

Myths of innovation

The fallacies that cause delays, undermine intentions and raise frustrations

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THE EUREKA MOMENT





**LIVE
AID**



WHAT HAPPENS?

- *A lot of ideas*
- *They get stuck*
- *I lose all my energy*
- *The question dies*
- *We rush forward!*

Research shows:

The innovation **challenge** is
NOT lack of **ideas**.

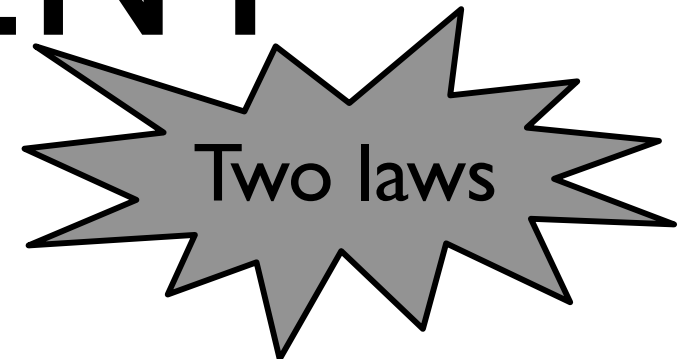
The **real challenge...**

...is the **IMPLEMENTATION**

TO CREATE IS
SIMPLE!



TO IMPLEMENT
IS ART!



Fallacy #1

**THE EUREKA
MOMENT**

Viable solution:

UNDERSTAND TWO CRITICAL LAWS

WHAT IS SPECIAL ABOUT THE CONTEXT OF INNOVATION?

Production



Innovation



INNOVATION – A PROCESS OF OPEN-ENDED SEARCH

Law number 1: Little's law

Throughput time=flow units in process*cycle time[^]

Throughput time=number of projects*cycle time

[^]Time between units finished

LITTLE'S LAW: 2 CHALLENGES

Start new projects (too) early...

...competition for resources = size of queue
longer

Innovation work is an open-ended search process
= cycle time is uncertain!

