

Managing Our Software Release Process

From Ideas to Products

Hossein Raassi

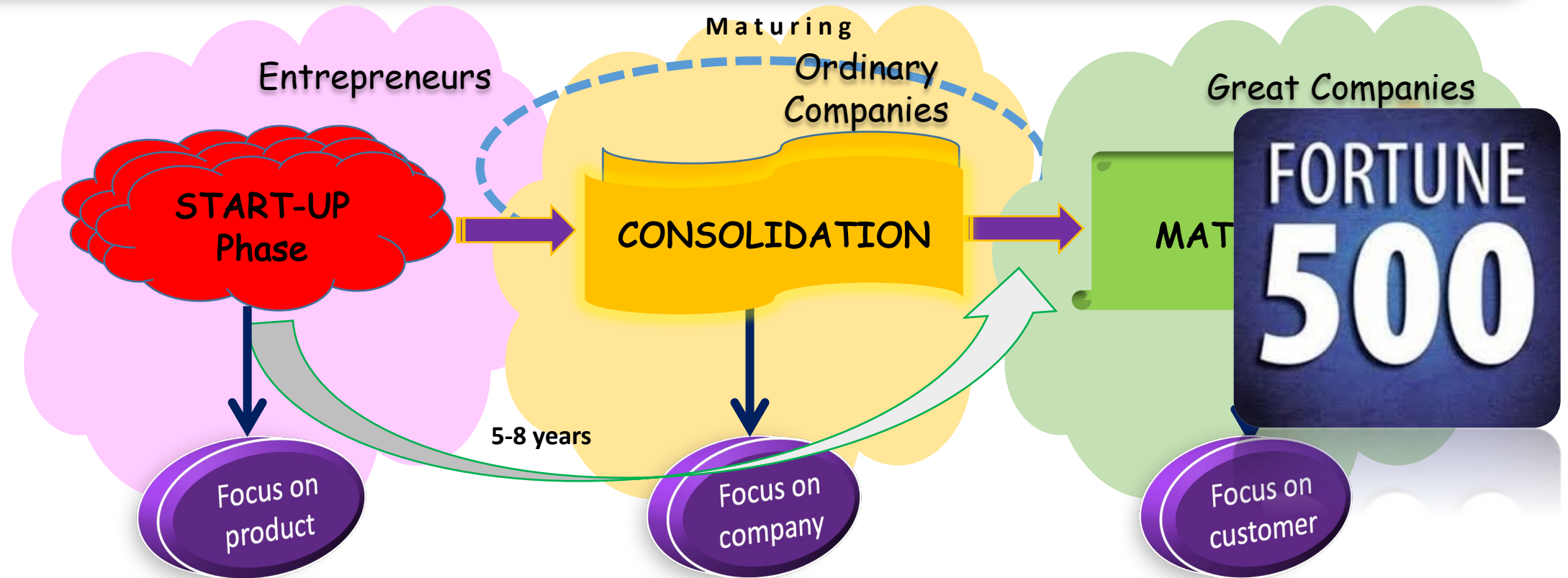
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Presentation Highlights

- What is this **'thing'** called release management?
And why should you care?
- How do we **'manage'** our software releases?
- What has release management got to do with the **'survival'** of your company?

Lifespan of a software company

The Silicon Valley Model



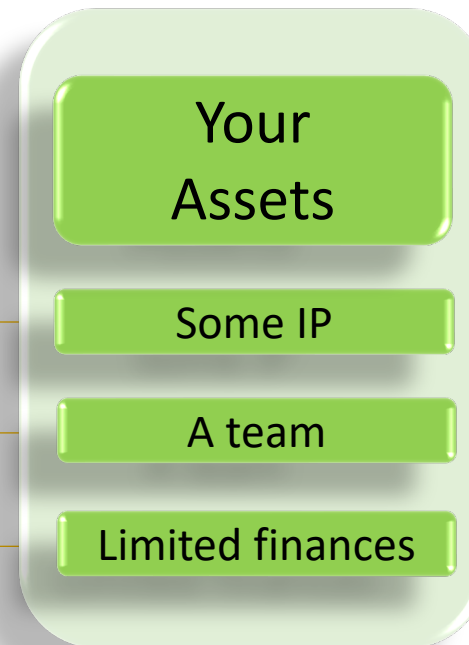
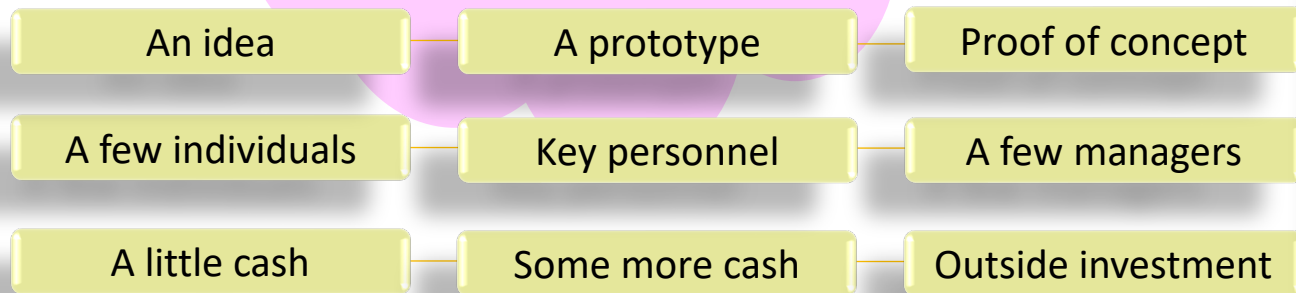
Lifespan of a software company

The Silicon Valley Model



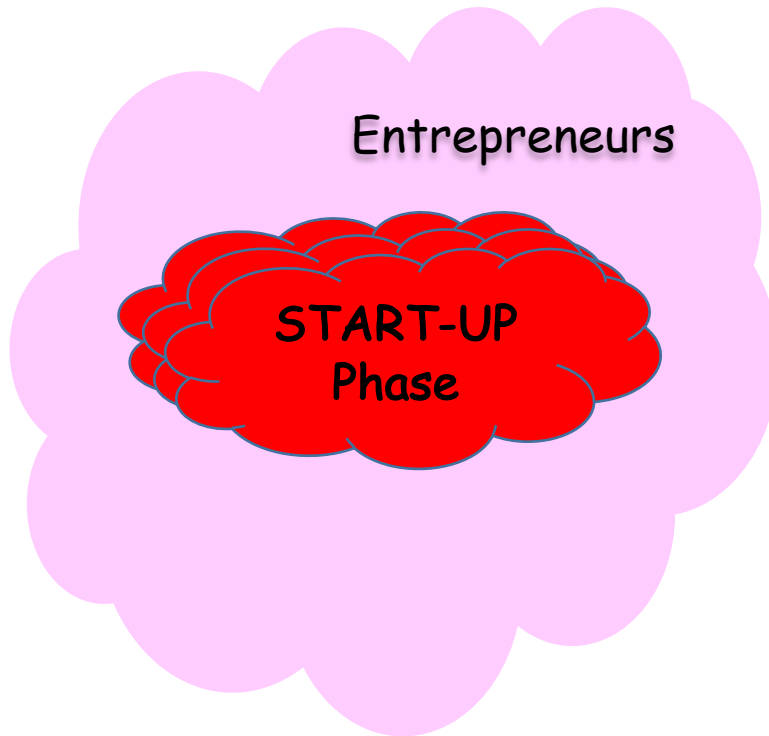
Entrepreneurs

**START-UP
Phase**



Lifespan of a software company

The Silicon Valley Model



Your Assets

Some IP

A team

Limited finances



Your Liabilities

Financial

Opportunity cost

Competition

Time bomb (RAT)



