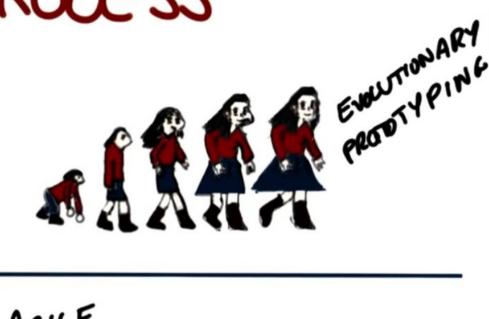
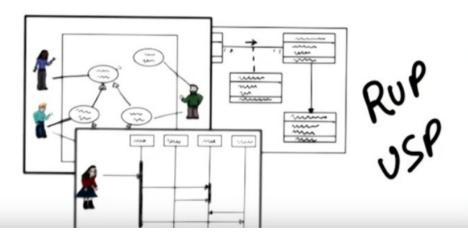
SOFTWARE PROCESS

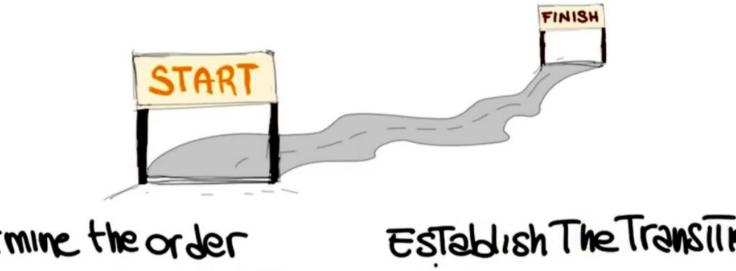








SOFTWARE PROCESS MODEL



Determine the order

ESTablish The Transition criteria



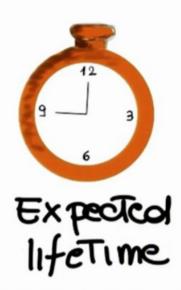
CHOOSING A SOFTWARE PROCESS MODEL



Require ments Understanding



Schedule Constraints





Ma nagement / customers





CLASSIC MISTAKES: PEOPLE



Heroics



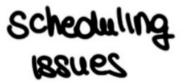
wark environment



Apple management

CLASSIC MISTAKES: PROCESS







Planning

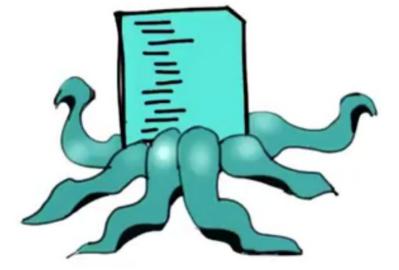


Failures

CLASSIC MISTAKES: PRODUCT



dag basing



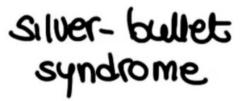
Teature creep



Research + Development

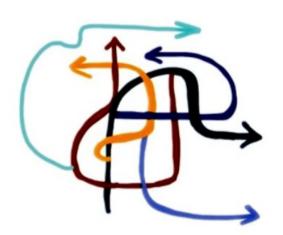
CLASSIC MISTAKES: TECHNOLOGY







switching tods



No version control

Rational Unified Process

Methodology is a set of models, methods, practices and tools.

The methodologies classified as

- «Heavy»/«Formal» : RUP, MSF
- «Light»/«Flexible» : Scrum, Agile, eXtreme Programming

