Need to change

Why cannot we continue without any change?

Question

Do you think we need to change the approach to requirements?

If so, then what?

VUCA World

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VUCA - Explanation

VUCA is an acronym that stands for **V**olatility, **U**ncertainty, **C**omplexity, and **A**mbiguity.
It describes the challenging and dynamic environment we often face in various fields, including business, leadership, and strategic planning.

- **Volatility** refers to the rapid and unpredictable changes in the environment.
- **Uncertainty** denotes the lack of predictability and the difficulty in understanding future events.
- **Complexity** highlights the interconnected and multifaceted nature of issues, making it hard to identify cause-and-effect relationships.
- **Ambiguity** points to the unclear and often confusing nature of reality, where information can be interpreted in multiple ways

Keeping VUCA in mind helps leaders to better understand and navigate these challenges by emphasizing strategic foresight, adaptability, and resilience.

Changing the development process is essential to survive

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Changing the development process is essential for several reasons

1. **Adaptability to Market Changes**:
   Markets are dynamic, with consumer preferences and competitive landscapes constantly evolving. A flexible development process allows companies to quickly respond to these changes and stay ahead of the competition.
2. **Technological Innovation**
   Incorporating new technologies can enhance efficiency, reduce costs, and lead to more innovative products. For example, using AI for predictive analytics or 3D printing for rapid prototyping can significantly improve the development cycle.
3. **Sustainability**
   Modern consumers and regulations increasingly demand sustainable practices. Updating development processes to include eco-friendly materials and methods can help meet these expectations and reduce environmental impact.
4. **Customer-Centric Development**
   Focusing on customer needs and feedback throughout the development process can result in products that better meet market demands, leading to higher customer satisfaction and loyalty.
5. **Efficiency and Cost Reduction**
   Streamlining processes can reduce time-to-market and development costs, allowing companies to allocate resources more effectively and improve profitability.
6. **Risk Mitigation**
   A modernized development process can help identify and address potential risks early, increasing the likelihood of successful product launches.

Our SI EP world is also changing

- Our employee's world is also changing
  - More changes in our teams
  - Less product specific knowledge
- Our development is also changing
  - Shorter development cycles required to keep up with competitors
  - Globally distributed developments in different cultures
- Our products themselves are also changing
  - More Reuse
  - More systems fewer individual products and so more complexity

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Our employee's world is also changing …

1. Experienced experts are close to retirement age
2. Employees spend a shorter time in their position
3. Employees work more projects in the same period (years)
4. Gap of upcoming experts
5. Globally distributed developments in different cultures
6. Company restructuring
7. Know-How is often little documented
8. Problem of really transferring know-how to new colleagues

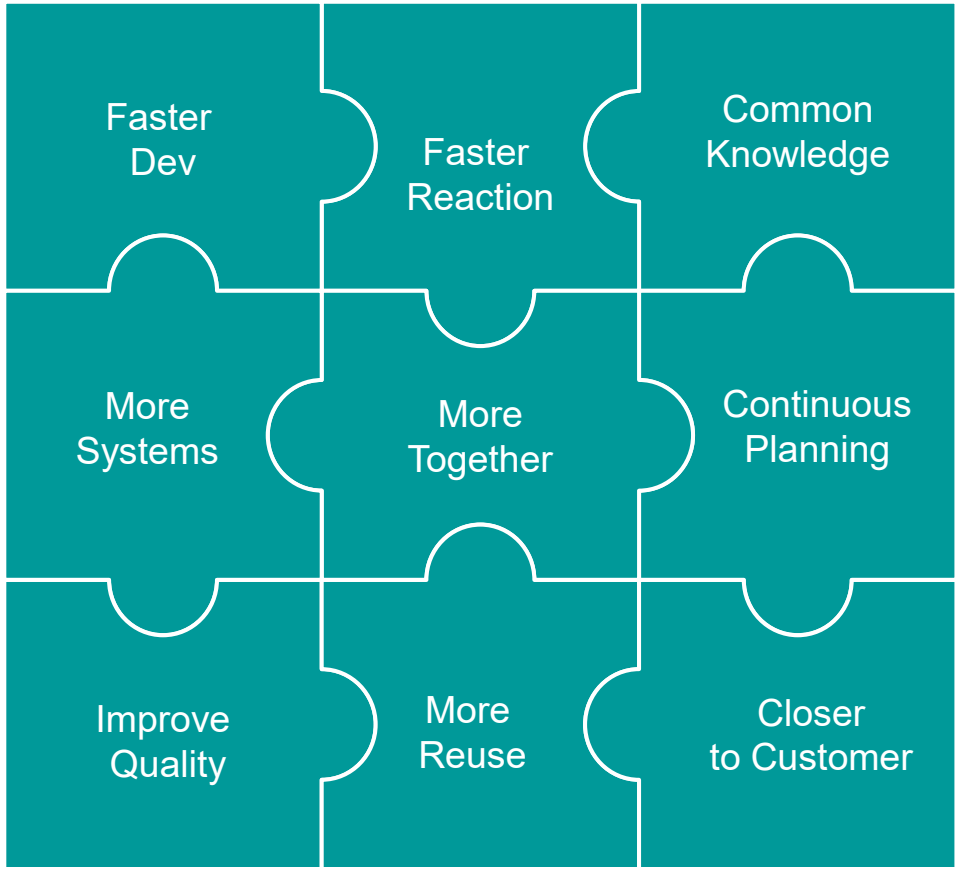
Our development is also changing …

1. Shorter development cycles required to keep up with competitors
2. More agility required in the development process to react faster
3. Stop potentially unprofitable or high-risk products earlier
4. Larger product range required - but without additional costs
5. Simultaneous development of various components
6. (Better) traceability required

Our products themselves are also changing …

7. Reuse of components (devices / modules / patterns / code …)
8. Reduce amount of different used components
9. Individual products are too expensive compared to the competition, only expandable flexible systems with additional customer value justify a higher price overall – so products get to systems
10. Systems are more complex than individual products
    means more interfaces, more customizability, more dependencies, more compatibility problems, more versions, more connectivity, more cyber security, more traceability, more …

How do we want to overcome these challenges?



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