Economically speaking



BANKRUPT

bright!DE

Empty **SHELVES**

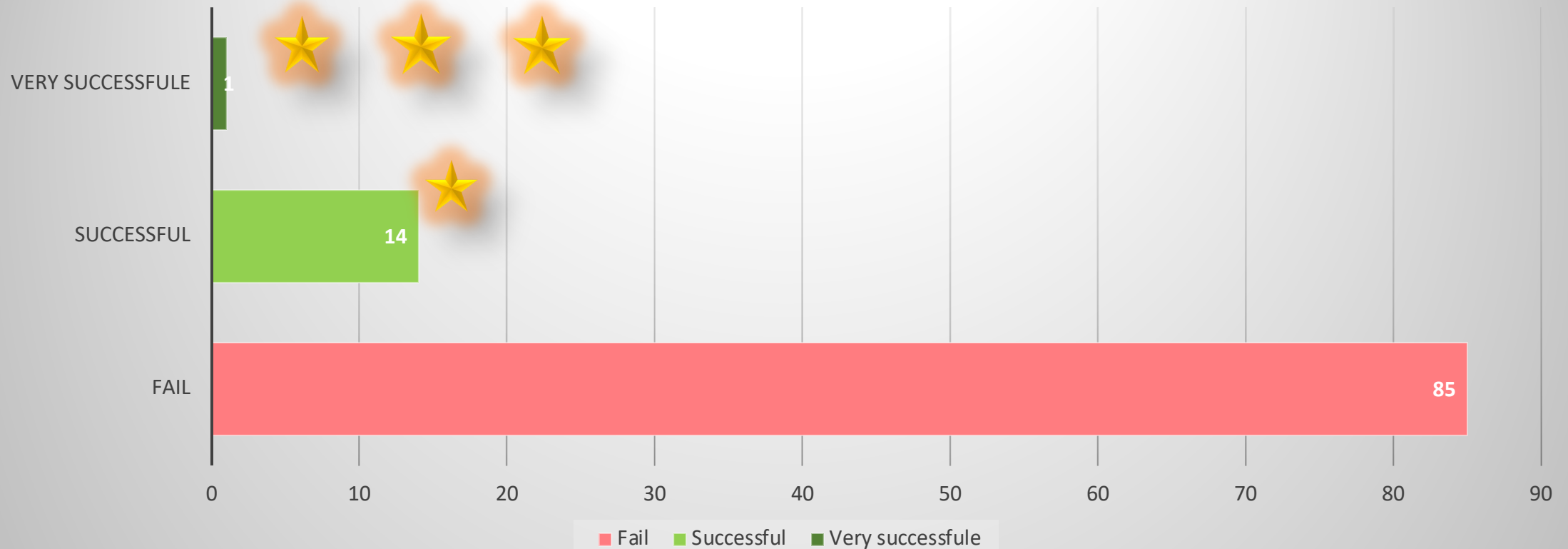


Economically speaking ...

The Silicon Valley Model



Startup success and failure rates



Economically speaking ...



BANKRUPT



Ide
a

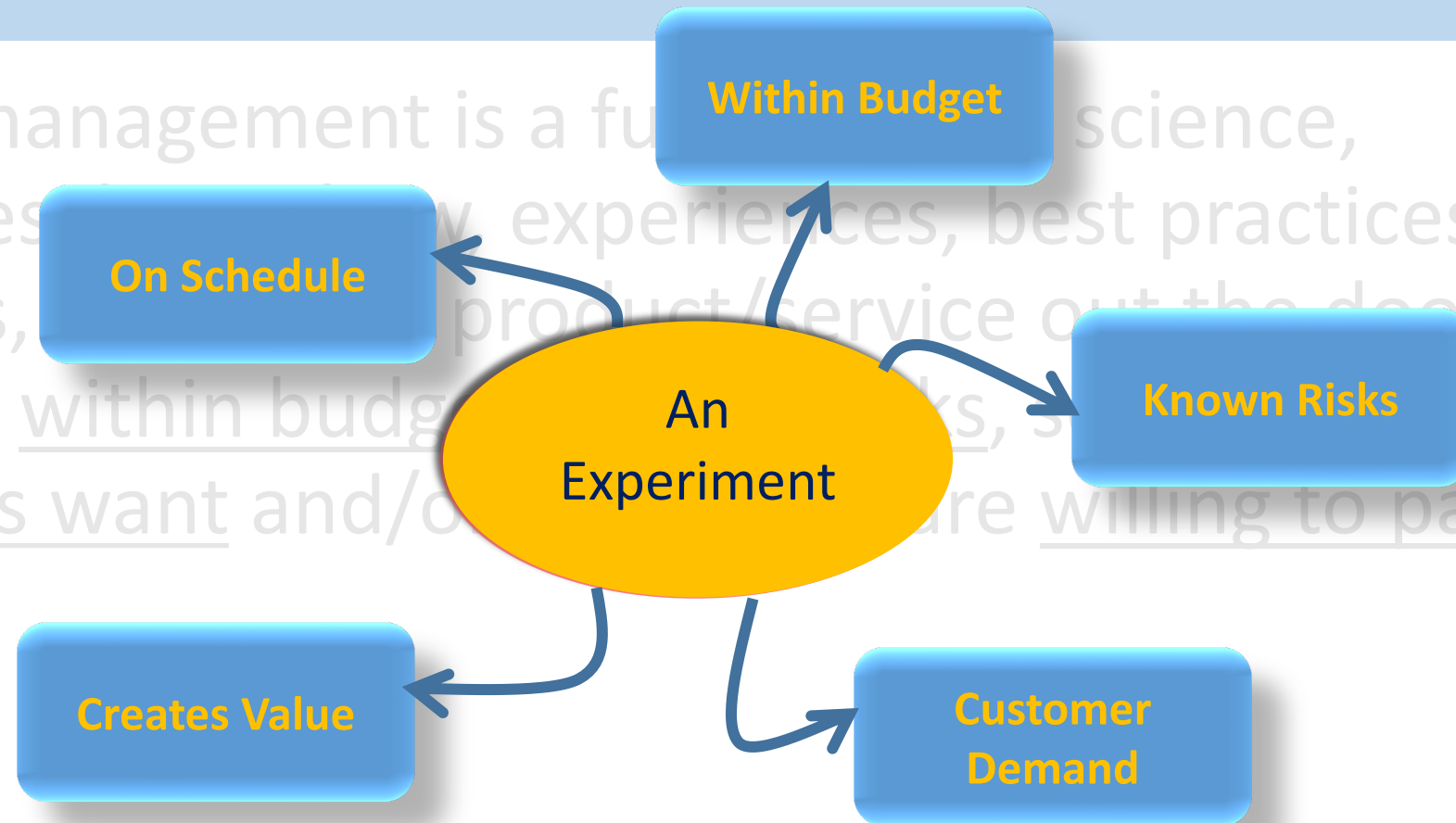
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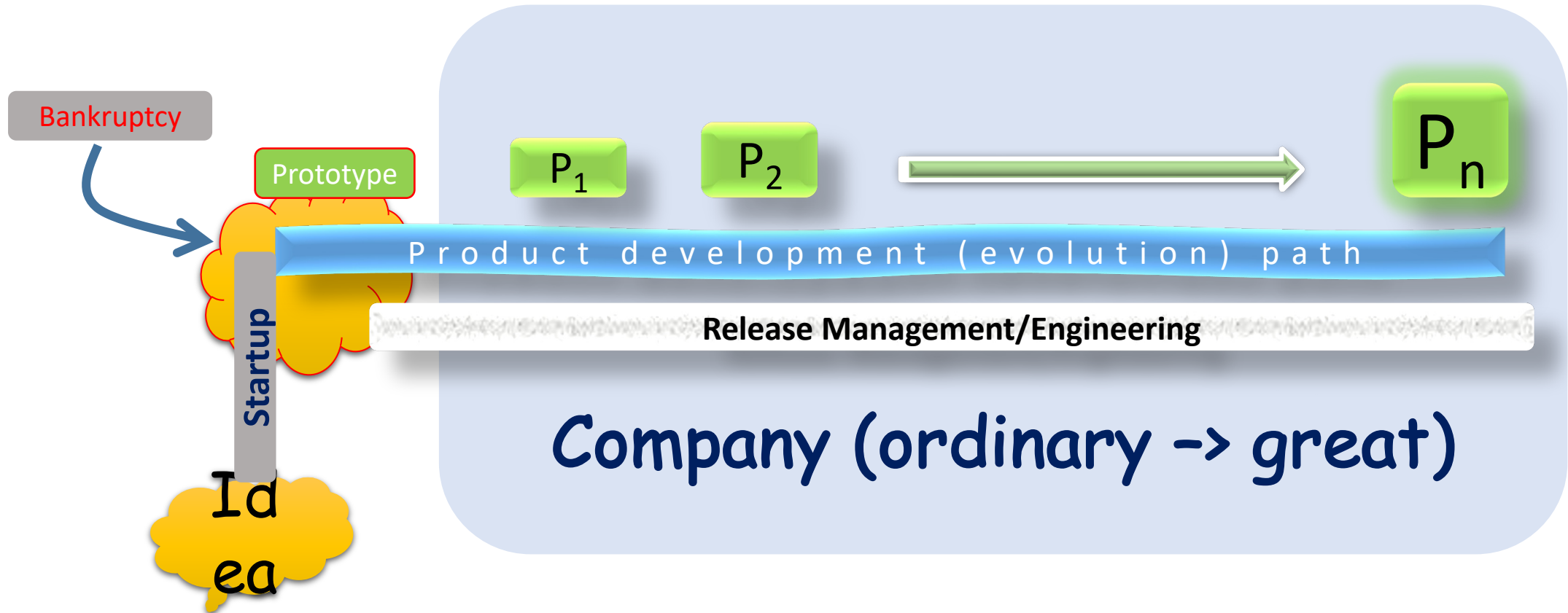
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Caveat ...

