

AGILE SOFTWARE DEVELOPMENT



Introduction in Agile Mindset

Course content

- Agile Mindset - Overview
- Scrum
- Extreme Programming
- Kanban
- Lean Product Development
- Other Methodologies: Crystal, FDD, DAD
- The future of Agile

Seminar content

- Agile Problem Solving
- Agile Mindset
- Agile Estimation
- Team Organization
- Limiting Work in Progress
- Delegation



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AGILE METHODOLOGIES FOR SOFTWARE APPLICATION DEVELOPMENT

Code: MLR5027

Ciclu de studii: Master

Programmes: Databases (mandatory)
Software Engineering (mandatory)
ICA, SDI, CS (optional)

Semester: 1

Hours: 2+1

Group code Microsoft Teams: f2g6cta

Link to register in Code of Talent: TBD

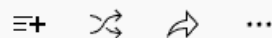
Schedule of Agile Courses & Seminars : 2024-2025

Courses/Seminars	Software Engineering		Baze de date		Cyber Security	Applied Computational Intelligence	Sisteme distribuite în internet (254)
	248/1	248/2	243/1	243/2	240		
Course 1. Introduction in Agile Methodologie	Monday, October 7th, 2024 14:00 - 16:00, 6/II						
Course 2. Agile vs Waterfall Approaches	Monday, October 14th, 2024 14:00 - 16:00, 6/II						
Course 3. Scrum 1 - Roles	Monday, October 21st, 2024 14:00 - 16:00, 6/II						
Course 4. Scrum 2 - Artifacts	Monday, November 4th, 2024 14:00 - 16:00, 6/II						
Course 5. Scrum 3 - Ceremonies	Monday, November 11th, 2024 14:00 - 16:00, 6/II						
Course 6. User Stories.	Monday, November 18th, 2024 14:00 - 16:00, 6/II						
Course 7. Agile Estimation	Monday, November 25th, 2024 14:00 - 16:00, 6/II						
Course 8. Extreme Programming 1 - Principi	Monday, December 2nd, 2024 14:00 - 16:00, 6/II						
Course 9. Extreme Programming 2 - Practice	Monday, December 9th, 2024 14:00 - 16:00, 6/II						
Course 10. Lean Software Development	Monday, December 16th, 2024 14:00 - 16:00, 6/II						
Course 11. Kanban	Monday, January 6th, 2025 14:00 - 16:00, 6/II						
Course 12. Performance Management	reschedule						
Course 13. Other Agile Practices. Future of /	Monday, January 13th, 2025 14:00 - 16:00, 6/II						
Seminar 1. Agile Problem Solving	Mon, Oct 14th 16:00 - 18:00 MOS15	Mon, Oct 7th 16:00 - 18:00 MOS15	Tue, Oct 1st 14:00 - 16:00 5/I	Tue, Oct 8th 14:00 - 16:00 5/I	Tue, Oct 1st 16:00-18:00 A305	Mon, Oct 14th 18:00 - 20:00 A304	Mon, Oct 14th 16:00 - 18:00 MOS15
Seminar 2. Being Agile vs Doing Agile	Mon, Nov 4th 16:00 - 18:00 MOS15	Mon, Oct 21st 16:00 - 18:00 MOS15	Tue, Oct 15th 14:00 - 16:00 5/I	Tue, Oct 22nd 14:00 - 16:00 5/I	Tue, Oct 15th 16:00-18:00 A305	Mon, Oct 4th 18:00 - 20:00 A304	Mon, Nov 4th 16:00 - 18:00 MOS15
Seminar 3. Teamwork	Mon, Nov 11th 16:00 - 18:00 MOS15	Mon, Nov 18th 16:00 - 18:00 MOS15	Tue, Nov 12th 14:00 - 16:00 5/I	Tue, Nov 19th 14:00 - 16:00 5/I	Tue, Nov 12th 16:00-18:00 A305	Mon, Nov 11th 18:00 - 20:00 A304	Mon, Nov 11th 16:00 - 18:00 MOS15
Seminar 4. Agile Estimations in Practice	Mon, Nov 25th 16:00 - 18:00 MOS15	Mon, Dec 2nd 16:00 - 18:00 MOS15	Tue, Nov 26th 14:00 - 16:00 5/I	Tue, Dec 3rd 14:00 - 16:00 5/I	Tue, Nov 26th 16:00-18:00 A305	Mon, Nov 25th 18:00 - 20:00 A304	Mon, Nov 25th 16:00 - 18:00 MOS15
Seminar 5. Limiting Work in Progress	Mon, Dec 9th 16:00 - 18:00 MOS15	Mon, Dec 16th 16:00 - 18:00 MOS15	Tue, Dec 10th 14:00 - 16:00 5/I	Tue, Dec 17th 14:00 - 16:00 5/I	Tue, Dec 10th 16:00-18:00 A305	Mon, Dec 9th 18:00 - 20:00 A304	Mon, Dec 9th 16:00 - 18:00 MOS15
Seminar 6. Delegation	Mon, Jan 6th 16:00 - 18:00 MOS15	Mon, Dec 13th 16:00 - 18:00 MOS15	Tue, Jan 7th 14:00 - 16:00 5/I	Tue, Jan 14th 14:00 - 16:00 5/I	Tue, Jan 7th 16:00-18:00 A305	Mon, Jan 6th 18:00 - 20:00 A304	Mon, Jan 6th 16:00 - 18:00 MOS15



