Outsource easily with us!

ScienceSoft
Professional Software Development

SOFTWARE DEVELOPMENT MODEL

Our SDM combines best approaches of Rational Unified Process (RUP), Microsoft Solution Framework (MSF) and ISO 9001:2000.

FLEXIBILITY

We are very flexible in our software development process and aim to accommodate our customers' needs.

ONE-STOP-SOURCE FOR ALL CUSTOMER'S NEEDS

We are committed to forming a long-term relationship with our clients so we endeavor to be a one-stop source for all of their IT needs: strategy, architecture, development, implementation, maintenance, training, and support.

PROCESS MODEL
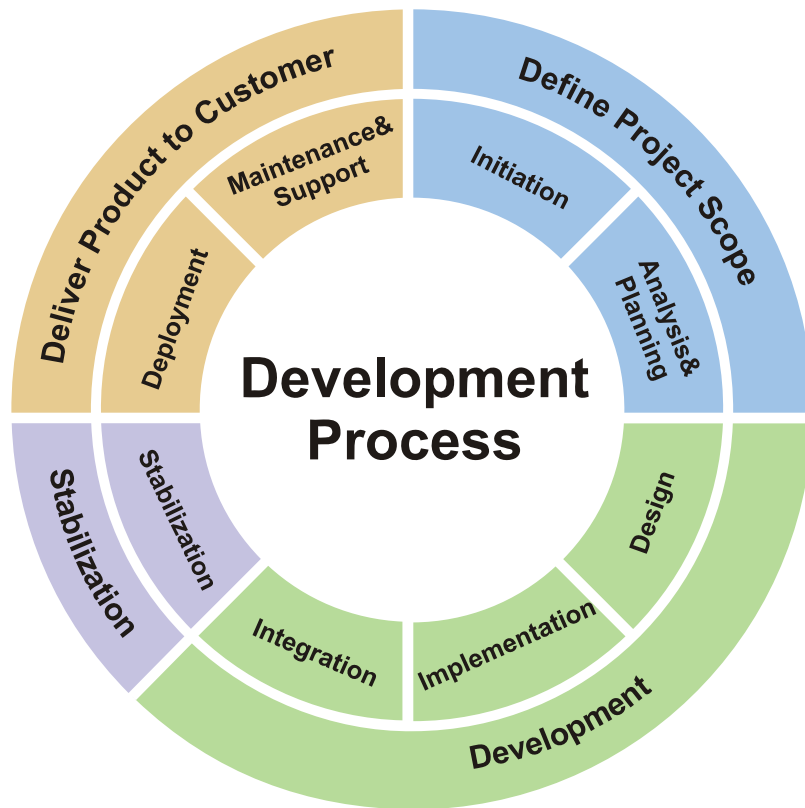
- INITIATION

- ANALYSIS & PLANNING

- DESIGN

- IMPLEMENTATION

- INTEGRATION

- STABILIZATION

- DEPLOYMENT

- MAINTENANCE & SUPPORT

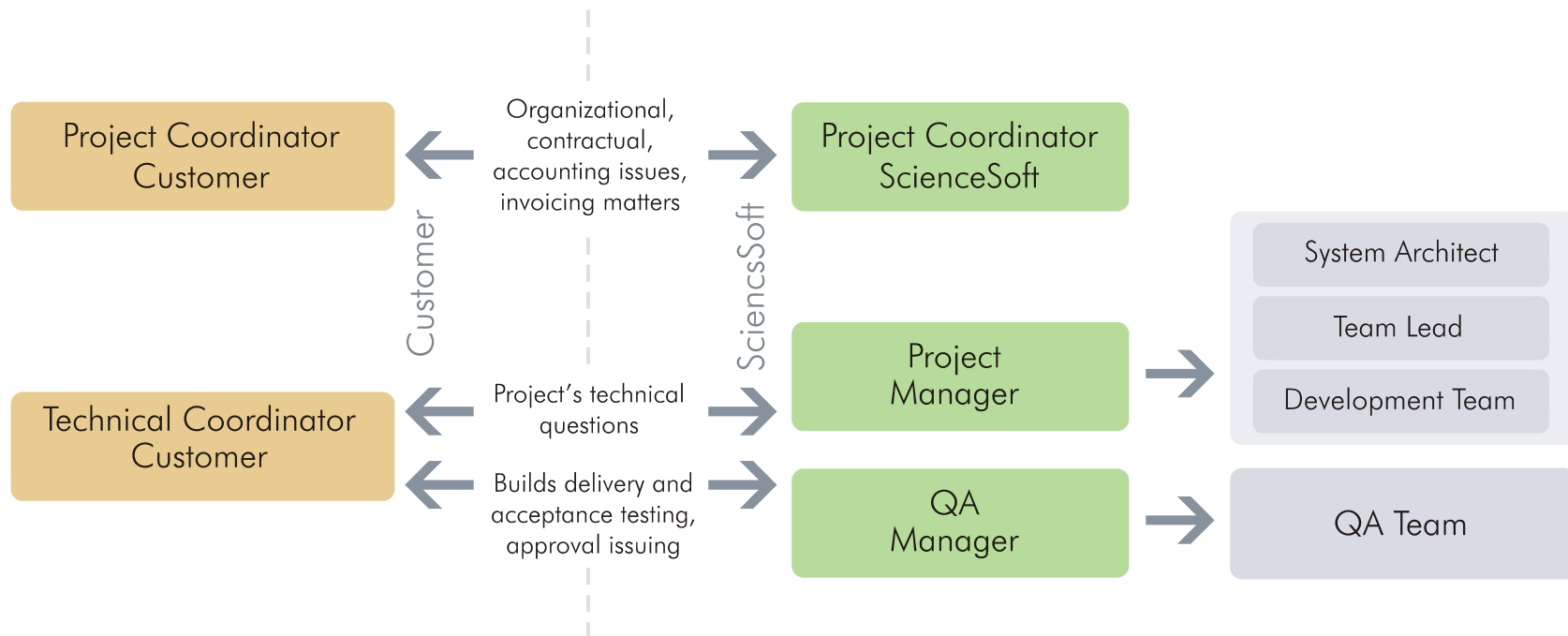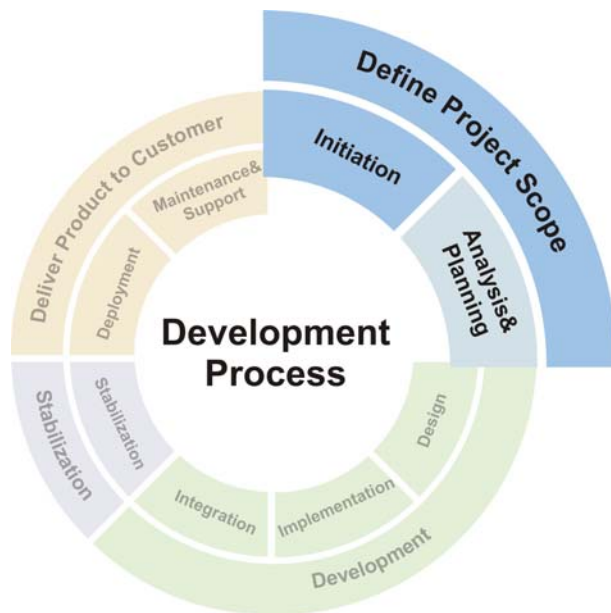| ROLE	DESCRIPTION
Project Coordinator	Shares information among contributors, obtains consensus between them and tracks project's decisions making.
Project Manager	Allocates resources, defines priorities, coordinates interactions with the customers and users, keeps the project team focused on the right goal; establishes a set of practices to ensure the integrity and quality of project artifacts.
System Architect	Leads and coordinates technical activities and artifacts throughout the project; establishes the overall structure for each architectural view: system decomposition, grouping of elements into modules, and interfaces between these major groupings.
System Analyst	Leads and coordinates requirements gathering, analysis and use-case modeling by outlining the system's functionality and delimiting the system.
Lead Developer	Carries out core activities on the features implementation, which involves coding, unit test development, code review, team coordination, checks for development tasks status.
Developer	Carries out core activities on the features implementation, which involves coding, unit test development, code review.
QA Engineer	Carries out core activities on testing, which involves conducting necessary tests and logging the outcomes of testing.

