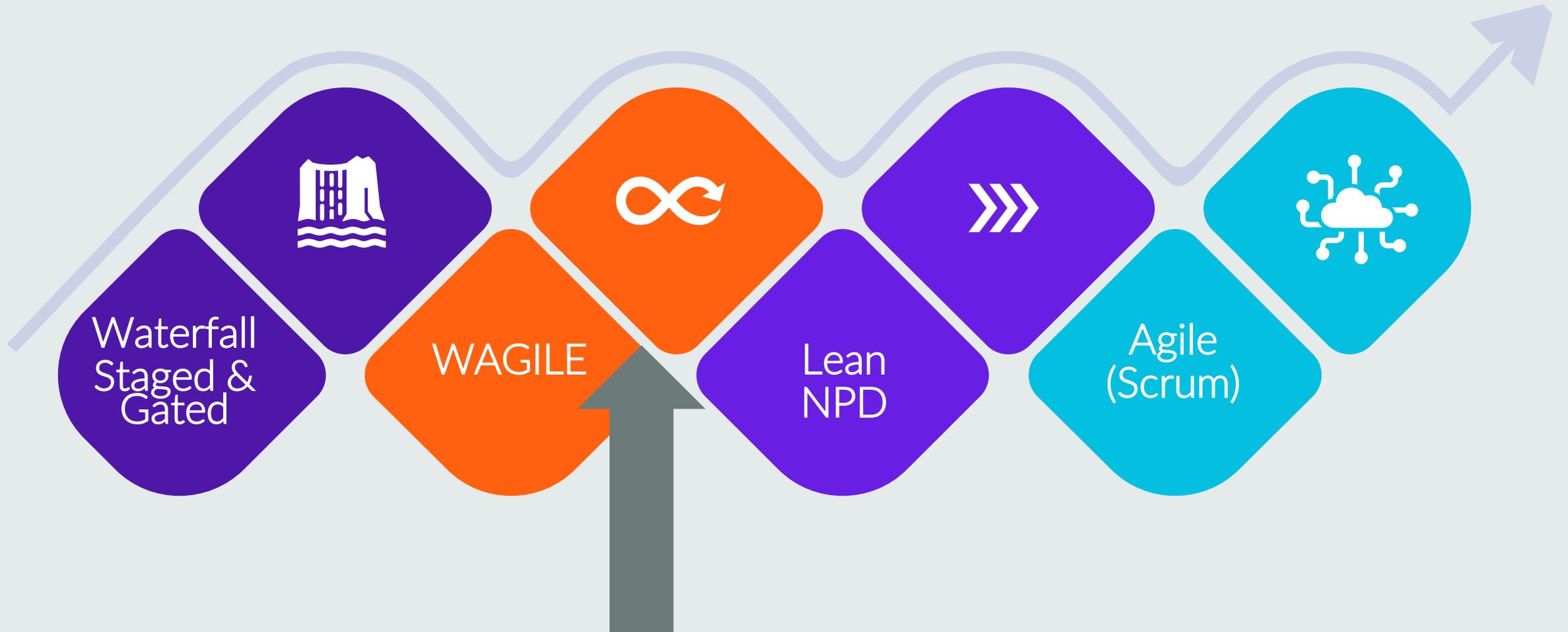
- **Example:** Complex project
 - Integrate software packages
 - WHAT and HOW are unknown
- **Benefits:**
 - Close “customer” interactions
 - Teams granted autonomy
- **Potential Pitfalls:**
 - Lacking Definition of Done
 - Final Product Design Unknown
 - No outstanding successes...



Very Limited Agile Successes



Typical Project Management Approaches to New Product Development... and What's In Between