Gestionarea Proiectelor Software

24 videos • 451 views • Updated 6 days ago



Un podcast despre practici, instrumente și framework-uri utilizate în managementul proiectelor în general și al proiectelor software în special. Majoritatea subiectelor vor fi din zona managementului adaptiv (Agile) de proiecte, însă nu au fost neglijate nici cele legate de managementul predictiv (Waterfall). Podcastul s-a născut din dorința de a furniza o sursă de informație suplimentară studenților înscriși la cursurile de Gestionarea Proiectelor Software și Dezvoltarea Agila a Softwului, cursuri predate la Facultatea de Matematică și Informatică a Universității Babeș-Bolyai Cluj-Napoca dar și celor care urmează cursul de Metodologii Alternative de Management al Proiectelor se la Școala Națională de Științe Politice și Administrative, București. În același timp acest podcast poate fi util

SHOW MORE

- | | | |
|----|--|---|
| 15 | | Gestionarea Proiectelor Software S1E09 Metodologia Scrum - Roluri
Dan Mircea Suci |
| 16 | | Gestionarea Proiectelor Software S1E08 Gestionarea așteptărilor clienților
Dan Mircea Suci |
| 17 | | Gestionarea Proiectelor Software S1E07 "Artiști și Specificatori"
Dan Mircea Suci |
| 18 | | Gestionarea Proiectelor Software S1E06 Waterfall vs. Agile
Dan Mircea Suci |
| 19 | | Gestionarea Proiectelor Software S1E05 Manifestul Agile
Dan Mircea Suci |
| 20 | | Gestionarea Proiectelor Software S1E04 Structuri organizaționale
Dan Mircea Suci |
| 21 | | Gestionarea Proiectelor Software S1E03 Analiza stakeholder-ilor
Dan Mircea Suci |
| 22 | | Gestionarea Proiectelor Software S1E02 Agil și Antifragil
Dan Mircea Suci |



First mission!

Time left:
14 days

5 minutes

P
2 Points

Level 1

≡ Mission requirements

📎 Attached files

📺 Attached videos

For your succes here, your first mission is to fulfill your profile! How to do that, simple:
In the right-top corner click on your name and ... you will see your profile. There, click on edit profile button and tell us about you:

- upload your profile picture (take care, there is a limit of 2 MB for your file)
- present yourself in the community in the "About you" section

When you are ready, click the Save button.

After all is set, return to this mission and post a picture that best describes what does Agile mean to you. Your mission is complete and you have your first two points!

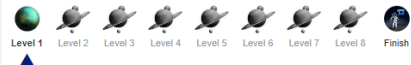


Agile Software Development

📅 10/03/2022 - 02/01/2023

Category: AGILE

Your Journey Progress



Your current position

Level 1

DS Dan Sucu2



Missions to complete

2

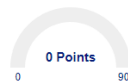
in Level 1

Overall Progress

Missions 0/17

Levels 0/8

Your score



Your missions in this level



Proof

2 Points

First mission!