PROJECT COMMUNICATION: TYPICAL APPROACH

Customer		ScienceSoft	
Project Coordinator Customer	← Organizational, contractual, accounting issues, invoicing matters →	Project Coordinator ScienceSoft	
			System Architect
Technical Coordinator Customer	← Project's technical questions →	Project Manager →	Team Lead
			Development Team
	← Builds delivery and acceptance testing, approval issuing →	QA Manager →	QA Team

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Activity:
gather knowledge about business
area and formalize requirements for the product

Roles:

Project Manager, System Architect, QA Lead

Input:
customer's vision of product, set of supplementary
documents (report forms, input forms)

Output:
Project Vision Document, Project Specification
Document (draft)

Activity:
create Product Specification Document (PSD), Project Plan creation
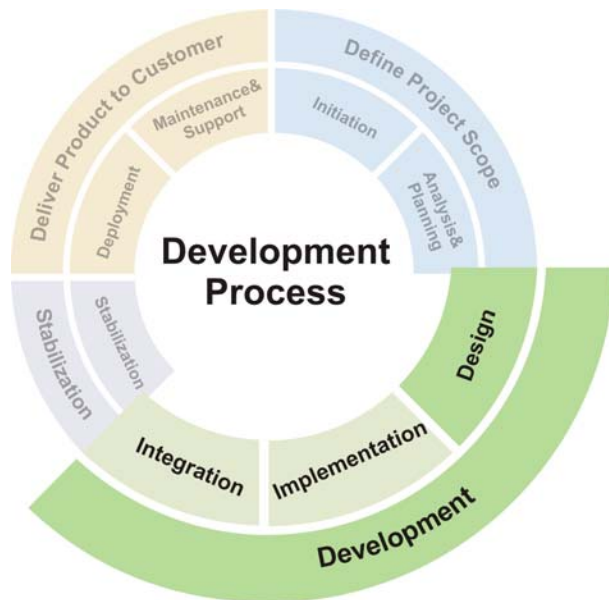
Roles:

Project Manager, System Architect, QA Lead

Input:
Project Vision Document

Output:
Product Specification document, Draft version of Project plan (Project Plan Document, Development Plan, Test Plan, Risks Assessment Document)

Development Process

Activity:

Create Technical Design Document (TDD), update Project Plan, create product prototype for proof of concept

Roles:

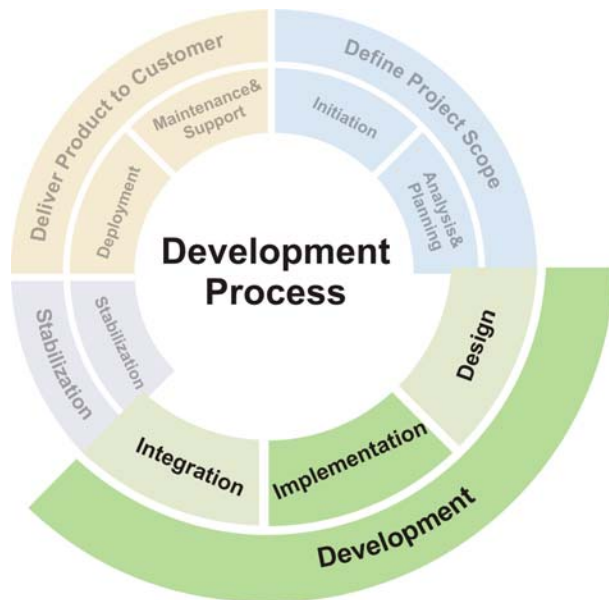Project Manager, System Architect, QA Lead, Developer, QA Engineer

