

ORGANIZATIONAL INNOVATION AND DEPLOYMENT

A Process Management Process Area at Maturity Level 5

Purpose

The purpose of Organizational Innovation and Deployment (OID) is to select and deploy incremental and innovative improvements that measurably improve the organization's processes and technologies. These improvements support the organization's quality and process-performance objectives as derived from the organization's business objectives.

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Introductory Notes

The Organizational Innovation and Deployment process area enables the selection and deployment of improvements that can enhance the organization's ability to meet its quality and process-performance objectives. (See the definition of "quality and process-performance objectives" in the glossary.)

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The term *improvement*, as used in this process area, refers to all ideas (proven and unproven) that would change the organization's processes and technologies to better meet the organization's quality and process-performance objectives.

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Quality and process-performance objectives that this process area might address include the following:

- Improved product quality (e.g., functionality, performance)
- Increased productivity
- Decreased cycle time
- Greater customer and end-user satisfaction
- Shorter development or production time to change functionality, add new features, or adapt to new technologies
- Reduce delivery time
- Reduce time to adapt to new technologies and business needs
- Improved performance of a supply-chain involving multiple suppliers
- Improved inter-supplier performance
- Improved utilization of resources across the organization

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Achievement of these objectives depends on the successful establishment of an infrastructure that enables and encourages all people in the organization to propose potential improvements to the organization's processes and technologies. Achievement of these objectives also depends on being able to effectively evaluate and deploy proposed improvements to the organization's processes and

technologies. All members of the organization can participate in the organization's process- and technology-improvement activities. Their proposals are systematically gathered and addressed.

Improvements may be identified and executed by the acquirer or the supplier. The acquirer encourages all suppliers to participate in the acquirer's process- and technology-improvement activities. Some selected improvements may be deployed across acquirer and supplier organizations.

The acquirer and suppliers may share the costs and benefits of improvements. Acquirers may increase the incentive for suppliers to participate in improvement efforts across the supply chain by allowing suppliers to appropriate the entire value derived from a contributed improvement for an initial period (e.g., 6 to 18 months). Over time, the supplier may be expected to share a proportion of those savings with the acquirer (e.g., through cost reductions to the acquirer). Acquirer and supplier expectations related to participation in process- and technology-improvement activities, and the sharing of associated costs and benefits, should be documented in the supplier agreement.

Pilots are conducted to evaluate significant changes involving untried, high-risk, or innovative improvements before they are broadly deployed.

Process and technology improvements to be deployed across the organization are selected from process- and technology-improvement proposals based on the following criteria:

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- A quantitative understanding of the organization's current quality and process performance
- The organization's quality and process-performance objectives
- Estimates of the improvement in quality and process performance resulting from deploying the process and technology improvements
- Estimated costs of deploying process and technology improvements, and resources and funding available for such deployment

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Expected benefits added by the process and technology improvements are weighed against the cost and impact to the organization. Change and stability must be balanced carefully. Change that is too great or too rapid can overwhelm the organization, destroying its investment in organizational learning represented by organizational process assets. Rigid stability can result in stagnation, allowing the changing business environment to erode the organization's business position.

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Improvements are deployed, as appropriate, to new and ongoing projects.

In this process area, the term process and technology improvements refers to incremental and innovative improvements to processes and also to process or product technologies (including project work environments).

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The informative material in this process area is written assuming the specific practices are applied in an organization that has a quantitative understanding of its standard processes and their expected quality and performance in predictable situations. Specific practices of this process area may be applicable, but with reduced value, if this assumption is not met.

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The specific practices in this process area complement and extend those found in the Organizational Process Focus process area. The focus of this process area is process improvement based on a quantitative understanding of the organization's set of standard processes and technologies and their expected quality and performance in predictable situations. In the Organizational Process Focus process area, no assumptions are made about the quantitative basis of improvement.

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Related Process Areas

Refer to the Organizational Process Focus process area for more information about soliciting, collecting, and handling process improvement proposals and coordinating the deployment of process improvements into projects' defined processes.