The WAGILE Process Approach

IDEA GATE

- Customer Needs
- Competitive Analysis

FUNCTIONAL GATE

- Profit and Loss
- Pricing Strategies

TECHNOLOGY GATE

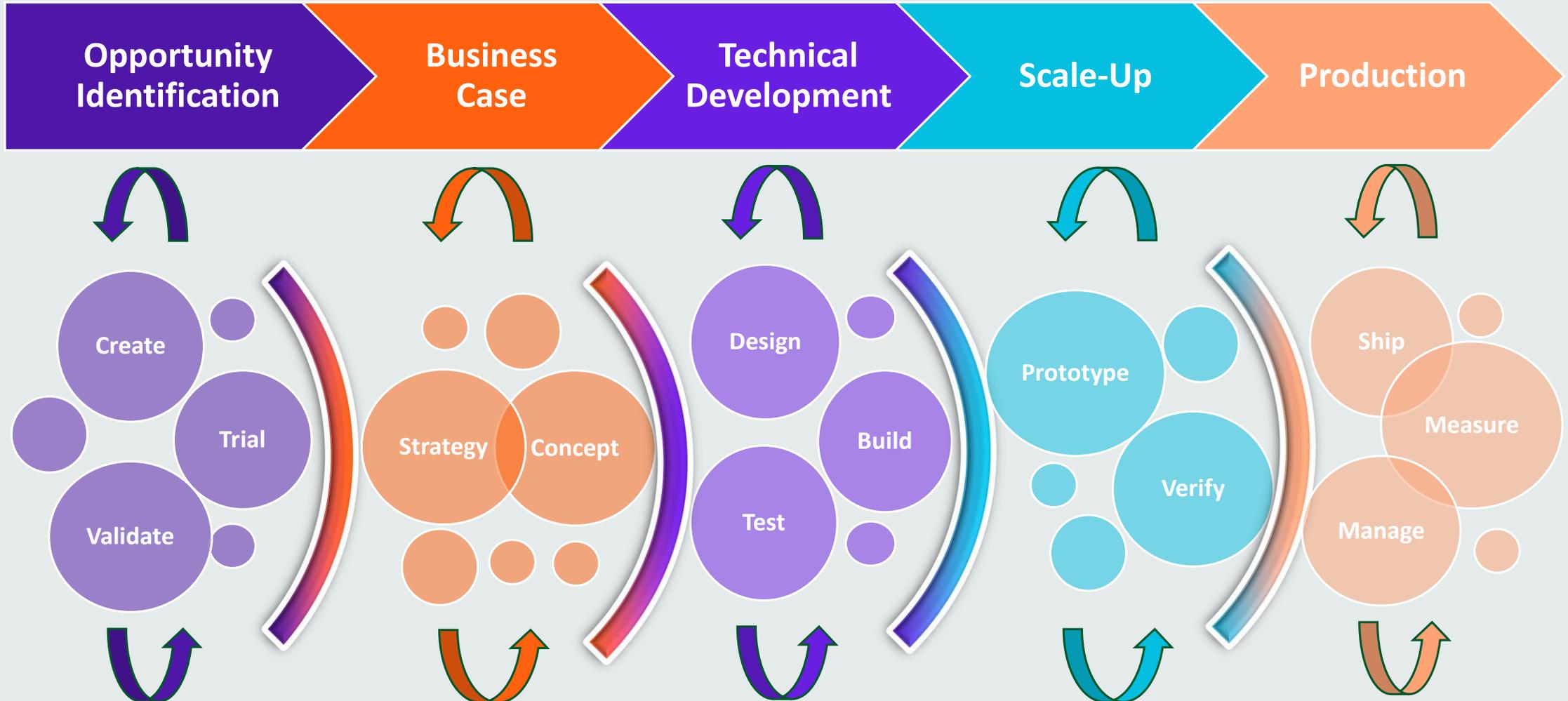
- Intellectual Property
- Pilot Testing

CONSTRUCTABILITY GATE

- Market Testing
- QA and QC

LAUNCH DECISION

- Logistics
- Sales & Marketing



