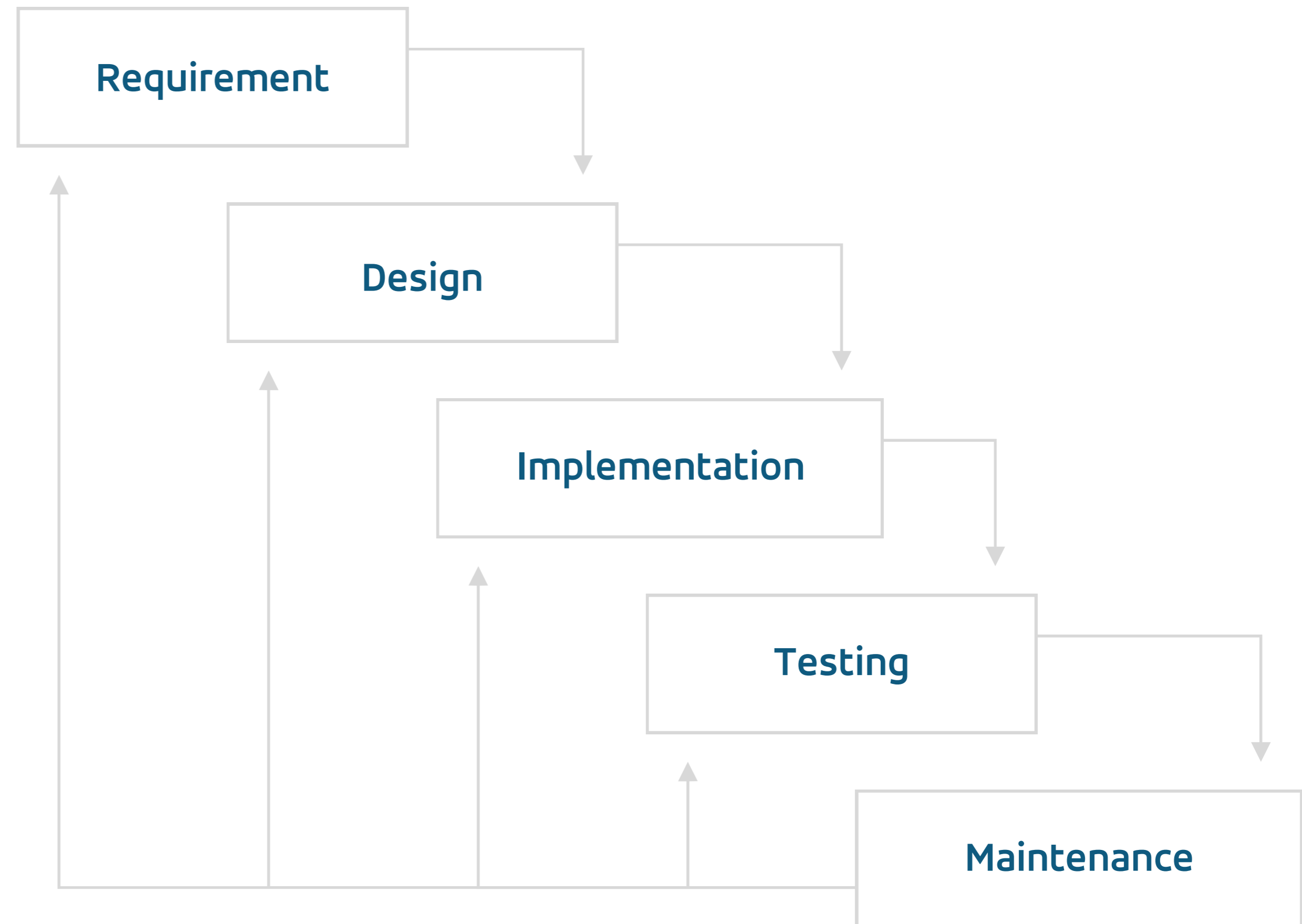


What is? Waterfall & Agile

What is Waterfall Project?

It's a framework for software development in which development proceeds sequentially through a series of phases, starting with system requirements analysis and leading up to product release and maintenance.