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Refer to the Organizational Training process area for more information about providing updated training to support the deployment of process and technology improvements.

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Refer to the Organizational Process Performance process area for more information about quality and process-performance objectives and process-performance models. Quality and process-performance objectives are used to analyze and select process- and technology-improvement proposals for deployment. Process-performance models are used to quantify the impact and benefits of innovations.

Refer to the Measurement and Analysis process area for more information about establishing objectives for measurement and analysis, specifying measures and analyses to be performed, obtaining and analyzing measures, and reporting results.

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Refer to the Integrated Project Management process area for more information about implementing process and technology improvements into the project's defined process and project work environment.

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Refer to the Decision Analysis and Resolution process area for more information about formal evaluations when selecting improvement proposals and innovations.

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Specific Goal and Practice Summary

SG 1 Select Improvements

- SP 1.1 Collect and Analyze Improvement Proposals
- SP 1.2 Identify and Analyze Innovations
- SP 1.3 Pilot Improvements
- SP 1.4 Select Improvements for Deployment

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SG 2 Deploy Improvements

- SP 2.1 Plan the Deployment
- SP 2.2 Manage the Deployment
- SP 2.3 Measure Improvement Effects

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Specific Practices by Goal

SG 1 Select Improvements

Process and technology improvements, which contribute to meeting quality and process-performance objectives, are selected.

SP 1.1 Collect and Analyze Improvement Proposals

Collect and analyze process- and technology-improvement proposals.

Each process- and technology-improvement proposal must be analyzed.

The acquirer must continuously improve its processes and its alignment with its customer and suppliers. The acquirer may look for opportunities to maximize throughput based on the identification of the most limiting resource and, as a result, create a more agile supply chain (e.g., giving higher priority to improvement proposals that promote a supply chain that responds both quickly and cost effectively).

Simple process and technology improvements, with well-understood benefits and effects, will not usually undergo detailed evaluations.

An example of a simple process and technology improvement is to establish guidelines for multiple-supplier interactions.

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Add an item

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Combine the technical review and management review

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Typical Work Products

1. Analyzed process- and technology-improvement proposals

Typical Supplier Deliverables

1. Process- and technology-improvement proposals

Subpractices

1. Collect process- and technology-improvement proposals.

A process- and technology-improvement proposal documents proposed incremental and innovative improvements to processes and technologies. Managers and staff in the organization, as well as customers, end users, and suppliers can submit process- and technology-improvement proposals. Process and technology improvements may be implemented at the local level before being proposed for the organization.

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Examples of sources for process- and technology-improvement proposals include the following:

- Findings and recommendations from process appraisals
- [Templates for acquirer work products](#)
- The organization's quality and process-performance objectives
- Analysis of data about customer and end-user problems as well as customer and end-user satisfaction
- Analysis of data about project performance compared to quality and productivity objectives
- Analysis of technical performance measures
- Results of process and product benchmarking efforts
- Analysis of data on defect causes
- Measured effectiveness of process activities
- Measured effectiveness of project work environments
- Examples of process- and technology-improvement proposals that were successfully adopted elsewhere
- Feedback on previously submitted process- and technology-improvement proposals
- Spontaneous ideas from managers and staff
- [Findings and recommendations from joint acquirer and supplier study groups](#)

Refer to the Organizational Process Focus process area for more information about process- and technology-improvement proposals.

2. Analyze the costs and benefits of process- and technology-improvement proposals, as appropriate.

Criteria for evaluating costs and benefits include the following:

- Contribution toward meeting the organization's quality and process-performance objectives
- Effect on mitigating identified project and organizational risks
- Ability to respond quickly to changes in project requirements, market situations, and the business environment
- Effect on related processes and associated assets
- Cost of defining and collecting data that supports the measurement and analysis of the process- and technology-improvement proposal
- Expected life span of the proposal

Process-performance models provide insight into the effect of process changes on process capability and performance.

