



Inventing Agile Flavor

Agile is spirituality and not a religion

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Objective

- Theme of my talk
- What you would get out of this talk
- Release 1 Agile Best Practices
- Release 2 Agile Best Practices and tools
- Release 3 Agile Best Practices and tools
- Spirituality Vs Religion and Agile
- Various Agile religions
- Foundation for inventions
- Values and Lean Principles
- Questions



Theme

Agile = Spirituality

Agile \neq Religion

Spirituality Vs Religion



“The main difference between Spirituality and Religion is the freedom to choose **your own path** towards enlightenment and ultimately, recognition of our Divine selves.

There is absolutely **nothing wrong with many religions and belief systems**, except that they are exclusionary and limiting..... (this para with key sentence is completed in the last slide !!)

http://www.omplace.com/articles/Spirituality_vs_Religion.html



What you would learn from this presentation ?

- You will learn how to migrate your process from Traditional method to an agile way
- You will get to know some of the tools that could be used to make your software development Productive
- You would learn the values and principles on which you can invent/Derive practices



Release 3 - Where are we right now ?

- Onsite and Offshore model with a distributed team
- Completed successfully 37 Iterations of 2 weeks each
- Stress free development
- Fully Agile with “Invented”/derived set of best practices
- Highly energized team
- 90% accuracy in planning and estimation
- Attrition – Highly Controlled
- Successful 4 releases of the product with a controlled delay of 3 weeks in 2 years !





Tell me the Story from Release 1

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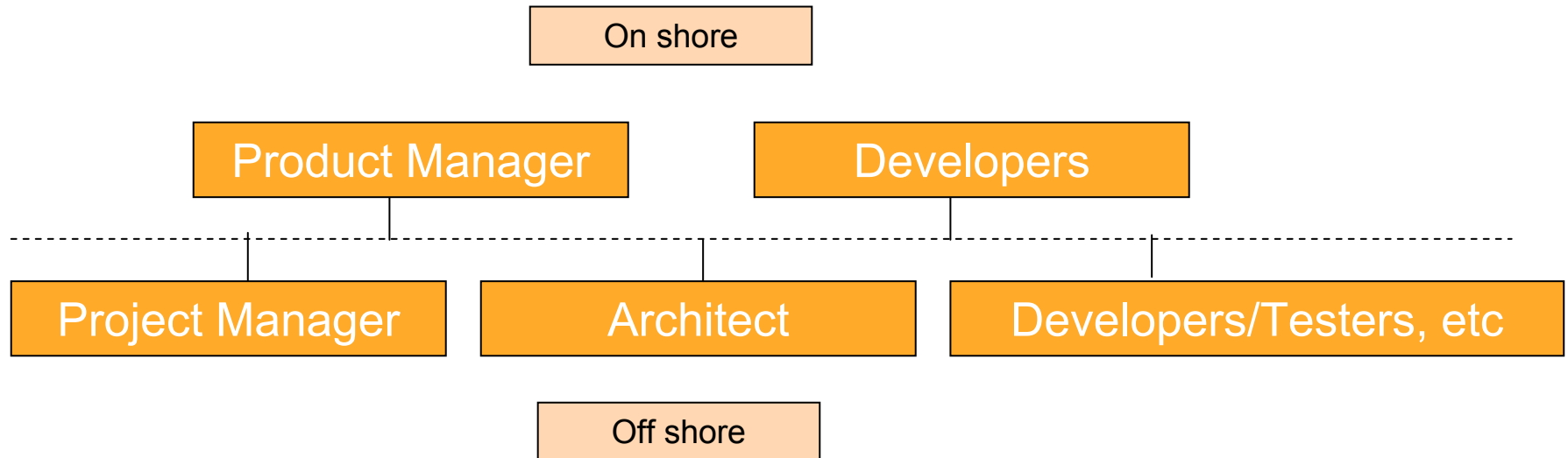
Release 1 - Scenario



- **Project Type : Green Field**
- **Agile Experience of the team : None**
- **Total Team Size: 5 (during beginning of the project)**
- **Development Model: Onsite/Offshore**
- **Pricing: T & M**
- **Developers Background: CMM I and Traditional SDLC**