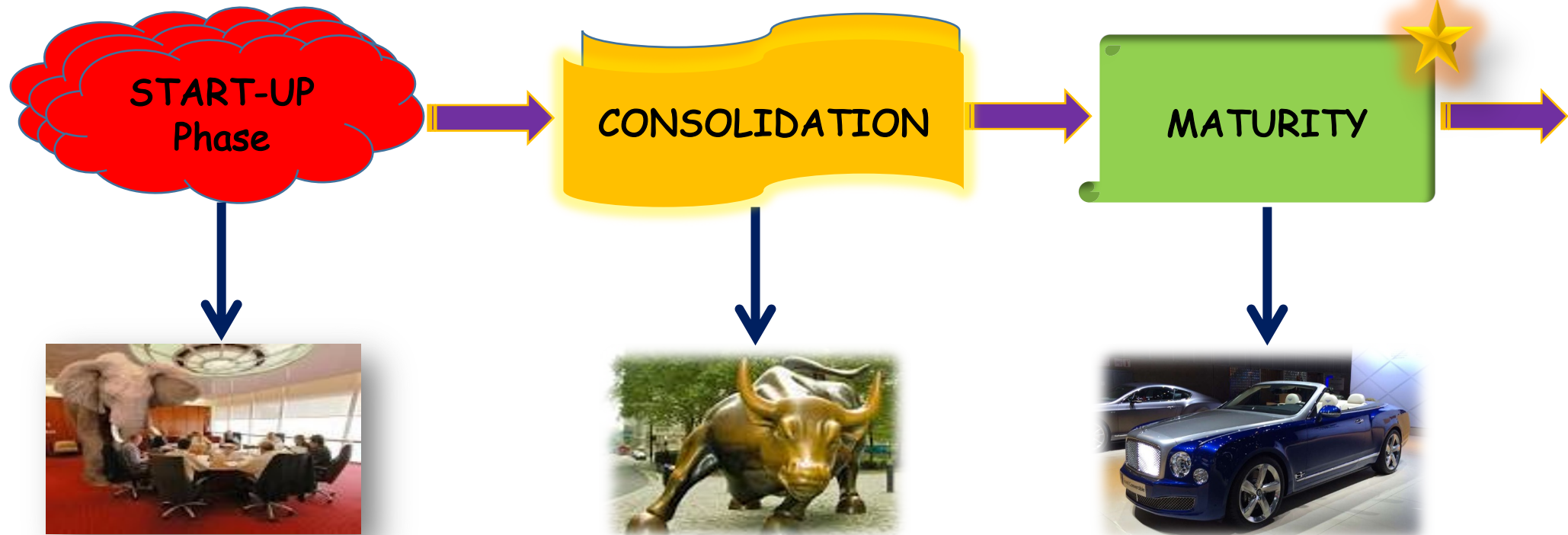


Release management is a full science, techniques, experiences, best practices, trade-offs, product/service out the door on schedule, within budget, and with known risks, that customers want and/or are willing to pay for.

Your top challenge ...



The beast!



Components of release management

Policy

What to release when

(Major, Minor, Micro/Patch)