Rational Unified Process

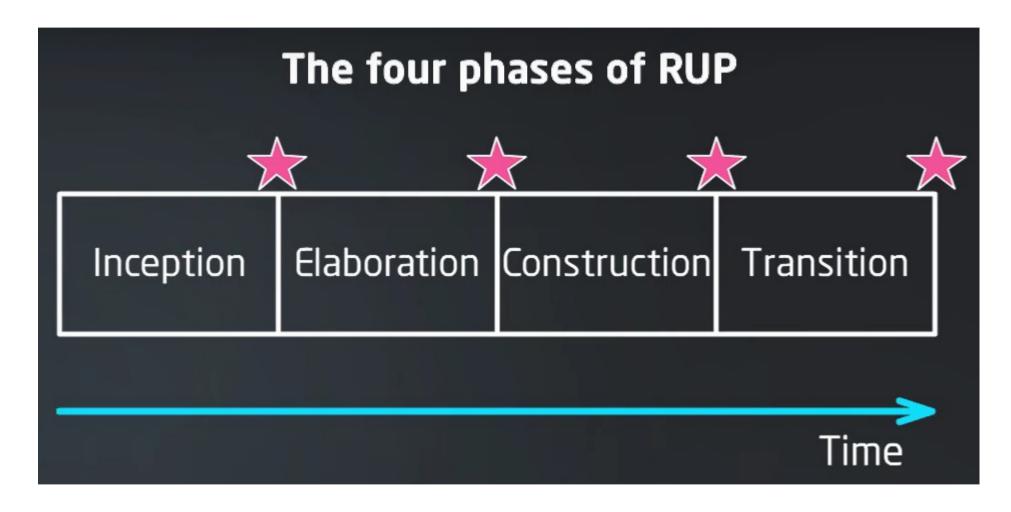
RUP — approach, which is

- Iterative
- Architecture centered
- Use-case based

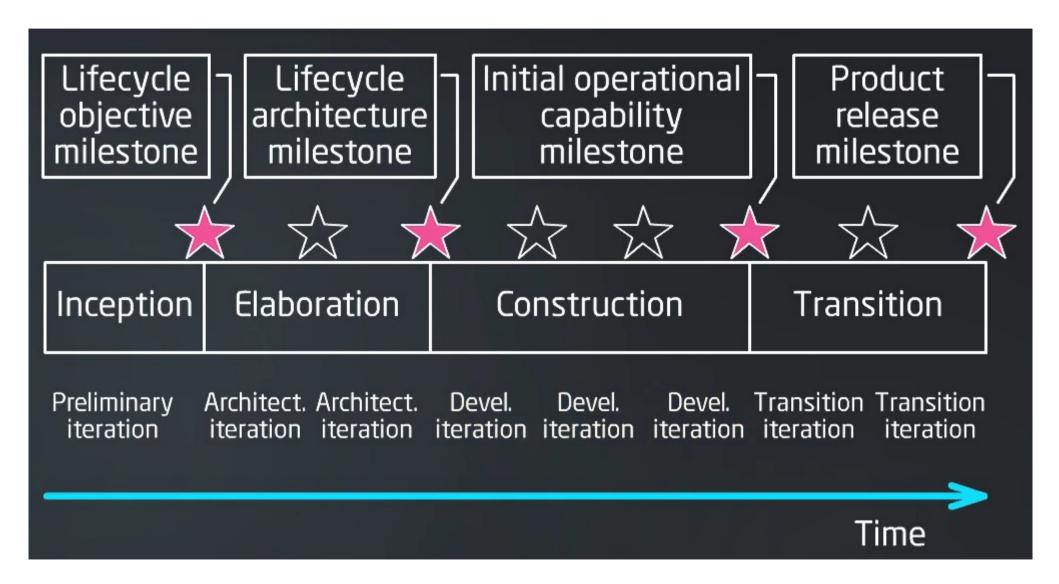
The four phases of RUP

- Inception (What will be developed?)
- Elaboration (How it will be developed?)
- Construction (Product development)
- Transition (Product delivery)