Solve now

🕒 Time left: 14 days



Time to resolve: 5 minutes



Energy level

Your energy is High



■ Your energy
■ Peers' energy

Low Medium High
< 30% 30% - 70% > 70%

Low

Nobody here

Offer help

Medium

Nobody here

Boost

High

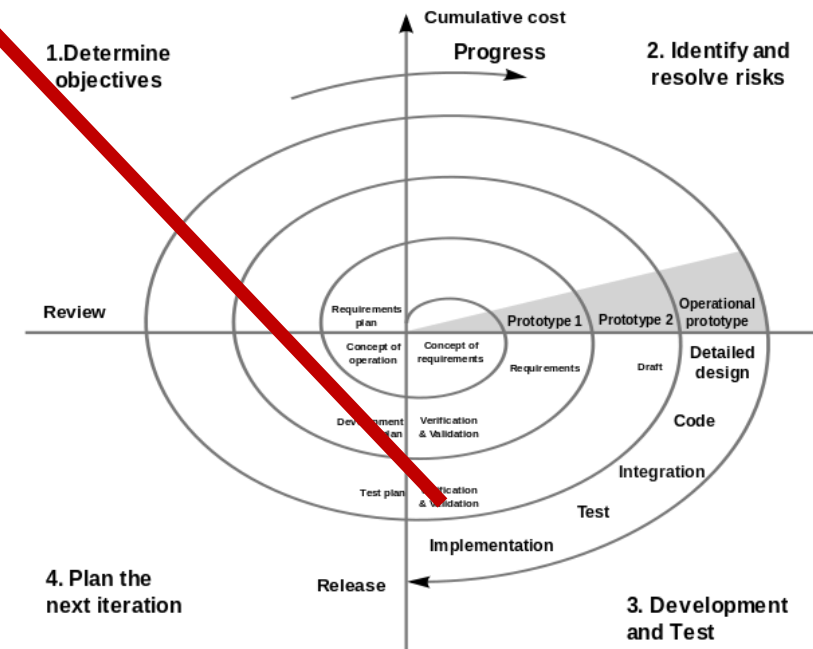
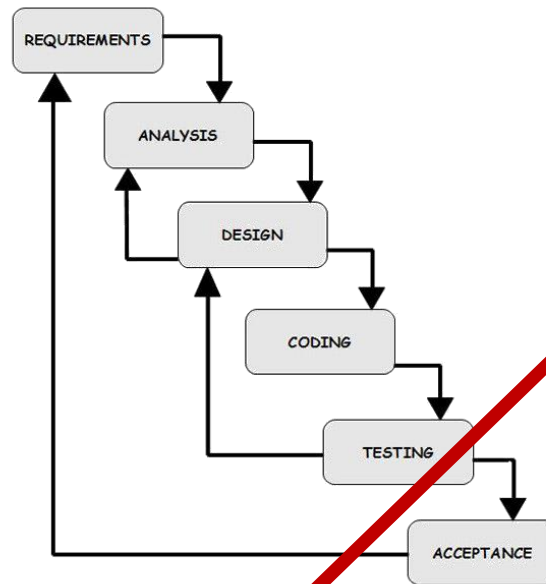
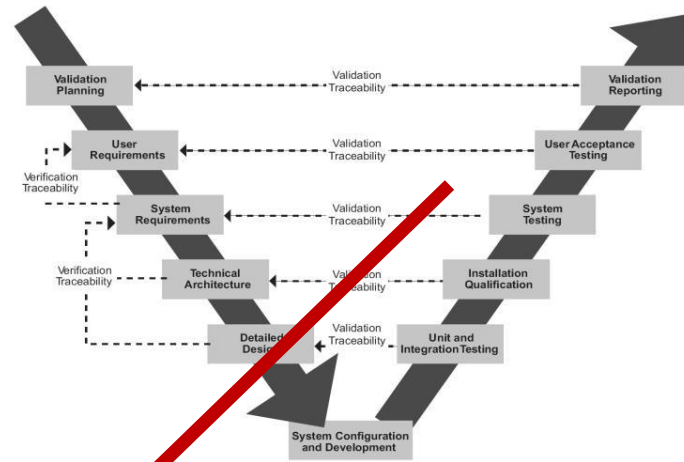