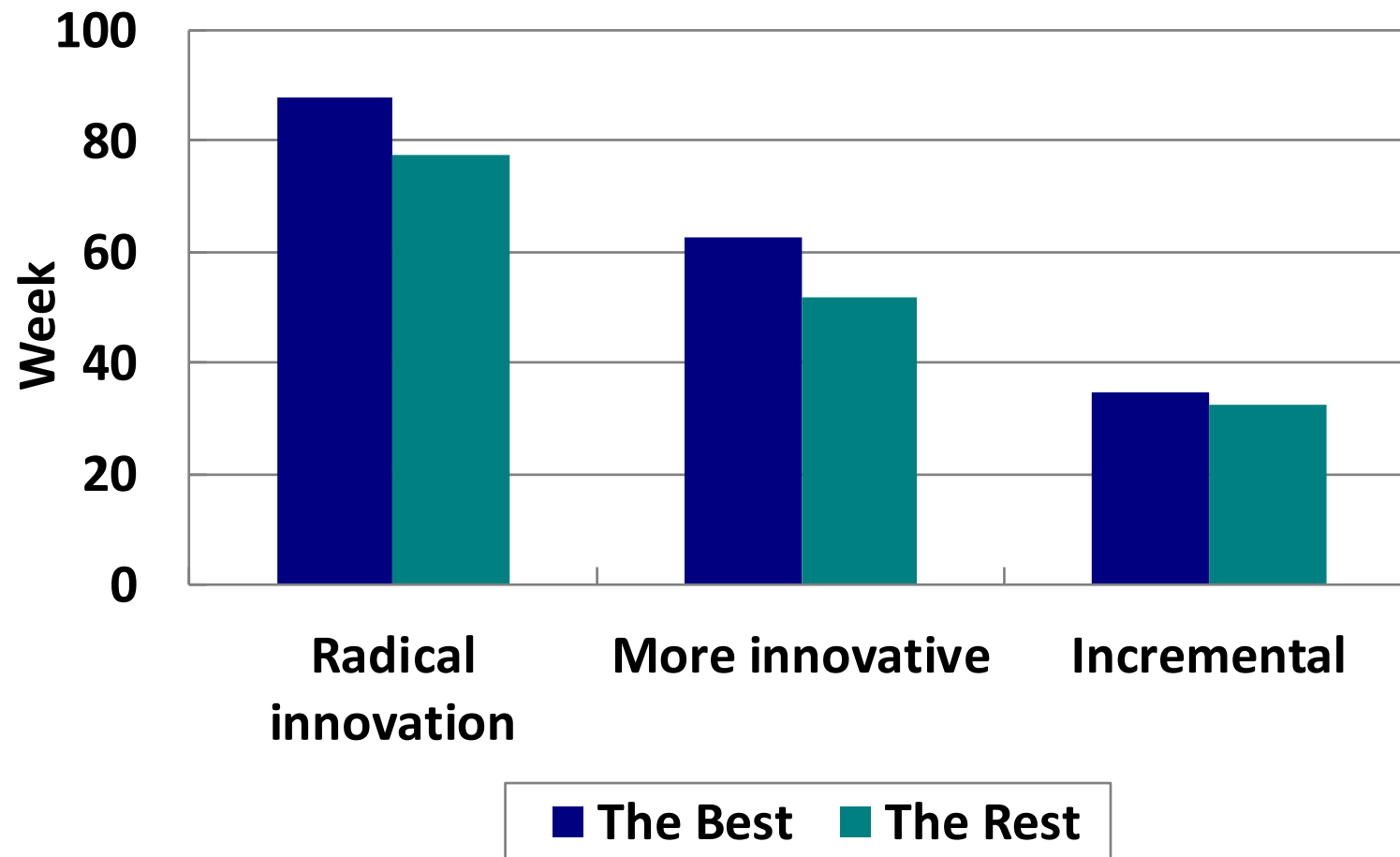
Viabile solutions

- Take time to **define the problem to solve** – to identify the goal and hypothesis to test along the way
- Work actively with **hypothesis testing** – revise as evidence unfolds
- Carefully **monitor when to start projects** – are there resources available to pursue the project available. If not. Wait. **Prioritize.**

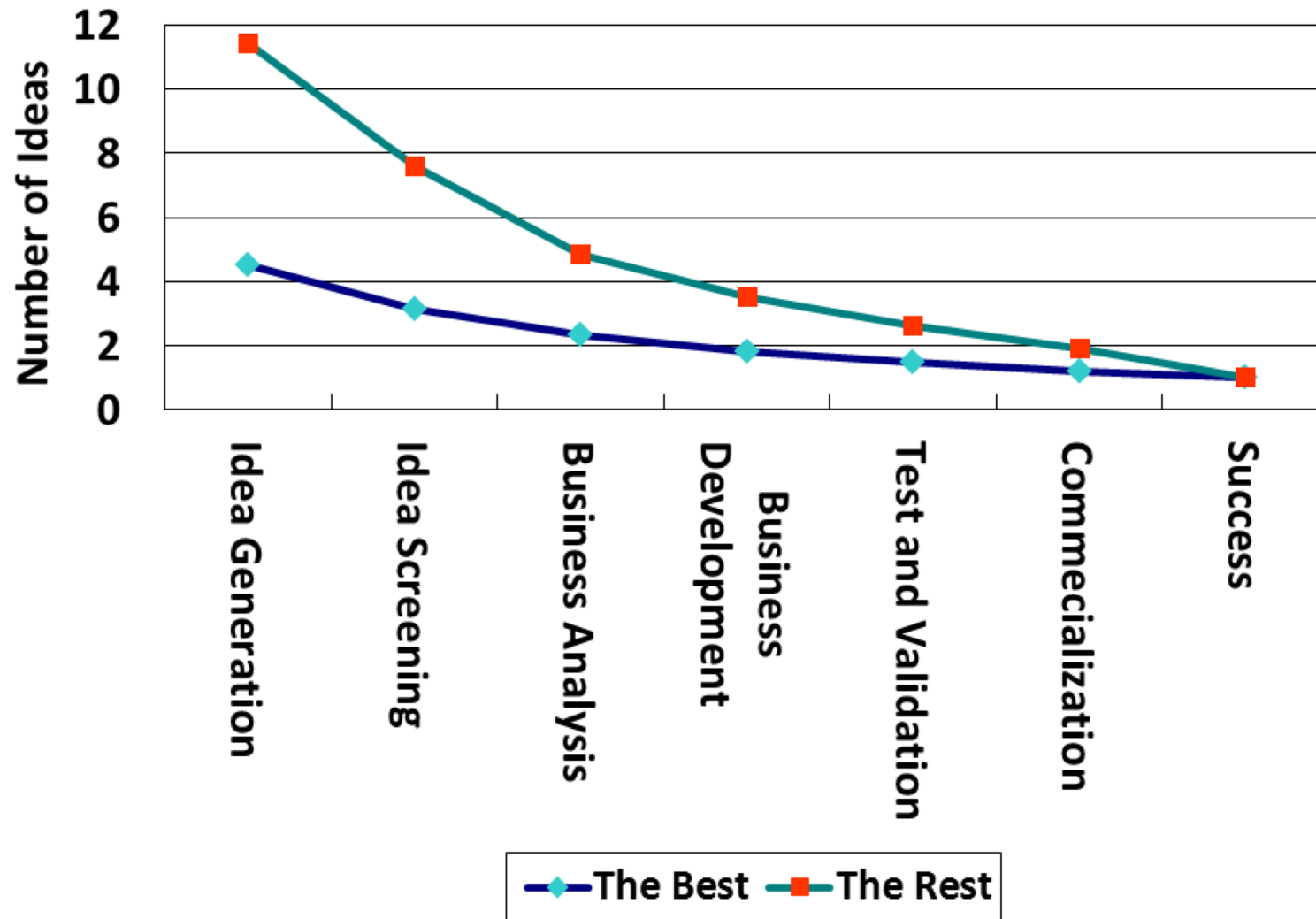
Implication of law 1:

**Kill projects instead of
adding projects**

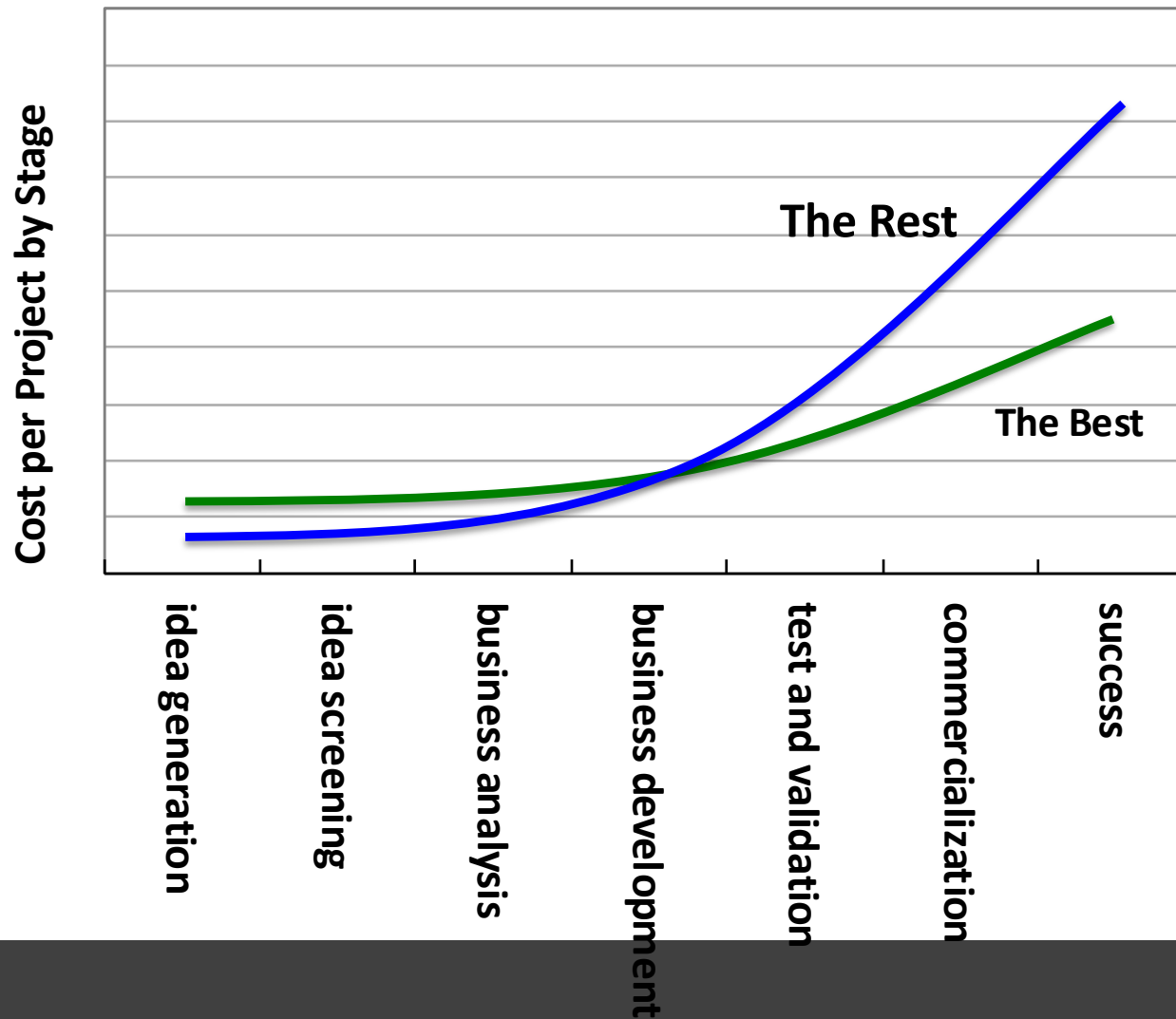
Best performer spend more time per project