The four phases of RUP



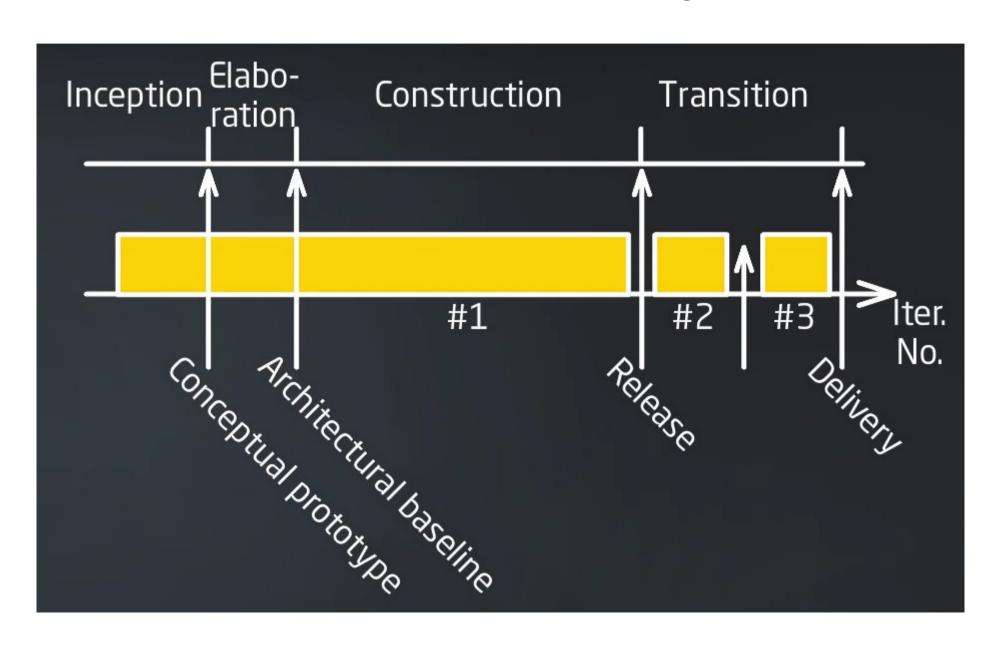
The four phases of RUP



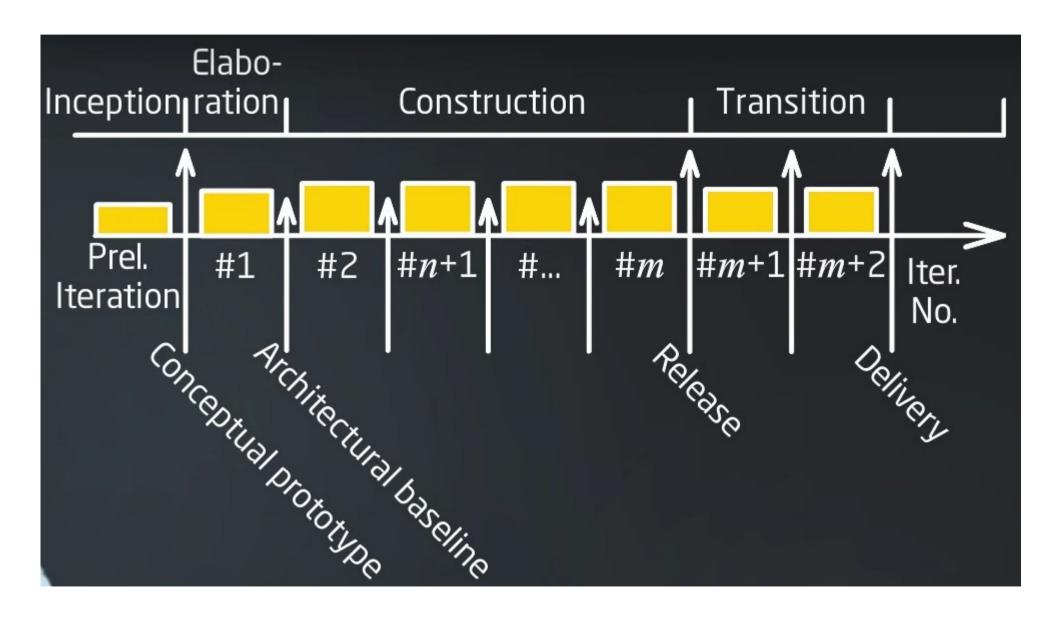
RUP practices

- Provide cutomer requirements satisfaction
- Concentrate on the program implemented
- Adjust to changes since project start
- Build a commponent system
- Build the foundation of implementable architecture ASAP
- Make quality a lifestyle

