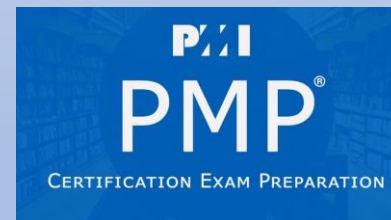
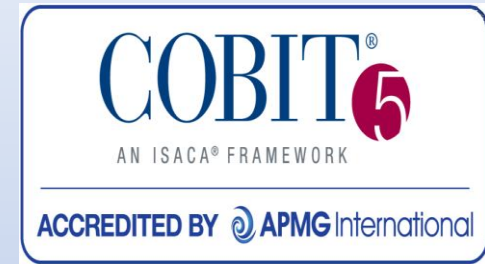


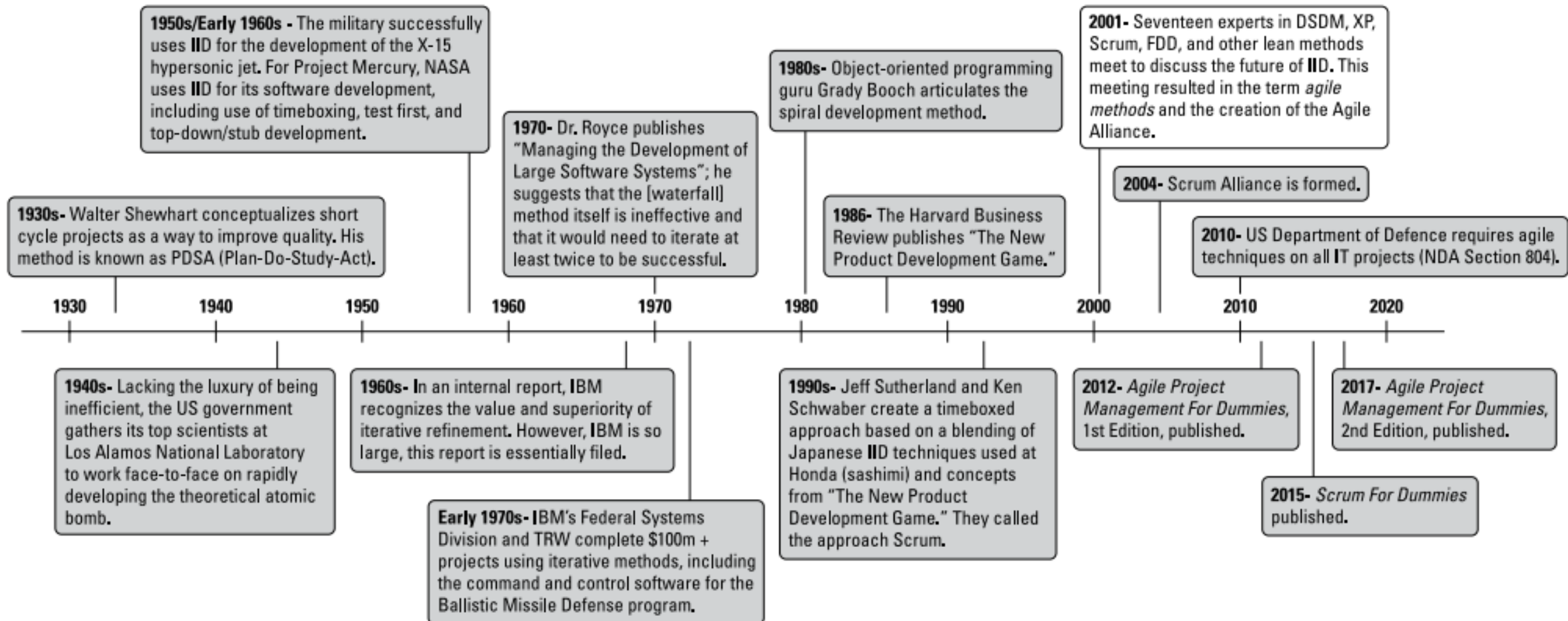
Release Management

About Me



Mohammed Syful Islam

Agile History



Agile Methodologies and Frameworks

1970s

Structured programming, 1969
Cap Gemini SDM, 1974 (PANDATA)

1980s

Structured systems analysis and design method (SSADM), 1980
Information Requirement Analysis/Soft systems methodology

1990s

Object-oriented programming (OOP), 1960s/1990s
Rapid application development (RAD), 1991
Dynamic systems development method (DSDM), 1994
Scrum, 1995
Team software process, 1998
Rational Unified Process (RUP), 1998
Extreme programming, 1999

2000s

Agile Unified Process (AUP), 2005
Disciplined agile delivery (DAD)

2010s

Scaled Agile Framework (SAFe)
Large-Scale Scrum (LeSS)

SCRUM

XP

Battlefield
Agility

Kanban

DAD

Agile
Modelling

AUP

Krystal

DSDM

SAFe

Nexus

LeSS

Agile Values

The Agile Manifesto – a statement of values

Individuals and
interactions

over

Process and tools

Working software

over

Comprehensive
documentation

Customer
collaboration

over

Contract negotiation

Responding to
change

over

Following a plan

The 12 agile principles*

1 Satisfy the **customer**



2 Welcome **change**



3 Deliver **frequently**

sprint 1	sprint 2	sprint 3	sprint 4	sprint 5
story	story	story	story	story
story	story	story	story	story
story	story	story	story	story