Input:

Product Specification document, Draft version of Project plan (Project Plan Document, Development Plan, Test Plan, Risks Assessment Document)

Output:

Technical Design Document, Final version of Project Plan (Project Plan Document, Development Plan, Test Plan, Risks Assessment Document), Prototype

Development Process

Activity:

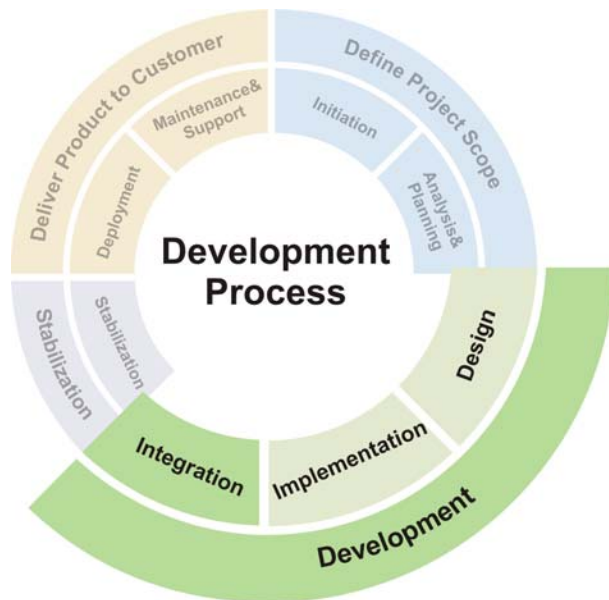implement features according to the plan, create test cases

Roles:

Project Manager, System Architect, QA Lead, Developer, QA Engineer

Input:

Product Specification Document, Technical Design Document, Project Plan

Output:

source codes, list of implemented features, list of postponed features

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Development Process

Activity:

integrate implemented features, perform development test, create user guide

Roles:

Project Manager, System Architect, QA Lead, Developer, QA Engineer

Input:

source codes, list of implemented features, list of postponed features

Output:

confirmed implemented features list, software build to be tested, updated Project Specification Document, updated Technical Design Document, user guide

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Development Process

Activity:

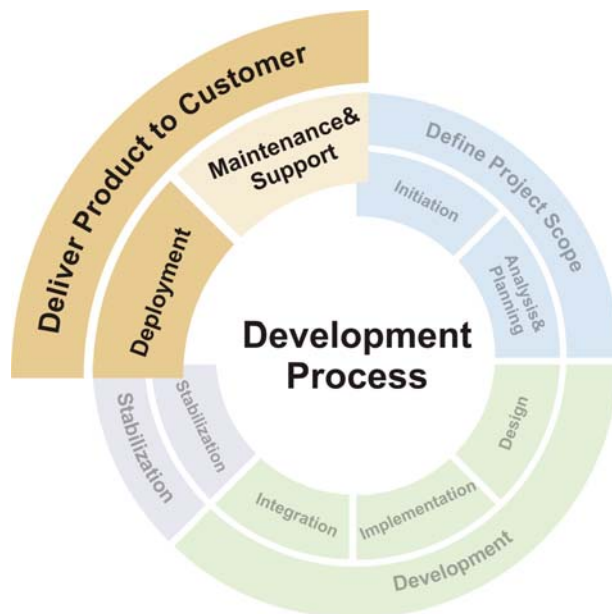execute test cases, fix defects

Roles:

Project Manager, System Architect, QA Lead, Developer, QA Engineer

Input:

confirmed implemented features list, software build to be tested, updated Project Specification Document, updated Technical Design Document, user guide

Output:

Test Results report (passed/failed tests), submitted defects in defect tracking system, ready product