Selection of Hybrid WAGILE Process

▪ *Case Study:*

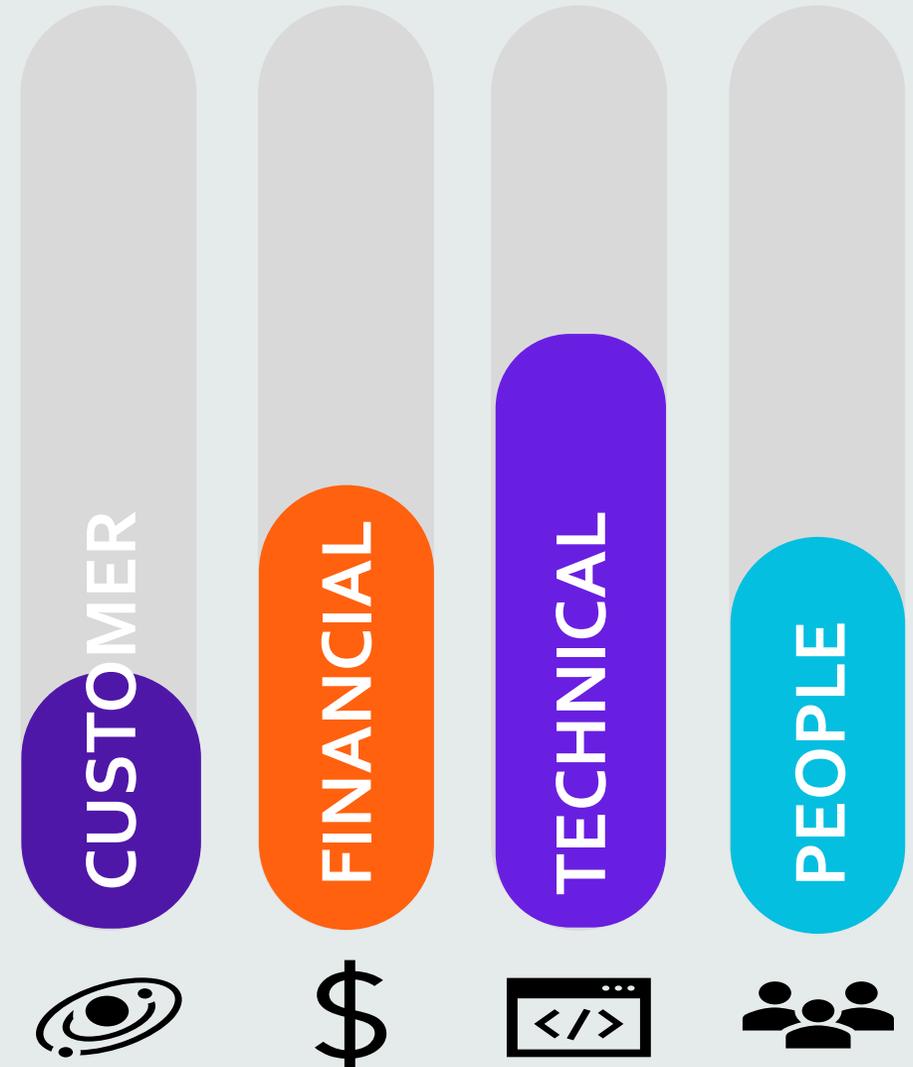
- Publishing & events ministry
- No PM process in place
- WHAT and HOW mostly known

▪ **Benefits:**

- Close customer interactions
- Small teams granted autonomy

▪ **Potential Pitfalls:**

- Bureaucracy & Gate Creep
- Incomplete Design Thinking Cycles during Stage Iterations

