

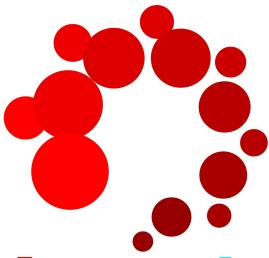
Agile Software Development

An Introduction from Industry Perspective

Presenter:

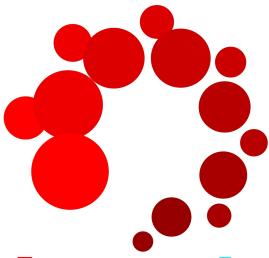
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Founder & CEO, eMensch



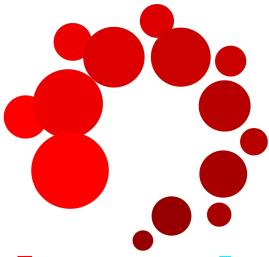
Introduction

- ▶ Why Agile?
- ▶ Understanding Success
- ▶ Types of Success
- ▶ Importance of Organizational Success
- ▶ Enter Agility
- ▶ How to Be Agile?
- ▶ Manifesto for Agile Software Development
- ▶ Principles behind the Agile Manifesto



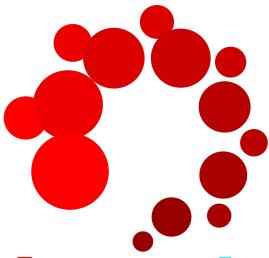
Why Agile?

- ▶ What is Agile?
- ▶ Benefits of Agile
 - ▶ Increased productivity
 - ▶ More Collaboration
 - ▶ Higher Success Rate



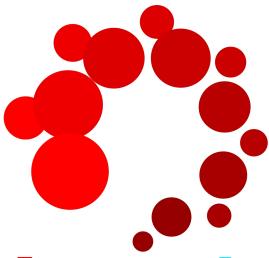
Understanding Success

- ▶ Traditional Idea of Success:
 - ▶ Delivery on Time
 - ▶ On Budget
 - ▶ According to the specifications
- ▶ Some Classic Definitions
 - ▶ Successful
 - ▶ Challenged
 - ▶ Impaired
- ▶ Oddity
 - ▶ So called “successful” projects may fail if they do not appeal the intended users or add value
 - ▶ “Challenged projects” may end up become great success if they are loved by target audience or provides unexpected value



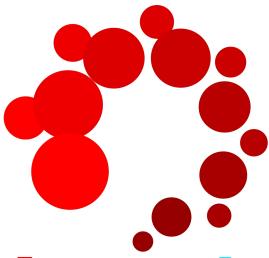
Types of Success

- ▶ Personal Success
 - ▶ Initial level
 - ▶ Personal rewards
- ▶ Technical Success
 - ▶ Complex problem
 - ▶ Maintainability
 - ▶ Team work
 - ▶ Technical Excellence
- ▶ Organizational Success
 - ▶ Large Ecosystem
 - ▶ Delivering Value



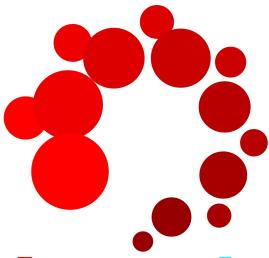
Importance Of Organizational Success

- ▶ Often neglected by Software teams
- ▶ Importance of Return on Investment
- ▶ Costs are the target
 - ▶ Aggressive deadlines
 - ▶ Outsource
- ▶ Time to take responsibility
- ▶ What do Organizations Value?
 - ▶ Competitive differentiation
 - ▶ Brand projection
 - ▶ Enhanced customer loyalty
 - ▶ Satisfying regulatory requirements
 - ▶ Original research
 - ▶ Strategic information



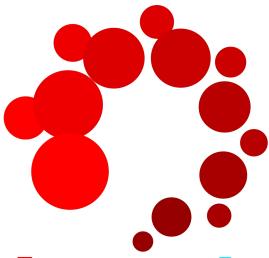
Enter Agility

- ▶ *Agile methods focus on*
 - ▶ Delivering value
 - ▶ Decreasing costs
 - ▶ Results in increased ROI
- ▶ *Agile teams increase value by*
 - ▶ Including business experts
 - ▶ Focusing development efforts on the core value
 - ▶ Releasing more valuable features first
 - ▶ Releasing new versions frequently
 - ▶ Change direction to match new information
 - ▶ Seek out unexpected opportunities
- ▶ *Agile teams decrease cost through*
 - ▶ Technical excellence
 - ▶ Eliminate waste by Fail Early approach
 - ▶ Simpler development practices
 - ▶ Communicate quickly and accurately
 - ▶ Regular review and improvement of code and processes



How to Be Agile?

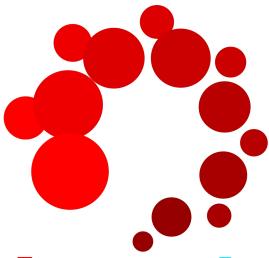
- ▶ What does it mean to “be agile”?
 - ▶ NOT a specific process
 - ▶ BUT a philosophy i.e. way of thinking
 - ▶ Needs to put **agile values and principles** into practice
- ▶ Agile Methods
 - ▶ Processes that support agile philosophy
 - ▶ Examples: Extreme Programming and Scrum
 - ▶ Consist of Practices
- ▶ Agile practices include
 - ▶ Using version control
 - ▶ Setting coding standards
 - ▶ Giving weekly demos to stakeholders
- ▶ Agile methods combine these practices in a unique way which results in a lean, powerful, self-reinforcing package.



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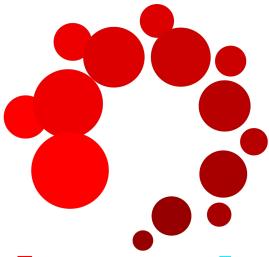
Manifesto for Agile Software Development

- ▶ Uncovering better ways of developing software by doing it and helping others do it. Thus, we value:
- ▶ *Individuals and interactions* over processes and tools
- ▶ *Working software* over comprehensive documentation
- ▶ *Customer collaboration* over contract negotiation
- ▶ *Responding to change* over following a plan
- ▶ While there is value in the items on the right, we value the items on the left more.



Principles behind the Agile Manifesto

- ▶ Our highest priority is to satisfy the customer through early and continuous delivery of valuable software.
- ▶ Welcome changing requirements, even late in development. Agile processes harness change for the customer's competitive advantage.
- ▶ Deliver working software frequently, from a couple of weeks to a couple of months, with a preference to the shorter timescale.
- ▶ Business people and developers must work together daily throughout the project.
- ▶ Build projects around motivated individuals. Give them the environment and support they need, and trust them to get the job done.
- ▶ The most efficient and effective method of conveying information to and within a development team is face-to-face conversation.



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Principles behind the Agile Manifesto (Contd)

- ▶ Working software is the primary measure of progress.
- ▶ Agile processes promote sustainable development. The sponsors, developers, and users should be able to maintain a constant pace indefinitely.
- ▶ Continuous attention to technical excellence and good design enhances agility.
- ▶ Simplicity--the art of maximizing the amount of work not done--is essential.
- ▶ The best architectures, requirements, and designs emerge from self-organizing teams.
- ▶ At regular intervals, the team reflects on how to become more effective, then tunes and adjusts its behaviour accordingly.



Thank You !!!

Any Questions?