Release 1 - Team Structure

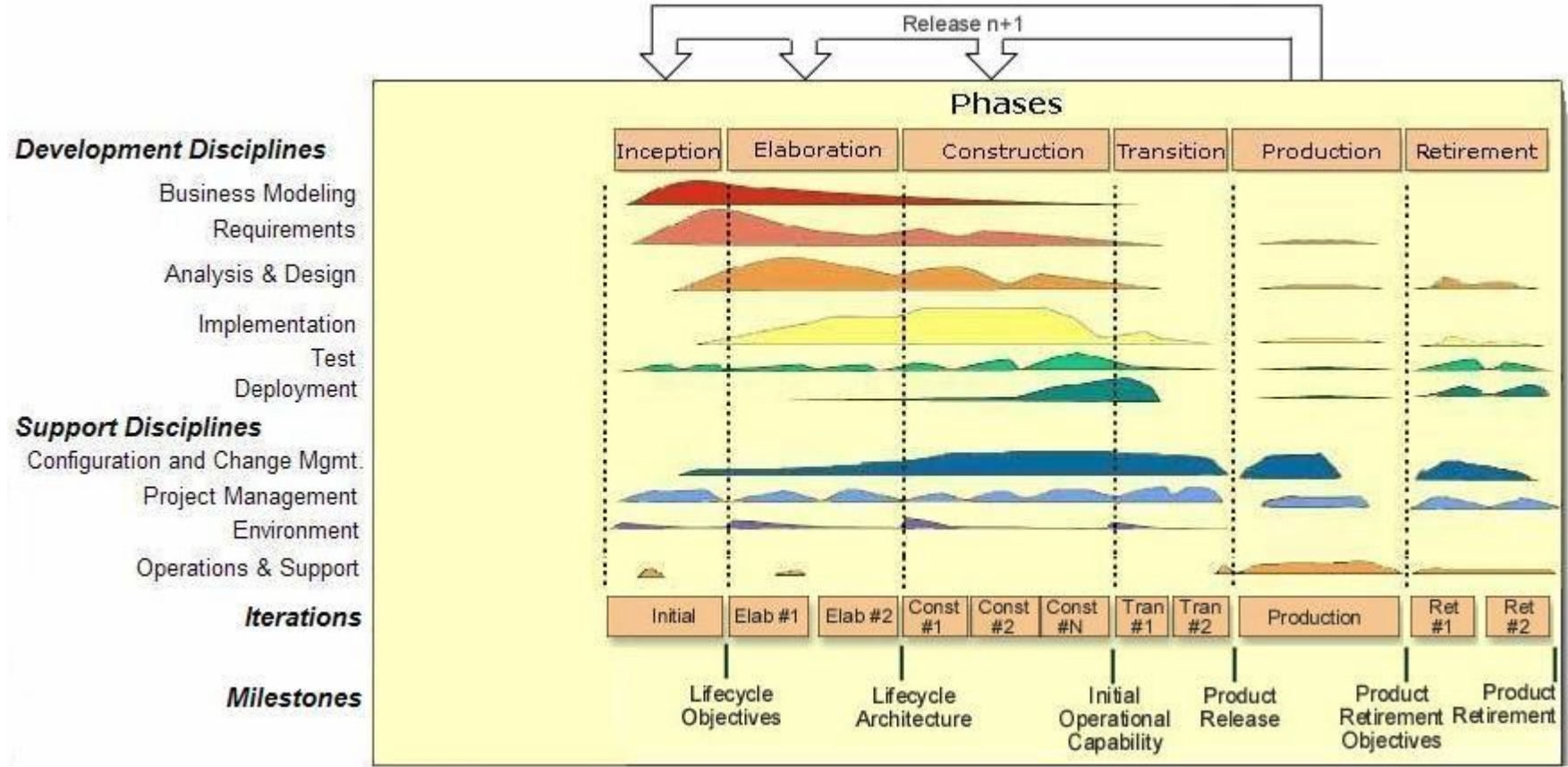


Our Goal

Doing the product development using Agile Methodology

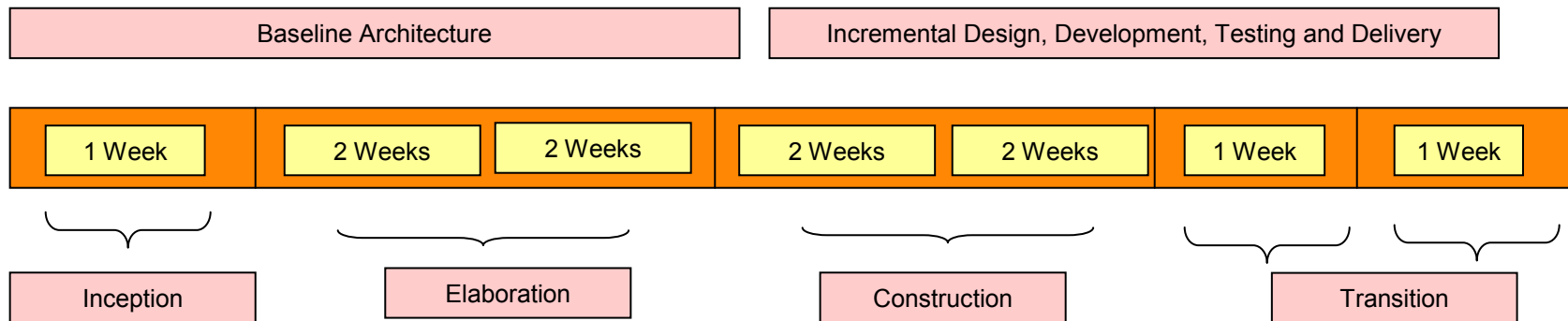


Release 1 - UP

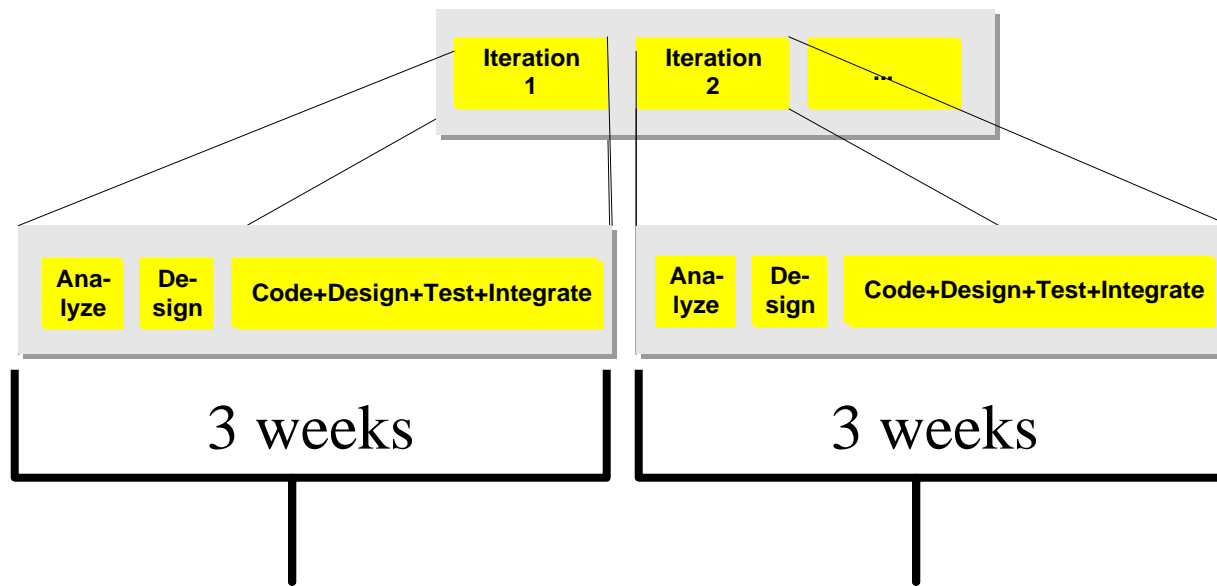


First Release – 3 Months Milestone