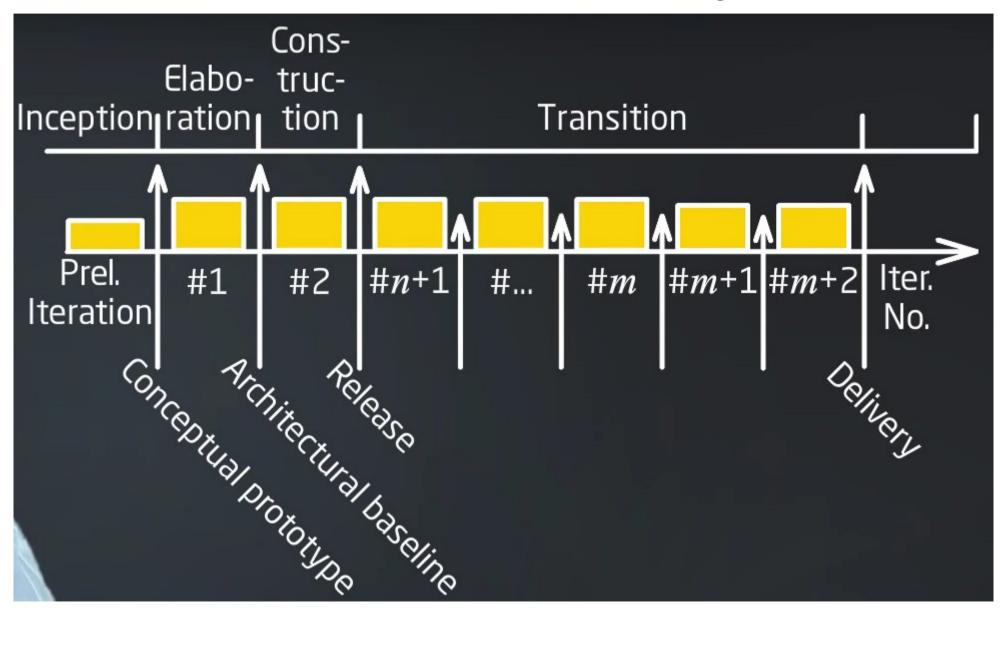
RUP waterfall lifecycle



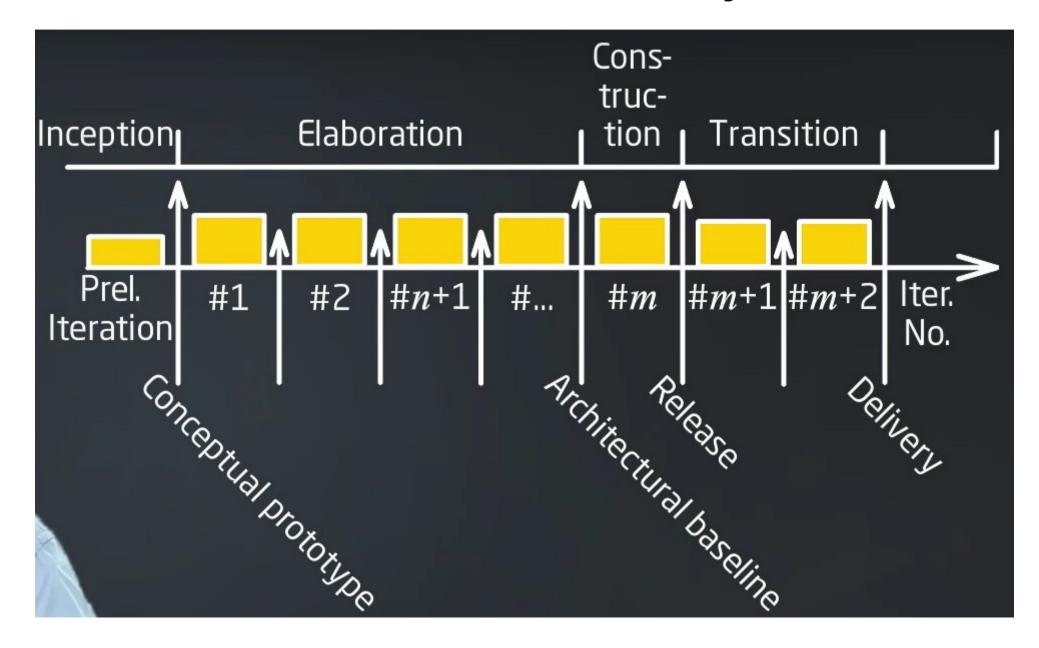
RUP: incremental lifecycle



RUP: incremental lifecycle 2

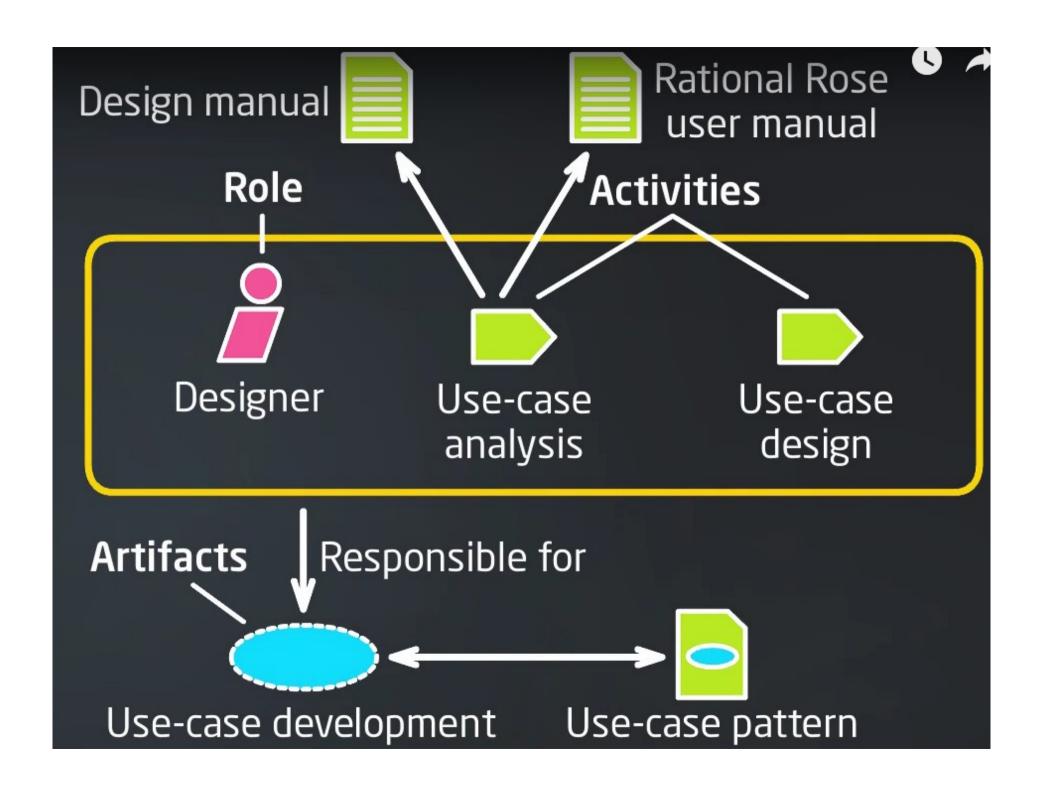


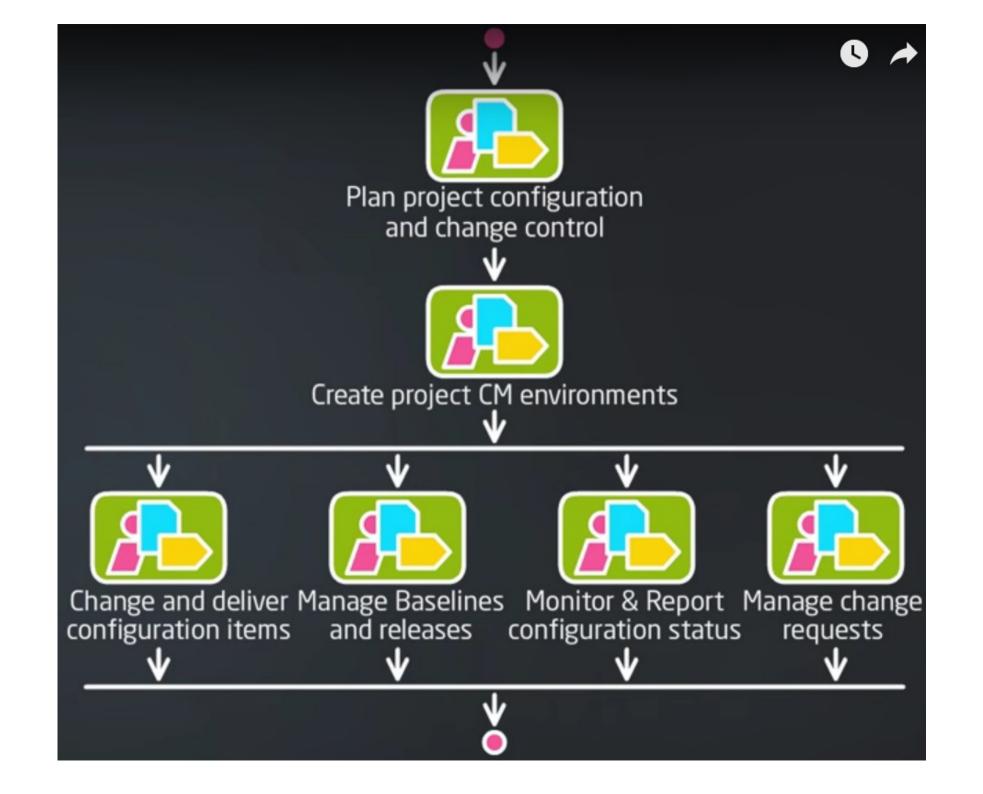
RUP: evolution lifecycle

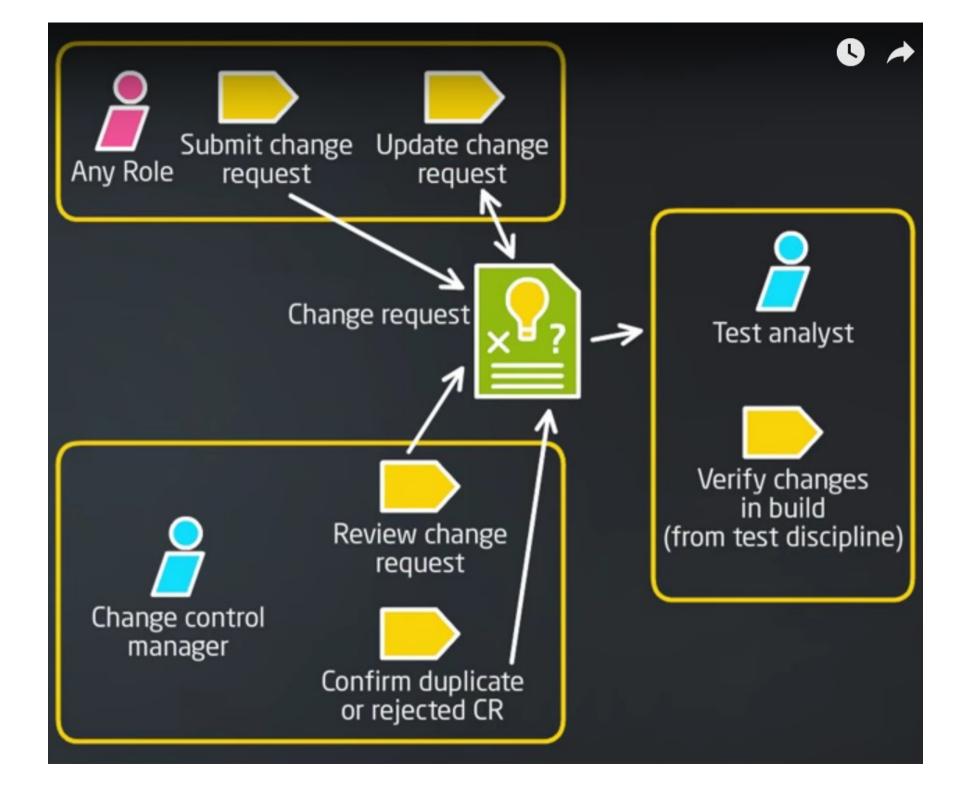


RUP: organization

- RUP is iterative software (SW) development process framework
- RUP is organized in phases, iterations and workflows
- RUP structure includes roles, activities and artifacts
- RUP processes use manuals, patterns and SW user manuals
- RUP structure uses workflows of activities
- RUP includes a set of best practices







Microsoft Solution Framework

MSF has two implementations:

- MSF Agile
- MSF Formal

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Microsoft Operations Framework (MOF) is an addition
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MSF = Build it right
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MOF = Run it right