Refer to the Organizational Process Performance process area for more information about process-performance models.

3. Identify the process- and technology-improvement proposals that are innovative.

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Process- and technology-improvement proposals that have a large cost-to-benefit ratio are rejected.

Deleted: Process- and technology-improvement proposals that would not improve the organization's processes are rejected.¶

Innovative improvements are also identified and analyzed in the Identify and Analyze Innovations specific practice.

Whereas this specific practice analyzes proposals that have been passively collected, the purpose of the Identify and Analyze Innovations specific practice is to actively search for and locate innovative improvements. The search primarily involves looking outside the organization.

Innovative improvements are typically identified by reviewing process- and technology-improvement proposals or by actively investigating and monitoring innovations that are in use in other organizations or are documented in research literature. Innovation may be inspired by internal improvement objectives or by the external business environment.

Innovative improvements are typically major changes to the process that represent a break from the old way of doing things (e.g., changing the lifecycle model). Innovative improvements may also include changes in products that support, enhance, or automate the process (e.g., using off-the-shelf products to support the process).

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Examples of innovative improvements include addition of, or major updates to, the following:

- Support tools
- Processes or lifecycle models
- Interface standards
- Reusable components
- Management techniques and methodologies
- Quality-improvement techniques, and methodologies

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New support

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New process development

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4. Identify potential barriers and risks to deploying each process- and technology-improvement proposal.

Examples of barriers to deploying process and technology improvements include the following:

- Turf guarding and parochial perspectives
- Unclear or weak business rationale
- Lack of short-term benefits and visible successes
- Unclear picture of what is expected from everyone
- Too many changes at the same time
- Lack of involvement and support from relevant stakeholders

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Examples of risk factors that affect the deployment of process and technology improvements include the following:

- Compatibility of the improvement with existing processes, values, and skills of potential end users
- Complexity of the improvement
- Difficulty implementing the improvement
- Ability to demonstrate the value of the improvement before widespread deployment
- Justification for large, up-front investments in areas such as tools and training
- Inability to overcome "technology drag" where the current implementation is used successfully by a large and mature installed base of end users
- Additional cost to the customer or supplier
- Misalignment of customer, acquirer, and supplier improvement priorities

5. Estimate the cost, effort, and schedule required for deploying each process- and technology-improvement proposal.
6. Select the process- and technology-improvement proposals to be piloted before broadscale deployment.

Since innovations, by definition, usually represent a major change, most innovative improvements will be piloted.
7. Document results of the evaluation of each process- and technology-improvement proposal.
8. Monitor the status of each process- and technology-improvement proposal.

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SP 1.2 Identify and Analyze Innovations

Identify and analyze innovative improvements that could increase the organization's quality and process performance.

The specific practice, Collect and Analyze Improvement Proposals, analyzes proposals that are passively collected. The purpose of this specific practice is to actively search for, locate, and analyze innovative improvements. This search primarily involves looking outside the organization.

An acquirer's customers and suppliers are vital sources of innovative ideas. Inter-organizational and organizational learning are therefore critical to actively identifying and analyzing innovations.

Typical Work Products

1. Candidate innovative improvements
2. Analysis of proposed innovative improvements

Typical Supplier Deliverables

1. Candidate innovative improvements

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Subpractices

1. Analyze the organization's set of standard processes to determine areas in which innovative improvements would be most helpful.

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These analyses are performed to determine which subprocesses are critical to achieving the organization's quality and process-performance objectives and which ones are good candidates to be improved.

2. Investigate innovative improvements that may improve the organization's set of standard processes.

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Investigating innovative improvements involves the following activities:

- Systematically maintaining awareness of leading relevant technical work and technology trends
- Periodically searching for commercially available innovative improvements
- Collecting proposals for innovative improvements from projects and the organization
- Systematically reviewing processes and technologies used externally and comparing them to those used in the organization
- Identifying areas in which innovative improvements have been used successfully, and reviewing data and documentation of experience using these improvements
- Identifying improvements that integrate new technology into products and project work environments
- Determining where supplier products stand in relation to technology cycles and product lifecycles
- Monitoring economies all over the world to spot new supply bases and markets

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3. Analyze potential innovative improvements to understand their effects on process elements and predict their influence on the process.