Deliver Product to Customer

Maintenance & Support

Deployment

Define Project Scope

Initiation

Analysis & Planning

Design

Stabilization

Stabilization

Integration

Implementation

Development

Development Process

Activity:

deploy application on server and/or provide an installation of the product; provide list of known issues, user guide, project documentation
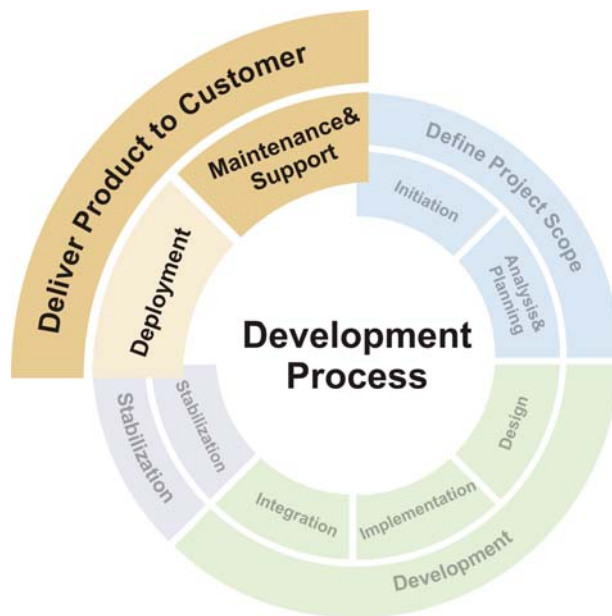
Roles:

Project Manager, Developer, QA Engineer

Input:

Test Results report, submitted defects in defect tracking system, ready product

Output:

deployed/installed product, User guide, Issues list, Test Results report

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Development Process

Activity:

improve product usability, solve issues, consult on product usage
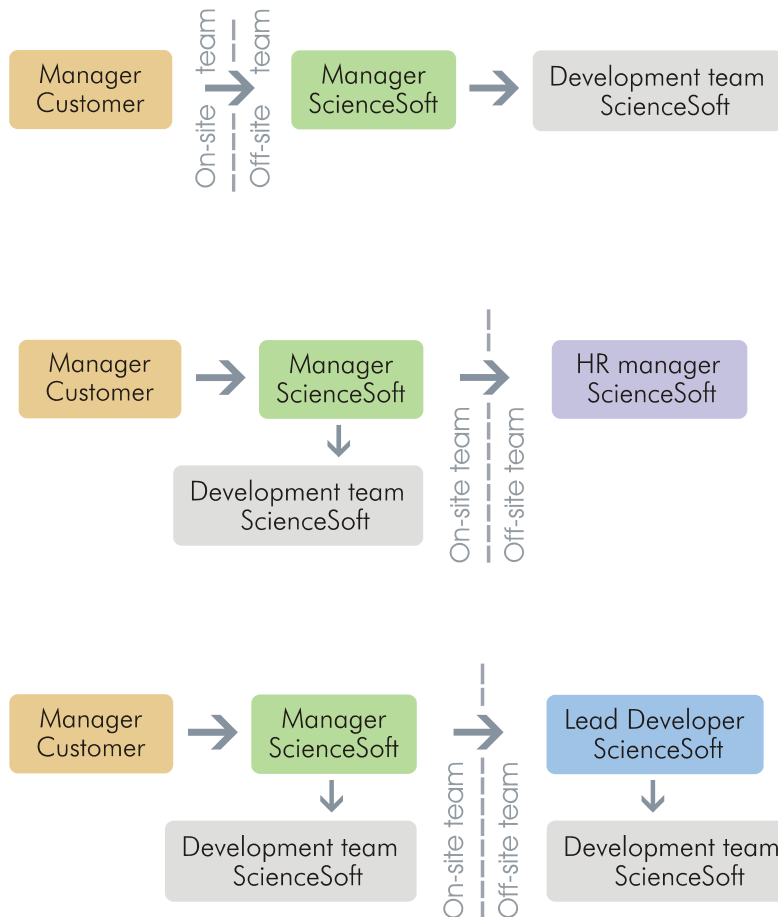
Roles:

Developer, QA Engineer

Input:

Usability questions, enhancement requests, issues reports

Output:

implemented enhancement/change requests, Test Results report

DELIVERY MODELS

OFFSITE

- All project stages are carried out in Belarus
- Customers are kept fully aware of each project stage
- Material results are provided to clients regularly on a pre-arranged basis

ONSITE

- Team is working at customer's premises.
- Each team member is interviewed and selected by the customer.

COMBINED

- Onsite team at the customer's premises attends to critical items and integration issues.
- ScienceSoft's dedicated offshore team works on system development in Minsk.

OFFSITE MODEL: WHY TO CHOOSE?

- REDUCED PROJECT COST
  - Operational cost
  - Infrastructure cost
  - Support structure cost
  - Hardware cost
  - Miscellaneous charges (VPN, S/W, connectivity, tools and training)

- ENHANCED WORK ENVIRONMENT

- IMPROVED PRODUCTIVITY
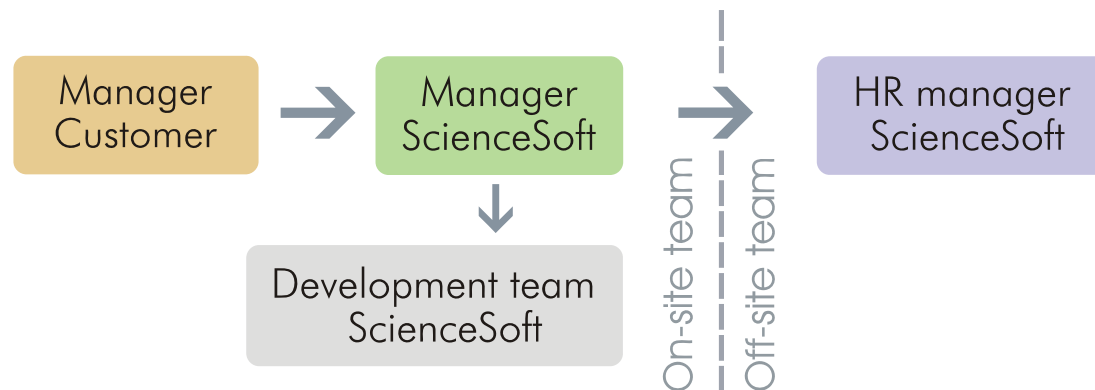
- FACE-TO-FACE INTERACTION WITH THE CLIENT

- FIRST HAND INFORMATION

- BRIDGES COMMUNICATION GAP

- DEEPER INVOLVEMENT INTO KNOWLEDGE DOMAIN

- REDUCED DEVELOPMENT CIRCLE TIME

We employ special software and techniques to ensure that a quality product is delivered on time, and to keep customer abreast of the project's status.

There are material results at every stage and our customer can see and review them and even make enhancements or changes to the system.

Actual work:

Work Item	Deadline	Assigned Person	Time Spent	Total Progress	Progress Description	Risks	Action plan/Mitigation strategy
Authoring tool	30.11.05	Sergei Kondratenko	40	80%	Implementing: Data Structures management	Still haven't got answers on data structures-concerned questions	Email is sent to Andrew (deadline: 27.11.2005)

Planned work:

Work Item	Deadline	Assigned Person	Planned Time	Work Description	Risks	Action plan/Mitigation strategy
Data Structure Manager/ Create, Save, Open, Delete, Data model, Get all field types	08.12.05	Andrei Serjantov	40	Data structure manager functionality	Data Structure Manager responsibilities are not well-specified	Reminded Andrew about questions concerning data structure manager and other FlexiForm issues (deadline: 05.12.2005)

- Deliverables are provided as source code and are available through the version control system

- The build management system and a detailed instruction on build installation are provided together with the source code