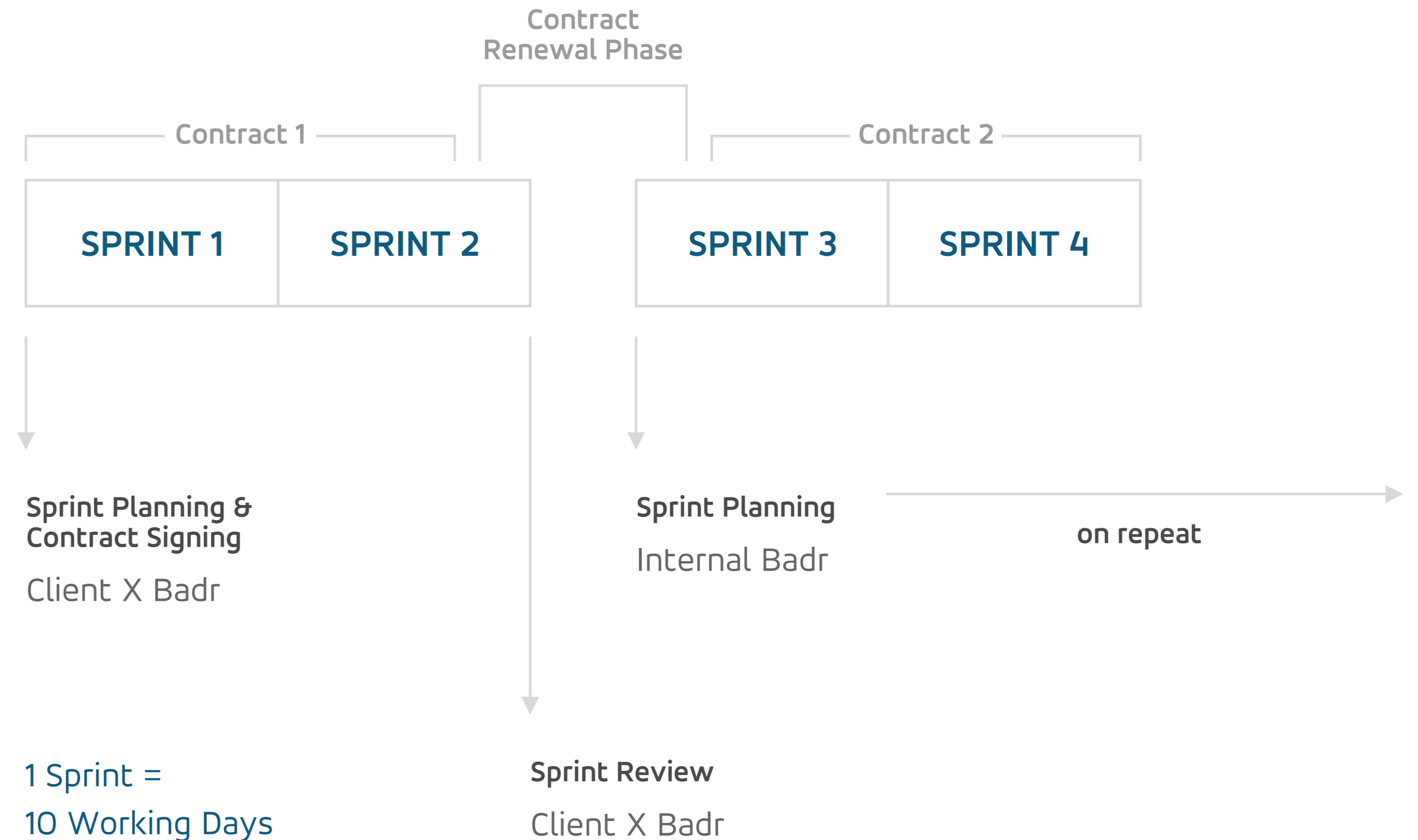


What is Agile Project?