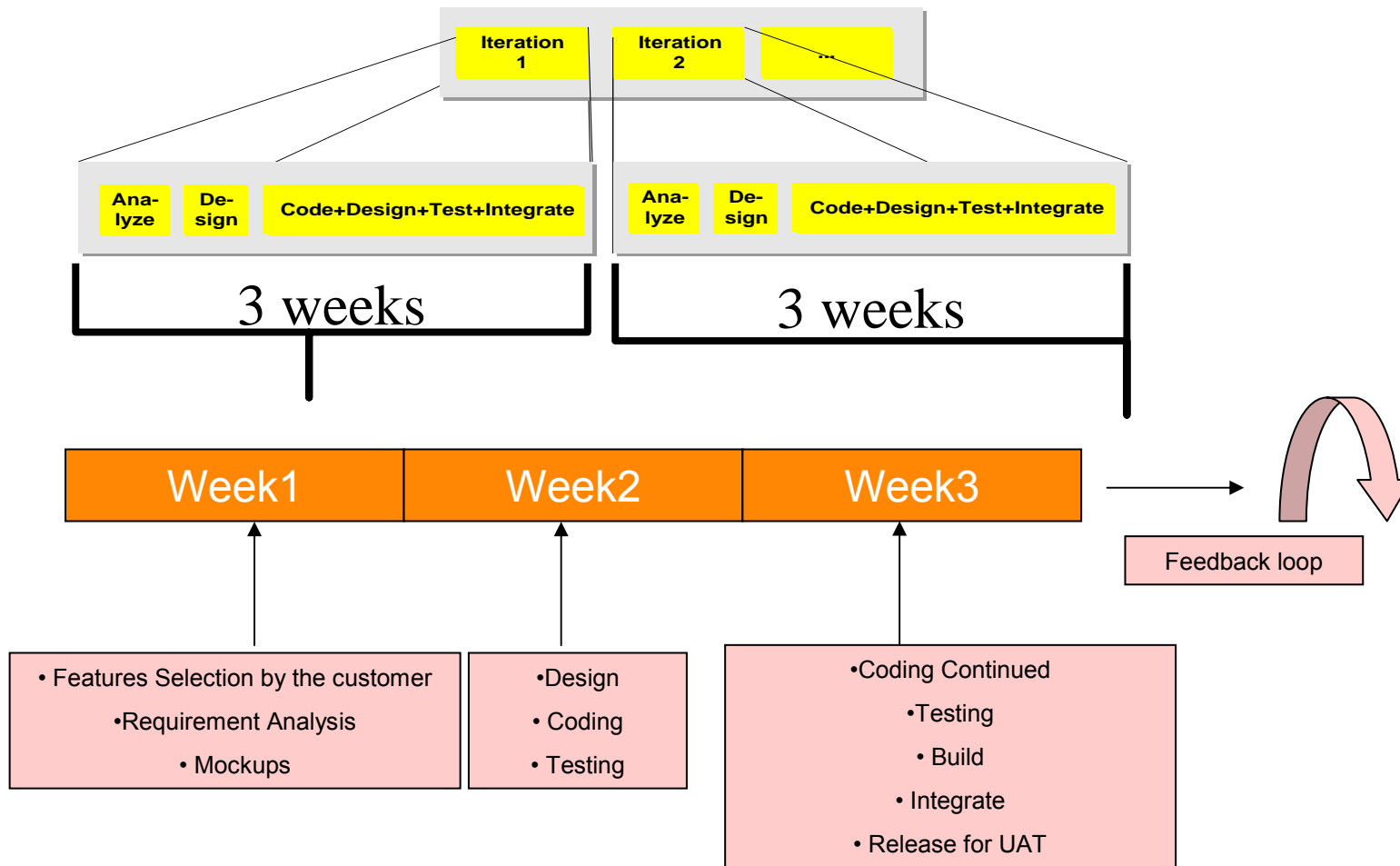
- Started off with 3 weeks iteration



Each Iteration



Release 1 - Detailed look at each week. Key Practices shown





Release 1 - Development Testing Cycles

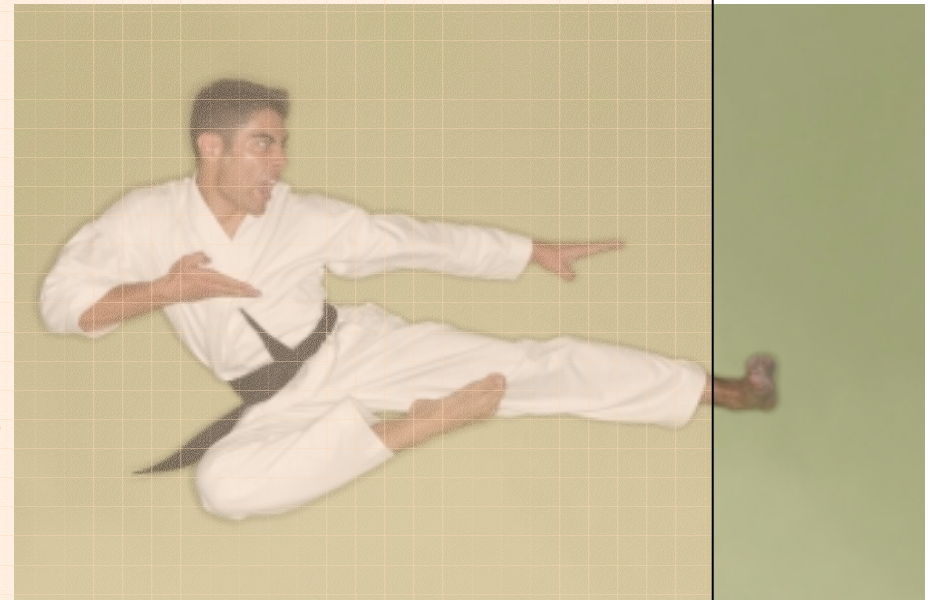


Practices introduced in Release 1

- Time Boxed Iteration (3 Weeks)
- Risk Driven and Priority Driven Development
- Client-Driven Development
- Feature Driven Development
- Daily 15 minutes stand up meetings
- Incremental Delivery
- Use Case Driven