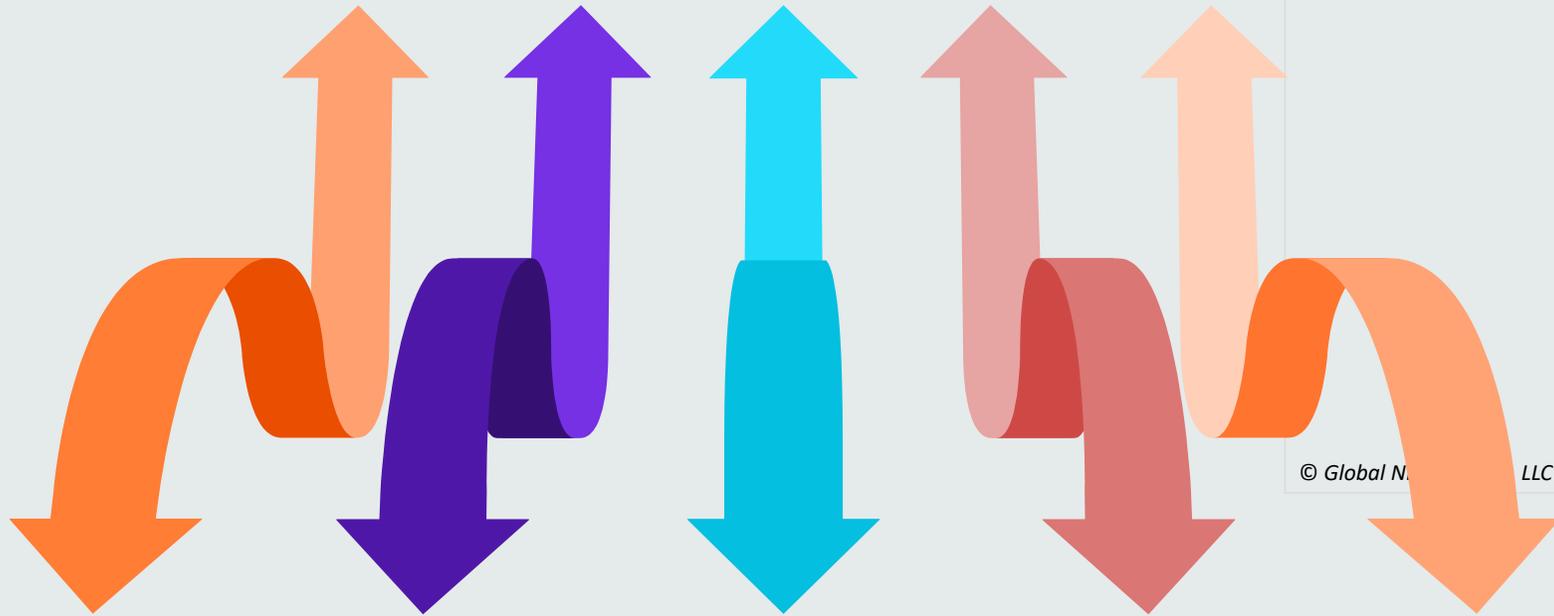


Case Study

Implement:

- The WAGILE Philosophy
- Design Thinking Tools

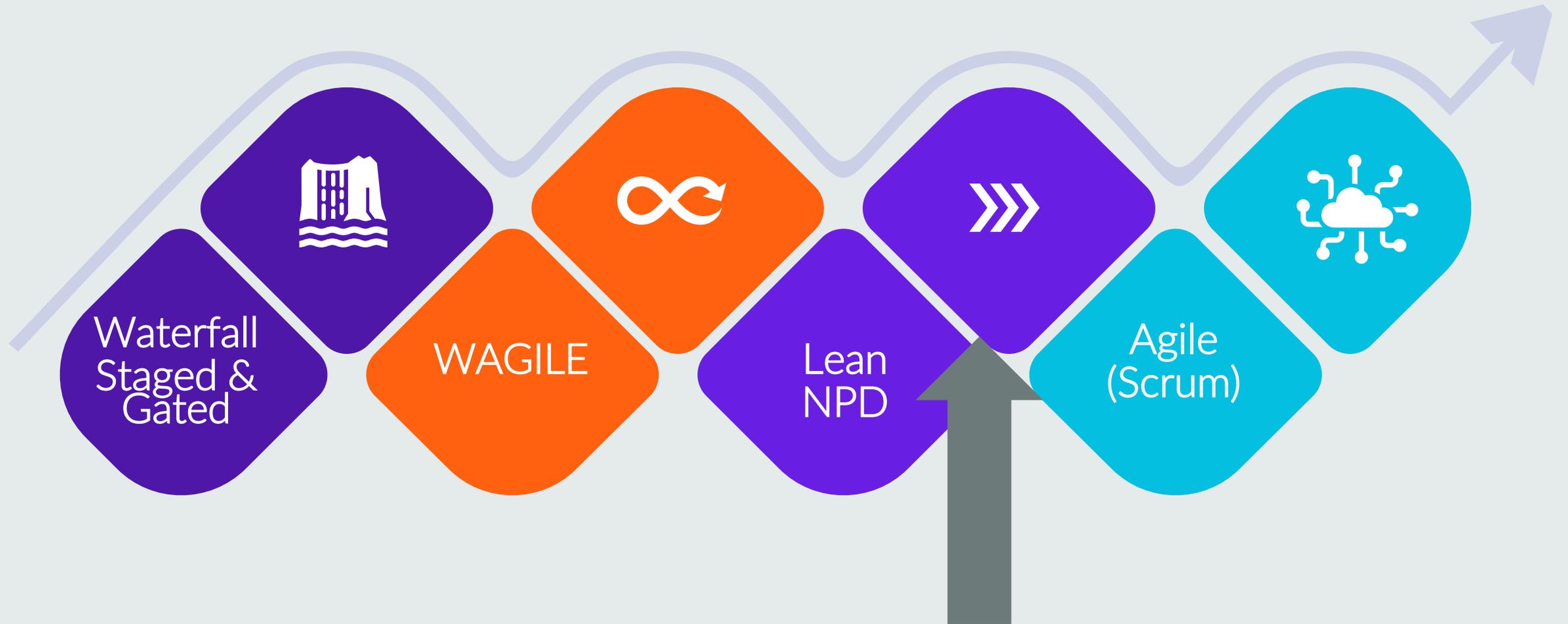
INNOVATION HEALTH ASSESSMENT®
Non-Profit 2022 vs. Non-Profit 2020