4 Work **together**



5 Trust and **support**



6 Face-to-face **conversation**



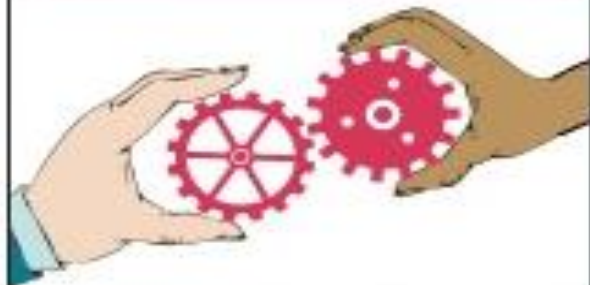
7 Working **software**



8 Sustainable **development**



9 Continuous **attention**



10 Maintain **simplicity**



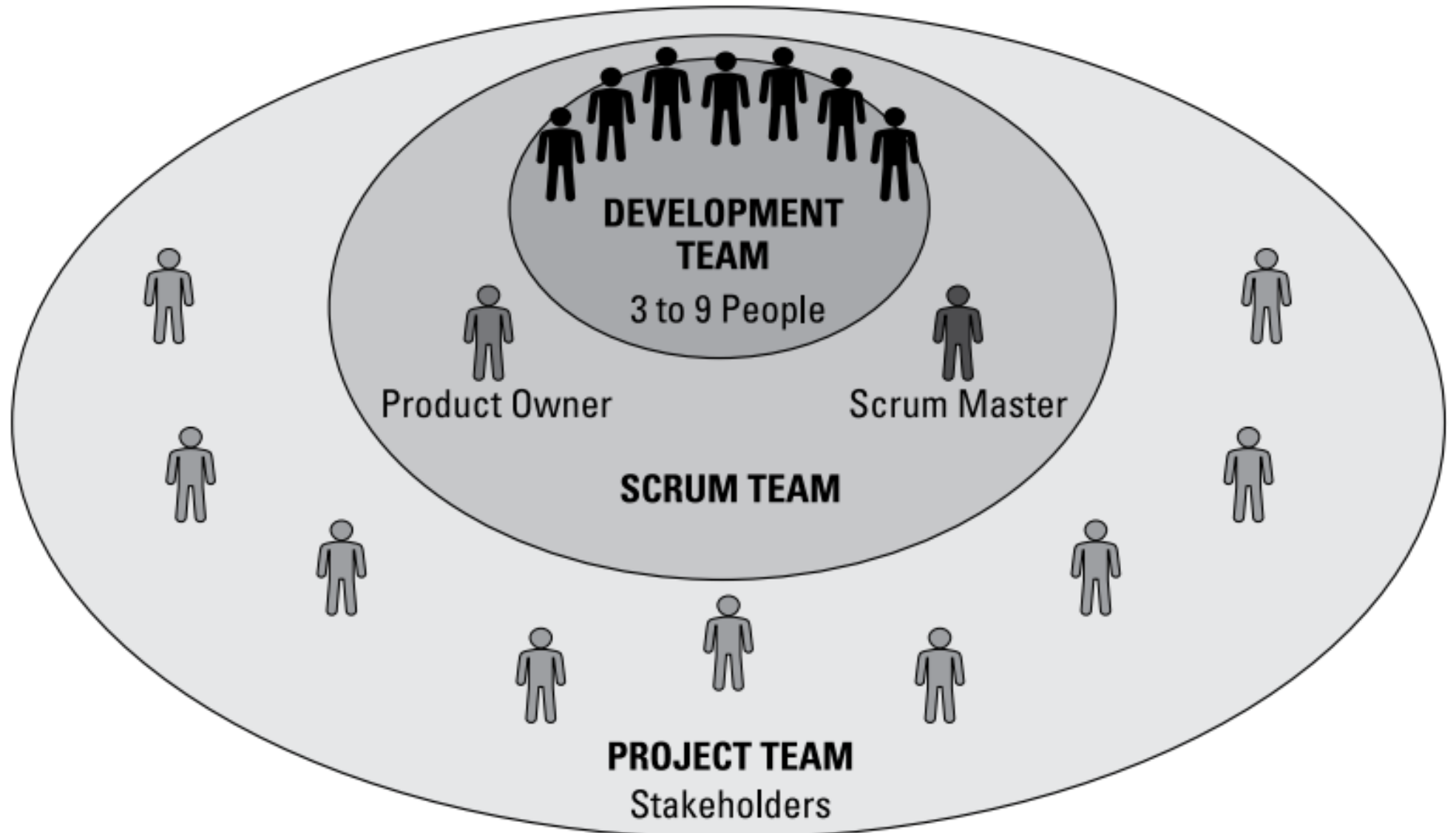
11 Self-organizing **teams**



12 Reflect and **adjust**

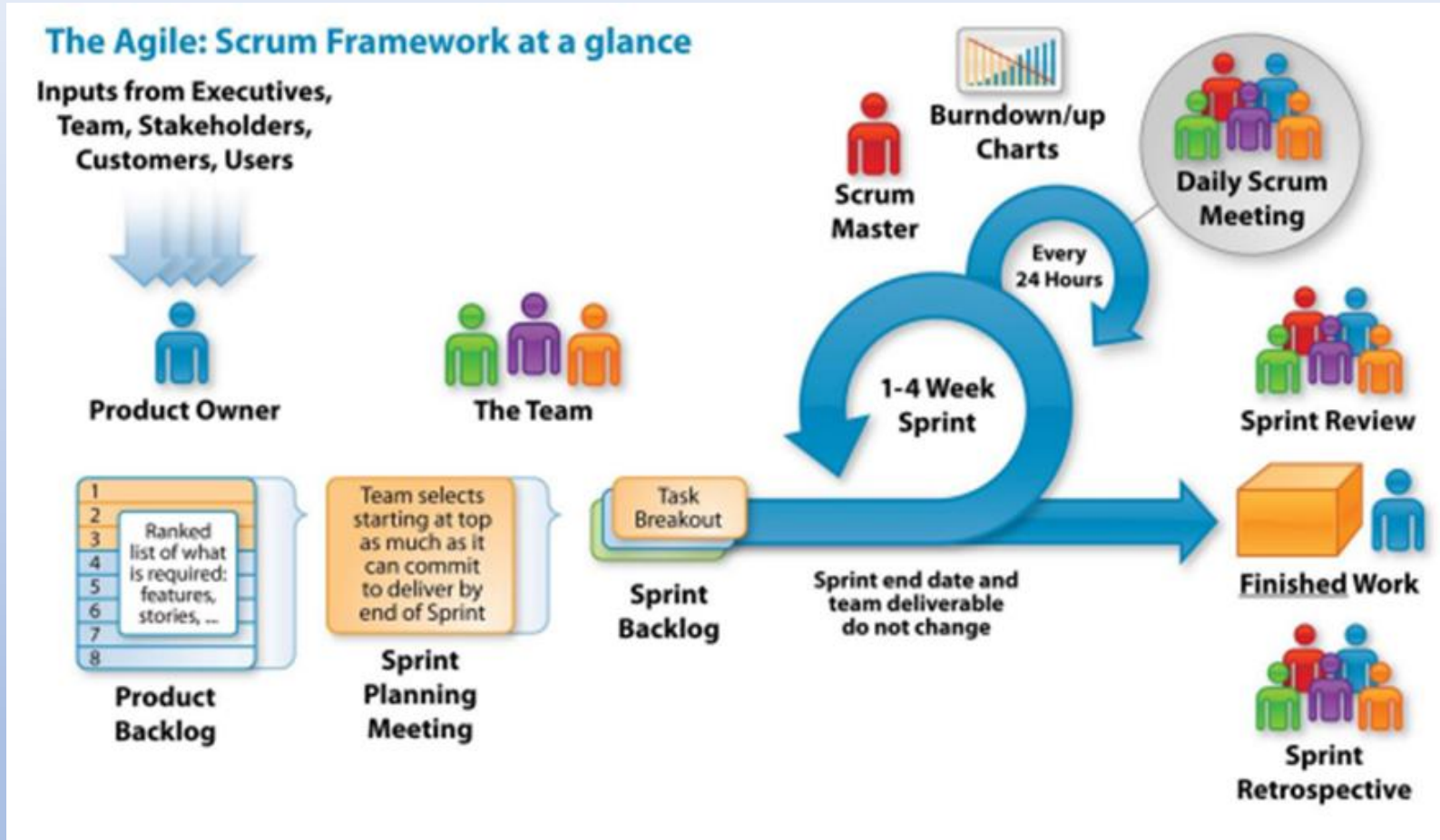


Agile Team

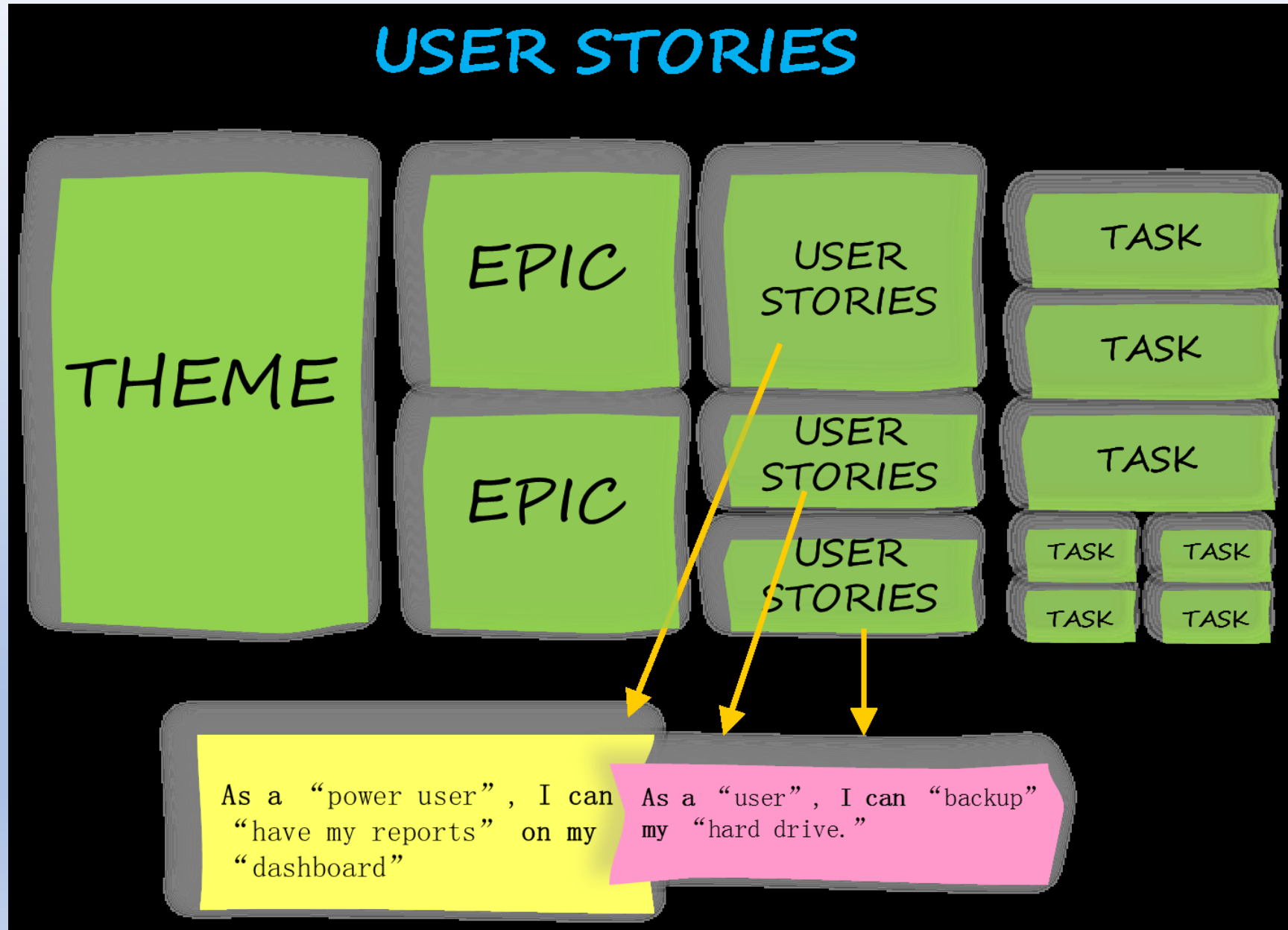


Agile project team, scrum team, and development team.