Non-Agile Practices

- Heavy Documentation
- PM Controlled task allocation
- Bit resistance to frequent changes
- Microsoft Project Plan as the tool
- Handoff





Release 2 Story

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Release 2

- **Release review/introspection meeting**

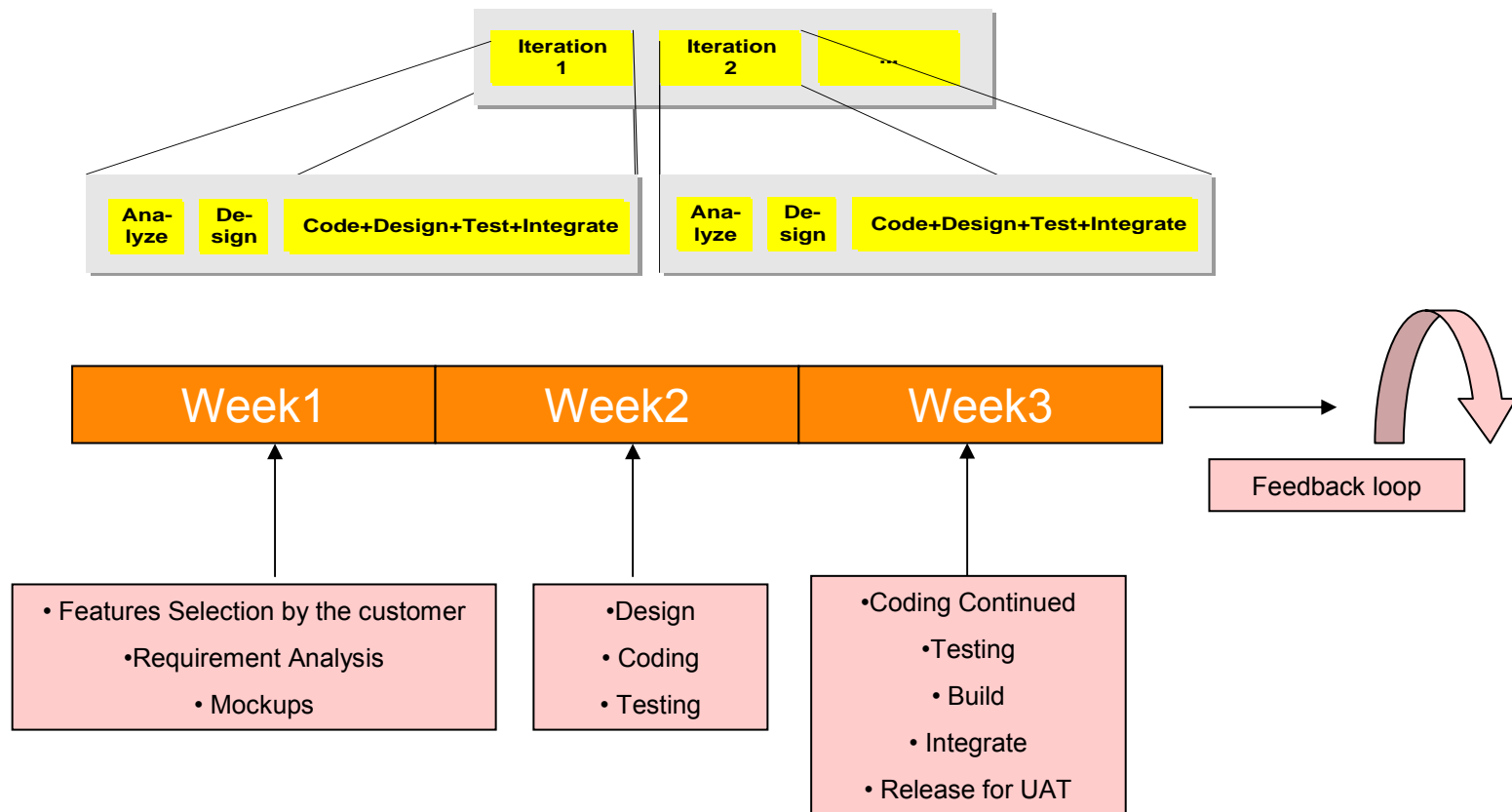
- Onsite
- Offshore

- **New Practices, recommendation and research work started**



Release 2

- continued the 3 weeks Time boxed iteration model as we did in Release 1



Release 2 : Requirement Analysis

- Use Case based documents (UP)
- “Requirement days” through Interwise with onsite team.



