

**CMMI® V2.0 model**  
**in paintings of classic Russian painters**

**including areas:**  
**Core**  
**Development**  
**Services**  
**Supplier Management**

*First edition*

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## CAUSAL ANALYSIS AND RESOLUTION (CAR)

### **Intent**

Identify causes of selected outcomes and take action to either prevent recurrence of undesirable outcomes or ensure recurrence of positive outcomes.

### **Value**

Addressing root cause issues eliminates rework and directly improves quality and productivity.



*N.Ge, «Peter I interrogates the tsarevitch Aleksey in Peterhof», 1871*

## CONFIGURATION MANAGEMENT (CM)

### Intent

Manage the integrity of work products using configuration identification, version control, change control, and audits.

### Value

Reduces loss of work and increases the ability to deliver the correct version of the solution to the customer.



*A. Korovin, «Fishes, wine and fruit», 1916*

## CONTINUITY (CONT)

### Intent

Plan mitigation activities for significant disruptions to business operations so that work can continue or resume.

### Value

Enables continued operation when serious disruptions or catastrophic events occur.



*I.Aivazovsky, «The ship "Empress Maria" during the storm», 1892*

## DECISION ANALYSIS AND RESOLUTION (DAR)

### Intent

Make and record decisions using a recorded process that analyzes alternatives.

### Value

Increases the objectivity of decision making and the probability of selecting the optimal solution.



*V. Vasnetsov, «Knight at the crossroads», 1882*

## ESTIMATING (EST)

### Intent

Estimate the size, effort, duration, and cost of the work and resources needed to develop, acquire, or deliver the solution.

### Value

Estimation provides a basis for making commitments, planning, and reducing uncertainty, which allows for early corrective actions and increases the likelihood of meeting objectives.



*V. Vasnetsov, «Preference», 1879*



## GOVERNANCE (GOV)

### Intent

Provides guidance to senior management on their role in the sponsorship and governance of process activities.

### Value

Minimizes the cost of process implementation, increases the likelihood of meeting objectives, and ensures that the implemented processes support and contribute to the success of the business.



*A.Kotsebu, «Feat of Peter I during a storm», 1832*

## IMPLEMENTATION INFRASTRUCTURE (II)

### Intent

Ensure that the processes important to an organization are persistently and habitually used and improved.

### Value

Sustains the ability to consistently achieve goals and objectives efficiently and effectively.



*I.Repin, «Farm yard», 1879*

## INCIDENT RESOLUTION AND PREVENTION (IRP)

### Intent

Resolve and prevent disruptions promptly to sustain service delivery levels.

### Value

Minimize the impact of disruptions to meet objectives and customer commitments more effectively.



*L.Solovyev, «The monks. Not there we stopped», 1870-e*

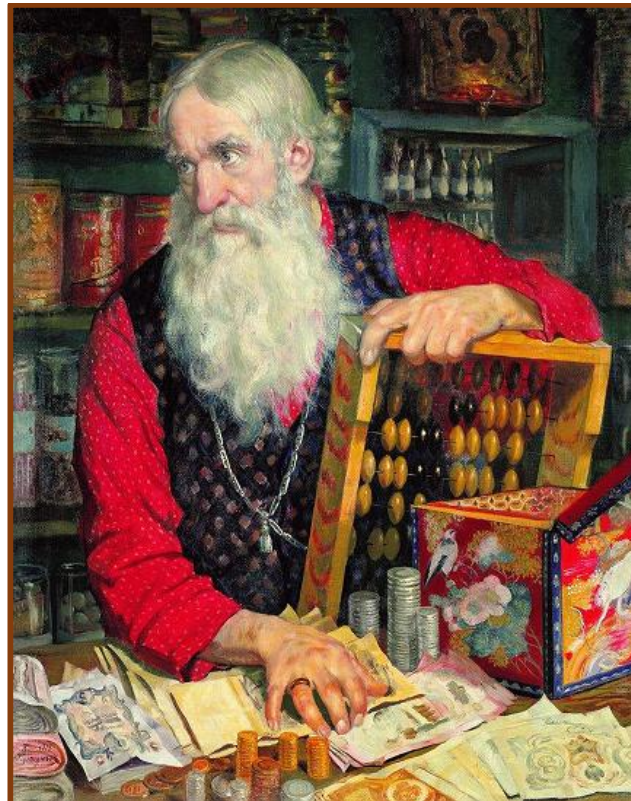
## MANAGING PERFORMANCE AND MEASUREMENT (MPM)

### Intent

Manage performance using measurement and analysis to achieve business objectives.