Agile project management focuses on delivering maximum value against business priorities in the time and budget allowed, especially when the drive to deliver is greater than the risk

Two Uncertainties in Agile:

- 1 Never know exactly what details will be needed at the start of a project
- 2 Everything that had originally been considered is not always important



Characteristic

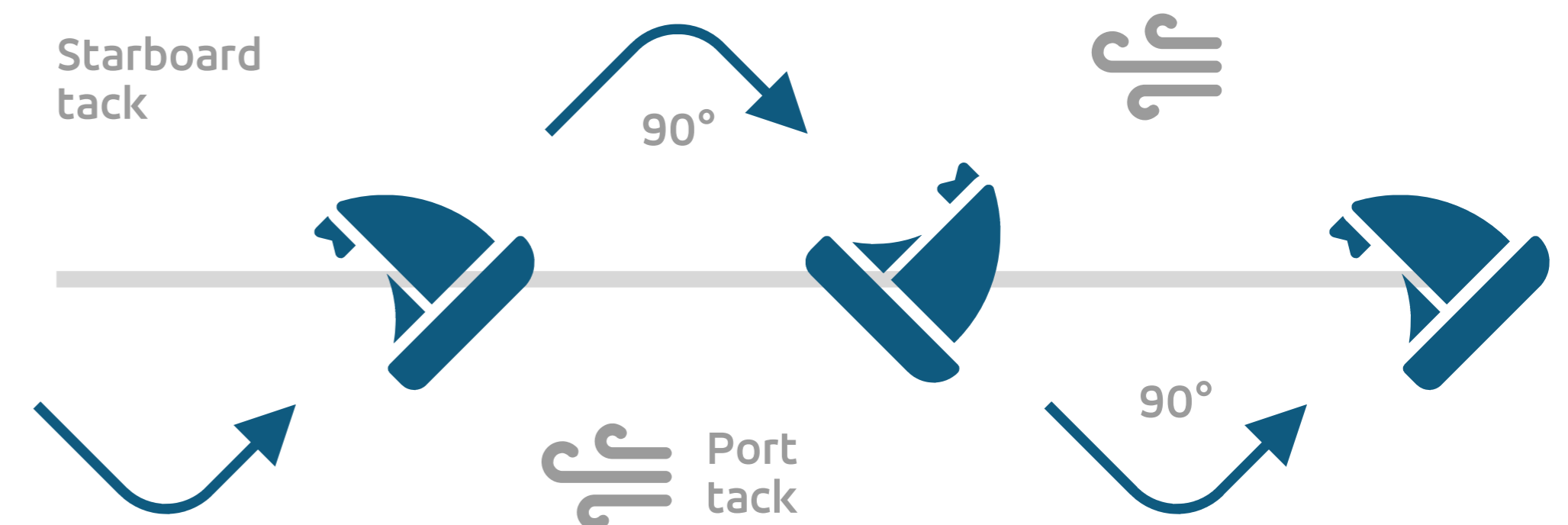
Traditional project management

- ✓ Define target.
- ✓ The requirement is clear and detailed
- ✓ The target is launching the system at the specific time
- ✓ The budget is fixed in the beginning, but relatively large because it accumulates all predetermined features
- ✓ Hope (the target doesn't move)