The acquirer and its suppliers may establish an innovation review program. This program may create time-boxed innovation solicitation, which is a well-communicated formal process for analysis and guaranteed response to innovative ideas proposed by customers, employees, and suppliers.

Process-performance models can provide a basis for analyzing possible effects of changes to process elements.

Refer to the Organizational Process Performance process area for more information about process-performance models.

4. Analyze the costs and benefits of potential innovative improvements.

5. Create process- and technology-improvement proposals for those innovative improvements that would result in improving the organization's processes or technologies.

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6. Select innovative improvements to be piloted before broadscale deployment.

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Organizational Innovation and Deployment (OID)

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Since innovations, by definition, usually represent a major change, most innovative improvements will be piloted.

- 7. Document results of evaluations of innovative improvements.

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SP 1.3 Pilot Improvements

Pilot process and technology improvements to select which ones to implement.

Pilots are performed to assess new and unproven major changes before they are broadly deployed, as appropriate.

The implementation of this specific practice may overlap with the implementation of the Implement Action Proposals specific practice in the Causal Analysis and Resolution process area (e.g., when causal analysis and resolution is implemented organizationally or across multiple projects).

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Typical Work Products

- 1. Pilot evaluation reports
- 2. Documented lessons learned from pilots

Typical Supplier Deliverables

- 1. Pilot evaluation reports for pilots executed in the supplier environment
- 2. Documented lessons learned from pilots executed in the supplier environment

Subpractices

- 1. Plan the pilots.

When planning pilots, define quantitative criteria to be used for evaluating pilot results.

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- 2. Review and get relevant stakeholder agreement on plans for pilots.

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- 3. Consult with and assist those performing the pilots.

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- 4. Perform each pilot in an environment that is characteristic of the environment present in a broadscale deployment.

- 5. Track pilots against their plans.

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- 6. Review and document results of pilots.

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Pilot results are evaluated using the quantitative criteria defined during pilot planning. Reviewing and documenting results of pilots usually involves the following activities:

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- Deciding whether to terminate the pilot, replan and continue the pilot, or proceed with deploying the process and technology improvement
- Updating the disposition of process- and technology-improvement proposals associated with the pilot
- Identifying and documenting new process- and technology-improvement proposals, as appropriate
- Identifying and documenting lessons learned and problems encountered during the pilot

SP 1.4 Select Improvements for Deployment

Select process and technology improvements for deployment across the organization.

Selection of process and technology improvements for deployment across the organization is based on quantifiable criteria derived from the organization's quality and process-performance objectives.

Typical Work Products

1. Process and technology improvements selected for deployment

Subpractices

1. Prioritize candidate process and technology improvements for deployment.

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Priority is based on an evaluation of the estimated cost-to-benefit ratio with regard to the quality and process-performance objectives.

Refer to the Organizational Process Performance process area for more information about quality and process-performance objectives.

2. Select the process and technology improvements to be deployed.

The selection of process improvements is based on their priorities and available resources.

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3. Determine how each process and technology improvement will be deployed.

Examples of where the process and technology improvements may be deployed include the following:

- Organizational process assets
- Project-specific or common work environments
- Organization's product families
- Organization's capabilities
- Organization's projects
- Organizational groups

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4. Document results of the selection process.

Results of the selection process usually include the following:

- The selection criteria for candidate improvements
- The disposition of each improvement proposal
- The rationale for the disposition of each improvement proposal
- The assets to be changed for each selected improvement

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SG 2 Deploy Improvements

Measurable improvements to the organization's processes and technologies are continually and systematically deployed.