- The originals of project documentation are provided in duplicate on paper

- The customer has access to bug-tracking system to receive details on the project status and to report bugs

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QUALITY IS CONTROLLED AT ALL DEVELOPMENT STAGES

DEVELOPMENT TEAM

- Unit tests
- Weekly code reviews
- Build management system

QA TEAM

- Test plan
- Test cases
- Installation and configuration of the bug-tracking system
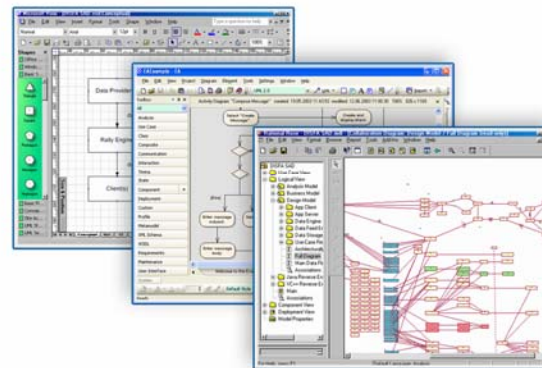- Build testing based on the project plan

PROJECT DEVELOPMENT TOOLS

PLANNING

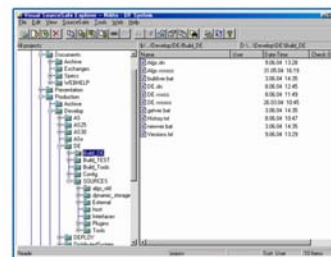- MS Project
- MS Project Server
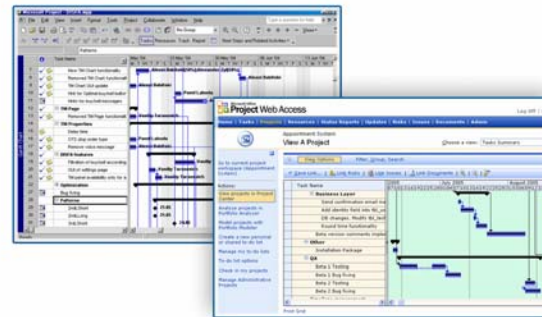
SOFTWARE DESIGN

- Microsoft Visio
- Enterprise Architect
- Rational Rose

VERSION CONTROL
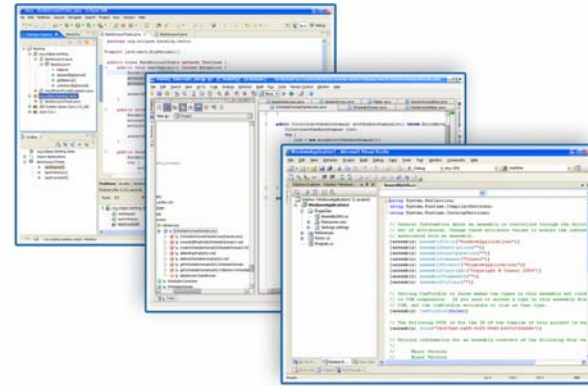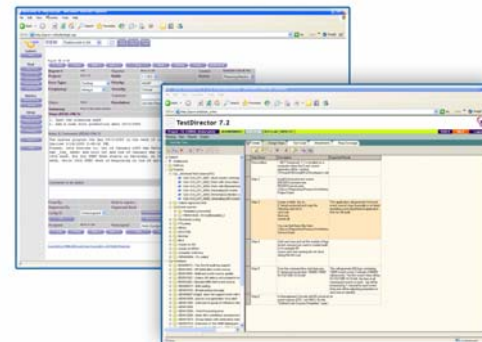
- Source Safe
- SVN

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DEVELOPMENT

- Visual Studio 6

- Visual Studio 2003/2005

- IDEA

- Eclipse

- NetBeans

TESTING

- Track Gear

- Test Director

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YOUR QUESTIONS ARE WELCOME !