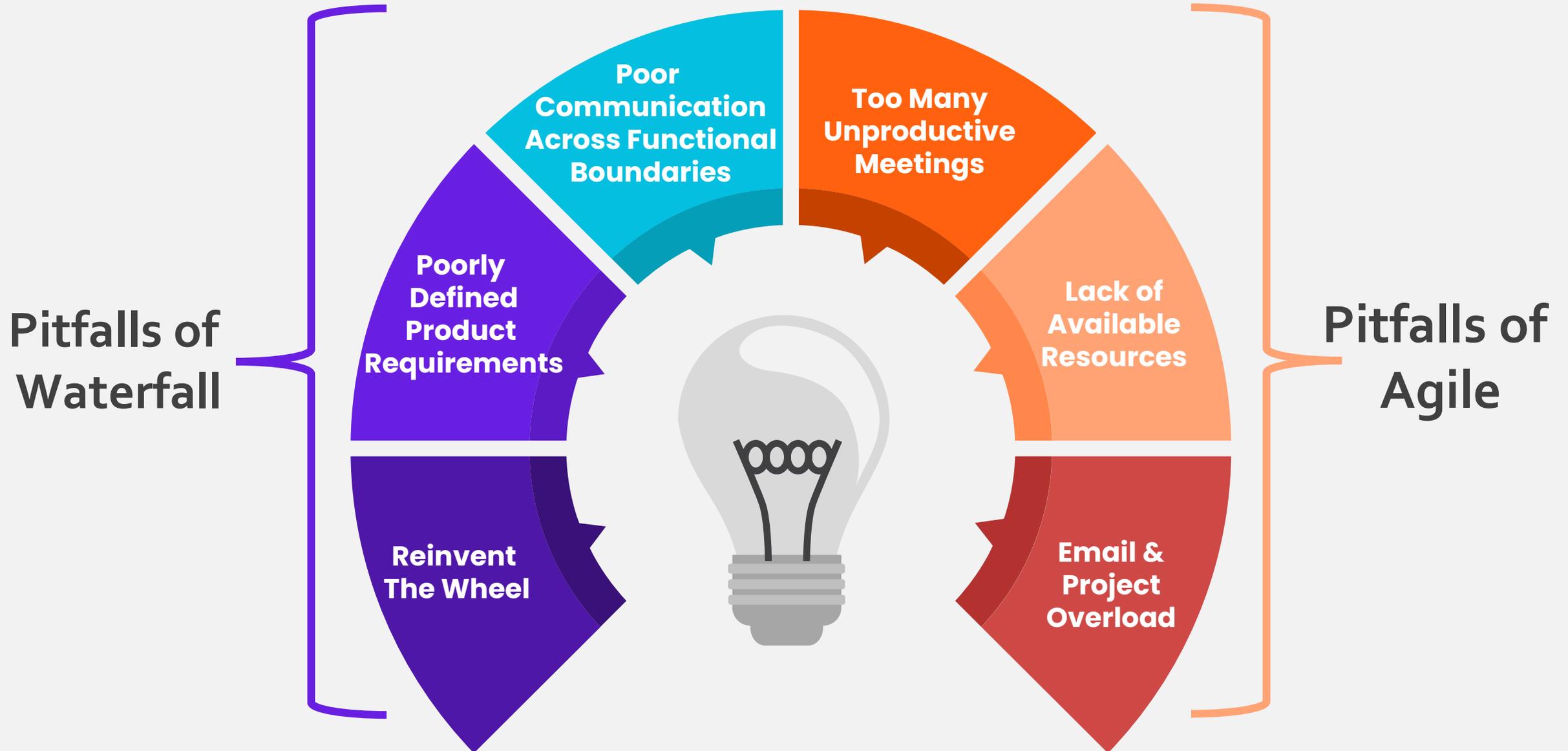
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- Significant improvements over a 2-year period
- Some work still to do in strategic direction and competitive analysis

Typical Project Management Approaches to New Product Development... and What's In Between