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SP 2.1 Plan the Deployment

Establish and maintain plans for deploying selected process and technology improvements.

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The plans for deploying selected process and technology improvements may be included in the organization's plan for organizational innovation and deployment or they may be documented separately.

An acquirer's plans for deploying improvements may include openly sharing most process knowledge and expertise with its suppliers. Any process related knowledge that the acquirer or one of its suppliers possesses is viewed as accessible to virtually any other supplier in the acquirer's supply chain (perhaps with the exception of a direct competitor).

The implementation of this specific practice complements the Deploy Organizational Process Assets specific practice in the Organizational Process Focus process area and adds the use of quantitative data to guide the deployment and to determine the value of improvements with respect to quality and process-performance objectives.

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Refer to the Organizational Process Focus process area for more information about deploying organizational process assets.

This specific practice plans the deployment of selected process and technology improvements. The Plan the Process generic practice addresses comprehensive planning that covers the specific practices in this process area.

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Typical Work Products

1. Deployment plans for selected process and technology improvements

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Subpractices

1. Determine how each process and technology improvement must be adjusted for organization-wide deployment.

Process and technology improvements proposed in a limited context (e.g., for a single project) might need to be modified to work across the organization.

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- 2. Determine the changes needed to deploy each process and technology improvement.

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Examples of changes needed to deploy a process and technology improvement include the following:

- Process descriptions, standards, and procedures
- Work environments
- Education and training
- Skills
- Existing commitments
- Existing activities
- Continuing support to end users
- Organizational culture and characteristics
- Supplier agreements

- 3. Identify strategies that address potential barriers to deploying each process and technology improvement.

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- 4. Establish measures and objectives for determining the value of each process and technology improvement with respect to the organization's quality and process-performance objectives.

Examples of measures for determining the value of a process and technology improvement include the following:

- Return on investment
- Time to recover the cost of the process or technology improvement
- Measured improvement in the project's or organization's product quality and process performance
- Number and types of project and organizational risks mitigated by the process or technology improvement
- Average time required to respond to changes in project requirements, market situations, and the business environment

Refer to the Measurement and Analysis process area for more information about establishing objectives for measurement and analysis, specifying measures and analyses to be performed, obtaining and analyzing measures, and reporting results.

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- 5. Document the plans for deploying selected process and technology improvements.

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- 6. Review and get agreement with relevant stakeholders on the plans for deploying selected process and technology improvements.

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- 7. Revise the plans for deploying selected process and technology improvements as necessary.

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SP 2.2 Manage the Deployment

Manage the deployment of selected process and technology improvements.

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The implementation of this specific practice may overlap with the implementation of the Implement Action Proposals specific practice in the Causal Analysis and Resolution process area (e.g., when causal analysis and resolution is implemented organizationally or across multiple projects). The primary difference is that in the Causal Analysis and Resolution process area, planning is done to manage the removal of root causes of defects or problems from the project's defined process. In the Organizational Innovation and Deployment process area, planning is done to manage the deployment of improvements to the organization's processes and technologies that can be quantified against the organization's business objectives.

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Typical Work Products

1. Updated training materials (to reflect deployed process and technology improvements)
2. Documented results of process- and technology-improvement deployment activities
3. Revised process- and technology-improvement measures, objectives, priorities, and deployment plans

Subpractices

1. Monitor the deployment of process and technology improvements using the deployment plans.
2. Coordinate the deployment of process and technology improvements across the organization.

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Coordinating deployment includes the following activities:

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- Coordinating activities of projects, support groups, and organizational groups for each process and technology improvement
- Coordinating activities for deploying related process and technology improvements

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3. Quickly deploy process and technology improvements in a controlled and disciplined manner, as appropriate.

Examples of methods for quickly deploying process and technology improvements include the following:

- Using red-lines, process change notices, or other controlled process documentation as interim process descriptions
- Deploying process and technology improvements incrementally, rather than as a single deployment
- Providing comprehensive consulting to early adopters of the process and technology improvement in lieu of revised formal training

4. Incorporate process and technology improvements into organizational process assets, as appropriate.

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Refer to the Organizational Process Definition process area for more information about organizational process assets.