Agile Process



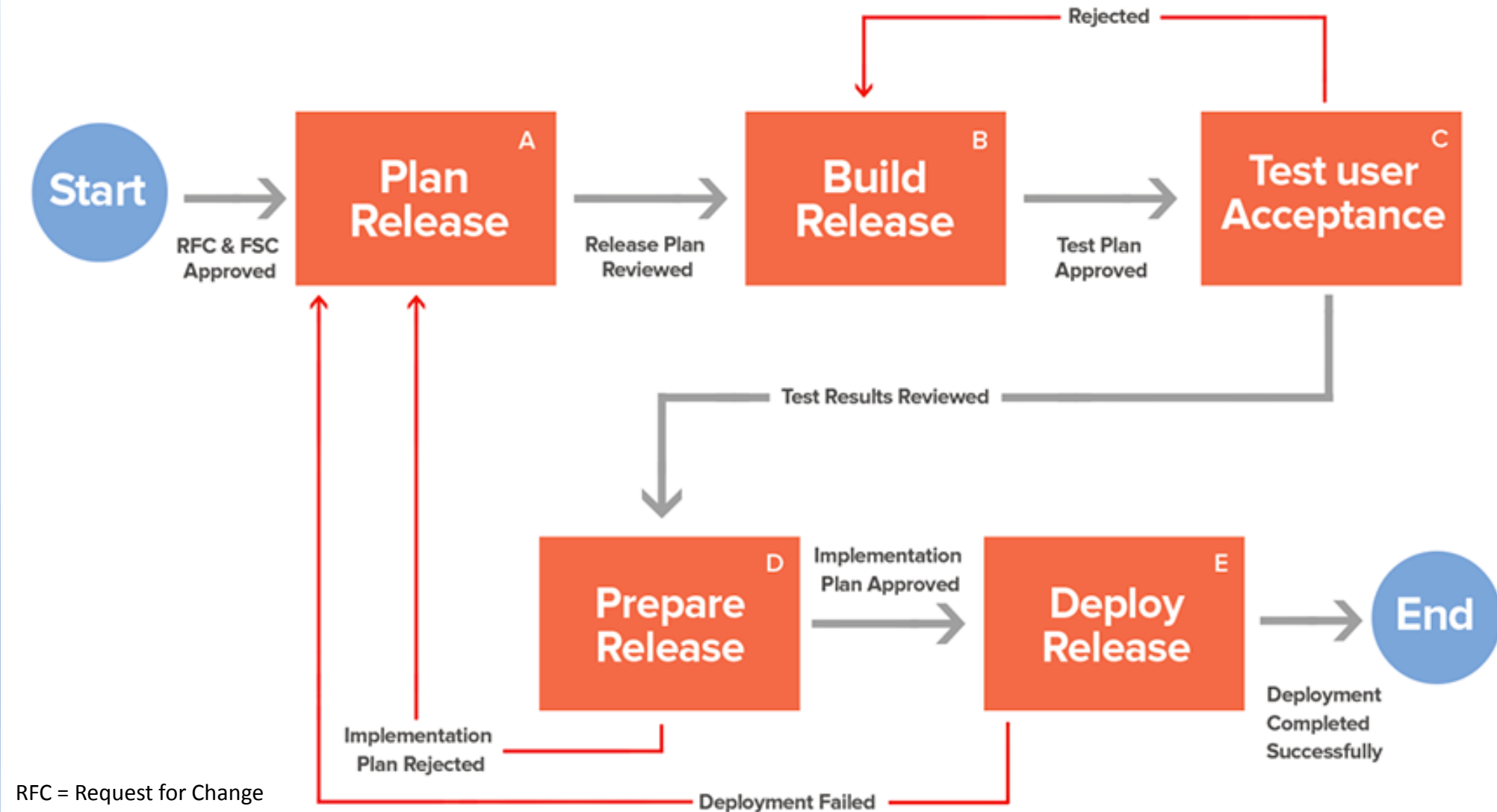
Release Management



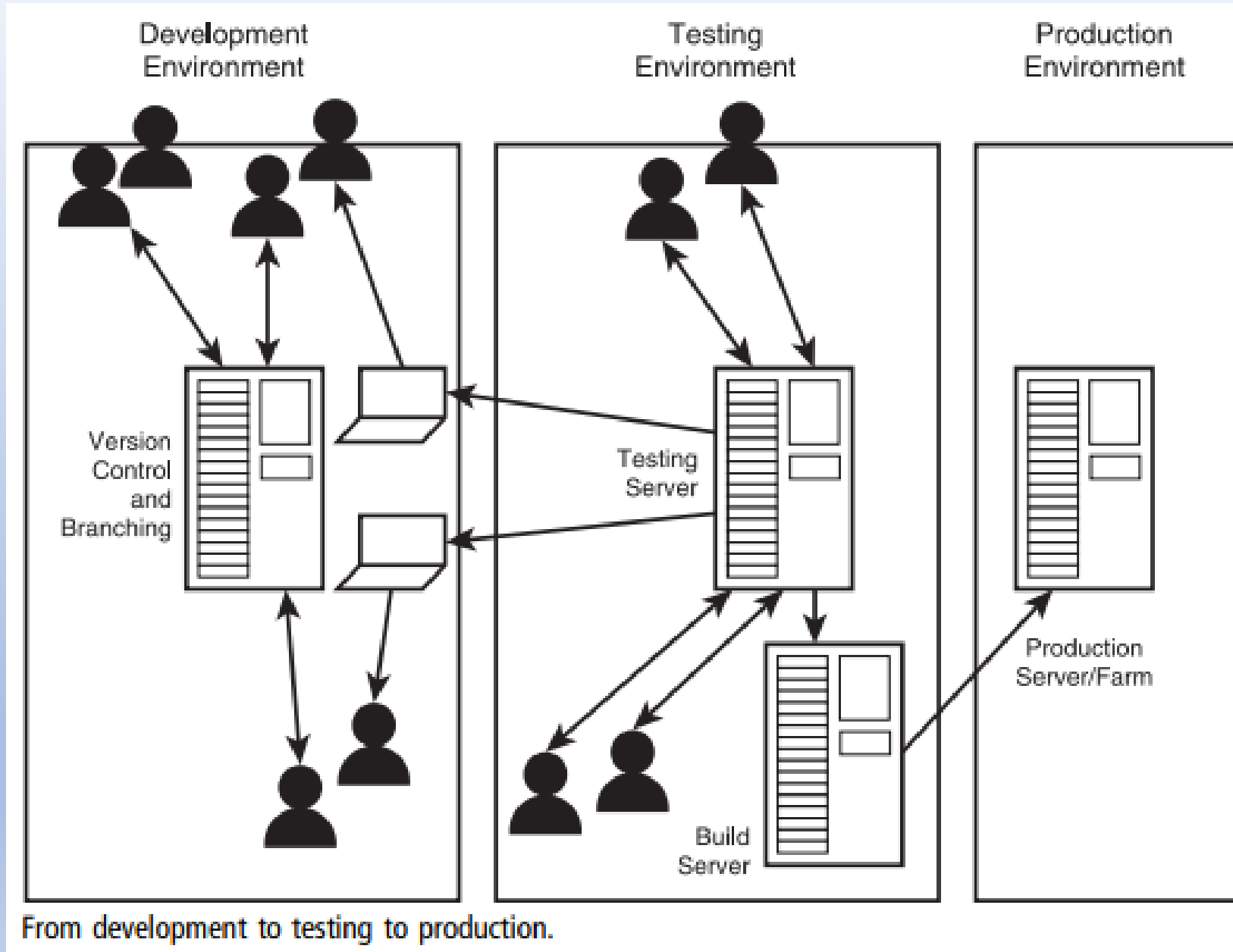
5 levels of Agile Planning



Release Management



Release Management



Release Management

in

Disciplined Agile delivery (DAD)

Disciplined Agile delivery (DAD)

Disciplined agile delivery (DAD) is a process decision framework that enables simplified process decisions around incremental and iterative solution delivery. DAD builds on the many practices espoused by advocates of agile software development, including Scrum, agile modeling, lean software development, and others.

In particular, DAD has been identified as a means of moving beyond Scrum. According to **Cutter Senior Consultant Bhuvan Unhelkar**, "The DAD framework provides a carefully constructed mechanism that not only streamlines IT work, but more importantly, enables scaling.". **Paul Gorans and Philippe Kruchten** call for more discipline in implementation of agile approaches and indicate that DAD, as an example framework, is "a hybrid agile approach to enterprise IT solution delivery that provides a solid foundation from which to scale."

