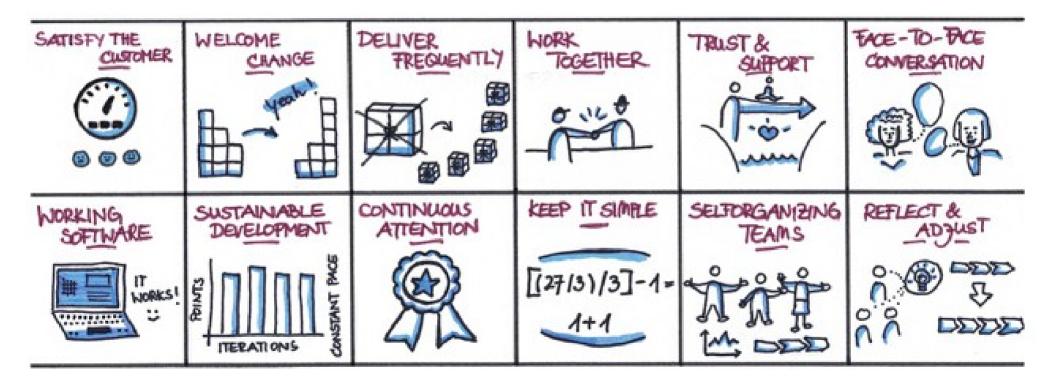


# Why Organizational Agility Depends on Technical Excellence!

Marcel Baumann, tangly llc



### **Agile Manifesto Principles**



## Agile Manifesto Principles

**Continuous attention** to **technical excellence** and **good design** enhances agility.

Working software is the primary measure of progress.

Build *projects* around motivated individuals. **Give them the environment and support they need**, and trust them to get the job done.

The best architectures, requirements, and designs emerge from **self-organizing teams**.

# **Historical Triggers**

- The Pragmatic Programmer 1999, 20<sup>th</sup> anniversary edition 2019
- Flaccid Scrum Martin Fowler January 2009
- Software Craftsmanship Manifesto 2009

Dichotomy Agile / Scrum vs Developers



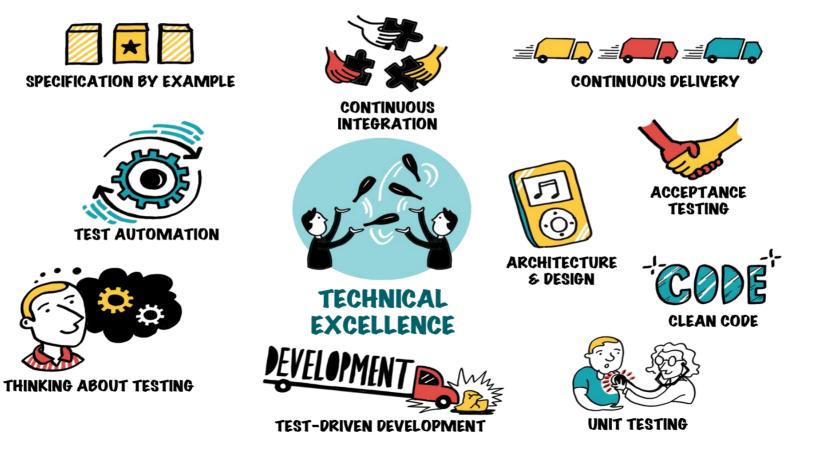


Andrew Hunt David Thomas

#### How Can You Bootstrap?

Quality Gate @ Passed		
Bugs 🔗 Vulnerabilities 🔗		Leak Period: since 7.1.1-SNAPSHOT started 2 months ago
4 <sup>©</sup> 激 Bugs <i>~</i>	11 • Vulnerabilities	<u>ک</u> الله New Bugs ه New Vulnerabilities
Code Smells 🖌		
67d A Debt started 7 years ago	2.6k	2d A 58 New Debt & New Code Smells
Coverage 🖌		
O 90.1% Coverage	18k Unit Tests	87.4% Coverage on 5.3k New Lines to Cover