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- 5. Coordinate the deployment of process and technology improvements into the projects' defined processes, as appropriate.

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Refer to the Organizational Process Focus process area for more information about coordinating the deployment of process improvements into projects' defined processes.

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- 6. Provide consulting, as appropriate, to support deployment of process and technology improvements.

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- 7. Provide updated training materials to reflect improvements to organizational process assets.

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Refer to the Organizational Training process area for more information about training materials.

- 8. Confirm that the deployment of all process and technology improvements is completed.
- 9. Determine whether the ability of the defined process to meet quality and process-performance objectives is adversely affected by the process and technology improvement, and take corrective action as necessary.

Refer to the Quantitative Project Management process area for more information about quantitatively managing the project's defined process to achieve the project's established quality and process-performance objectives.

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- 10. Document and review results of process- and technology-improvement deployment.

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Documenting and reviewing results includes the following:

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- Identifying and documenting lessons learned
- Identifying and documenting new process- and technology-improvement proposals
- Revising process- and technology-improvement measures, objectives, priorities, and deployment plans

SP 2.3 Measure Improvement Effects

Measure effects of deployed process and technology improvements.

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Refer to the Measurement and Analysis process area for more information about establishing objectives for measurement and analysis, specifying measures and analyses to be performed, obtaining and analyzing measures, and reporting results.

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The implementation of this specific practice may overlap with the implementation of the Evaluate the Effect of Changes specific practice in the Causal Analysis and Resolution process area (e.g., when causal analysis and resolution is implemented organizationally or across multiple projects).

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Typical Work Products

1. Documented measures of the effects resulting from deployed process and technology improvements

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Subpractices

1. Measure the actual cost, effort, and schedule for deploying each process and technology improvement.
2. Measure the value of each process and technology improvement.
3. Measure progress toward achieving the organization's quality and process-performance objectives.
4. Analyze progress toward achieving the organization's quality and process-performance objectives and take corrective action as needed.

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Refer to the Organizational Process Performance process area for more information about process-performance analyses.

5. Store measures in the organization's measurement repository.

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Organizational Innovation and Deployment (OID)

Generic Practices by Goal

Continuous Only**GG 1 Achieve Specific Goals**

The process supports and enables achievement of the specific goals of the process area by transforming identifiable input work products to produce identifiable output work products.

GP 1.1 Perform Specific Practices

Perform the specific practices of the organizational innovation and deployment process to develop work products and provide services to achieve the specific goals of the process area.

GG 2 Institutionalize a Managed Process

The process is institutionalized as a managed process.

Staged Only**GG 3 Institutionalize a Defined Process**

The process is institutionalized as a defined process.

This generic goal's appearance here reflects its location in the staged representation.

GP 2.1 Establish an Organizational Policy

Establish and maintain an organizational policy for planning and performing the organizational innovation and deployment process.

Elaboration:

This policy establishes organizational expectations for identifying and deploying process and technology improvements that contribute to meeting quality and process-performance objectives.

GP 2.2 Plan the Process

Establish and maintain the plan for performing the organizational innovation and deployment process.

Elaboration:

This plan for performing the organizational innovation and deployment process differs from the deployment plans described in a specific practice in this process area. The plan called for in this generic practice would address the comprehensive planning for all of the specific practices in this process area, from collecting and analyzing improvement proposals all the way through to the measurement of improvement effects. In contrast, the deployment plans called for in the specific practice would address the planning needed for the deployment of individual process and technology improvements.

GP 2.3 Provide Resources

Provide adequate resources for performing the organizational innovation and deployment process, developing the work products, and providing the services of the process.