<https://app.codeoftalent.com/registration/app0-XJnh>

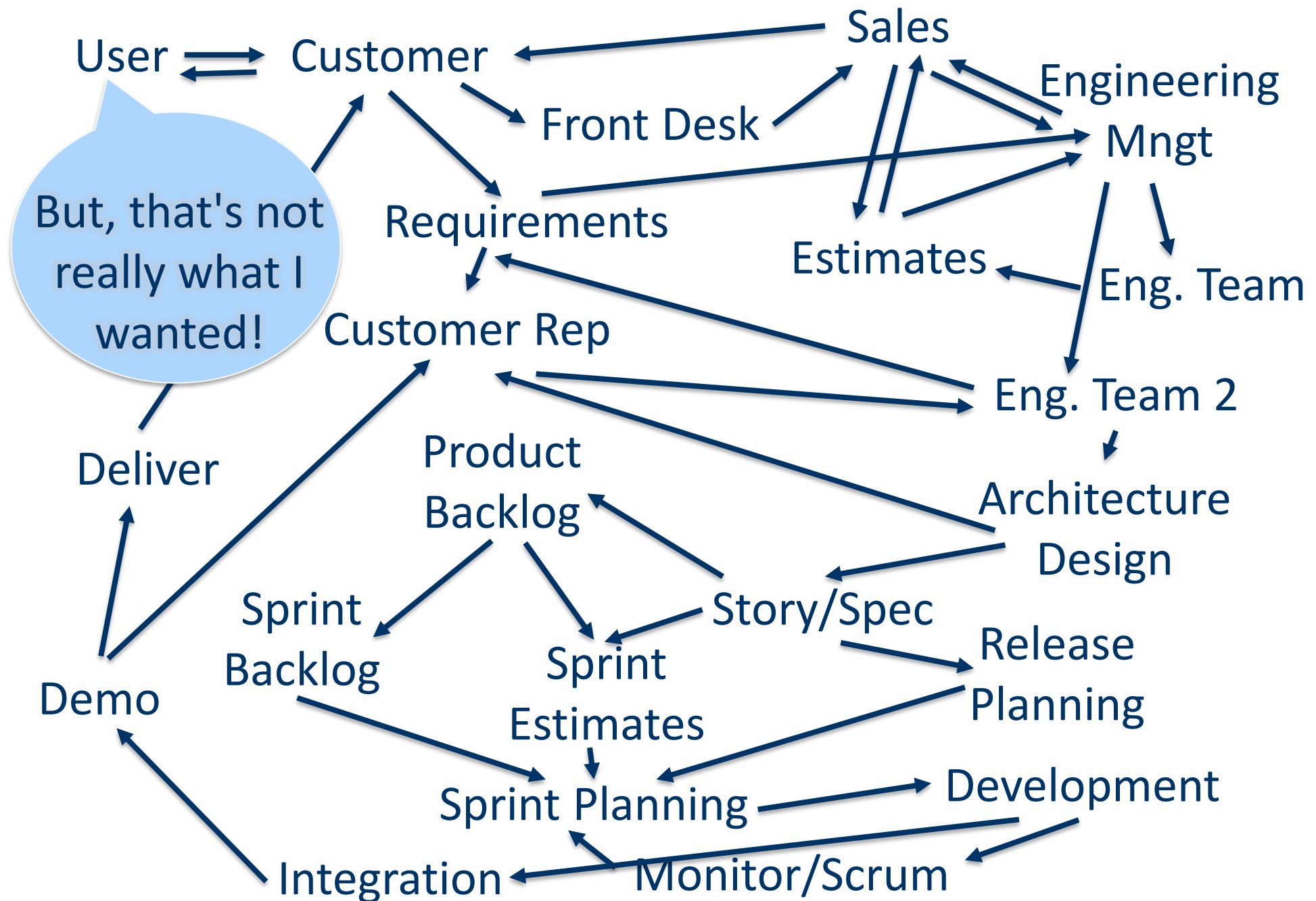
18 missions already added in CoT:

- 16 regular missions (max. **78 points**)
- 1 special mission (seminar attendance, max **12 points**)
- 1 optional mission (survey, **5 points**)