#### Which Practices are Helpful?



## **Good Practices**

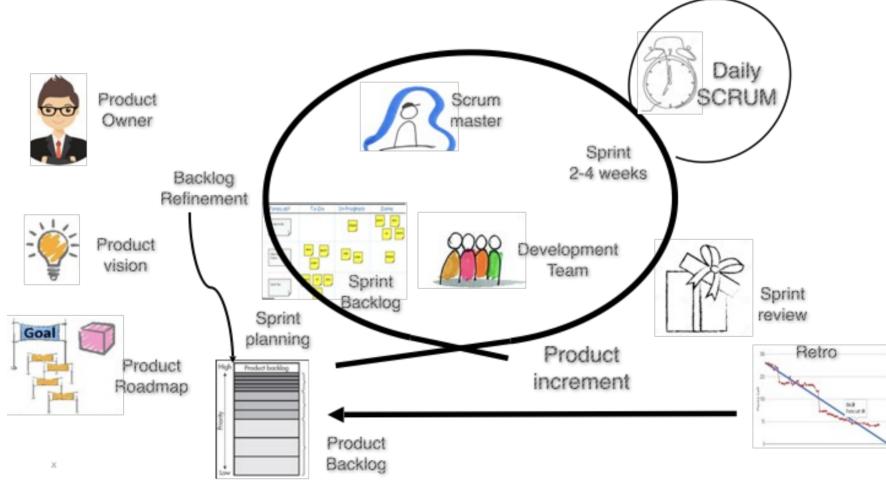
- Pair programing Mob programming
- Coding dojos, technical meetings
- Git and your code as a crime scene
- Zero bug policy
- Pragmatic craftsmanship
- Learning and training



# Which Challenges?

- Your team focus is on **feature delivery** and ignore quality
- Organization is not aware of **technical debt**
- Your organization is a **laggard** 
  - SVN vs git, manual testing vs. TDD and ATDD
  - Do not touch a running system
  - No monitoring or logging
  - Old JDK and libraries
- If your organization is a laggard, your cloud move will fail

#### Scrum



## Scrum and XP

- Certified Scrum Developer
  - Scrum Alliance and Scrum.org
- Extreme Programming is acknowledged
  - Not really integrated (2020-02-01)
    - PSM-I 285'830, PSM-II 5'923, PSM-III 780
    - PSD 11'1324

(ratio 1 PSD/26 PSM, which is strange given that there are several developers in one team and only one Scrum Master, expected 8 PDS/ 1 PSM – a difference of factor **200**)

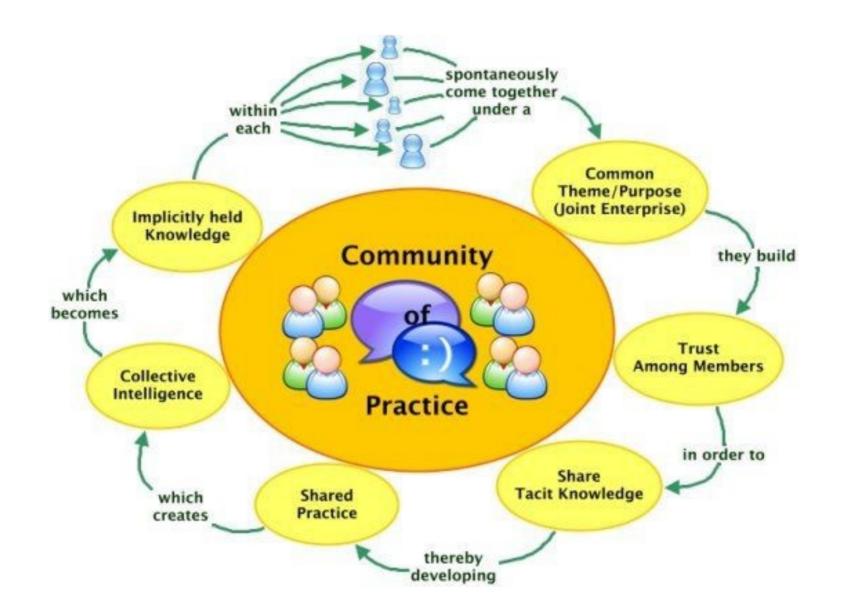
### Scrum Master Role

- Scrum is a management framework to develop products
- Scrum master is a **teacher**, **coach** and facilitator
  - You can only teach what you know!
  - Scrum master shall not be just framework police!
  - Remember working software is the primary measure of progress

## Scrum Master Team Responsibilities

The Scrum Master serves the Development Team in several ways, including:

- Coaching the Development Team in self-organization and **crossfunctionality**,
- Helping the Development Team to create high-value products,
- Removing impediments to the Development Team's progress,
- Facilitating Scrum events as requested or needed,
- Coaching the Development Team in organizational environments in which Scrum is not yet fully adopted and understood.



# **Scaling Approaches**

- LeSS
- Nexus and Scrum@Scale
- Spotify Model
- SAFe

### **Clean Movement**

- Robert C. Martin clean code movement is known by all modern software developers
- Very direct, no frills approach



### **DevOps Movement**

test

- From three weeks to two hours
- Feedback loop include operation
- Infrastructure as code → technical excellence

depl

• You build it, you test it, you run it

# Findings

- Scrum or Kanban frameworks do not guarantee good software product
- You need **technical excellence** to succeed
- Scrum Master is co-responsible for technical excellence

#### Discussion

- Links to blogs
- tangly blog
- Questions and Answers