



AGILE UNIFIED PROCESS (UP)

The Agile Unified Process, or Agile UP, is an ultra-lightweight variant of the Unified Process (UP) which was developed by Grady Booch, James Rumbaugh and Ivar Jacobson ~ and is marketed by IBM Rational as the Rational Unified Process (RUP). UP is an extensive process framework that can be applied to a very wide range of projects and is then adapted to the requirements of each individual project. The overall UP framework is often perceived as complicated and the anti-thesis of agility as practised within eXtreme Programming (XP), Scrum and DSDM, etc. The reality is that the Agile UP can be effectively applied as an agile adaptation of the wider UP framework which is in widespread use.

Agile UP uses agile variants of the same basic practices and project phases as RUP, with the work disciplines and work products simplified and reduced in number.

Agile UP Phases and Milestones

- » **Inception Phase:**
Lifestyle Objectives Milestone
- Agreement on the scope of the project
 - Initial requirements definition agreed
 - Agreement on initial estimates
 - Risks are understood and accepted
 - Initial process tailoring agreed
 - The project makes sense from business, technical, and operational perspectives
 - Next phase is adequately planned
 - Project fits well within overall portfolio

- » **Elaboration Phase:**
Lifestyle Architecture Milestone
- The project vision is stable and realistic
 - System architecture is stable and proven by prototyping of key risk areas
 - Risks are understood and accepted
 - Project feasibility still agreed
 - High-level project plan and detailed plans for the next few iterations agreed
 - Consistency with enterprise architecture

- » **Construction Phase:**
Initial Operational Capacity Milestone
- The system is acceptable, and all stakeholders are ready for Transition
 - Risks are understood and accepted
 - Actual and future estimates of cost & schedule are acceptable
 - High-level project plan and detailed plans for the next few iterations agreed
 - All appropriate standards have been met

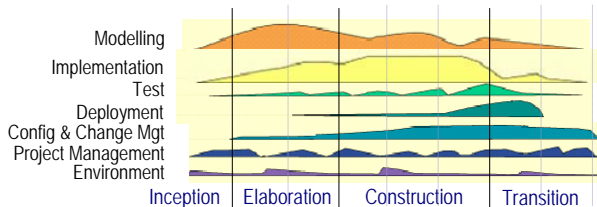
- » **Transition Phase:**
Product Release Milestone
- System acceptance by all stakeholders (including users, operations and support)
 - Current expenditures and estimates of future production costs are acceptable



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Agile UP Phases and Disciplines

- AUP identified seven Disciplines, nearly all of which are required during each and every project phase
- This includes 'Implementation': Coding and unit testing
- Coding may be necessary during inception in order to assist with forming the Vision
- It is mandatory during Elaboration in order to prove the architecture



Agile UP Work Products

- The source code for the system
- A complete collection of tests (unit, system and acceptance), and the code to run them in the appropriate order
- System installation/de-installation scripts
- System Documentation & Release Notes delivered as part of the system to help stakeholders work with it and developers to maintain and evolve it.
- A minimal Requirements Model (e.g. use case model, domain model, glossary etc.) just sufficient to understand and then build what the users need.
- A minimal Design Model (e.g. an object model and/or data model, a deployment model, and a system overview document), with most other design models discarded once they have achieved their purpose.

Agile UP Disciplines

- **Model:** understand the problem domain and identify a viable solution.
- **Implementation:** transform the model(s) into code and perform **unit testing**.
- Test: **validate** the system is as designed, and verify that the **requirements are met**
- **Deployment:** plan deployment and make the system available to end users.
- **Configuration Management:** manage access and changes to **project artifacts**.
- **Project Management:** to be sure that the project is delivered as required.
- Environment: make the **proper process**, and **tools** available for the team.

Further information

RADTAC

Abbey House, 25 Clarendon Road,
Redhill, Surrey, RH1 1QZ

Tel: +44 (0) 1737 852 121

Email: enquiries@radtac.co.uk

Website: www.radtac.co.uk

About RADTAC

RADTAC provides Consulting, Training and Delivery Services for Agile Methods, Project Management, Systems Development and Process Improvement.

We provide unique in-depth expertise across a full range of services; including Certified Training in Scrum, DSDM / Atern, XP, Lean, Agile Unified Process, PRINCE2 and ITIL.