Elaboration:

Examples of resources provided include the following tools:

- Simulation packages
- Prototyping tools
- Statistical packages
- Dynamic systems modeling
- Subscriptions to online technology databases and publications
- Process modeling tools

GP 2.4 Assign Responsibility

Assign responsibility and authority for performing the process, developing the work products, and providing the services of the organizational innovation and deployment process.

GP 2.5 Train People

Train the people performing or supporting the organizational innovation and deployment process as needed.

Elaboration:

Examples of training topics include the following:

- Planning, designing, and conducting pilots
- Cost/benefit analysis
- Technology transition
- Change management

GP 2.6 Manage Configurations

Place designated work products of the organizational innovation and deployment process under appropriate levels of control.

Elaboration:

Examples of work products placed under control include the following:

- Documented lessons learned from pilots
- Revised process- and technology-improvement measures, objectives, priorities, and deployment plans
- Updated training material

GP 2.7 Identify and Involve Relevant Stakeholders

Identify and involve the relevant stakeholders of the organizational innovation and deployment process as planned.

Elaboration:

Examples of activities for stakeholder involvement include the following:

- Reviewing process- and technology-improvement proposals that may have major impacts on process performance or on customer and end-user satisfaction
- Providing feedback to the organization on the status and results of the process- and technology-improvement deployment activities

The feedback typically involves:

- Informing the people who submit process- and technology-improvement proposals about the disposition of their proposals
- Regularly informing relevant stakeholders about the plans and status for selecting and deploying process and technology improvements
- Preparing and distributing a summary of process- and technology-improvement selection and deployment activities

GP 2.8 Monitor and Control the Process

Monitor and control the organizational innovation and deployment process against the plan for performing the process and take appropriate corrective action.

Elaboration:

Examples of measures and work products used in monitoring and controlling include the following:

- Change in quality
- Change in process performance
- Schedule for activities to deploy a selected improvement

GP 2.9 Objectively Evaluate Adherence

Objectively evaluate adherence of the organizational innovation and deployment process against its process description, standards, and procedures, and address noncompliance.

Elaboration:

Examples of activities reviewed include the following:

- Selecting improvements
- Deploying improvements

Examples of work products reviewed include the following:

- Deployment plans
- Revised process- and technology-improvement measures, objectives, priorities, and deployment plans
- Updated training material

GP 2.10 Review Status with Higher Level Management

Review the activities, status, and results of the organizational innovation and deployment process with higher level management and resolve issues.

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GG 3 Institutionalize a Defined Process

The process is institutionalized as a defined process.

This generic goal's appearance here reflects its location in the continuous representation.

GP 3.1 Establish a Defined Process

Establish and maintain the description of a defined organizational innovation and deployment process.

GP 3.2 Collect Improvement Information

Collect work products, measures, measurement results, and improvement information derived from planning and performing the organizational innovation and deployment process to support the future use and improvement of the organization's processes and process assets.

Elaboration:

Examples of work products, measures, measurement results, and improvement information include the following:

Lessons learned captured from relevant stakeholders that identify barriers to deployment from previous technology insertions

Documented measures of the costs and benefits resulting from deploying innovations

Report of a comparison of similar development processes to identify the potential for improving efficiency

Continuous Only

GG 4 Institutionalize a Quantitatively Managed Process

The process is institutionalized as a quantitatively managed process.

GP 4.1 Establish Quantitative Objectives for the Process

Establish and maintain quantitative objectives for the organizational innovation and deployment process, which address quality and process performance, based on customer needs and business objectives.

GP 4.2 Stabilize Subprocess Performance

Stabilize the performance of one or more subprocesses to determine the ability of the organizational innovation and deployment process to achieve the established quantitative quality and process-performance objectives.

GG 5 Institutionalize an Optimizing Process

The process is institutionalized as an optimizing process.

GP 5.1 Ensure Continuous Process Improvement

Ensure continuous improvement of the organizational innovation and deployment process in fulfilling the relevant business objectives of the organization.

GP 5.2 Correct Root Causes of Problems

Identify and correct the root causes of defects and other problems in the organizational innovation and deployment process.