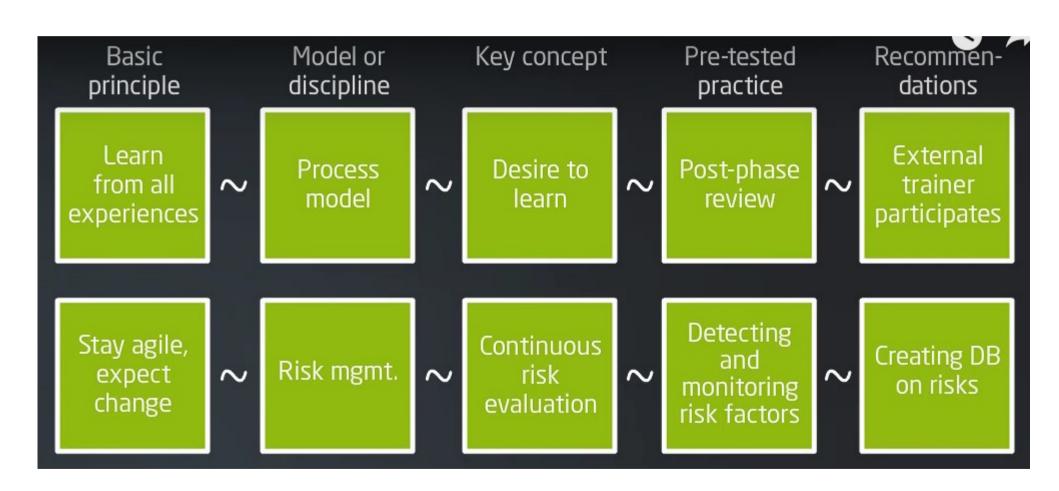
MSF elements

- Basic principles
- Models for teams and processes
- Disciplines of managing
- Key concepts (mindsets)
- Practices
- Recommendations
- Meta-model
- Implementation for MSF Agile
- Implementation for MSF Formal

MSF basic principles

- Partnership with client
- Foster open communication
- Work toward a shared vision
- Quality is everyday work for everyone (invest in quality)
- Stay agile, expect change
- Make implementation a habit
- Create value (focus on delivering business value)

MSF: Elements and Relationships



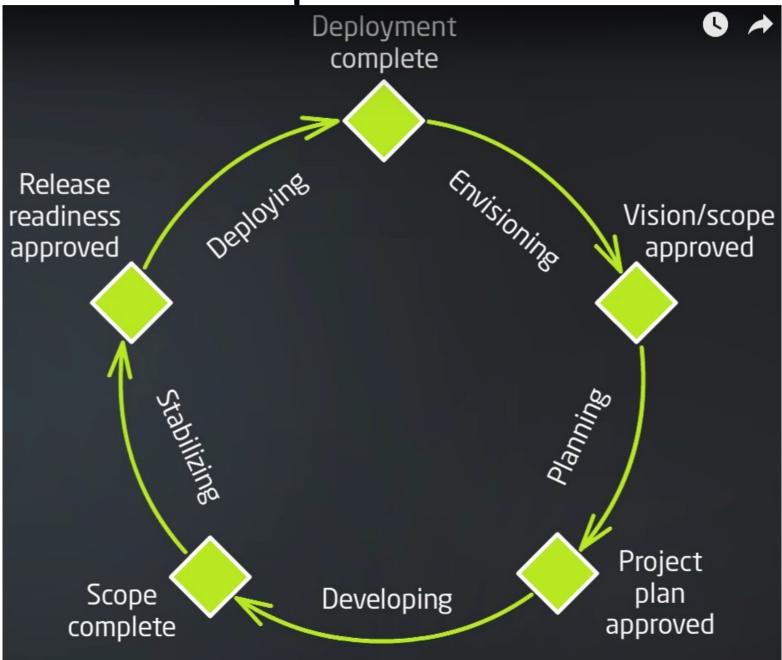
MSF: teamwork principles

- A team of equal
- Representing interests of all interested sides
- Adjust to match project scale («teams of teams»)

MSF: team model



MSF: process model



MSF: Role Compatibility Matrix

	Arc	MPrd	MPrg	Dev	Tst	UX	RM
Architecture		N	Р	Р	L	L	L
Product mpmt.			N	N	Р	Р	L
Program mpmt.				N	L	L	Р
Development			451		N	Ν	Ν
Testing						Р	Р
User experience				ill.			L
Release mgmt.							

N – not recommended; P – possible; L – low probability