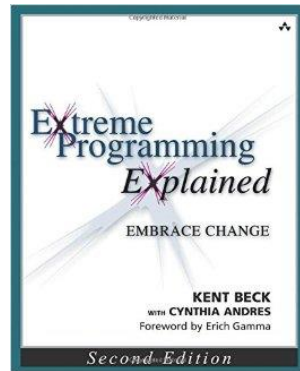








Agile Manifesto (2001)



XP

Kent Beck

Mike Beedle

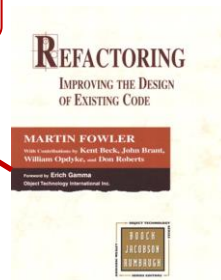
Arie van Bennekum

Alistair Cockburn

Ward Cunningham

Martin Fowler

Crystal



James Grenning

Jim Highsmith

Andrew Hunt

Ron Jeffries

Jon Kern

Brian Marick



Robert C. Martin

Steve Mellor

Ken Schwaber

Jeff Sutherland

Dave Thomas

Scrum



Model Driven
Architecture

Agile Manifesto

We are uncovering better ways of developing software by doing it and helping others do it. Through this work we have come to 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*

Principle 1

Our highest priority is to satisfy the customer through **early and continuous** delivery of **valuable outcome**.

*CUT THE SCOPE IN MILESTONES AND
DELIVER AS SOON AS POSSIBLE*

*BE AWARE THAT OUTPUT IS NOT
NECESSARILY OUTCOME.*



Principle 2

Welcome
changing requirements,
even late in development.
Agile processes harness
change for the customer's
competitive advantage

*CUSTOMERS DON'T KNOW WHAT
THEY WANT. THAT'S OK.*

*PRODUCT BACKLOG IS ALWAYS
CHANGING. THAT'S ALSO OK.*



Principle 3

Deliver
working versions **frequently**,
from a couple of weeks to a
couple of months,
with a preference to the
shorter timescale.

ALWAYS PAY ATTENTION TO QUALITY.

*DELIVER A FUNCTIONAL VERSION AS
OFTEN AS POSSIBLE.*



Principle 4

Business people and developers must **work together** daily throughout the project.

KEEP STAKEHOLDERS AS CLOSE AS POSSIBLE.

WORKING TOGETHER MEANS BEING TRANSPARENT, INSPECTING AND ADAPTING CONTINUOUSLY.



Principle 5

Build projects around
motivated individuals.

Give them **the**
environment and support
they need and **trust them**
to get the job done.

*AGILE IS NOT MOTIVATING PEOPLE.
LEADERS AND PROJECTS DO.*

*ENVIRONMENT MEANS CONTEXT,
CONSTRAINTS AND OBJECTIVES.*

*TRUST IS ESSENTIAL TO AGILE
PRACTICE.*



Principle 6

The most **efficient** and **effective** method of conveying information to and within a development team is **face-to-face conversation.**

EFFICIENT MEANS BEING CONCERNED ABOUT CONSUMED RESOURCES.

EFFECTIVE MEANS BEING CONCERNED ABOUT GOAL ACHIVEMENT.

INDIRECT COMMUNICATION SHOULD BE USED WITH PARSIMONY.





