

Intechno Methodology Overview – Full Documentation

Intechno applies several methodologies ranging from fairly structured to rapid methods according to situations and nature of project. These methodologies include WISDM, SSDM, FDD, a few to mention. In response to the increasing demand for shortened timeframes yet maintained quality delivery within budget, functional and user-friendliness of software with little or no documented manual; Intechno has adapted modern and faster development methodologies like **Agile (FDD, XP and Scrum)** to match this demand.

Intechno recognizes and practices the Agile manifesto; Individuals and interactions over processes and tools, working software over comprehensive documentation, Customer collaboration over contract negotiation, responding to change over following a plan. This manifesto is in harmony with modern development trends and demand for rapidness and quality.

The Agile Unified Process

We Blend the Agile Unified Process (AUP) philosophies which describes a comprehensive approach to developing business application software using agile techniques and concepts yet retaining the original IBM RUP (Rational Unified Process). The AUP applies agile techniques including test driven development (TDD), Agile Modeling, agile change management, and database refactoring to improve productivity. The Agile UP is based on:

1. Competence, training and interest.
2. Simplicity and comprehensiveness of the process.
3. Agility.
4. Focus on high-value activities.
5. Tool independence.
6. AUP to meet project needs.

Intechno Rapid Development Methodology

All methodologies have their merits as well as short comings. As a way of balancing between the necessities of speedy yet structured techniques, The **Intechno Rapid Development Methodology** (IRDM) is a flexible methodology created by our R&D department blended with Agile as a response to an increasingly changing technological environment in the software outsourcing industry. This methodology is built on iterative concepts and philosophies.

The IRDM is not a standard methodology proposed to be applied in all situations and by all companies. It is rather an outcome of an intensive research by our R&D for flexibility to balance resources with clients' demands. This flexibility and blend is applied to avoid the short-comings of standard methodologies. A unique feature of the IRDM is that it integrates Quality Assurance; Project Management and Software Development processes yet on a 60% shortened timeframe. Other benefits of the IRDM:

- ü Improved speed of delivery yet quality assured
- ü Integration with Project management and customer focus
- ü Reduced defects of the absence of intensive business analysis in software outsourcing
- ü Highly collaborative workflow and synergy

We apply The Agile process through project inception, elaboration, construction and transition.

Please see relevant stages of our methodology:

1. Requirement Analysis:

This stage is crucial in outsourcing as the service chain lacks complete business analysis. The ultimate goal here is to understand both the business of the client and expressed requirements, marry both if they match, then plan the application logic, architecture and Quality control based on the balance of business process and requirements expressed. This stage may include some of the following (depending on project type):

- ü Business Modeling
- ü System objective set
- ü Prototyping
- ü BNT (Basic Navigation testing) – Only for web projects
- ü URD (User Requirement Documentation)
- ü Scrum User Stories

2. Planning and Design

This is the actual creation of working modules from evolutionary prototypes for the application in question. During the planning phase, the team plans the project development and makes project requirements more specific, which leads to a high-level software design specification. The end of the phase is marked by the approval of the project plan by the customer. Our design phase further includes low-level component and algorithm modeling.

- ü Logic Design and Application Architecture
- ü Development Framework
- ü System Architecture
- ü User Acceptance Testing (UAT) - in some cases

3. Quality Assurance Management

This is relevant and integrated to our whole methodology process. We create a framework based on individual projects and specifications to guide the development process through a quality assured path. These stages include:

1. Quality Plan
2. Quality Assurance Framework
3. Quality Control measures
4. Corrective Guidelines

5. Testing Type Definition
6. Testing Checklist
7. Evaluation Checklist
8. IP security and Project confidentiality measures

These stages may vary depending on the nature of the project.

4. Project Planning and Management

Work planning, resource management and Project control. Directing the activities and tasks within the project including risk management, task assignment, supervision and support (assigning tasks, tracking progress, etc.), and coordinating with people and systems outside the scope of the project to ensure timely delivery and within budget. Most of our project managers are all Scrum certified masters and handle all stages as speedily as modern Software development requires. This stage primarily sets the structure for our:

- ü Project Scheduling
- ü Risk assessment
- ü Project Control
- ü Task assignment
- ü Task Timeframe definition

5. Implementation.

Here we transform designed model(s) into executable code and perform a basic level of testing, in particular unit testing. This stage includes a series of time-framed iterations according to a quality assurance framework.

6. Testing and Evaluation.

We perform objective system tests to ensure quality. Our testing goes through several stages as determined by the [quality assurance framework](#). This includes finding defects, validating that the system works as designed, and verifying that the requirements are met. During the testing phase, the team conducts integration tests against integration test cases set forth during the design phase. When the project passes the integration test, the acceptance test is carried out and the final project is released if no problems are identified during acceptance testing. Our testing includes:

- Functional testing (Unit, System)	All application
- Basic Security Testing	All application
- Browser Compatibility Testing	Website application
- W3C Compatibility Testing	Website application

[Please click here for more on testing](#)

Before delivery is made, there would be third party evaluation on the general feel of the software. This evaluation excludes security features but is to test the market value of the system and balance the average ROI. This evaluation stage is a continuation of a positive effect of our intensive requirement analysis as the [outsourcing](#) chain excludes extensive business analysis. These stages are to ensure quality and global standards. [Please read more about our testing as an exclusive service](#)

7. Deployment and Delivery.

Our delivery is the stage where we make the system available to end you. We do packaging, FTP delivery, and online configuration according to the nature of the system – and according to customer demands. This stage strictly applies [quality control](#) and [IP / security](#) issues to protect and ensure confidentiality.

8. Configuration Management and Support.

We manage access to project artifacts according to engagement terms with each customer. These include not only environmental support, tracking artifact versions over time but also controlling and managing changes to them. Supporting the rest of the effort by ensuring that the proper process, guidance (standards and guidelines), and tools (hardware, software, etc.) are available for the team as needed.

Please see our methodologies as recommended and applied in various situations

Project Nature	Engagement Model	Applicable Methodologies	Success Rate
Web Application	Main ODC	Agile, WISDM, IRDM	100%
Web Application			
Web Application	Moderate ODC		
All Application	Fixed Task / Budget Based	Agile FDD, IRDM	
Desktop Application			
Intranet Application			

[For more on Engagement models, please click here](#)