### Value

Maximizes business return on investment by focusing management and improvement efforts on cost, schedule, and quality performance.



*B.Kustodiev, «Merchant (kupets), counting money», 1918*

## MONITOR AND CONTROL (MC)

### Intent

Provide an understanding of the project progress so appropriate corrective actions can be taken when performance deviates significantly from plans.

### Value

Increases the probability of meeting objectives by taking early actions to adjust for significant performance deviations.



*V. Vereshchagin, «Napoleon on Borodinskie heights», 1897*

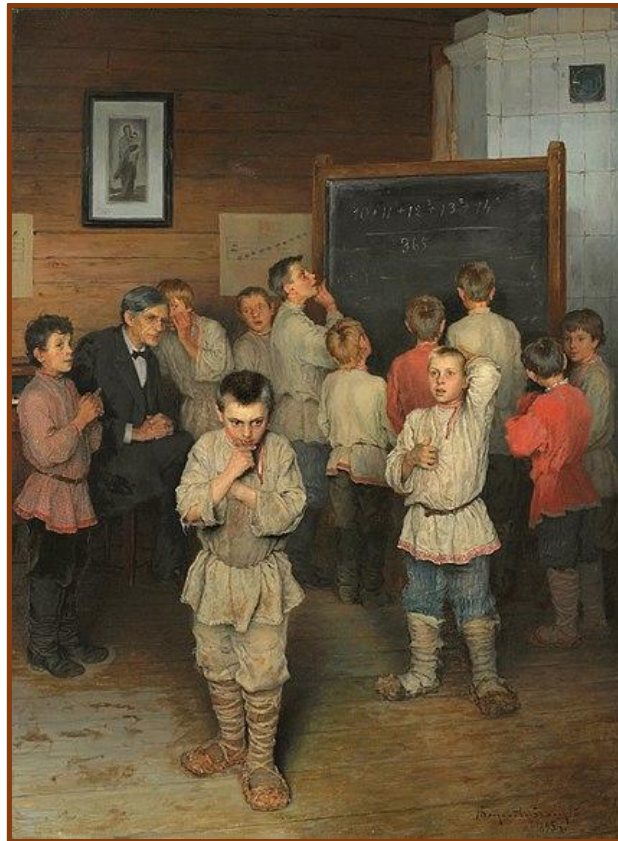
## ORGANIZATIONAL TRAINING (OT)

### Intent

Develop the skills and knowledge of personnel so they perform their roles efficiently and effectively.

### Value

Enhances individuals' skills and knowledge to improve organizational work performance.



*N. Bogdanov-Belsky, « Verbal counting. In the folk school of S.A. Rachinsky», 1895*

## **PEER REVIEWS (PR)**

### **Intent**

Identify and address work product issues through reviews by the producer's peers or Subject Matter Experts (SMEs).

### **Value**

Reduce cost and rework by uncovering issues or defects early.



*V. Perov, «Hunters at rest», 1871*

## PLANNING (PLAN)

### Intent

Develop plans to describe what is needed to accomplish the work within the standards and constraints of the organization, including the: Budget; Schedule; Resource demand, capacity and availability; Quality; Functionality requirements; Risks and opportunities. Plans also describe: The work to be performed; Applicable organizational set of standard processes, assets, and tailoring guidelines; Dependencies; Who performs the work; Relationships with other plans; Stakeholders and their role.

### Value

Optimizes cost, functionality, and quality to increase the likelihood of meeting objectives.



*A. Kivshenko, «The military Council at Fili in 1812 year», 1880, 1882*



## PROCESS ASSET DEVELOPMENT (PAD)

### Intent

Develop and keep updated the process assets necessary to perform the work.

### Value

Provides a capability to understand and repeat successful performance.