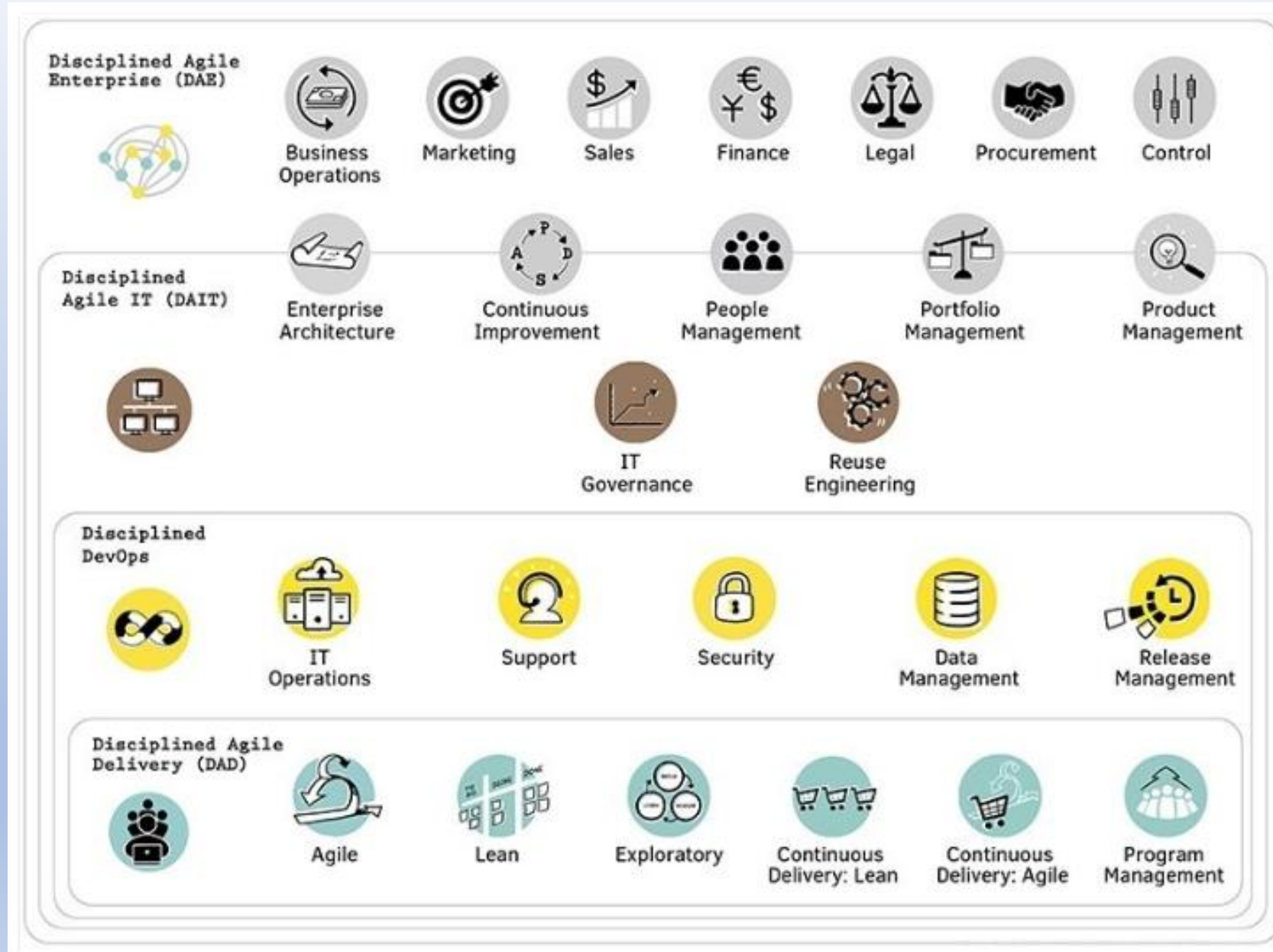
History

"DAD is a second-generation framework that strives to provide a coherent, end-to-end strategy for how agile solution delivery works in practice. DAD is a people-first, learning-oriented hybrid agile approach to IT solution delivery. It has a risk-value lifecycle, is goal-driven, is scalable, and is enterprise aware."

Scott Ambler developed the disciplined agile development process during his time as chief methodologist for **IT at IBM Rational (Summer 2006 to Summer 2012)**. It was developed to provide a more cohesive approach to agile software development; one that fills in the process gaps that are (purposely) ignored by Scrum, and one that is capable of enterprise-level scale. According to **Ambler**, "Many agile methodologies—including Scrum, XP, AM, Agile Data, Kanban, and more—focus on a subset of the activities required to deliver a solution from project initiation to delivery. Before DAD was developed, you needed to cobble together your own agile methodology to get the job done."

The DAD framework was developed as a result of observing common patterns where agility was applied at scale successfully. It reflects the experiences of IBM employees working in the field with various customer organizations, applying agile at scale internally, and from working with various business partners. "The DAD process framework recognizes not only the importance of networks of cross-functional teams, it also explicitly offers support for scaling key practices across complex working environments using techniques that link software development efforts into robust software delivery contexts“.

Disciplined Agile delivery (DAD)



Release Management

- ☐ Principles
- ☐ Scope
- ☐ Why release management ?
- ☐ Defining release management ?
- ☐ The release management mindset
- ☐ Release Management Strategies
- ☐ Parting thoughts





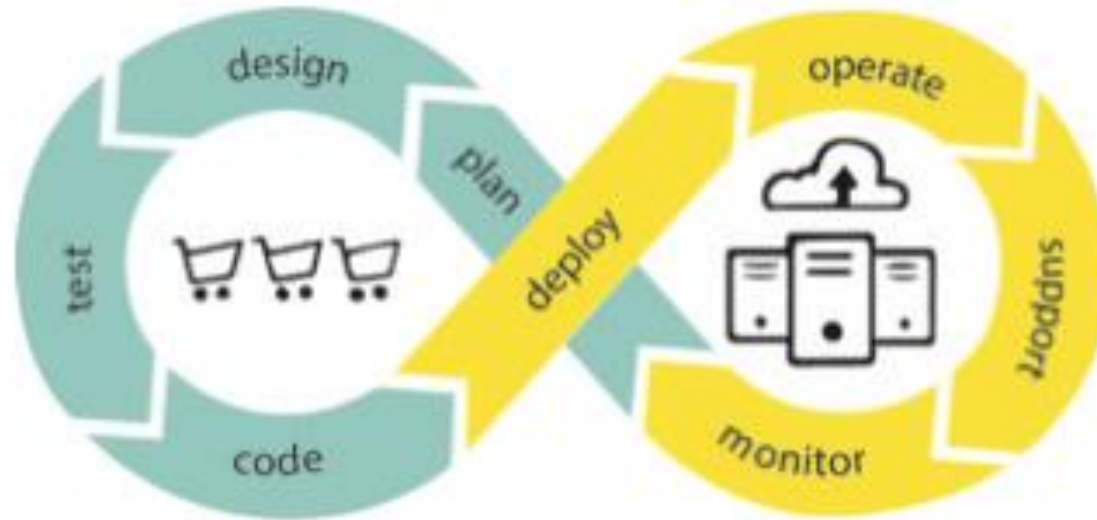
The Seven Principles of Disciplined Agile



**Our
Scope**



DevOps at a Small Company



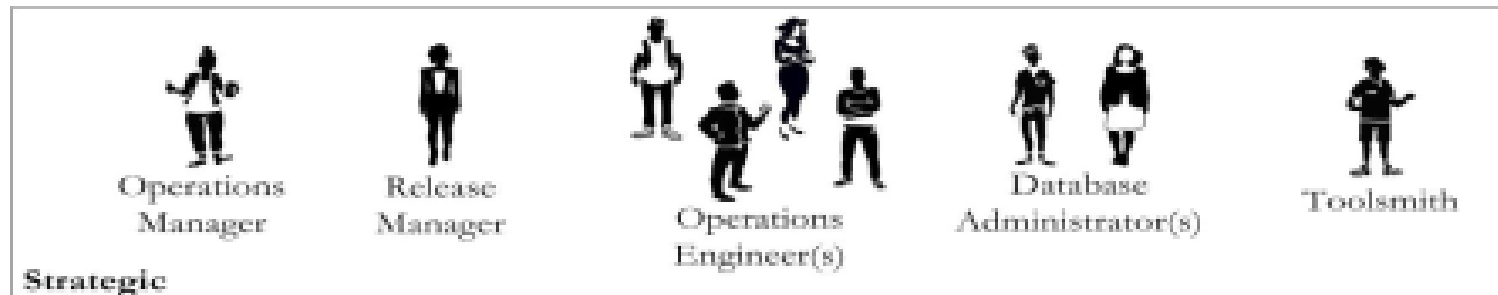
- As there is only a handful of product teams, a “you build it, you run it” approach is straightforward
- Release/deployment of a solution is handled by the delivery team responsible for that solution
- Any deployment collisions or problems are handled at the time