Processes & procedures

Build process

Change management

Handling of defects

Milestones & coordination

Production launch

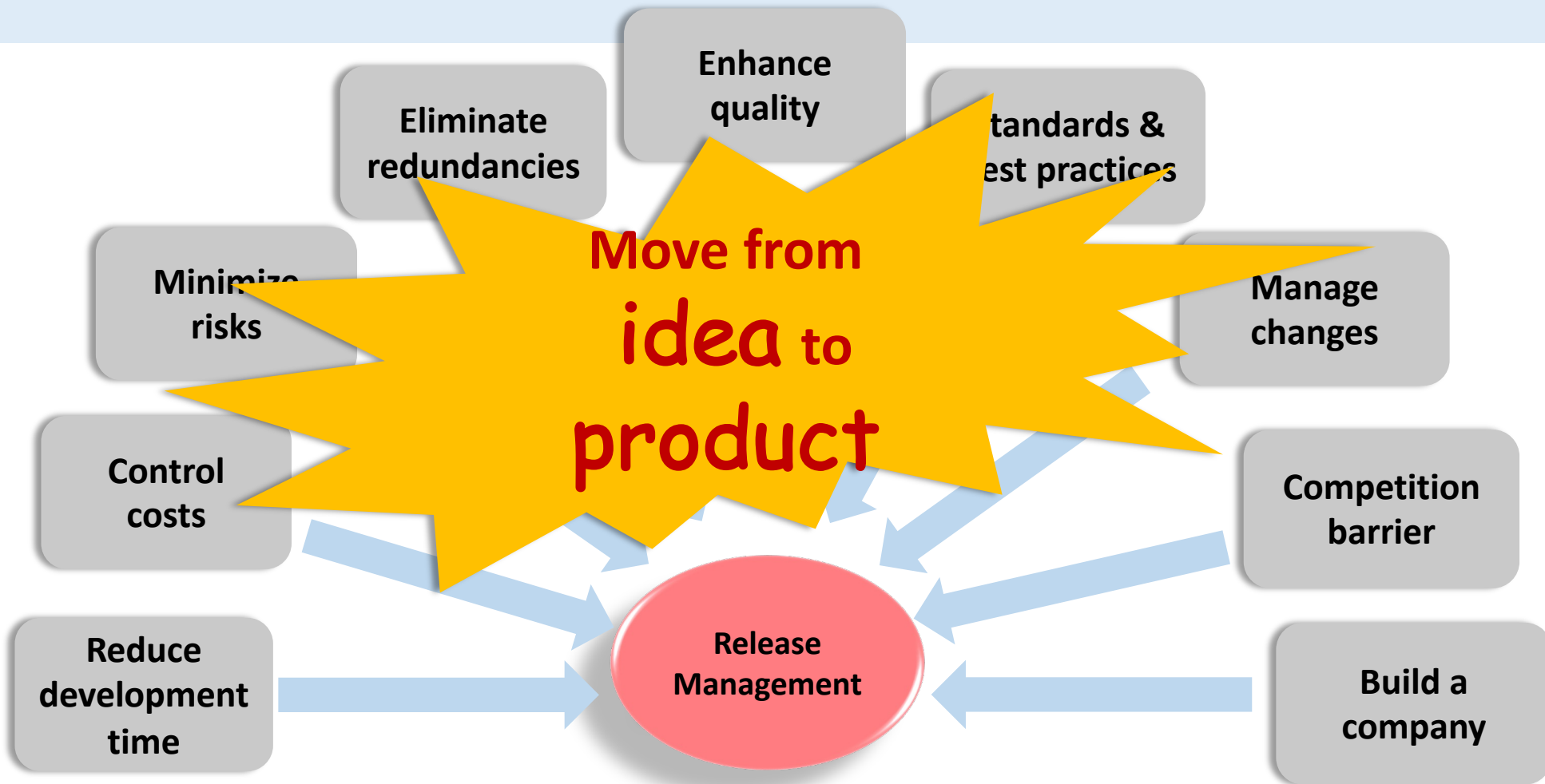
Infrastructure & tools

Source control and configuration management

Defect management

Automation framework

So, why should you care?



Popular software engineering models

- SEI CMMI (Capability Maturity Model Integrated)



- IEEE



- ITIL



Presentation Highlights

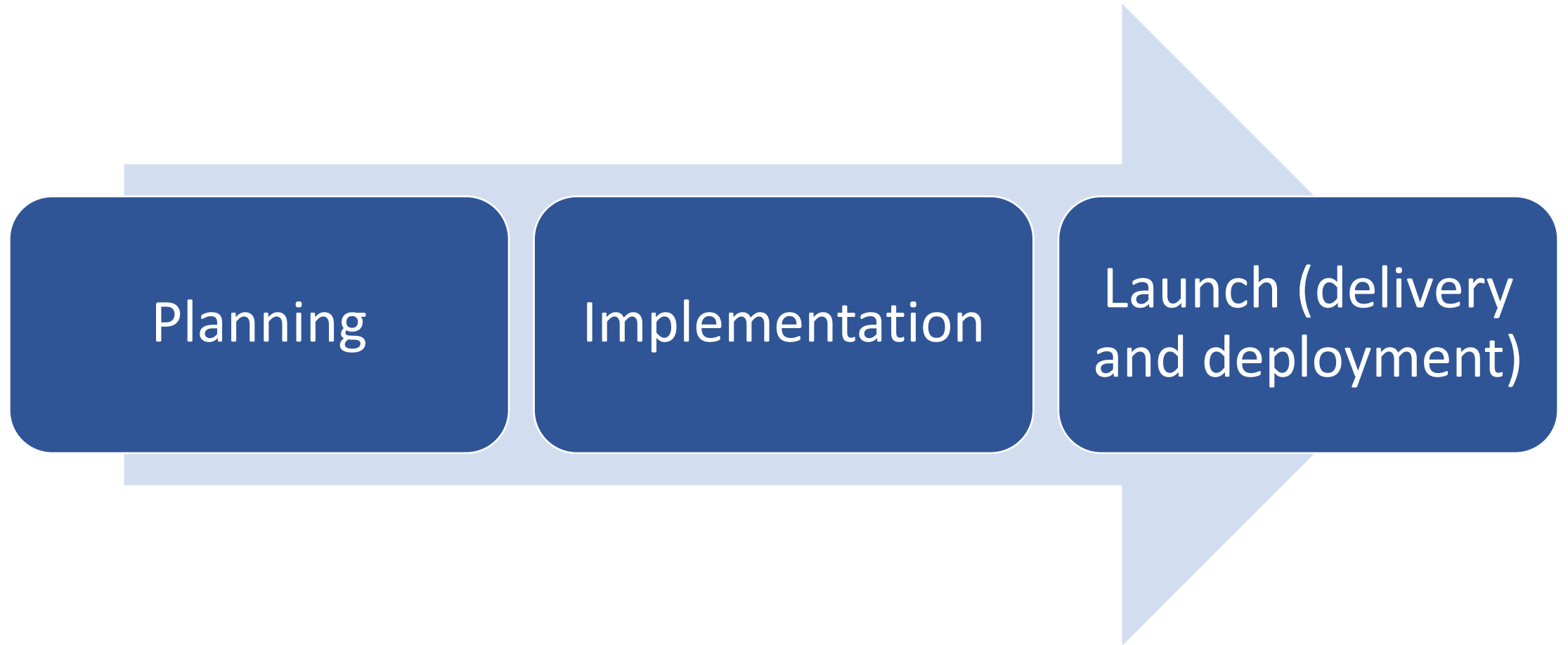
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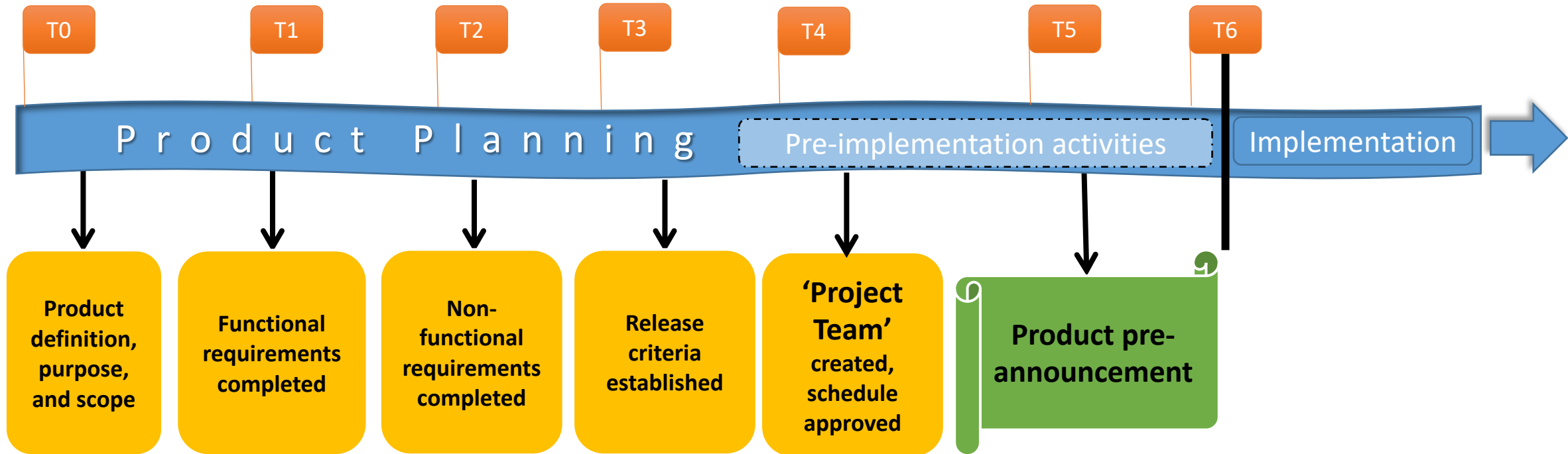
A paradigm shift