Lean NPD Philosophy: Reduce Waste



Selection of Hybrid Lean NPD Process

▪ *Case Study:*

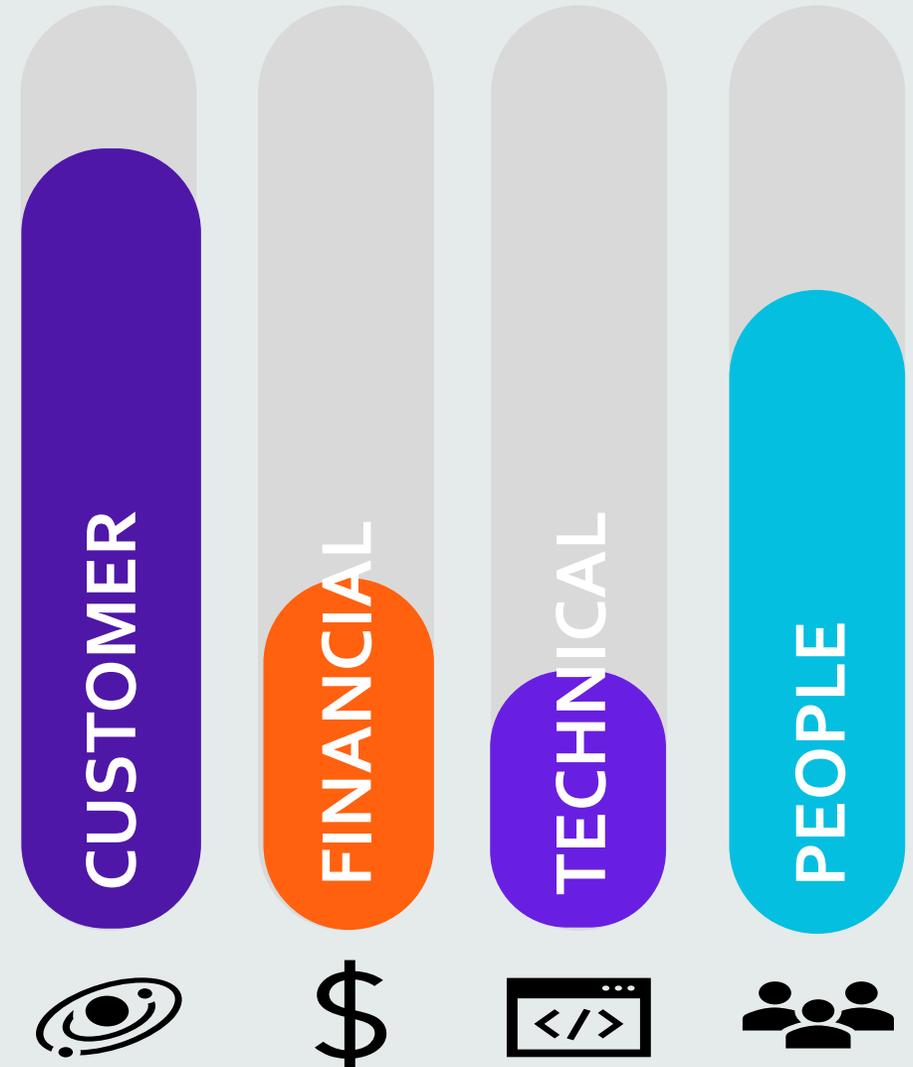
- Household Appliance Producer
- Existing but *burdensome* waterfall process
- HOW (technology) known