Release Management

DevOps at a Large Company



- Run solutions
- Manage solution configurations

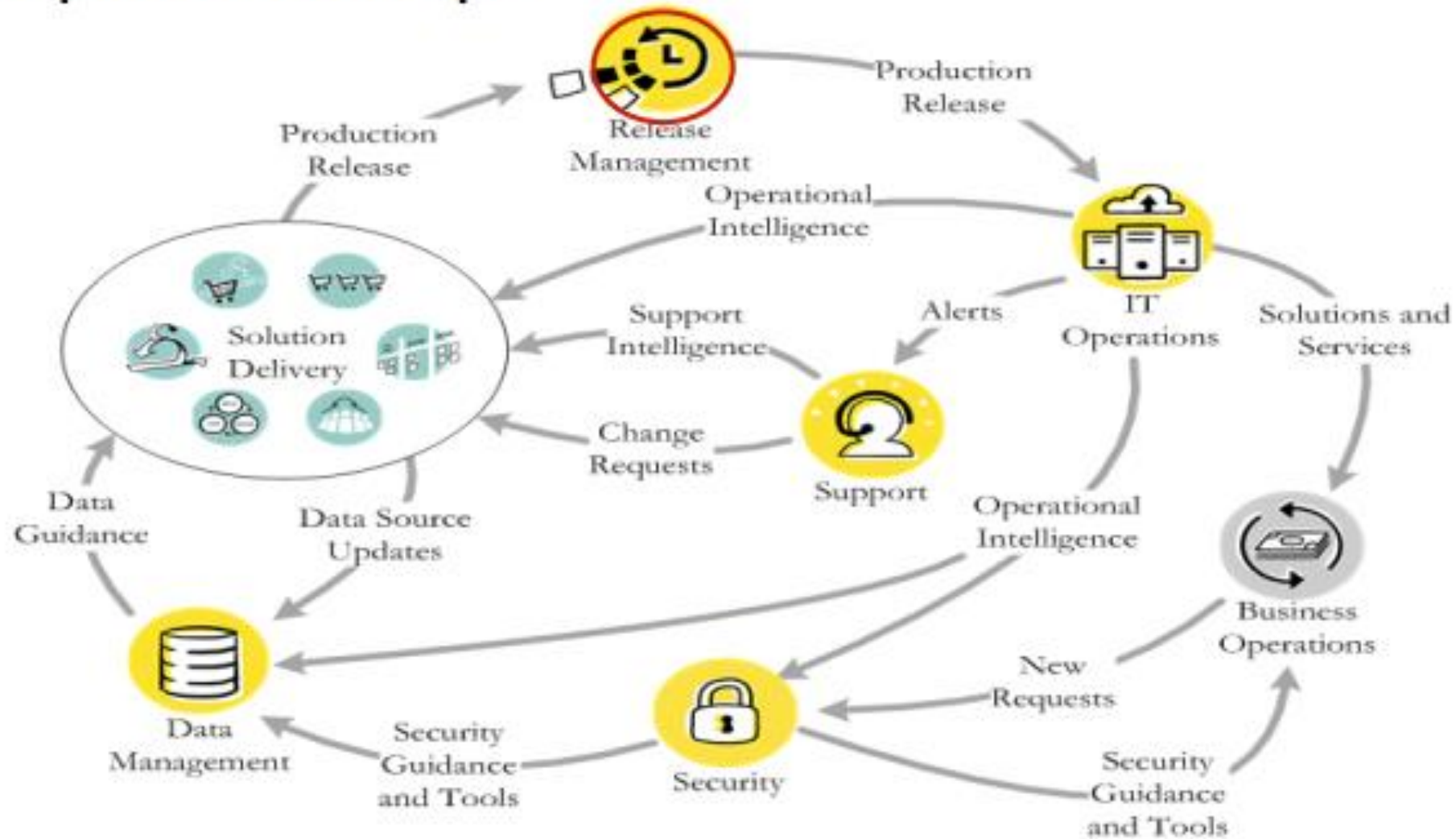


- Release management/coordination
- Manage and evolve infrastructure
- Manage enterprise configurations
- Disaster planning

- Roles tend to become more distinct as operational complexity grows
- When there are many product/delivery teams, the need to support common strategic functionality increases

Release Management

Disciplined DevOps



Release Management



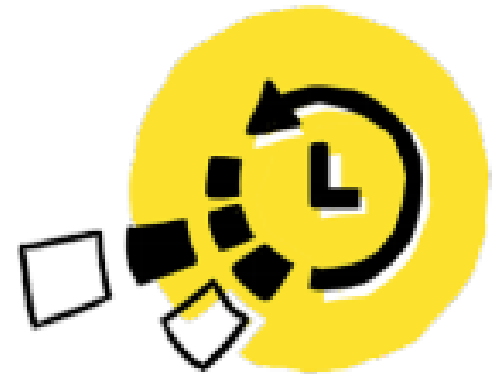
There are several reasons why you might need release management:

1. Your organization has a complex operational infrastructure
2. There are many delivery teams working in parallel
3. IT delivery teams need help to release their solutions into production

Defining Release Management

Release Management addresses the coordination and streamlining of solution deployments across your organization. This includes:

- Working with delivery teams to help them to automate their deployment processes as much as possible
- To coordinate across teams to reduce the chance of collision
- To provide intelligence to the rest of the organization to improve their decision making around releases



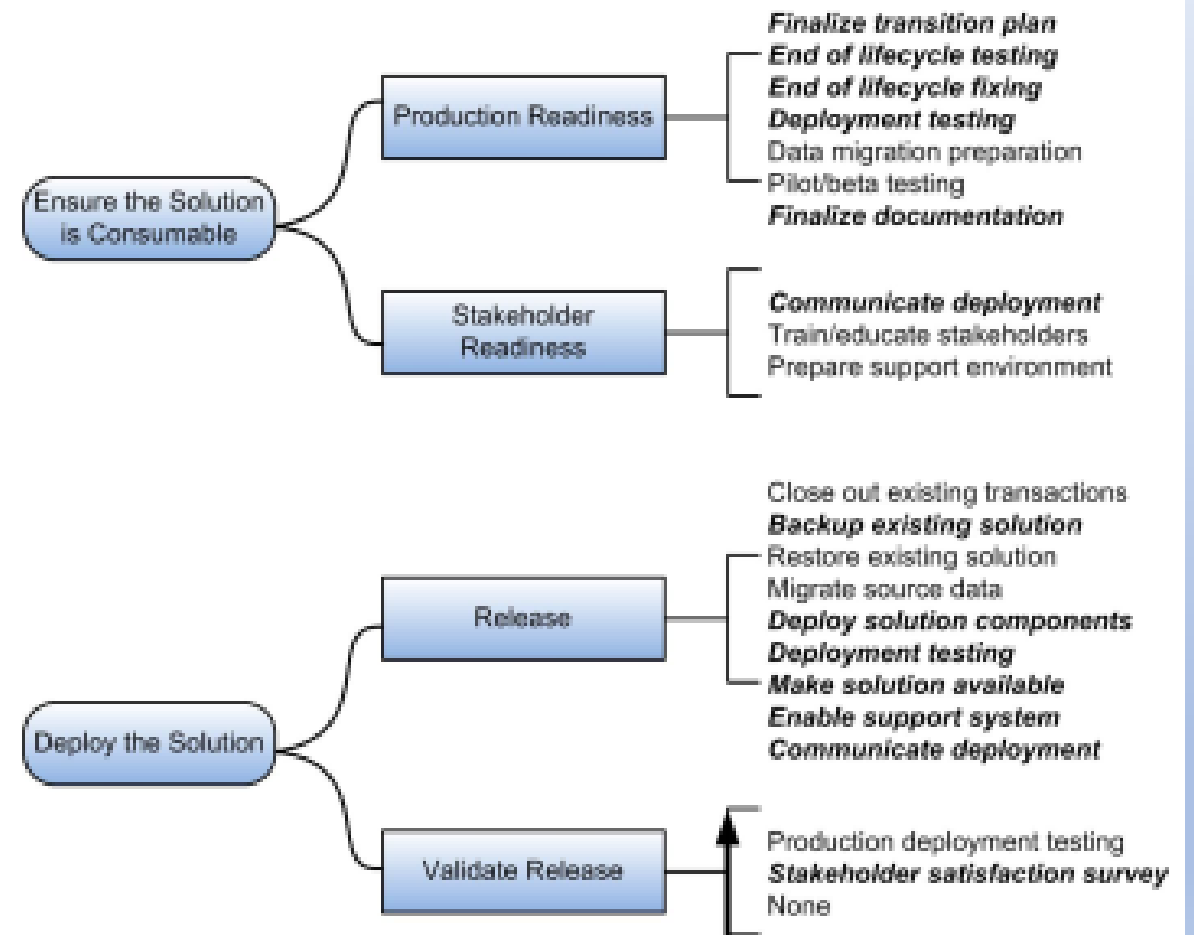
The Disciplined Agile Release Management Mindset



1. Ensure successful deployments
2. Release solutions, not just systems
3. Enable teams to deploy
4. Help teams streamline how they deploy
5. Support a multi-modal environment

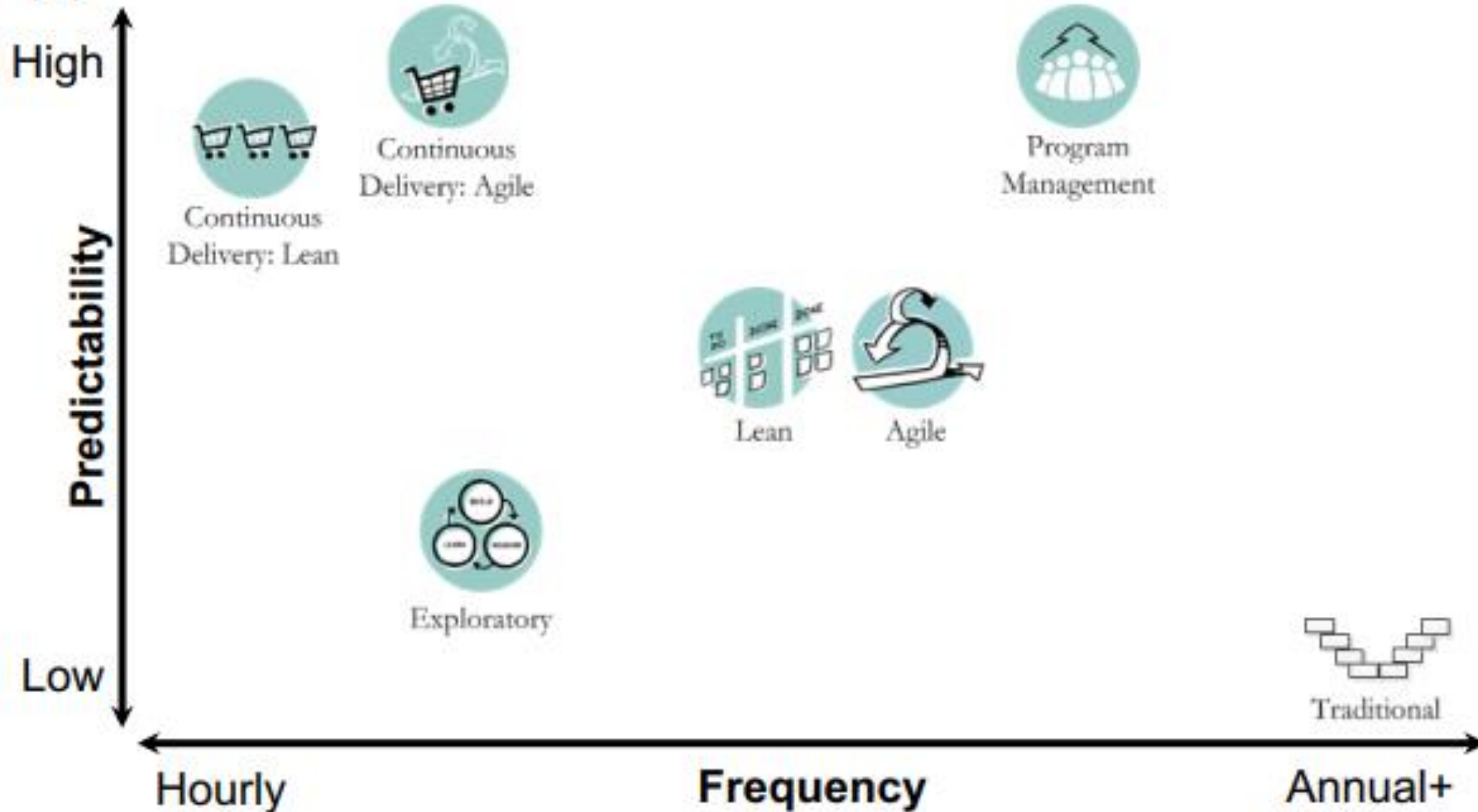
Release Management Enables Delivery Teams