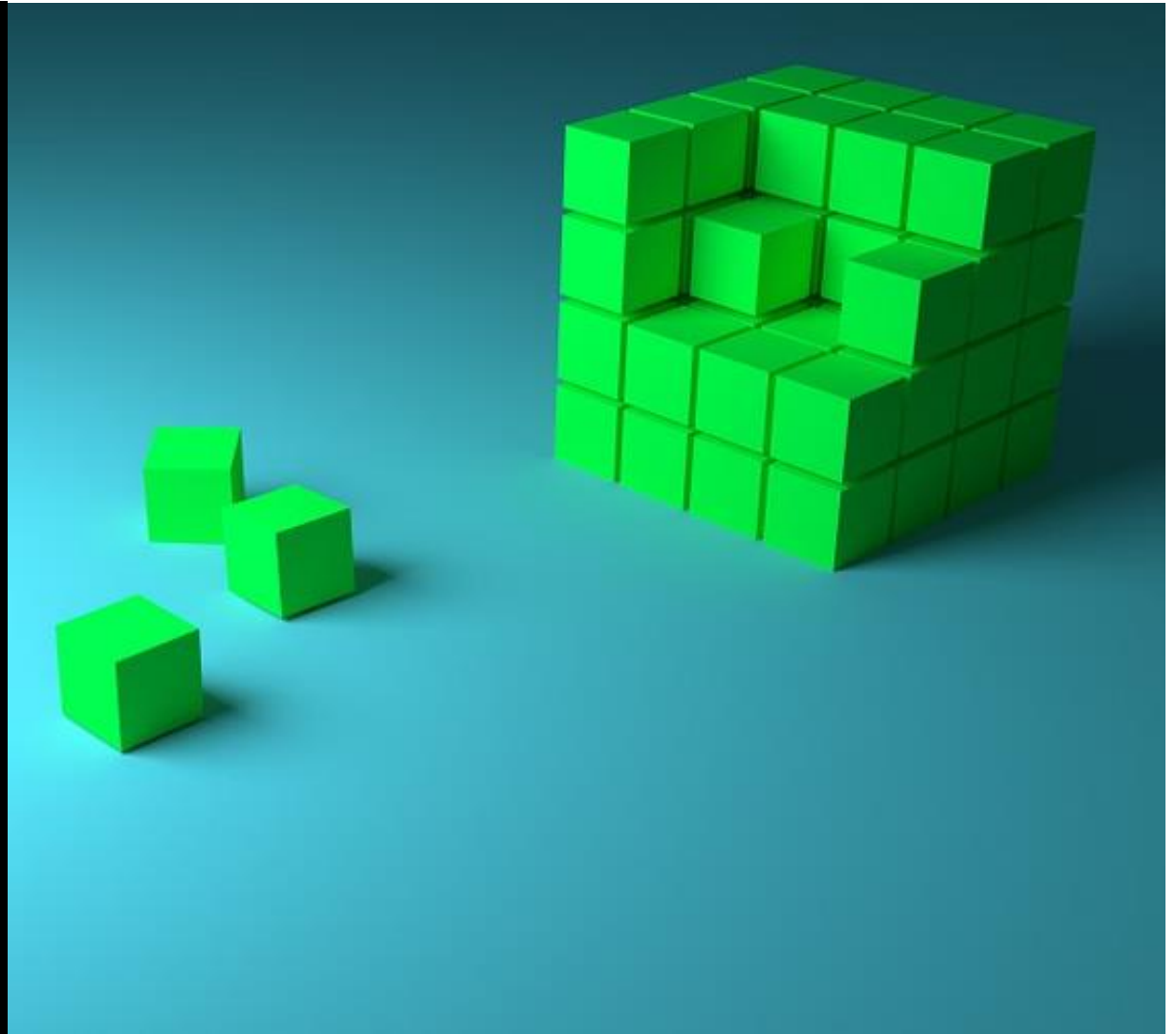
Principle 7

Working deliverables
are the primary measure of
progress.

*PAY ATTENTION TO ACCEPTANCE
CRITERIA.*

*MAKE SURE TO DEFINE EXACTLY WHAT
ARE THE DELIVERABLES.*

*MEASURING PROGRESS IS CRUCIAL TO
AGILE PROJECTS.*



Principle 8

Agile processes promote **sustainable development**.
The sponsors, developers and users should be able
to maintain a
constant pace indefinitely.

*SUSTAINABILITY REFERS TO BUDGET,
SCOPE AND EFFORT.*

*AGILE PROJECTS ARE MARATHONS,
NOT 100m HURDLES.*



Principle 9

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

*CONTINUOUS ATTENTION IMPLIES
FROM THE VERY BEGINNING.*

*TECHNICAL EXCELLENCE IS CHOOSING
THE RIGHTEST SOLUTION DEPENDING
ON PROJECT'S OBJECTIVES.*



Principle 10

Simplicity

– the art of maximizing the amount of work not done –
is essential.

NO UNNECESSARY COMPLEXITY.