▪ **Benefits:**

- Incremental improvements
- Retail cycles (WHEN) known

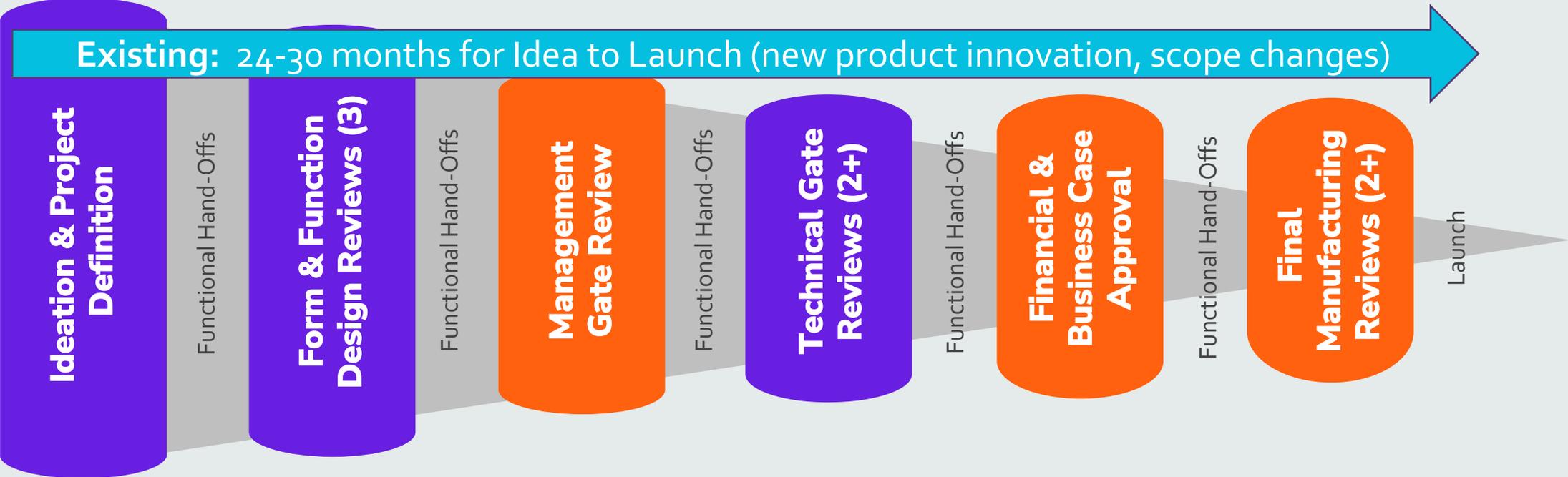
▪ **Potential Pitfalls:**

- Wholesale vs. retail customers
- Lack of team trust (bureaucracy)

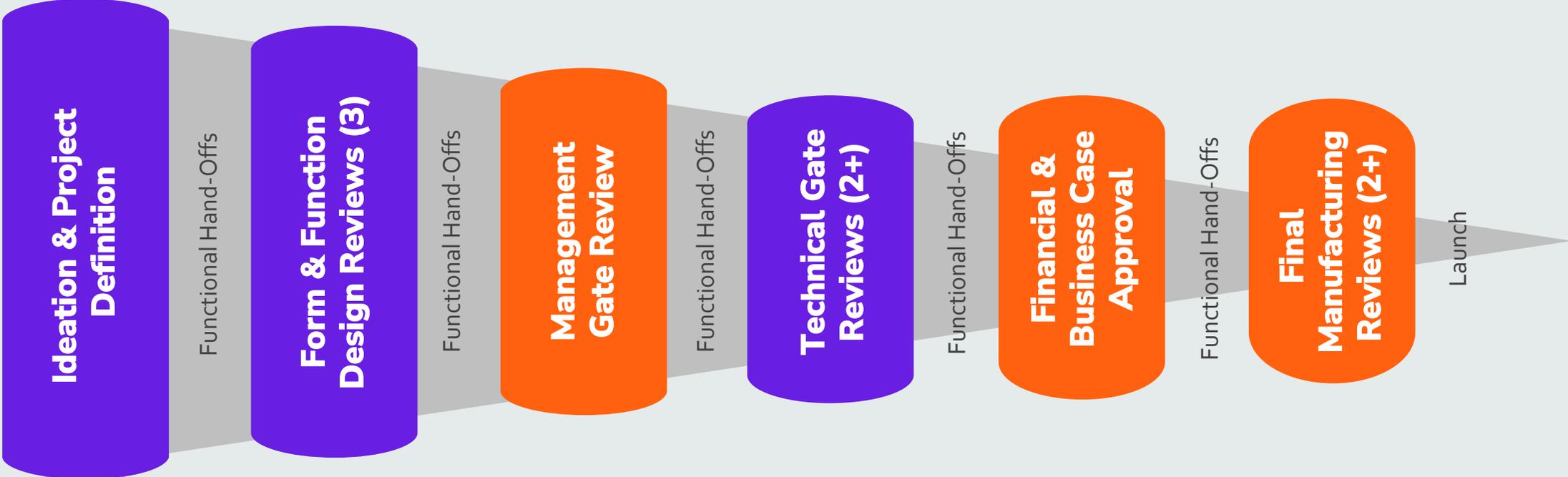


Case Study: Household Appliance Producer

- Existing heavyweight waterfall process with executive management reviews, little team trust, high staff turnover
- Slow to market, losing share to competitors
- Quality and profit margins declining, costly downstream decisions



Streamline & Transition to Lean NPD





GET YOUR QUESTIONS READY!