- Delivery teams are responsible for deploying their own solutions
- BUT:
 - Not everyone is doing continuous integration (CI)/continuous deployment (CD), so this may not be fully automated yet
 - Regulatory compliance may require a Separation of Concerns (SoC) when it comes to deployment (which can be automated)
 - There is opportunity for reuse of tooling, guidelines, and strategies across teams



Release Management

Support a Multi-Modal Environment

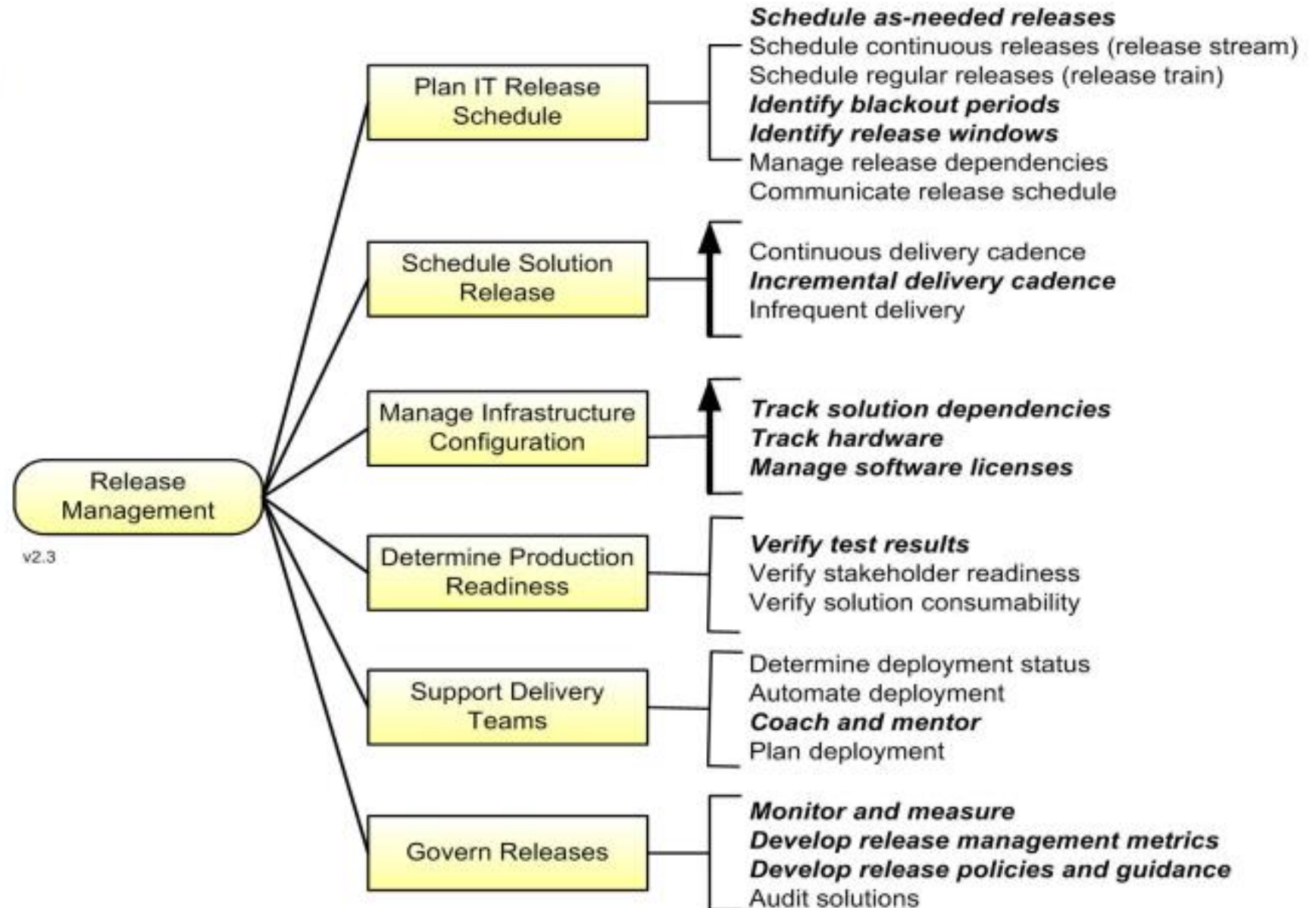


Release Management

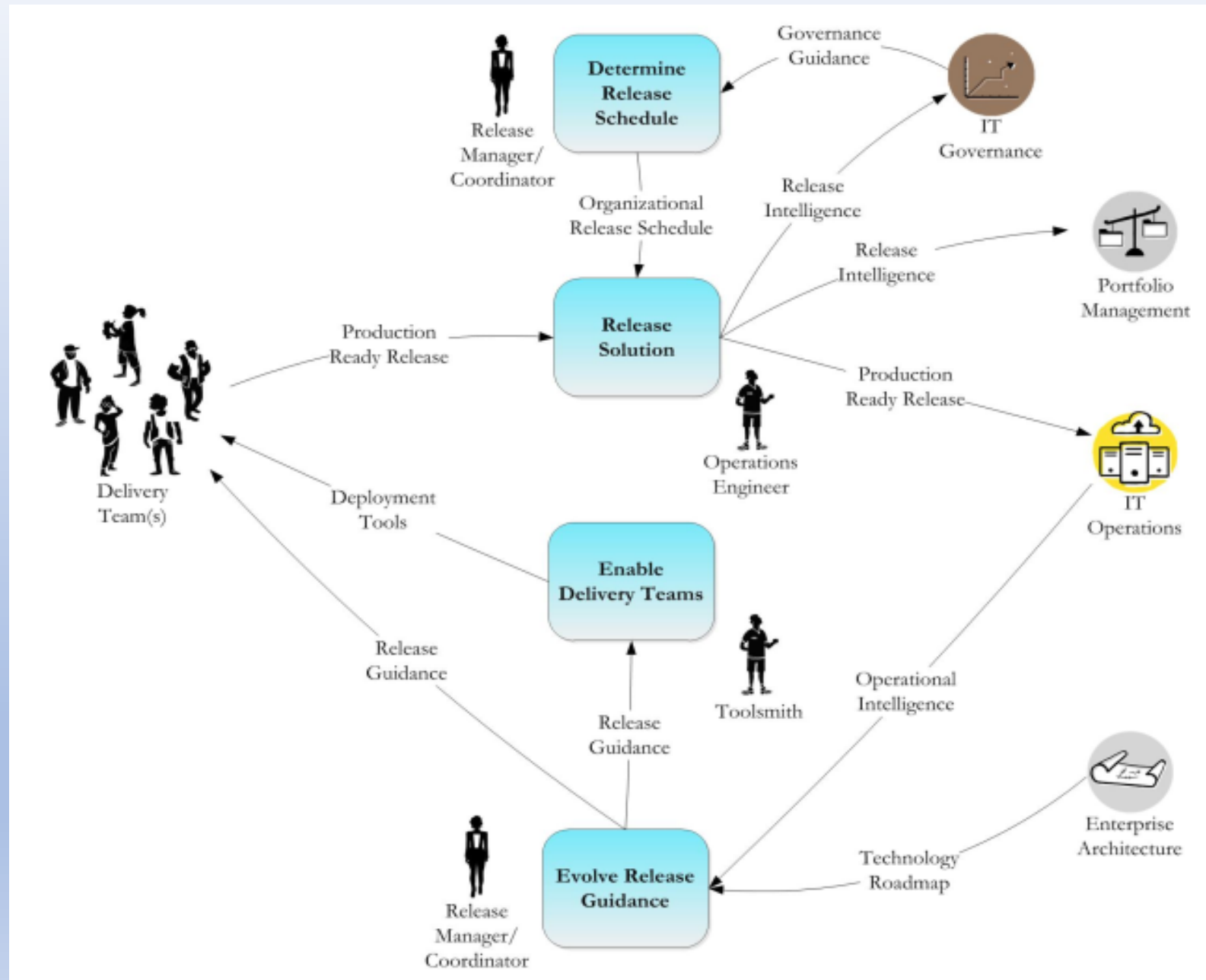


Release Management Strategies

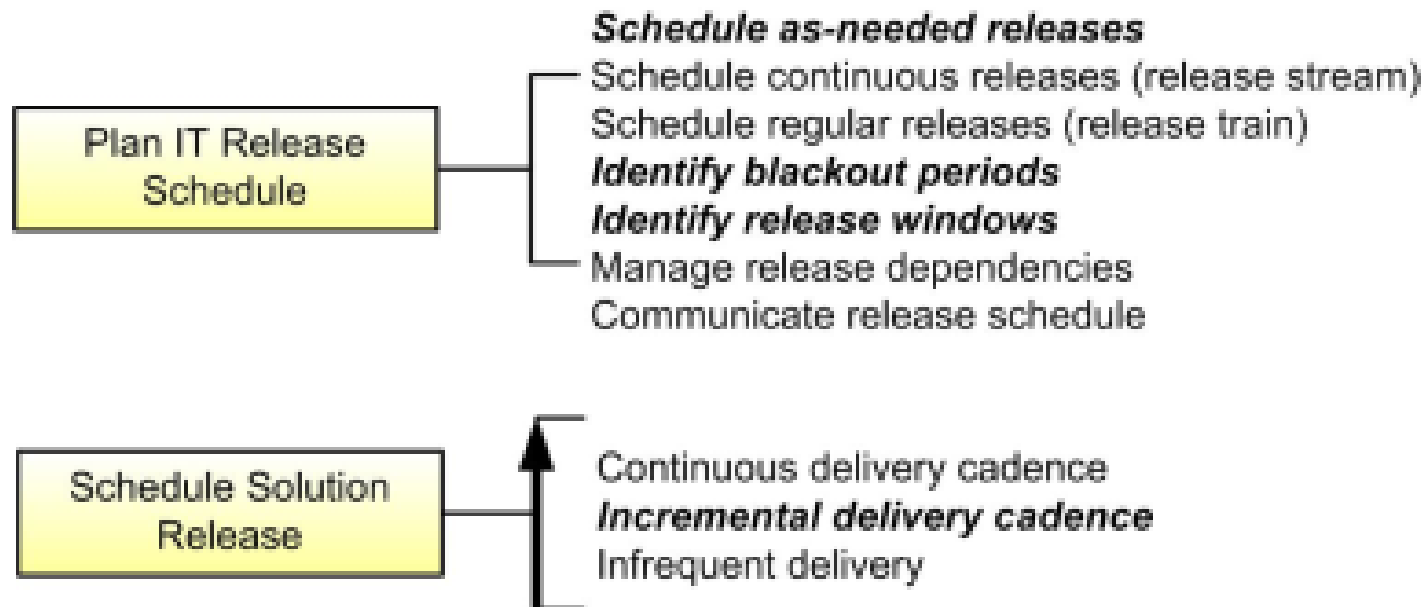
Release Management



Release Management



