WorldVisitz Mobile Application Agile Delivery Launch

Agile Foundations - Presentation for the Leadership Team

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Part 1: How WorldVisitz Can Benefit From Agile

What is Agile?

Define:
- Agile is an iterative approach to project management and software development that helps teams deliver value to their customers faster and with fewer headaches.

- Instead of betting everything on a "big bang" launch, an agile team delivers work in small, but consumable, increments.

- Requirements, plans, and results are evaluated continuously so teams have a natural mechanism for responding to change quickly.

Agile Manifesto

Agile Manifesto: The four paired Core Values and associated 12 Principles that set the foundation for all Agile Frameworks

- **Individuals and interactions over processes and tools**: Agile places more importance and emphasis on people and their interactions over processes and even tools.
- **Working software over comprehensive documentation**: Documentation requires a time and resource commitment that might be wasteful.
- **Customer collaboration over contract negotiation**: Agile promotes a collaborative outlook when product owners work with their customers in reaching an agreement on the details of the product delivery.
- **Responding to changes over following a plan**: Agile embraces the change that makes business sense.

What is Agile manifesto?

The 12 Agile Principles

1. **Our highest priority is to satisfy the customer through early and continuous delivery of valuable software**. The goal of product development is the development of successful products.

2. **Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage**. Due to the dynamic competitive landscape, requirements can and will change throughout product development.

3. **Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the shorter time scale**. Frequent and iterative delivery of working products provides the business with practical feedback.

4. **Business people and developers must work together daily throughout the project**. The Product Owner and the Agile Team adopt practices that ensure inclusive and joint practices.

What is Agile manifesto?

5. **Build projects around motivated individuals. Give them the environment and support they need, and trust them to get the job done**. Agile leaders build Agile teams with skilled resources who are willing to work together collaboratively with a growth mindset.

6. **The most efficient and effective method of conveying information to and within a development team is face-to-face conversation**. For a product development team to succeed its members must communicate and collaborate effectively.

7. **Working software is the primary measure of progress**. The primary measure of product development should be the delivery of working product increments, which meet the evolving needs of the business.

8. **Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely**. A highly skilled team simply just cannot be expected to successfully develop a product by compelling people to work overtime for extended periods.

What is Agile manifesto?

9. Continuous attention to technical excellence and good design enhances agility. Built-in quality practices have enormous benefits. It allows for easier maintenance and scalability of the product.

10. **Simplicity - the art of maximizing the amount of work not done - is essential**. With the guidance of the Product Owner, Agile Teams focus on high-value activities, which allows them to focus on the high business value needs.

11. **The best architectures, requirements, and designs emerge from self-organizing teams**. This is a critical principle of the agile world to ensure that emerging and effective architectures, requirements, and designs are built into the product development life cycle to maximize technical excellence.

12. **At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behavior accordingly**. Finding concrete opportunities for improvement is a continual effort.

Why following Agile Manifesto is important

- The Agile Manifesto is a valuable resource for software development teams as it equips them with a flexible framework to guide their project management processes and uphold Agile best practices.

- Software developers will know that customer satisfaction is key, and so all project plans can be based around that guiding principle.

- Agile Manifesto is a hugely important document for teams that wish to implement or sustain an Agile methodology in their organizations.

Key differences between Agile and Waterfall

The waterfall model is a more stringent and process-driven style where the project is broken down into project activities through structured phases, with toll gates established to formally review progress. The focus is on the work to be done and not on delivering functional vertical slices.

Waterfall **"fixes"** the scope and estimates time & cost. Agile breaks this paradigm because Agile **"fixes"** time & cost and allows the scope to be flexible.

	Agile	Waterfall
Product Lifecycle	Iterative	Distinct phases
Design Process	Incremental	Sequential
Change	Change is embraced	Change is a challenge
Mindset/Focus	Customer needs	Completing the project
Collaboration	Significant collaboration	Limited Synchronization
Requirements	Prepared incrementally	Prepared at start of project
Organization	Self-directed team	Led by Product Manager

The benefits of Business Agility to WorldVisitz

Agile is used to tackle with complicated issues by dividing them into smaller and easier pieces. It increases users' satisfaction and with complicated requirements that need iterative cycles to understand the needs of end-users.