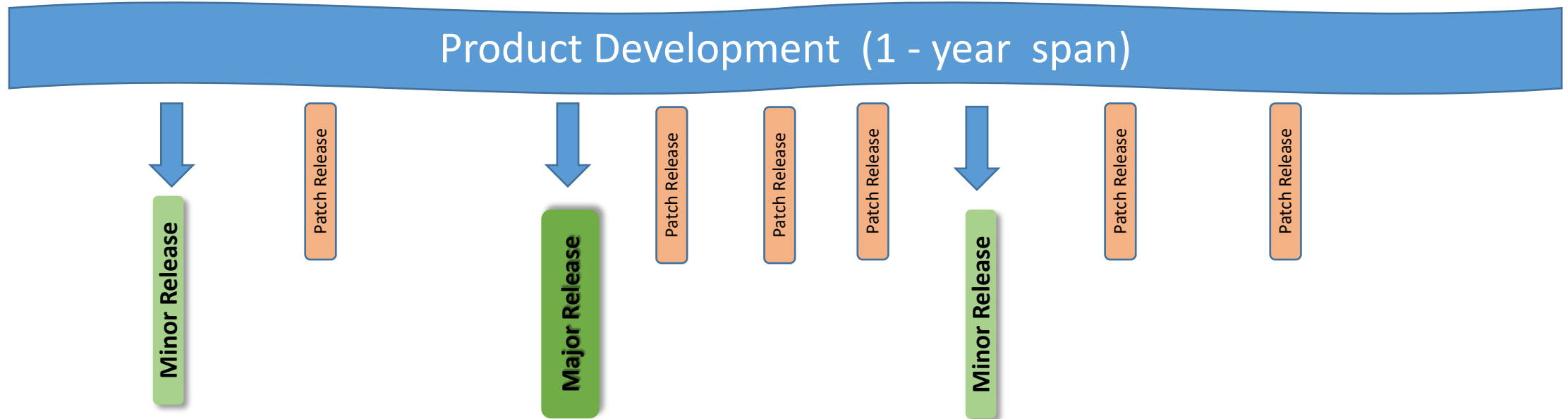
Managing a release



Release planning

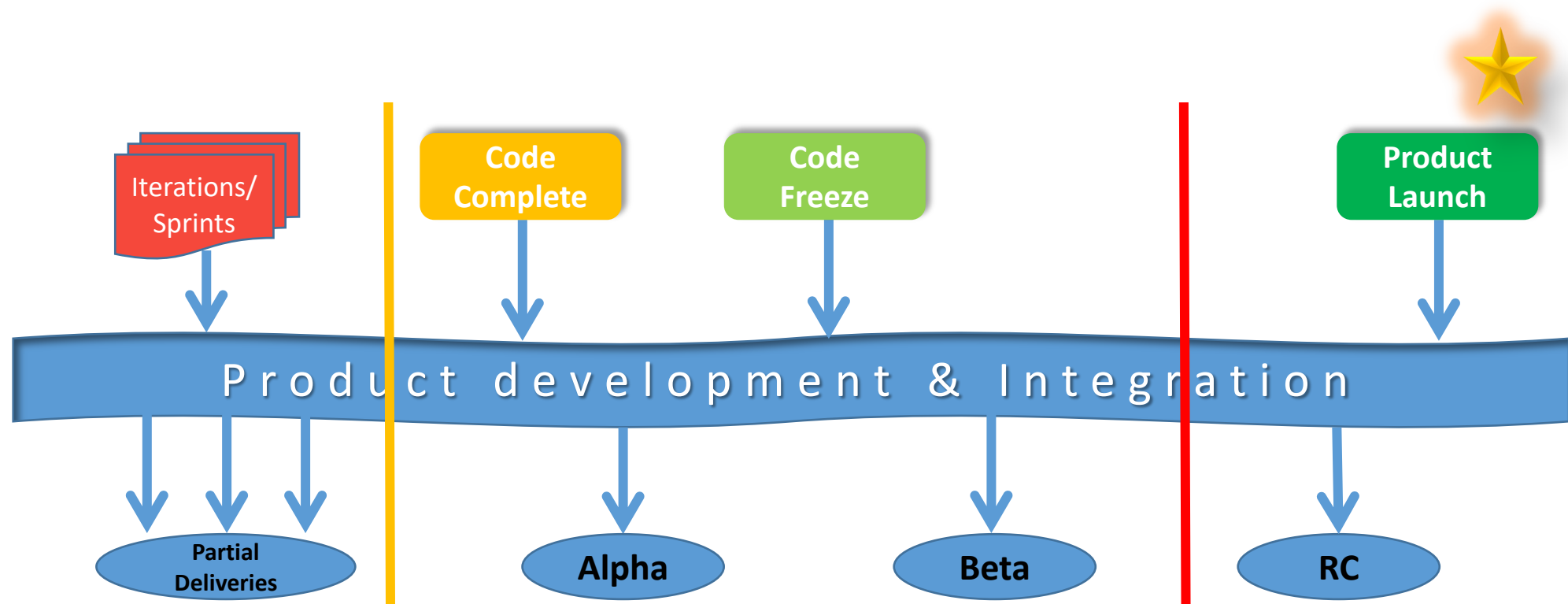


Typical release cycles



Release implementation

Develop, integrate, deliver/deploy



Release implementation

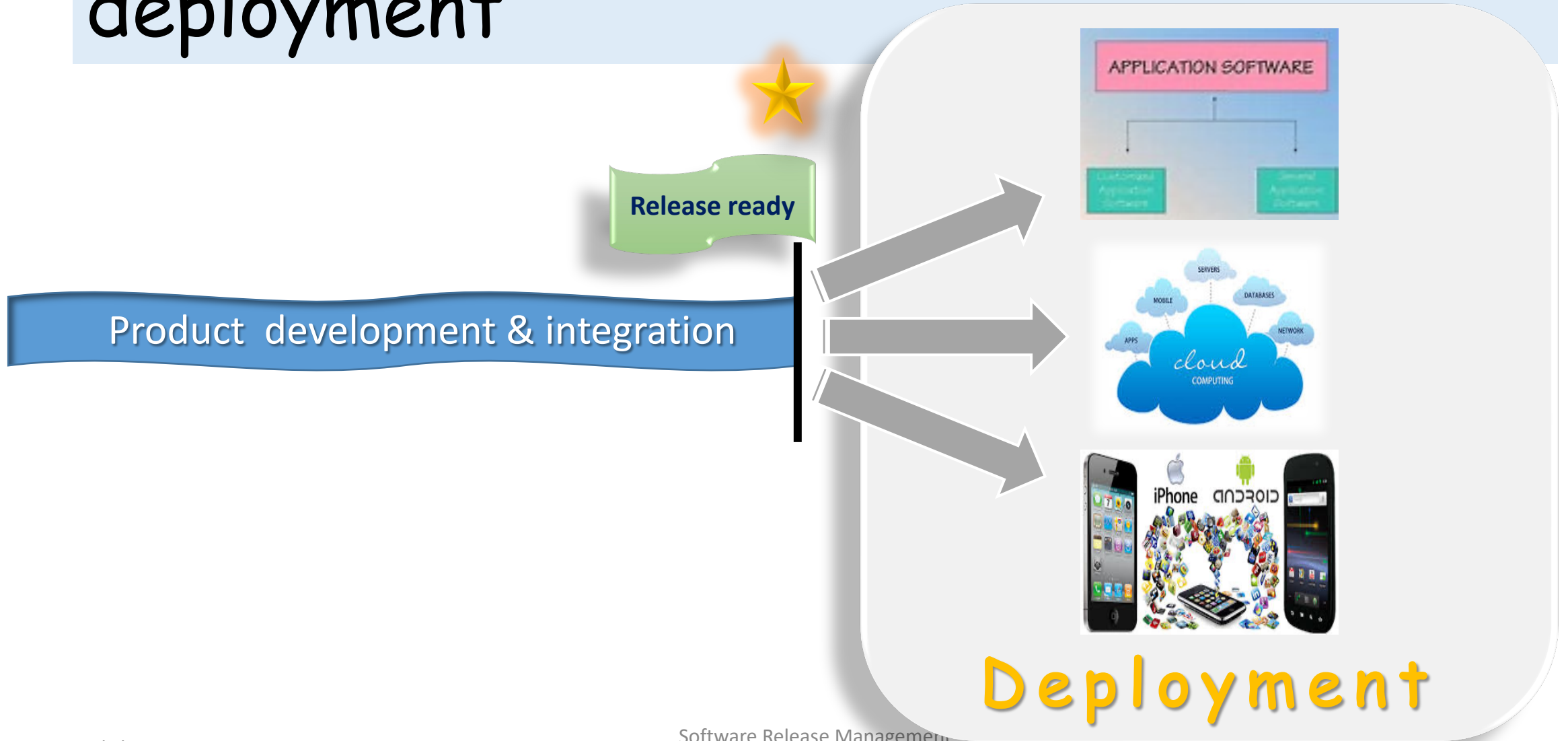