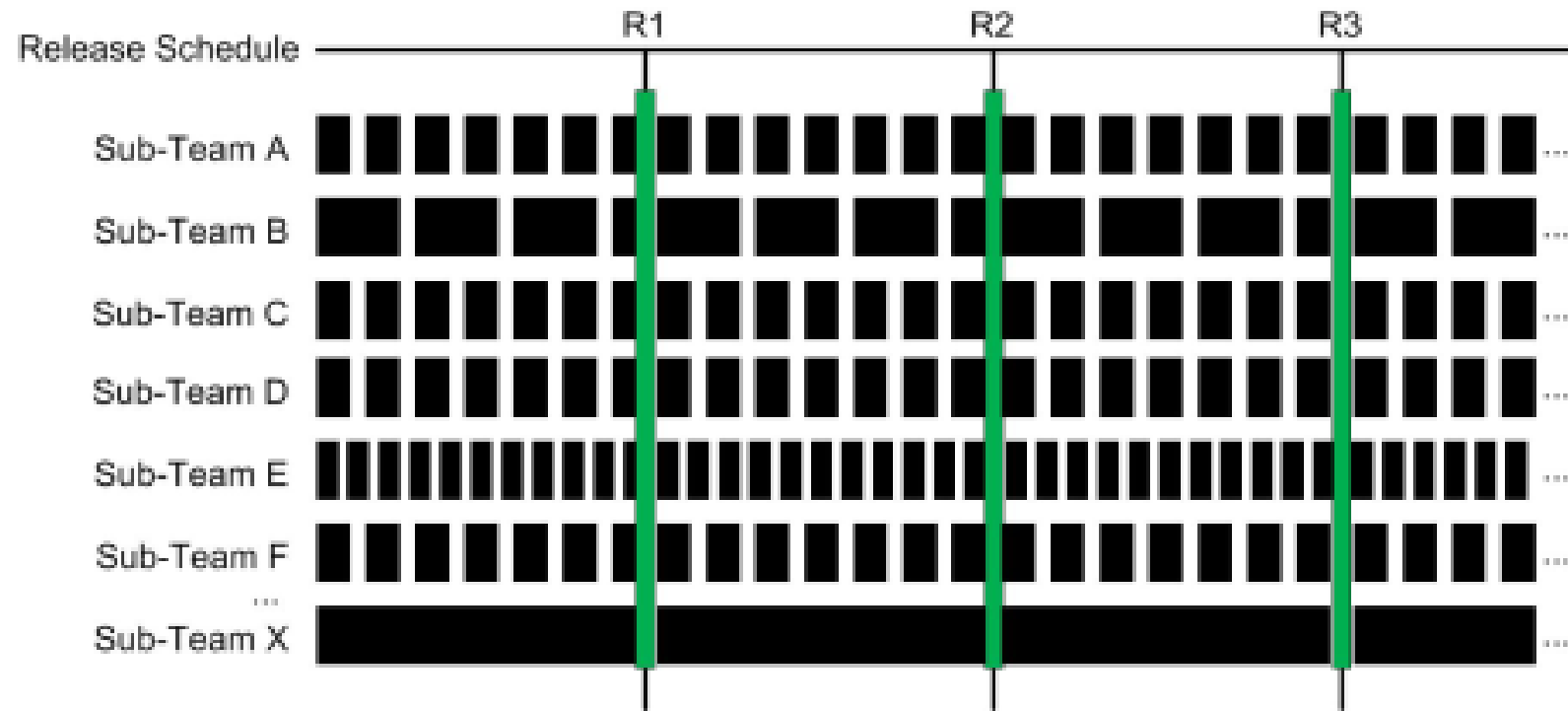
Determine Release Schedule



- The way that you schedule the releases within a program (a large team of teams) is different than the way you schedule releases in a multi-team organization
- When to release something is determined by an array of factors, some of which are beyond the control of a single delivery team

Release Management

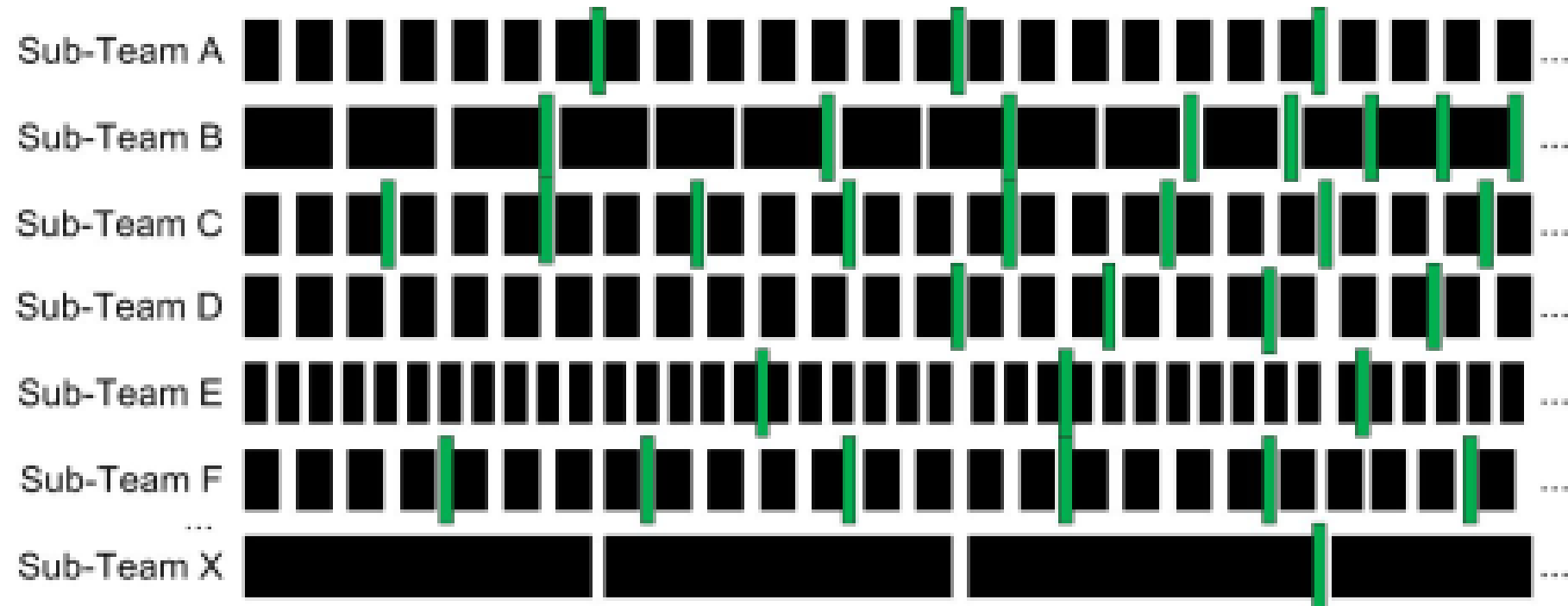
Agile Release Trains



- Appropriate for program release management (e.g. SAFe)
- The sub-teams often are required to have the same cadence, or at least a multiplier cadence (i.e. 1, 2, 4 weeks or 1, 2, 3, 6 weeks)
- Too heavy and constraining at the organizational level