- Newcomers to see and listen through the “recordings” to get better understanding of requirements, rather through documents.

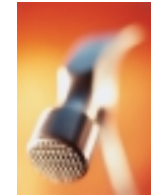
Release 2 – Planning and Estimation

- Discarding MPP and usage of home grown agile PM tool
- Team Planning: PM Relinquishing control of assignment of tasks, and the team volunteering to get what they want to do. (XP)
- Wide Band Delphi



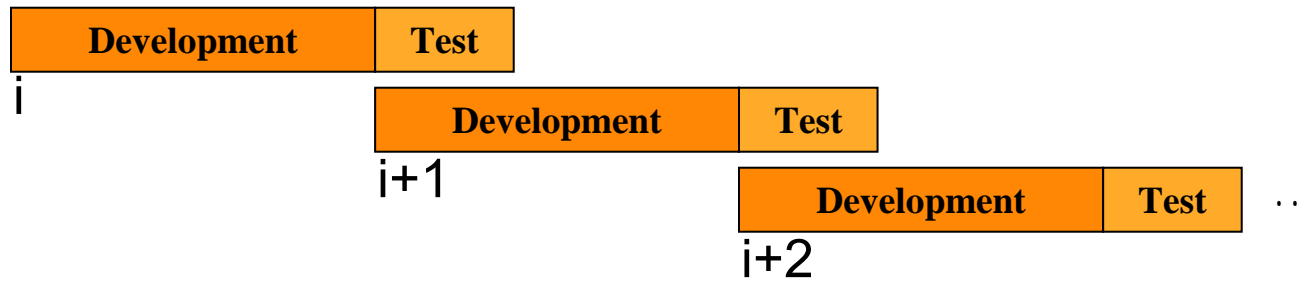
Release 2 - Design

- Usage of light weight tools like *ArgoUML*
- Whiteboarding with design captured through camera (didn't work out well due to low resolution, battery and memory issues)
- Do what is necessary now (DWIN) attitude. We never spent time on building complex frameworks.