Hybrid

Agile Project Management

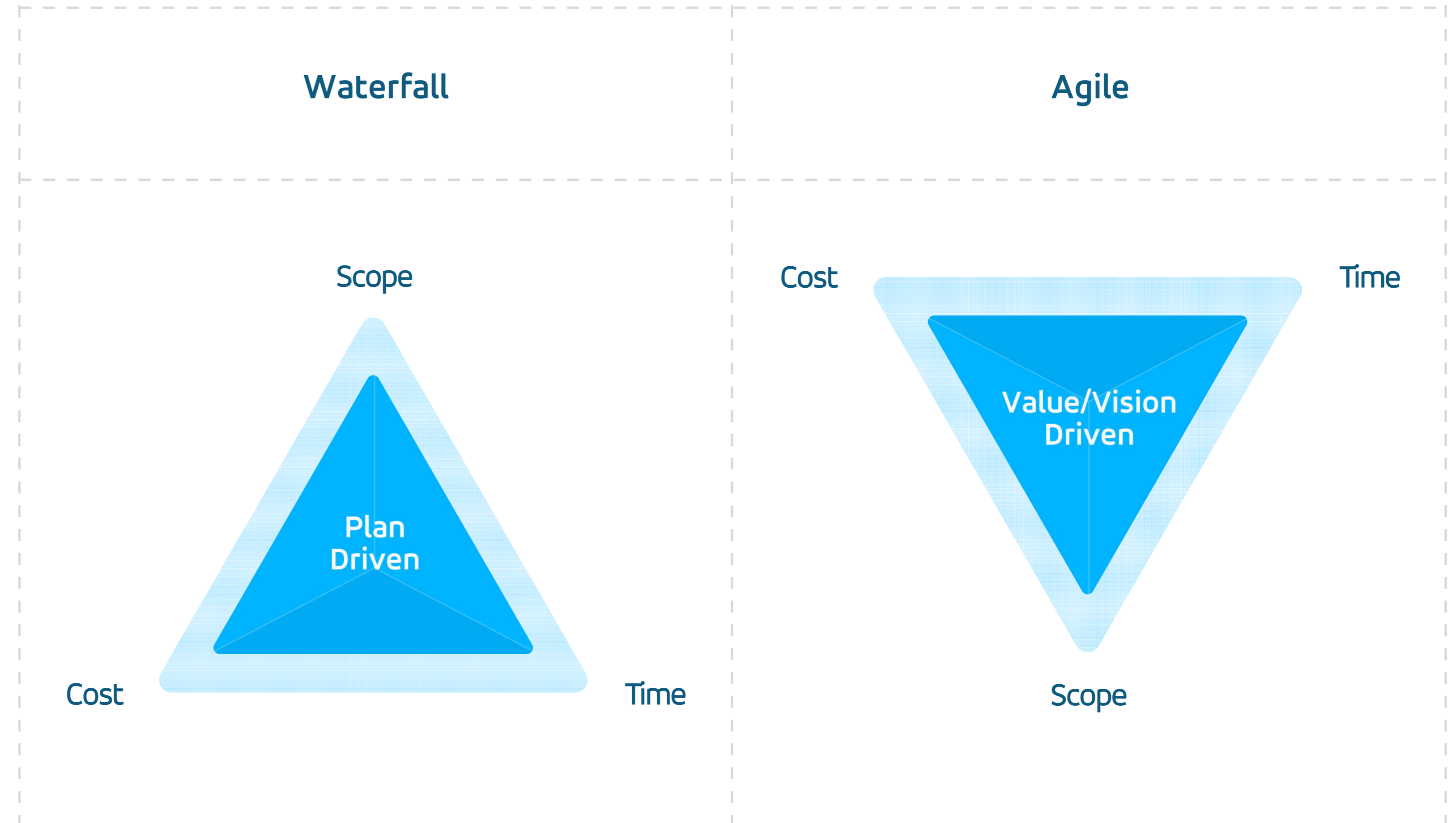
- ✓ Vision - Long term development
- ✓ Start in broad direction - the requirement is not clearly defined, only the big picture needed
- ✓ Launch early and periodically
- ✓ Still in the validation stage therefore need to learn/adapt to conditions
- ✓ Home in on target incrementally