Analyze Your Risk

- **Why?** The product itself
- **Where?** Customer Risk
- **What/When?** Financial Risk
- **How?** Technical Risk
- **Who?** People (Team) Risk

Your Organization

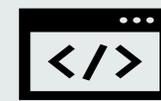
CUSTOMER



FINANCIAL



TECHNICAL



PEOPLE



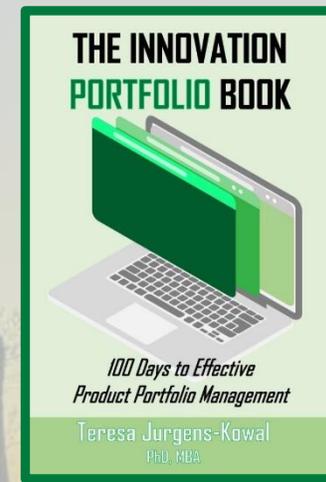
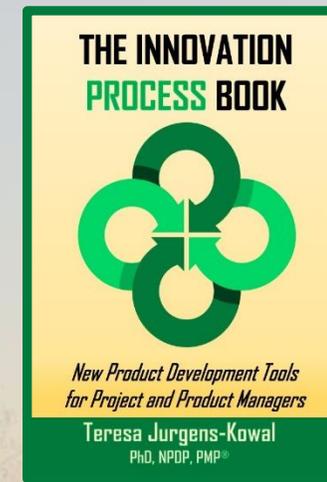
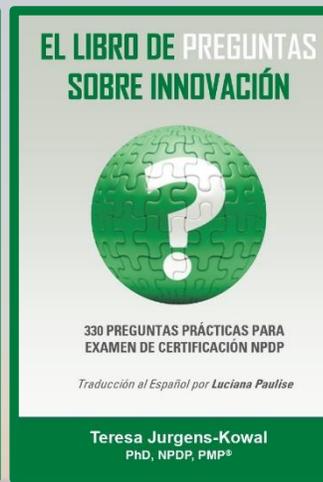
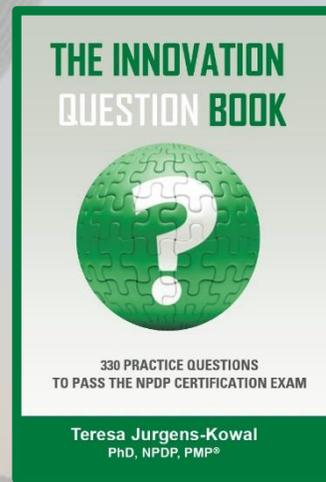
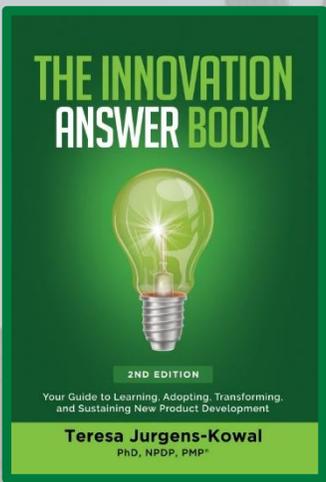
Which Hybrid PM Process for NPD?

Case Study Comparisons

| | Goal: Implement NPD Process | WAGILE | Goal: Improve Time-to-Market | Lean NPD |
|---|-----------------------------|--------|--|----------|
| | Management Trust | | Management Trust (w/project constraints) | |
| → | Risk Tolerance | | Risk Tolerance | |
| | Team Culture | | Team Culture | |
| | Marketing Maturity | | Marketing Maturity | |
| | Financial Strength | | Financial Strength | |

Summary: Hybrid PM Process for NPD

- Innovation and product development require taking **risks**
- Project management systems balance **investment risk** against novelty
- **Waterfall** (predictive) processes tend toward being slow & bureaucratic
- **Agile** is not typically successful for tangible product development
 - And questionable even for IT in many instances
- **Hybrid** approaches blend discipline of waterfall with flexibility of Agile
 - Examples include **WAGILE** and **Lean NPD**
- Continually analyze what works for NPD process improvement
 - **Customize** to address **risk**, organizational strategy, industry, team structures



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Consulting

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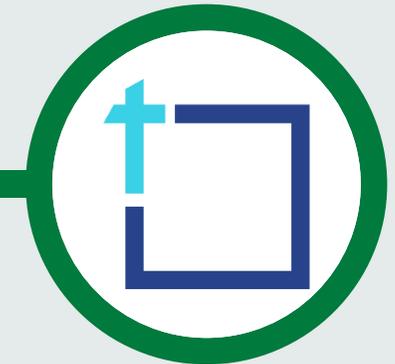
- Innovation & PM systems
- Improve time to market



Coaching

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- Enhance creativity & leadership skills
- Group or 1-1



Community

Christian Project Managers
A Linked In Group

- Learn & share effective PM practices
- Support one another