Develop, integrate, deliver/deploy

- Infrequent integrations
- Scheduled delivery
- Delayed user feedback

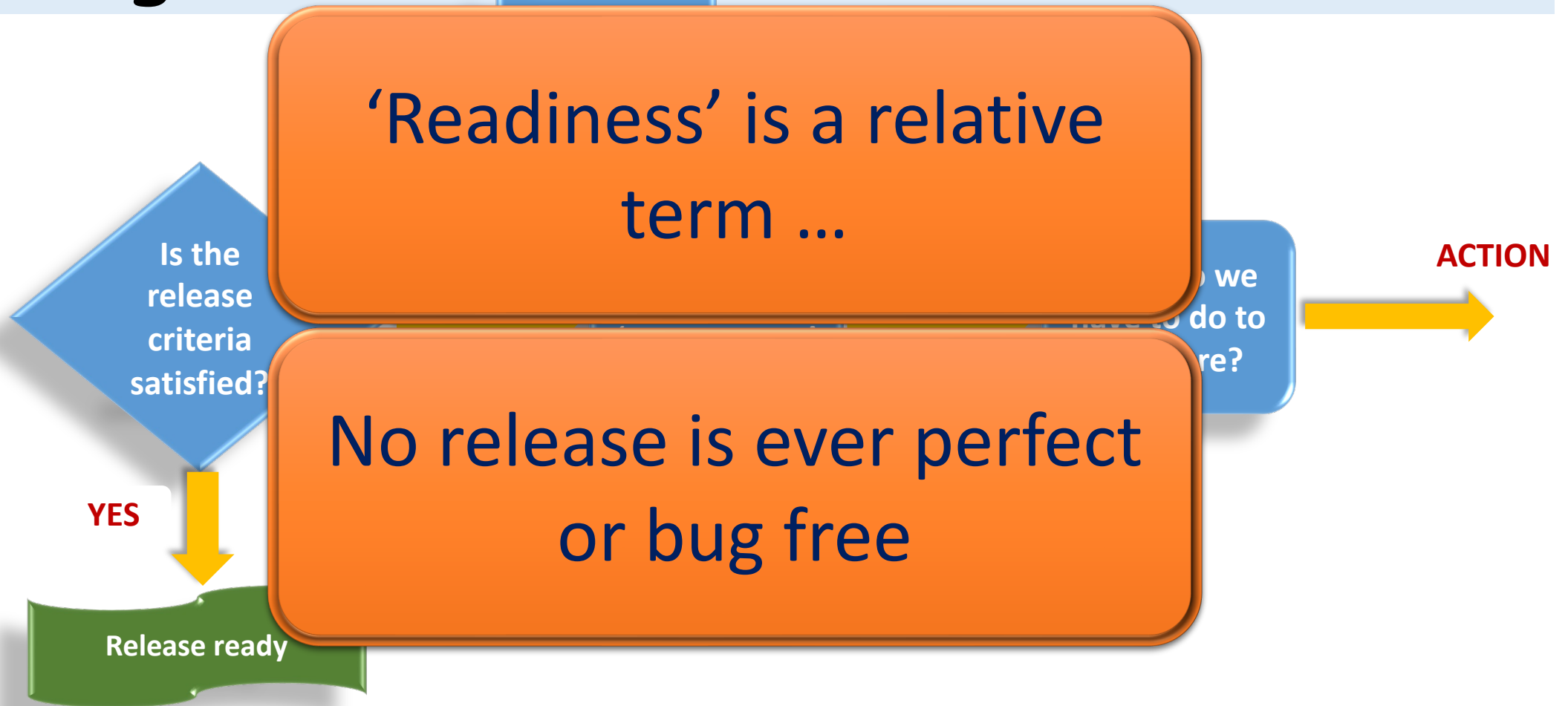
Continuous Integration, Continuous Deployment

- Frequent (change-driven) integrations & builds
- Non-scheduled delivery & deployment
- Immediate user feedback