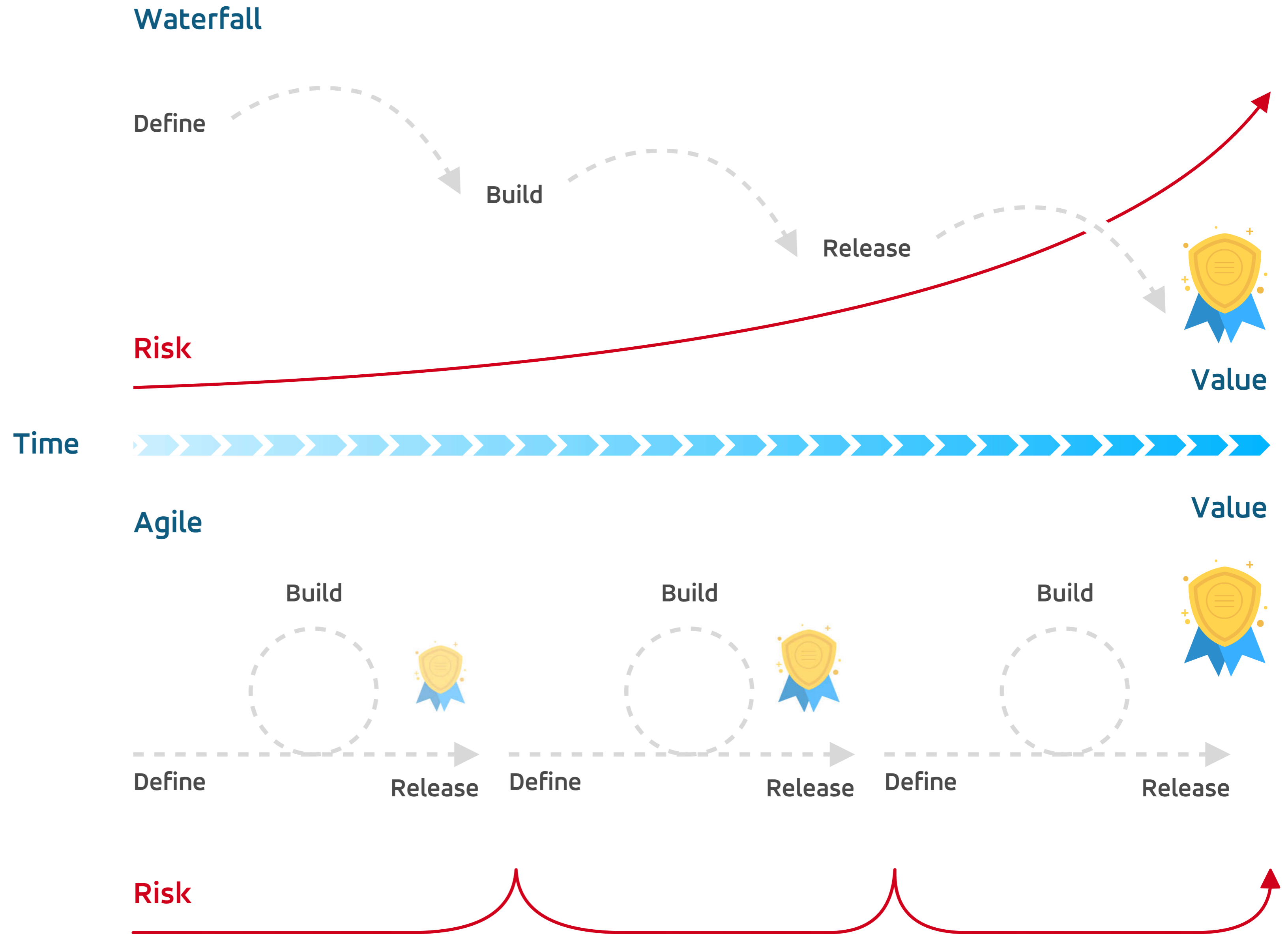
Scope, Cost, and Deadline

The main characteristic of agile paradigm is that the scope of an IT project is, in contrast to the classic waterfall model, no longer fixed in detail from the start.

Instead, costs and time are defined on the basis of principles agreed over the course of the project, and the scope of services is developed and implemented step by step in short iteration cycles



Work Scheme



Pros and Cons Waterfall



PROS

Works best when there are defined requirements

Best for stable environment

The team is distributed and hence control can be managed by defined deliverables, milestones and dependencies

Best if scarce skills or resources have limited availability

Plans are repeatable for similar projects

CONS

Requires investment to define scope and schedule before work begins

Scope changes can be slow and the adverse impact increases over the life cycle

Risk of nothing to show for the money until the end

Change adds effort and risk, so a strict change control process must be in place to avoid 'scope creep'



Pros & Cons

Waterfall & Agile

Pros and Cons Agile

PROS

Works well when the detailed requirements are unknown or subject to change

Give flexibility to 'course correct'

Needs regular stakeholder feedback

The team is co-located, multi-functional and enables to work in a collaborative way

early return on investment by regular delivery

Better product. Periodically monitored, system is built based on Minimum Viable Product (MVP) that is delivered in biweekly period.

CONS

No advantage for projects where the scope and detailed requirements are well understood and change can be controlled

Uncertainty around scope and schedules can make stakeholders nervous

Less effective if the 'team' is distributed

Demands management and prioritisation of the backlog

The clients must be able to take decisions quickly but they have to deal with the company's procurement regulations

Pros and Cons Agile



PROS

Adaptable. When there is a change, it can be adjusted quickly. The scope of development is dynamic

It's easier to adjust contract with vendor

It's more fair for client and vendor, because the client only pays for a partial amount according to the agreement, and the vendor has more certainty in terms of payment

Quick project start

CONS

The clients must be ready to keep update with a new contract in a short term period

Communications must be more intensive

The clients must follow the sprint workflow (biweekly planning)

Create Uncertainty. This uncertainty is coming from the requirement, so it's possible to bring negative assumption between client and vendor.

Thank You Let's Discuss!

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