Principle 11

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

*SELF-ORGANIZING MEANS
COLLECTIVELY ASSUMING AND
PRACTICING
MANAGEMENT PRINCIPLES.*



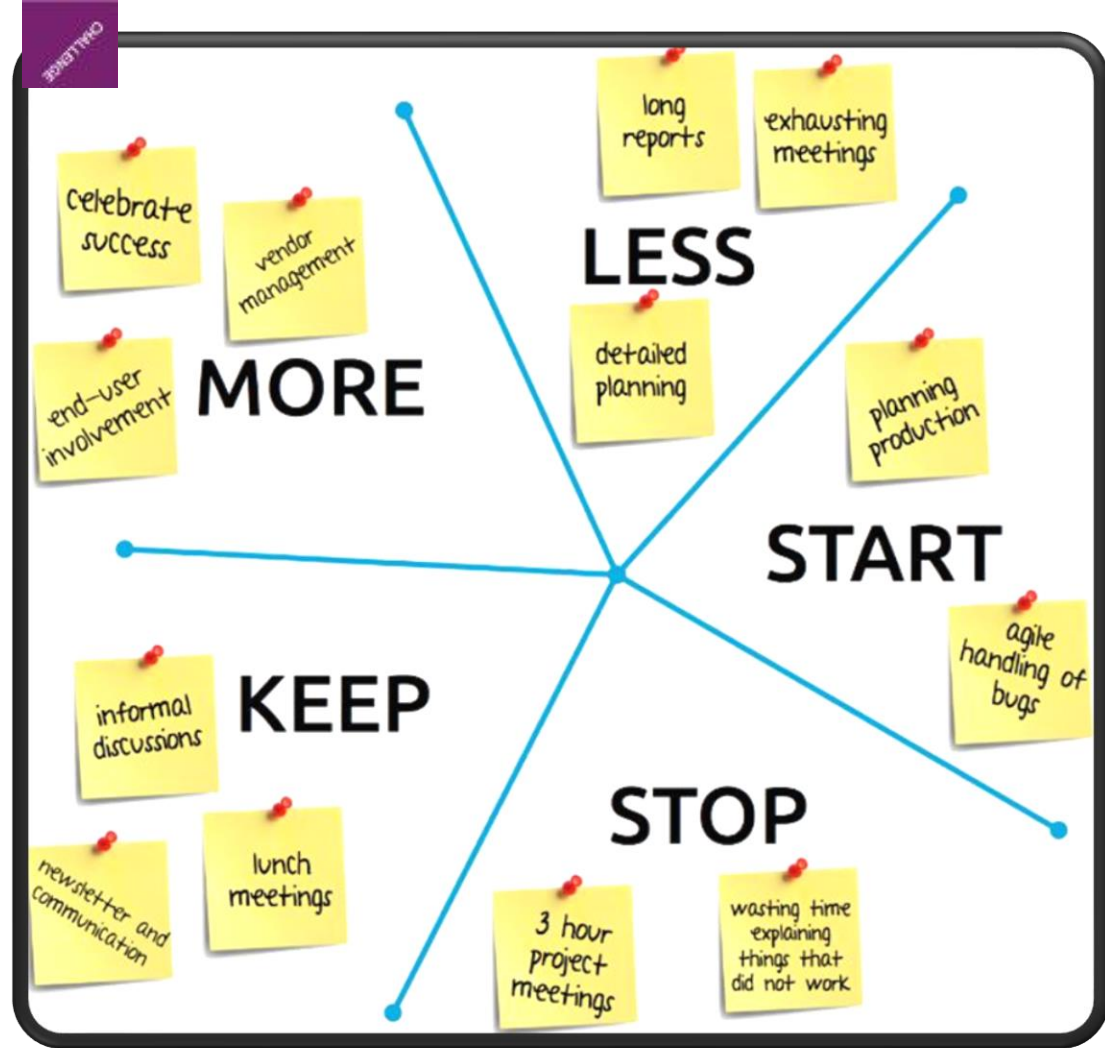
Principle 12

At **regular intervals**,
the team **reflects** on how
to become more effective,
then **tunes and adjusts** its
behavior accordingly.

NEVER GIVE UP ON RETROSPECTIVES.

*REFLECTING INVOLVES A GENUINE AND
HONEST CONCERN.*

*ADJUSTING MEANS A MEASURABLE
IMPROVEMENT.*



Agile manifesto

