



LEAN AGILE SCRUM KANBAN

LEAN



- Lean comes from Lean Manufacturing and is a set of principles for achieving quality, speed & customer alignment
- Lean software development is a translation of lean manufacturing and lean IT principles and practices to the software development domain
- Adapted from the Toyota Production System
- Eliminate anything that isn't adding value and only work on what we absolutely need to be doing at this moment in time
- The team operates as a whole

AGILE



- Set of methods and practices expressed in the Agile Manifesto
- Leadership philosophy that encourages teamwork, self-organization and accountability
- Group of software development methodologies based on iterative development,
- Set of engineering best practices intended to allow for rapid delivery of high-quality software
- Business approach that aligns development with customer needs and company goals
- Collaboration between self-organizing cross-functional teams

SCRUM



- Iterative and incremental agile software development framework for managing product development
- Collaboration between self-organizing cross-functional teams
- Close collaboration of all team members, as well as daily face to face communication
- Control process focused on building products that meet business needs
- Deliver working products, incrementally and empirically
- Framework for managing a process
- Enables teams to self-organize

KANBAN



- Kanban is Japanese for "visual signal" or "card"
- Kanban is a method for visualizing the flow of work, in order to balance demand with available capacity and spot bottlenecks
- Work items are visualized and give a view of progress and process, from start to finish
- Team members pull work as capacity permits, rather than work being pushed into the process when requested
- Teams communicate more easily on what work needed to be done and when
- Target is to reduce waste and maximize value