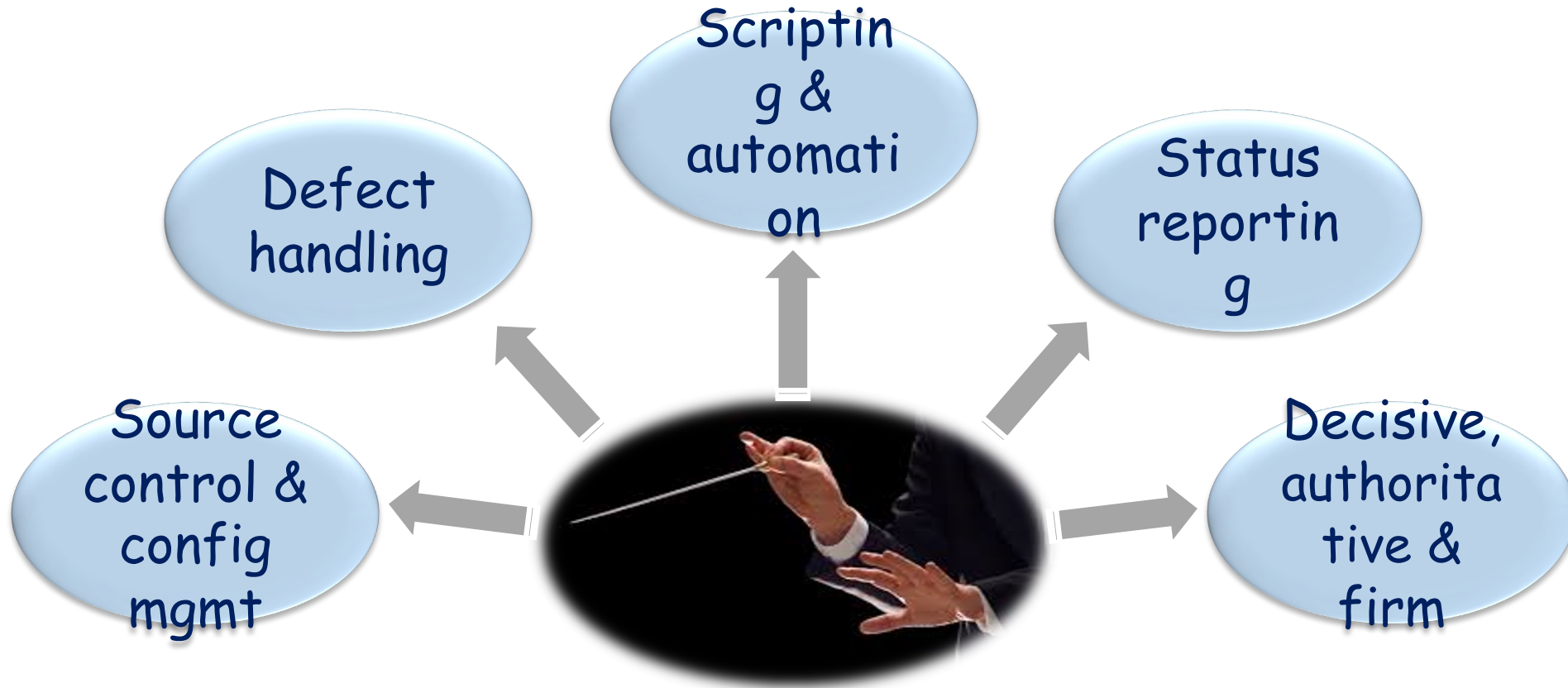
Release launch: delivery and deployment



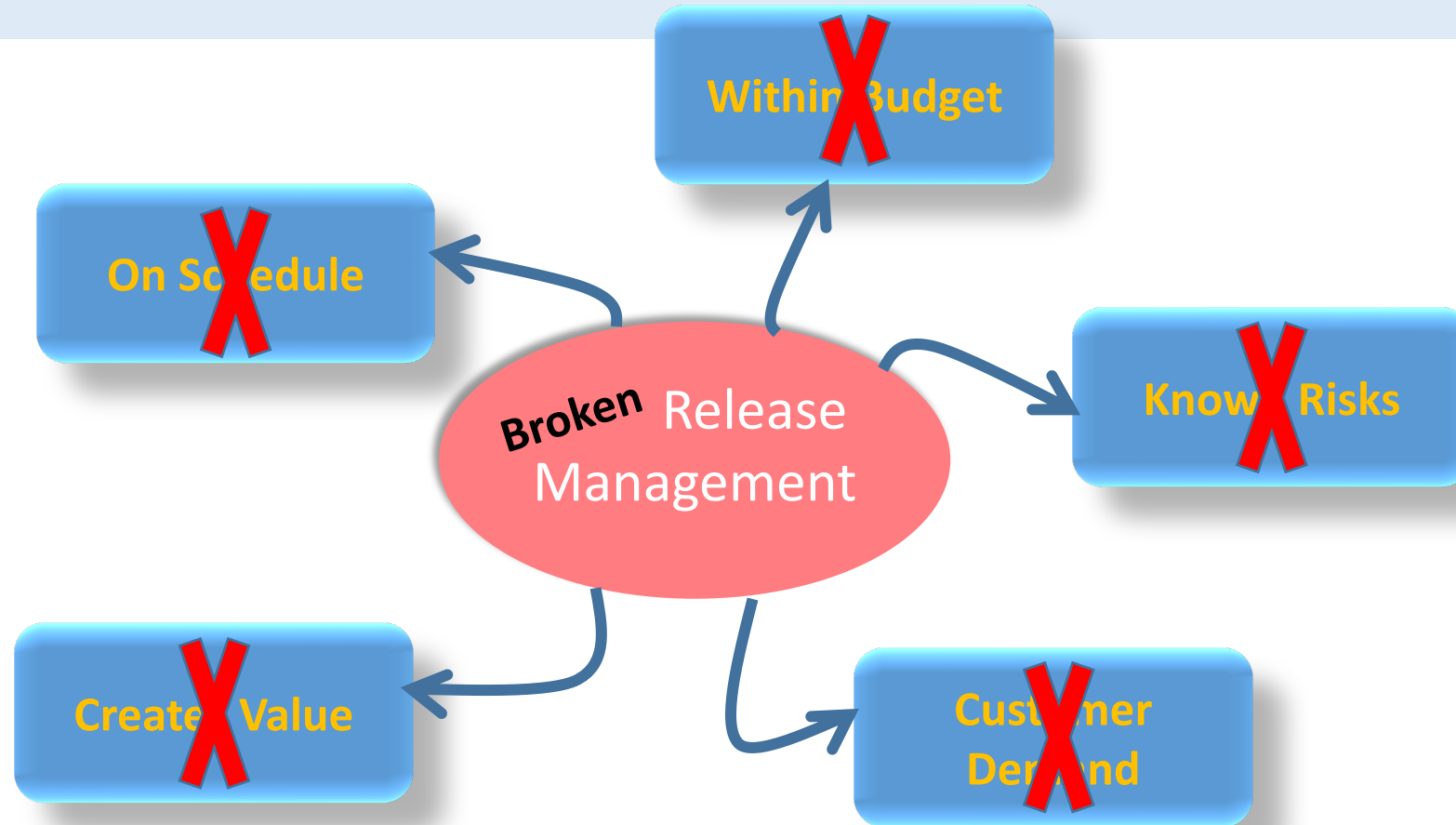
The meaning of 'readiness' in release management



Role of the 'Release Coordinator'



Symptoms of release failures



Root causes of release failures



Ambiguous release policy (Major, Minor, Micro/Patch, ...)

Poor release planning and execution

Resource deficiencies

Change mismanagement

Broken infrastructure

Unrealistic user/customer expectation

Lack of focus and coordination

Root causes of release failures



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Release management in open source projects

- <http://oss-watch.ac.uk/resources/releasemanagement>
(general notes)
- www.flosshub.org/system/files/51-55.pdf
Linux, Subversion, Apache HTTP Server

Presentation Highlights

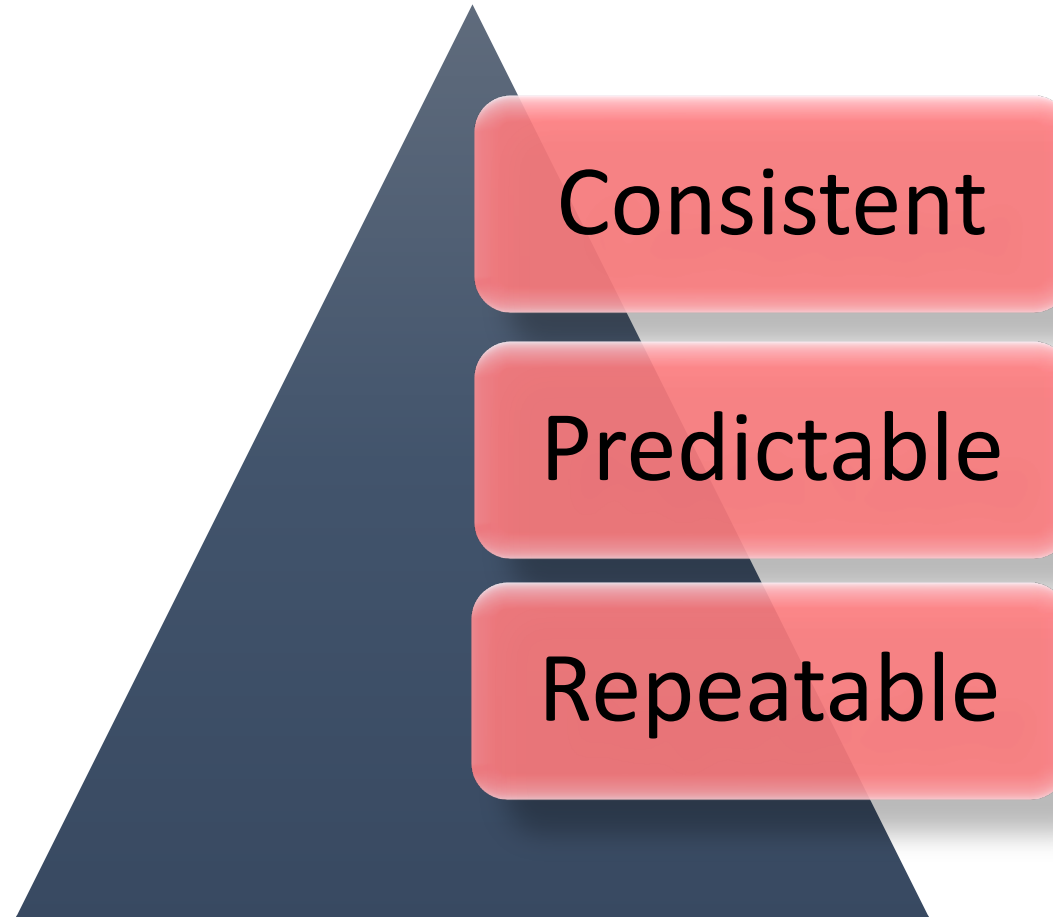
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So, why do you need to manage your releases?



