



Software and System Process Improvement

DNV IT Global Services - Core Capability

For those managers in charge of development projects, the outcome of which is critical to the success of their business, we are a consulting company that can measurably improve the process of software and systems development.

The business drivers for delivery of effective software dependent systems have never been stronger. The challenges are compounded by rapidly changing technology and complex legacy systems, combined with outsourcing and regulatory compliance pressures. We help companies to industrialise their software and systems processes (SPI). With robust processes, customers become more competitive and can complete more projects on time, within budget, and with the appropriate quality.

SPI Business Strategy

We help you choose the improvement approach that best fits your business model and customer requirements. We offer you selection criteria for key elements like: CMMI OnBoard™, Process Centres (see PSO™, RSC™, ATIC™, QMO™) as well as High Maturity Services and help to develop a strategic plan to implement the approach effectively and efficiently. Our expertise includes SEI's CMMI®, ISO/IEC 15504/SPICE, Lean management, Six Sigma – and associated change management.

Our Services

- Strategic SPI planning and objective-setting
- Business case and ROI calculation
- Integration of multiple approaches into a customized improvement program
- Assessing and managing change readiness

Your Benefit

- Best value solution optimized for your needs
- Makes SPI investment a business decision
- Minimizes redundant efforts and false starts

Process Development and Deployment

Each member of our team assigned to your organisation carefully considers your unique business environment and will map “best in class” practices to your environment.

Our Services

- Process development training and workshops
- Coaching and mentoring
- Process development packages and support

Your Benefit

- Quick start solutions for roadmaps, work break down, tracking and teaming
- Utilization of proven improvement packages to increase the confidence of success

High Maturity Services

For organisations already having achieved well defined processes we provide the support to implement advanced measurement and statistical techniques as well as process optimization methods.

Our Services

- Techniques training, coach and mentoring
- Analysis of process data and quantitative performance benchmarking
- Development of predictive process and quality models

Your Benefit

- More predictable process performance
- Processes tuned to current business needs
- Efficient improvements through hands-on guidance from global process leaders with high maturity experience

Independent Appraisals

Process appraisals and assessments demonstrate tangible progress and Return on Investment (ROI). We conduct formal and informal appraisals using the SEI's CMMI or ISO 15504/SPICE models at the organisational or project levels to meet the needs of the organisation.

Our Services

- Appraisal team training and planning
- Preparation of evidence (Process Implementation Indicator Database) for appraisals
- Gap analyses and Readiness reviews
- Formal appraisals (e.g., SCAMPI Class A)
- Appraisal method customization

Your Benefit

- Independent appraisals by experts ensure accurate status assessment
- Appropriate level of formality focuses attention on improvement, not just appraisal
- Involvement plan ensures understanding and commitment by all levels of management

CMMI OnBoard™

CMMI OnBoard™ is a proven approach to conduct an initial assessment of capabilities and process related risks, capturing relevant actions and driving improvements through the organisation.

Our Services

- Proprietary SPI progress tracking system
- Expert advisor coaching SPI teams

Your Benefit

- Systematic insight into real SPI progress
- Focus on high priority business needs
- Timely escalation of SPI risks and problems
- Increases buy-in through regular involvement of projects and management in SPI activities
- No surprises during appraisals!

Project Support

The PSO™ (Project Support Office) is a systematic approach to controlling the processes of Systems and Software development.

Our Services

- Integrating proven project management processes and methods into daily practice
- Solutions for systematic project planning, monitoring and tracking

Your Benefit

- Early identification and timely escalation of risks and unrealistic planning
- Continuous insight into project progress
- Transparency and alignment of projects between the manufacturers, suppliers and service providers ensures commitments are met

Requirements Engineering Support

With RSC™ (Requirements Service Centre) we help you establish requirements engineering processes and methods in your organisation.

Our Services

- Establishing state-of-the-art methods and tools for requirements engineering
- Personal development through training, workshops and mentoring

Your Benefit

- Continuous visibility into requirements status
- Reduced effort due to well-defined, prioritized and agreed requirements
- Control over requirements changes

Acceptance, Test and Integration Support

ATIC™ (Acceptance, Test and Integration Centre) is a systematic approach for mastering all test and integration activities in software and system engineering projects.

Our Services

- Setting-up, operating, monitoring and coaching of an Acceptance, Test and Integration Centre for your development projects

Your Benefit

- Continuous transparency of product maturity and quality – ability to act early and minimize problems
- Efficiency increase with aligned integration and acceptance strategy and processes among buyer, service provider and vendor
- Fewer integration and test problems

Quality Support

By implementing the Quality Management Office - QMO™, we establish objective insight into the Quality of products and processes in the daily practice of your System and Software development organisation.

Our Services

- Definition of project quality goals in line with improvement and business objectives
- Establishing proven quality management practices for development

Your Benefit

- Continuous monitoring of the appropriateness of and adherence to defined processes
- Timely escalation of risks and issues
- Support for Supplier audits
- Rapid learning and transfer of best practices

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