*E.Gau, «Interiors of the Winter Palace. The library of Emperor Alexander II», 1866*

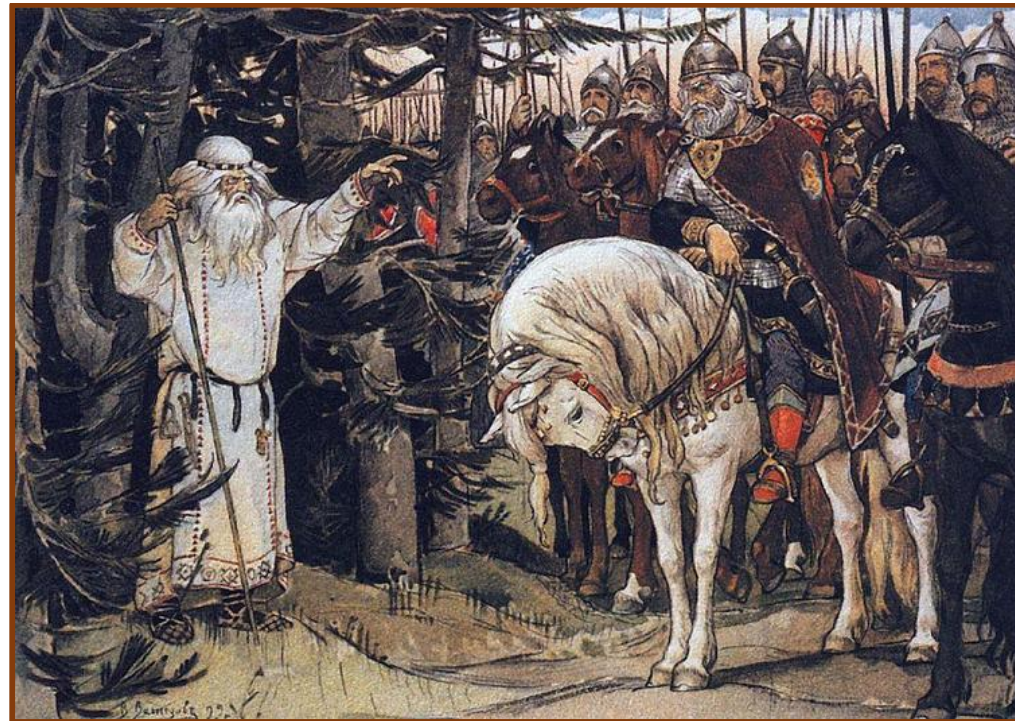
## PROCESS MANAGEMENT (PCM)

### Intent

Manages and implements the continuous improvement of processes and infrastructure to: Support accomplishing business objectives; Identify and implement the most beneficial process improvements; Make the results of process improvement visible, accessible, and sustainable.

### Value

Ensures that processes, infrastructure, and their improvement contribute to successfully meeting business objectives.



*V. Vasnetsov, «Oleg's meeting with magician», 1899*

## PRODUCT INTEGRATION (PI)

### Intent

Integrate and deliver the solution that addresses functionality and quality requirements.

### Value

Increases customers' satisfaction by giving them a solution that meets or exceeds their functionality and quality requirements.



*K. Malevich, «Suprematism», 1916*

## PROCESS QUALITY ASSURANCE (PQA)

### Intent

Verify and enable improvement of the quality of the performed processes and resulting work products.

### Value

Increases the consistent use and improvement of the processes to maximize business benefit and customer satisfaction.



*M. Vatutin, «Educator», 1892*

## REQUIREMENTS DEVELOPMENT AND MANAGEMENT (RDM)

### Intent

Elicit requirements, ensure common understanding by stakeholders, and align requirements, plans, and work products.

### Value

Ensures that customers' needs and expectations are satisfied.



*I.Repin, «Cossacks (letter to Turkish sultan)», 1880-1890*

## **RISK AND OPPORTUNITY MANAGEMENT (RSK)**

### **Intent**

Identify, record, analyze, and manage potential risks or opportunities.

### **Value**

Mitigate adverse impacts or capitalize on positive impacts to increase the likelihood of meeting objectives.



*L.Solomatkin, «On a rope», 1866*

## **SERVICE DELIVERY MANAGEMENT (SDM)**

### **Intent**

Deliver services and manage the service delivery system.