...but on fewer projects



Cost per successful project

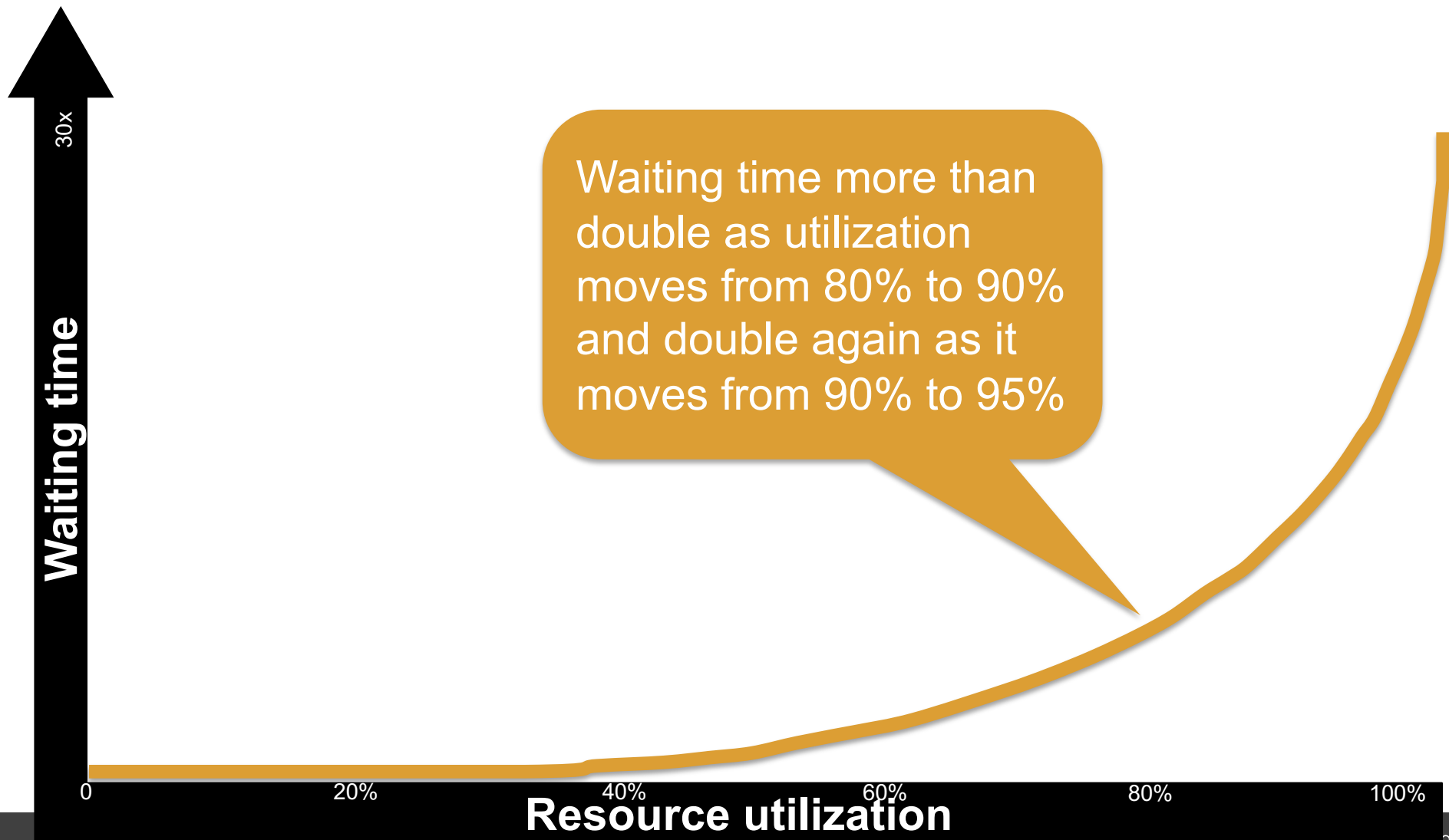


Law number 2: VUT-relationship

VUT-relationship: 2 challenges

- High utilization of resources will not improve performance *because:*
 1. Need to take into the full account of variability of development work
 2. In innovation work, work-in-process inventory is predominantly invisible

High utilization leads to delays – the VUT-relationship



Viabile solutions

- **Introduce resource slack** where utilization is highest
 - *Selectively increase capacity*
- Make the **work-in-process inventory easier to see**
 - *Visualization/work-in-process control boards*
 - *Make queues and information flows visible*
- **Quantify the cost of delays** and factor it into decisions
- **Limit the number of active projects**

Implication of law 2:

**Provide a capacity buffer in
processes with high variability**

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