Key Benefits Of Agile Project Management:

- Improves collaboration among teams
- Enhances the quality level of software in organizations
- Results in enhanced customer satisfaction
- Speeds time to market
- Reduces development cost

Advantages Of Agile Over Waterfall Are:

- Agile techniques virtually **eliminate the chances of absolute project failure** and always having a working product which is being built incrementally right from the very first sprint, so that projects do not fail completely.
- The customer has frequent and early opportunities to assess the work being delivered and make decisions & changes throughout the development life cycle. **Waterfall doesn't involve customers** in the projects.
- Agile project management results in **far less re-work on projects** as issues and changes are identified in the early stages itself. Since, **Waterfall doesn't have an iterative approach**; there is a high possibility of re-work after delivery or completion of a major feature or milestone.
- In the Agile development, testing is done at the sprint level to ensure that the **project is delivered in an optimum state**. It enables the project managers to perform changes if needed and the team is aware of potential issues beforehand. In Waterfall, there is no chance of iterative testing which makes projects prone to failure.

What is Agile Umbrella
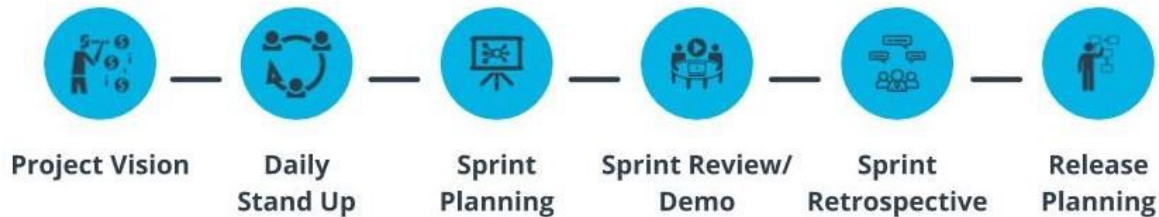
The Agile Umbrella

The Agile Umbrella has some key characteristics:

- **Deliver Value**: An absolutely key driver behind anything Agile is to deliver value.

- **Continual Improvement**: Agile promotes incremental improvement to minimize resistance from all who are involved.

- **Flexibility**: Flexibility is one of the foundations of any Agile Framework.

- **Trust and Respect**: Agile Frameworks promote trust and respect because such trust and respect motivate Agile teams.

- **Cultivate Mastery**: This built-in structure for Agile team members to hone their skills further motivates the Agile team.

Differences: Scrum vs Kanban vs XP

- Scrum:

- The features are delivered in iterations known as Sprints.
- The Team conducts Daily Stand-Ups in which they provide updates to each other.
- Retrospectives are conducted to identify opportunities for improvement at the end of each Sprint.
- Specific roles, as well as certain Ceremonies, are recommended in the Scrum Framework.

Project Vision — Daily Stand Up — Sprint Planning — Sprint Review/ Demo — Sprint Retrospective — Release Planning

Differences: Scrum vs Kanban vs XP

- XP:

Extreme Programming, also known as XP, is a powerful Agile Framework with its roots in software development. XP has a strong focus on technical excellence and best practices in software development.

- The Ceremonies are simplified.
- There is no Sprint Planning Ceremony.
- And there is no Sprint Retrospective.
- Sprint Review/Demo is just called Review Demo.

| Project Vision | Daily Stand Up | Iteration Planning | Iteration Review/ Demo | Iteration Retrospective | Release Planning |

Differences: Scrum vs Kanban vs XP

- Kanban:

Kanban has its origins in lean product development, an approach to product development inspired by lean manufacturing principles and practices at Toyota.

- The Ceremonies are simplified.
- There is no Sprint Planning Ceremony.
- And there is no Sprint Retrospective.
- Sprint Review/Demo is just called Review Demo.

Project Vision — **Daily Stand Up** — **Review/ Demo** — **Release Planning**

Part 2: The Optimal Agile Framework for WorldVisitz

Scrum is the most suitable method.

- The Team self-organizes and plans out the work to be performed in the Sprint.
- The work is prioritized by the Product Owner.
- Time-boxed to not more than eight hours for a one-month Sprint.
- Agile Team works with the PO and Scrum Master to address the following three questions:
    1. What are we committing to deliver in the upcoming Sprint?
    2. How will we complete the work required to achieve this commitment?
    3. What are the respective estimates for each user story and associated tasks?
- The Agile Team takes the prioritized backlog items and collaborates on how to carry out the work.