Release management is not a goal;
It's your path to corporate maturity.

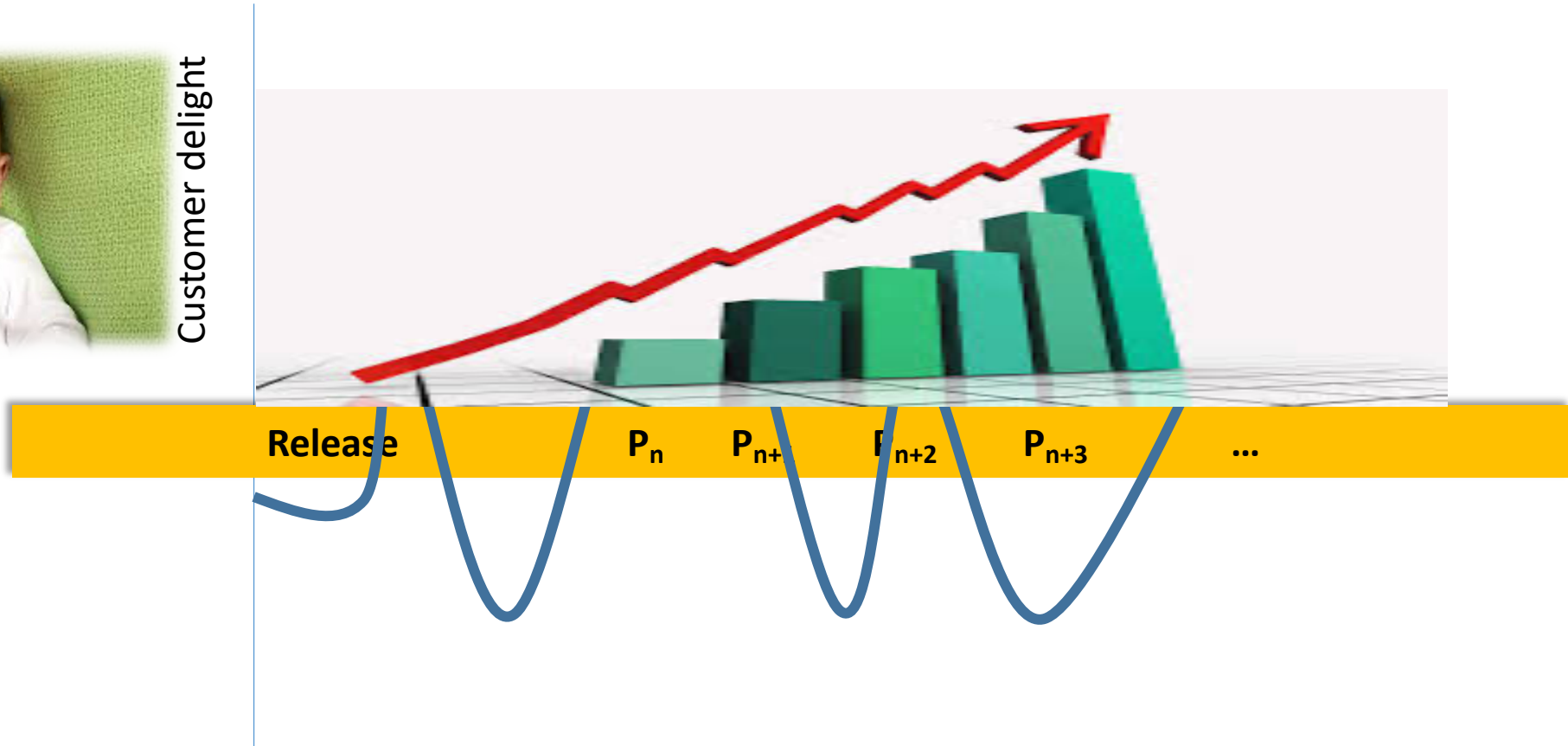
How do you know your release management is working?



Consistency



Customer delight



Predictability



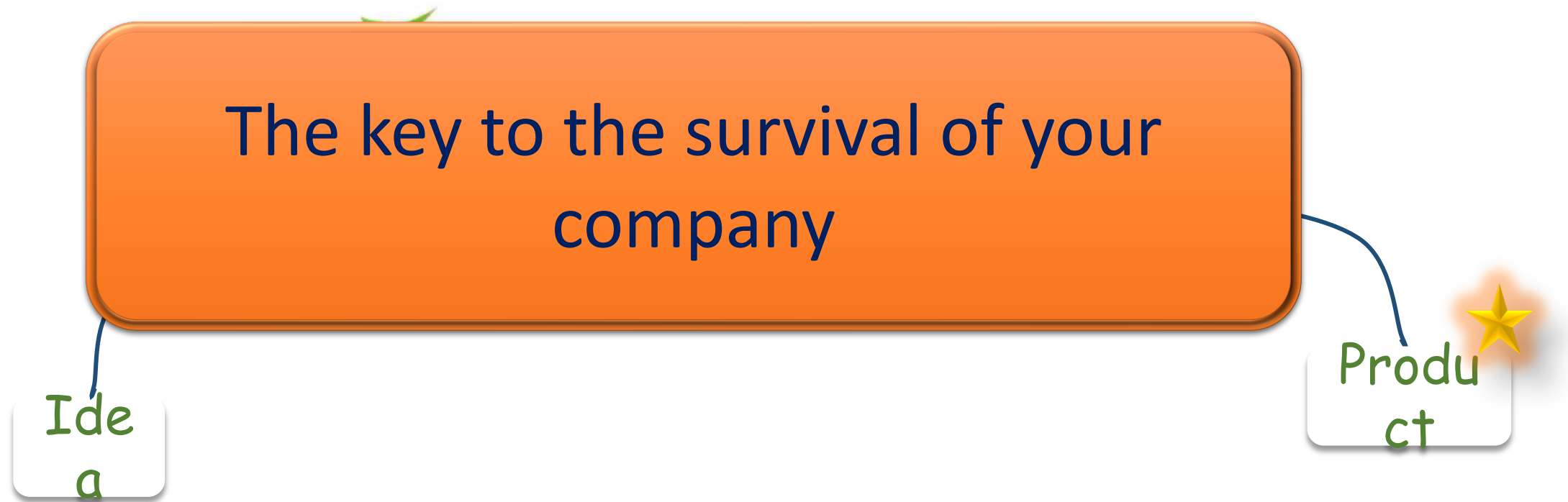
- Is this doable?
- Can we do it?
- When can we deliver it, and at what cost?

Repeatability



- Repeat what works
- Discard what doesn't work
- Learn and move forward

In a nutshell ...



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My last thought

Release
Management is ...



**A critical software
engineering
practice**

**A 'Core
Competency'**

**A survival
strategy**

Thank you!