Release 2 – Development Testing Cycles

•Pipe Line Testing



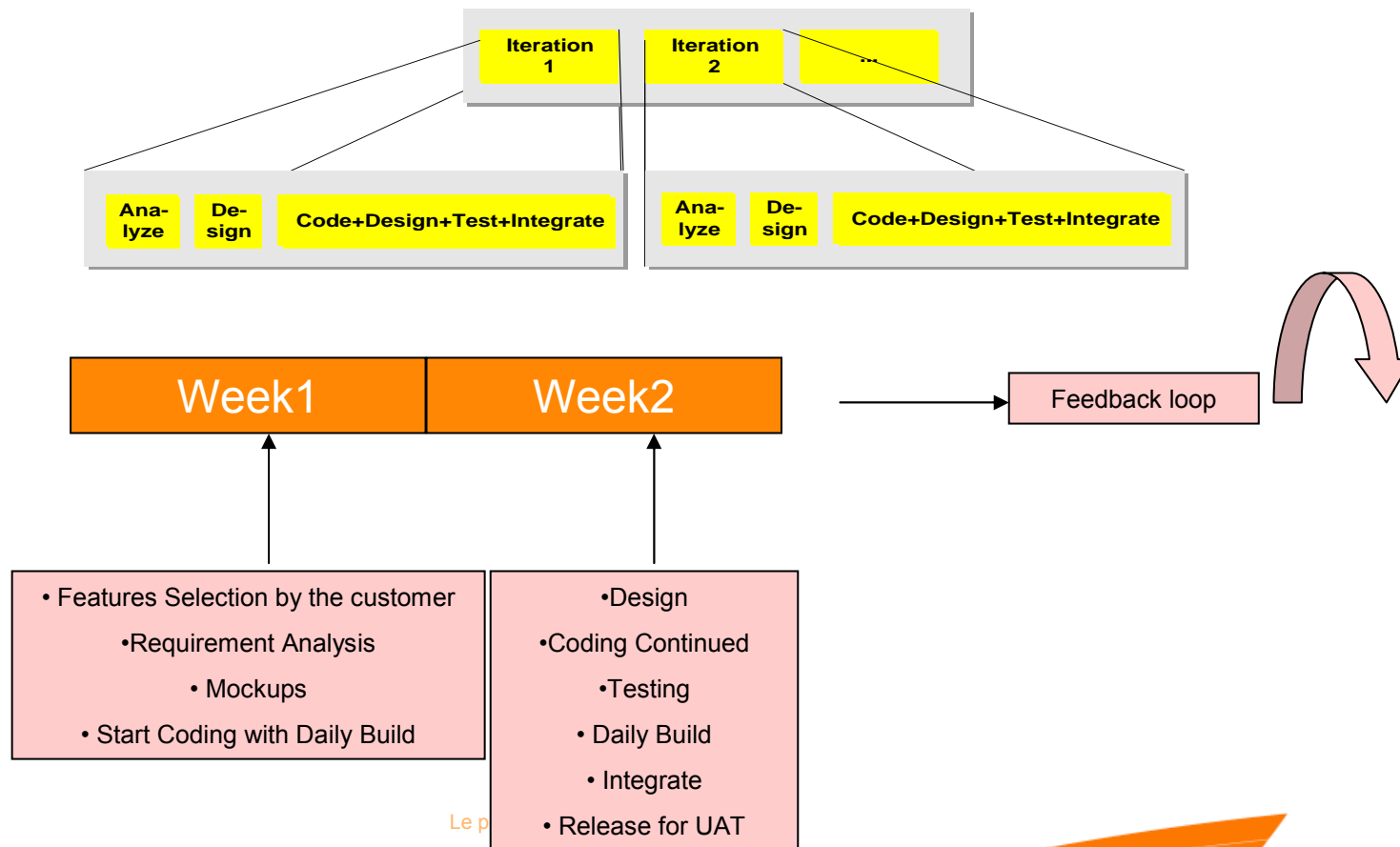
Release 2 – More best practices

- **Common Shared Repository**
- **Two Scrum meetings (SCRUM)**
 - With Local Development Team
 - With onsite team
- **Iteration retrospective (SCRUM)**
- **Release retrospective (SCRUM)**
- **Usage of IM such as Yahoo/MSN**
- **Peer Reviews**



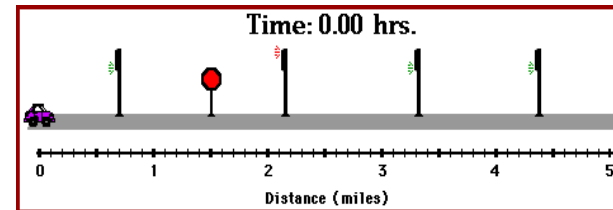
Release 3

Team became comfortable with 2 weeks time boxed iteration



Release 3 – Planning, Estimation

- Velocity based estimation
- Maturity increased with the team, and a very good rhythm of iterations being established.
- Usage of IEH during estimation and planning
- Wiki as the knowledge and information sharing medium
- Scrum notes being shared via Wiki with onsite team.
- Rotation of scrum master role (Invented)





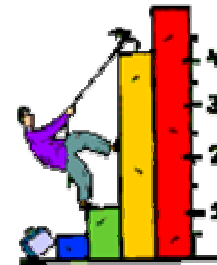
Release 3

- Continuous Integration, with Cruise control sending emails for build failures.
- Integration of Checkstyle/PMD/Junit with Cruise Control for quality control
- Big Visible graphs (XP)
- Daily Build
- Both Dev Team and Testing team being part of CI and Daily build activities
- Practicing TDD
- Back log management
- Feature teams



Release 3

- Daily 20 minutes refactoring cycle (Invented)
- Introducing Skype as another mode of communication in addition to interwise and other IMs, Wiki.
- Making effective use of graphs like Release Burn Down, Iteration Burn down, Discovery Rate to effectively plan, estimate the iterations
- Code Freeze used to happen for iterations every Wednesday, and incomplete things to move to backlog.





Spirituality Vs Religion

“The main difference between Spirituality and Religion is the freedom to choose **your own path** towards enlightenment and ultimately, recognition of our Divine selves.

There is absolutely **nothing wrong with many religions** and belief systems, except that they are exclusionary and **limiting**. The main goals and ideals of most world religions are very much the same, but in most we are taught that as followers of a particular belief system, **we are right**, we will be saved and the others, well, poor **unenlightened ones, they will be left behind. ...** “

In Para 2, replace the word “religions” with “agile flavors” and you will see a new dimension of agile world.