Release Management

Release Stream



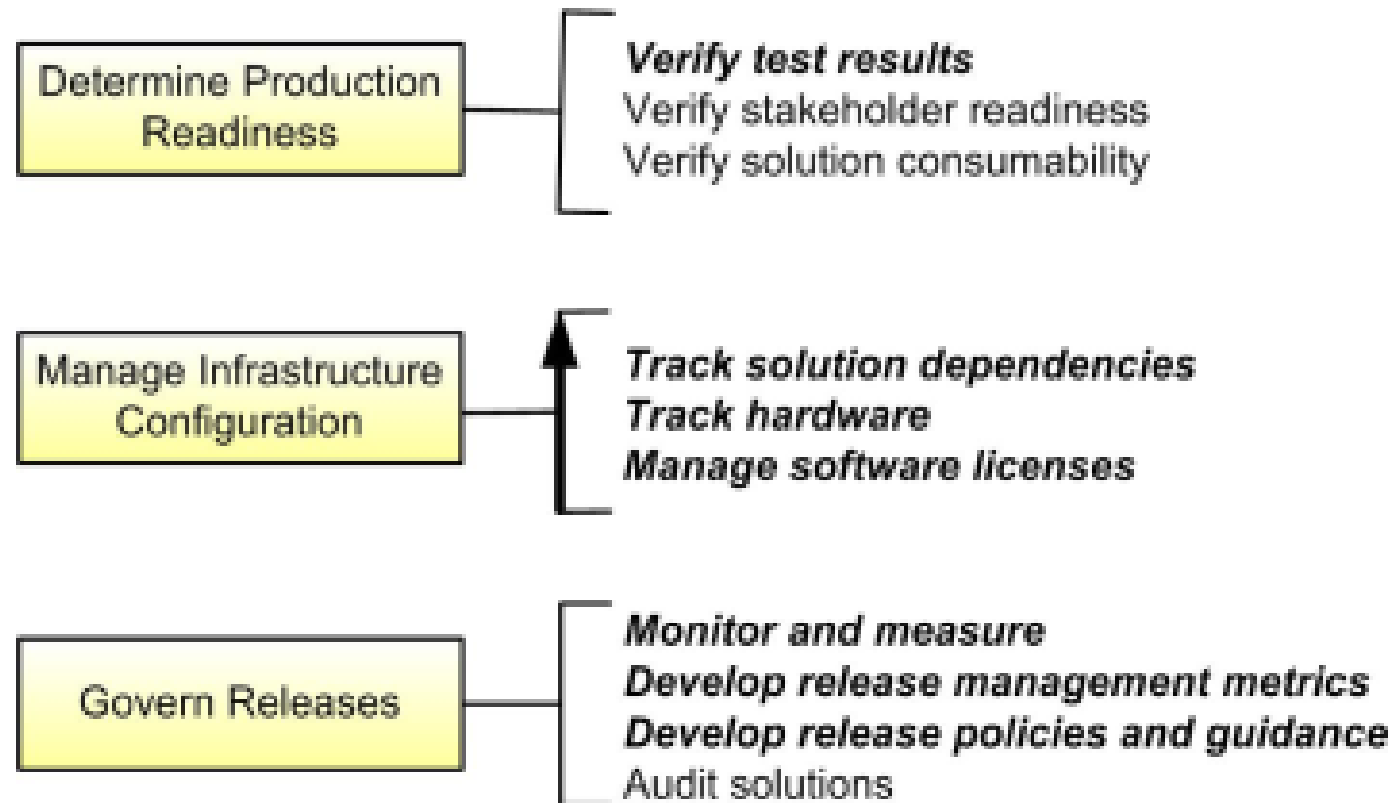
- Teams are allowed to release when it's appropriate for them
- Appropriate for both program-level and organizational level release management

As Needed Releases

- Sometimes “stuff” happens:
 - You need to release a patch from a vendor
 - You need to release a bug-fix
 - Your stakeholders need/demand a new feature
- However, you need to be aware of:
 - Release windows
 - Blackout periods
 - Dependencies
 - Other releases happening in parallel
- This strategy enhances both release streams and release trains



Release Solution



- Delivery teams should be responsible for their own releases
- There must be a determination of whether the solution is production ready (this can be automated)
- Relevant release intelligence should be captured (what was released, when, quality levels, ...)

Enable Delivery Teams



- A primary aim of Release Management should be to enable delivery teams to be as self-sustaining as possible
- This includes:
 - Coaching and mentoring them in deployment tooling and practices
 - Helping them to automate wherever possible
 - Helping them to plan

Evolve Release Guidance



- Effective governance is based on motivation and enablement, not command and control
- Release managers will work with delivery teams to develop appropriate governance and to automate the gathering and dissemination of insightful intelligence (metrics)

Release Management



Release Management

Success Requires...



A Flexible
Mindset

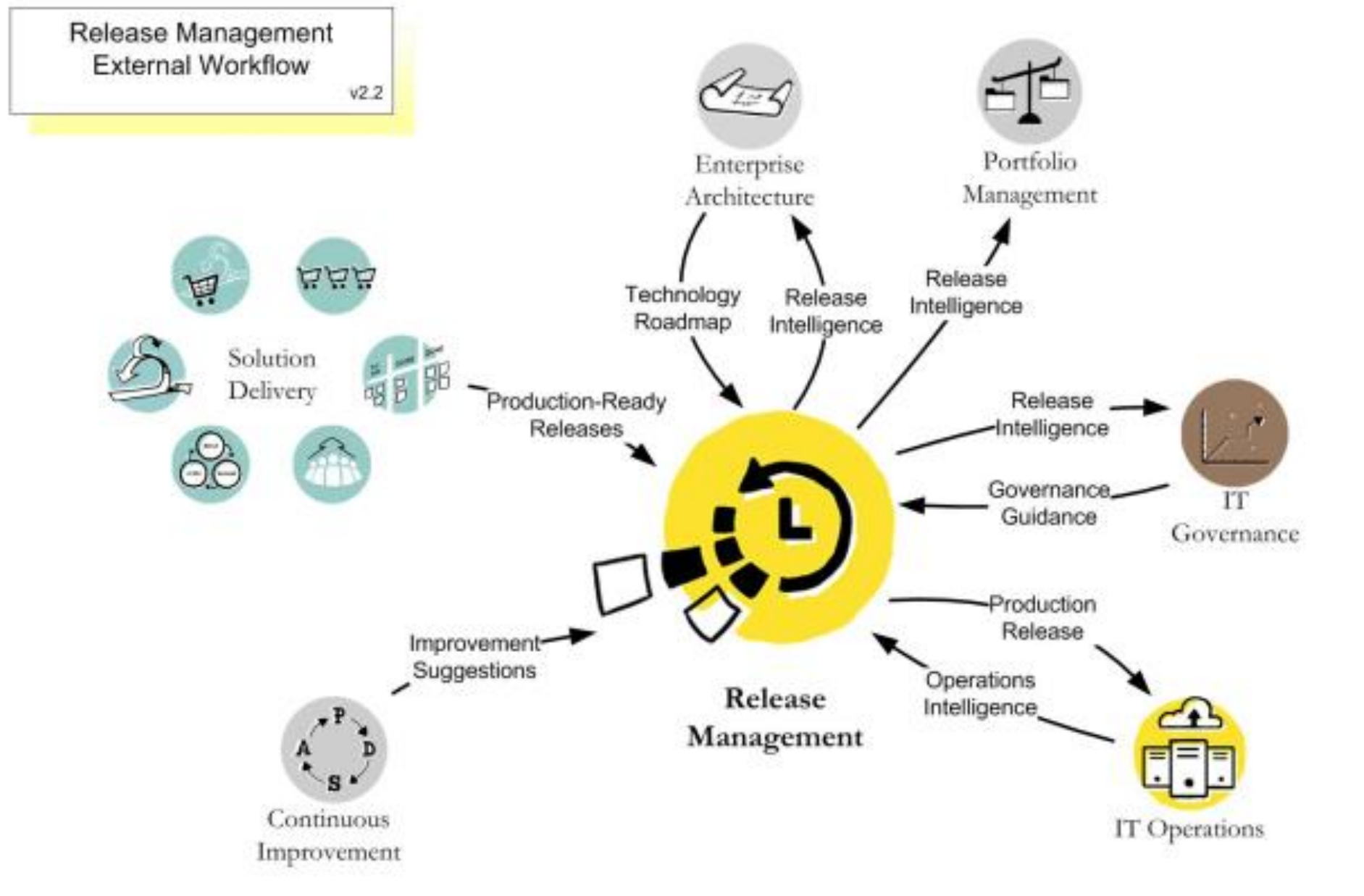


Great People Collaborating
and Learning Together



Context-Sensitive Strategies

Release Management



Release Management



Thank You!