### **Value**

Increase customer satisfaction by delivering services that meet or exceed customer expectations.



*B.Kustodiev, «Cabman», 1923*

## **STRATEGIC SERVICE MANAGEMENT (STSM)**

### **Intent**

Develop and deploy standard services that are compatible with strategic business needs and plans.

### **Value**

Increases likelihood of meeting business objectives by aligning standard services with customer needs.



*I.Repin, «Solemn meeting of the State Council on May 7, 1901, Centennial day from the day of its establishment», 1903*



## **SUPPLIER AGREEMENT MANAGEMENT (SAM)**

### **Intent**

Establish an agreement with selected suppliers, ensure that the supplier and the acquirer perform according to the terms over the course of the agreement, and evaluate the supplier's deliverables.

### **Value**

Provides an explicit understanding between the acquirer and supplier to maximize the success of agreed-on efforts to deliver a supplier deliverable.



*N.Nevrev, «Bargain. Scene from the feudal life», 1866*

## **SUPPLIER SOURCE SELECTION (SSS)**

### **Intent**

Develop and keep updated a package of materials used to seek proposals from potential suppliers and select one or more suppliers to deliver the solution.

### **Value**

Improves the ability to select the most qualified suppliers to deliver solutions.



*G.Sedov, «The choice of bride by Prince Alexei Mikhailovich», 1882*

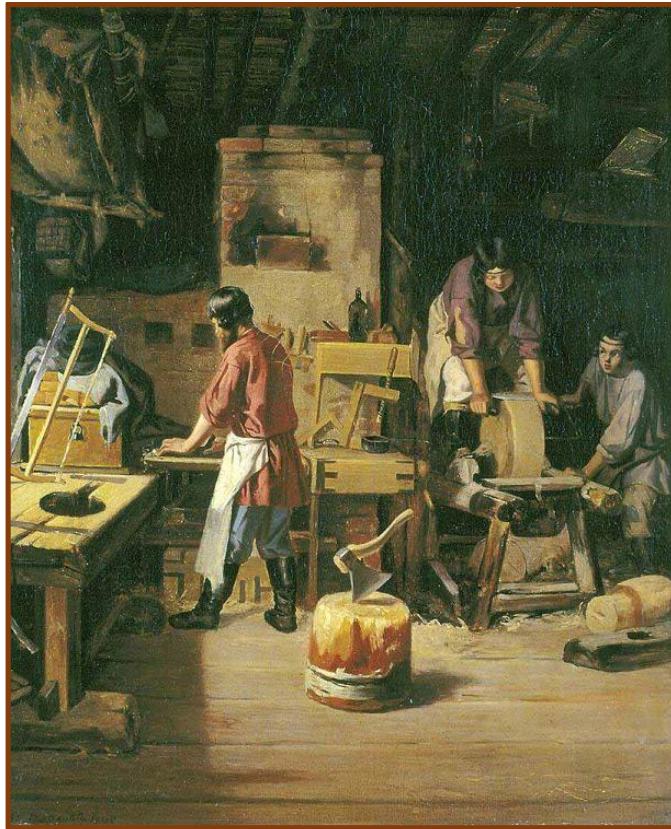
## TECHNICAL SOLUTION (TS)

### Intent

Design and build solutions that meet customer requirements.

### Value

Provides a cost-effective design and solution that meets customer requirements and reduces rework.



*L.Plakhov, «In carpentry», 1845*

## VERIFICATION AND VALIDATION (VV)

### Intent

Verification and validation includes activities that: Confirm selected solutions and components meet their requirements; Demonstrate selected solutions and components fulfill their intended use in their target environment.

### Value

Verification and validation of selected solutions and components throughout the project increases the likelihood that the solution will satisfy the customer.



*A. Beggrov, «The launch of the armored ship "Chesma" in Sevastopol. 1886 г.», 1886*

## POSTSCRIPTUM

### Question

Why in Russia the CMMI ® model is not so popular as in many other countries (including China, Mexico and others)?

### Answer

Among other things, understanding of "maturity" by Russian business is very specific.



*V. Surikov, «Old gardener», 1882*

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