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Various Agile Religions

approximately 60 key practices from following agile religions

1. Extreme Programming (XP)
2. Scrum Development
3. Crystal Methodologies
4. Feature Driven Development (FDD)
5. Dynamic Systems Development Method (DSDM)

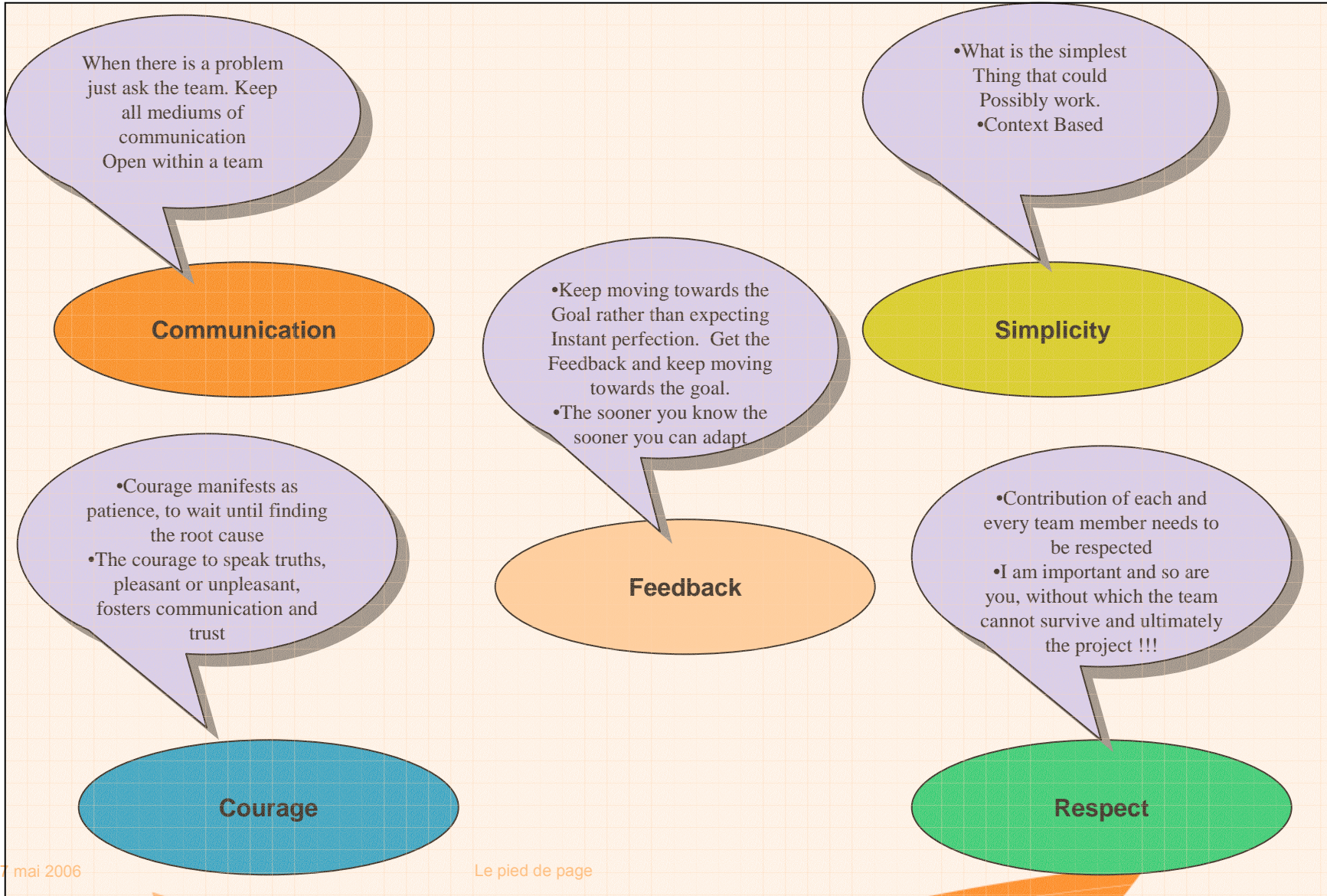
Foundations for inventions

All Inventions to be based

- Values
- Principles



Values





Lean Principles

1. Specify what creates *value* from the customers perspective
2. Identify all steps across the whole *value stream*
3. Make those actions that create value *flow*
4. Only make what is *pulled* by the customer just-in-time
5. Strive for *perfection* by continually removing successive layers of waste



Thank you

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