Systems Purpose and Structure	Goal Directedness Through	Management of Intervening	Alignment, Evaluation, and
	Measures and Feedback	Variables and Risk	Improvement
0 – The system is named and has a	0 – The system has no clearly defined	0 – Intervening variables and risk have	0 – There are no systematic efforts
known purpose, but no structure.	outcomes and no expectations for its	not been identified or are unknown.	to learn and improve. The resources
Specific system actions, events,	performance. Its hoped-for		and personnel that constitute the
and activities respond to outside	outcomes are ambiguous.		system do not recognize its
influences and may be based on			existence.
political agendas or individual			
judgments, without regard to			
analysis or past learning			
experience.			
1 – The system has some	1 – The existence and use of	1 – The principal intervening	1 – Some documented history of
documentation but is not mapped.	currently defined systems can be	variables <sup>2</sup> in the system cycle have	systems evaluation and change.
There is some recognition of the	linked to some objective and	been identified, and response	Resources and personnel who
system cycle with some of the	positive organizational	scenarios are known.	contribute are informed of the
principal activity groups <sup>1</sup>	performance.		system and its purpose.
recognized or documented and			
mapped.			
2 – The system is defined and	2 – There is some structured	2 – Intervening variables have been	2 – System leadership is connected
documented at the high level and	feedback on system performance	identified for all principal activity	to the resources and personnel,
mapped. The system map includes	that is based on documented system	groups, and response scenarios	and they are aware of its
all principal activity groups and some	output requirements and to its	documented. The organization	approach, structure (map), and
of their specific contributing tasks	defined purpose. Much of the	conducts at least an annual risk	their role in the delivery of
and activities. Output requirements	feedback may be subjective or	analysis and has documented	contributing tasks and activities.
exist for the system as a whole.	milestone related. Output	responses to principal risks.	Accountability and responsibility <sup>3</sup>
	requirements can be shown to be		for actions within each principal
	linked to the requirements of system		activity group is known. The
	stakeholders and customers. There		system of deployment is linked to
	are no output requirements specific		management activity.
	to each principal activity group.		

<sup>&</sup>lt;sup>1</sup> **Principal Activity Groups** are coherent groups of business activity that produce a definable value-add output. They could also be described as milestones or check gates.

<sup>2</sup> **Intervening Variables** are the categorical variables in system cycles that require adjustments to the known and expected pattern of performance—they are akin to common cause variation in processes.

<sup>&</sup>lt;sup>3</sup> As in project management, the principal activity groups of a system will benefit from using a RACI (responsible, accountable, consulted, informed) model that ensures the progressive completion of successive dependent tasks.

3 – The system has a defined
approach and a planned
deployment. There are a pattern
and purpose specific to each
principal activity group. The map
has been in place for at least one
year and is used for management
analysis and planning. Tasks,
activities, and contributing factors
have been developed for some but
not all the principal activity groups.
Requirements exist for the system
as a whole and several
subcomponents. Leadership has
some evidence that the system
operates as designed, using
indicators and other performance
measures.

- 3 Executive managers regularly receive and review performance feedback, including subjective feedback and objective performance measures. This performance feedback is specific to the system as a whole, and to many of its principal activity groups.4 There is some definition of subordinate process interface, with defined requirements for system inputs and process outputs. There are defined requirements for these system inputs and outputs, and feedback systems exist to capture relative performance in these areas. Performance feedback, taken as a whole, shows a satisfactory level of performance in all areas and some improvement in key areas.
- 3 Contingency plans for principal intervening system variables have been documented and deployed, at least in some instances. An annual system risk identification review is conducted, and results are documented. Root cause analysis is performed to analyze risks. Other possible tools include FMEA, SWOT, business environmental analysis, technical, hazard, and failure assessment. Risk is analyzed in terms of likelihood, consequence, and timeframe.
- 3 The designated system undergoes structured annual evaluation, improvement, and change management, and all its contributing and participating personnel are at least informed and consulted. Specific responsibilities and accountabilities<sup>5</sup> for each principal activity group has been defined. Organizational learning through operations of the system is showing successive refinements and change in performance feedback and risk identification and management.

- 4 Leadership has mapped and documented the system, covering all tasks, accountabilities, and contributing factors. Major intervening variables and system risks have been identified. There is a comprehensive system map that shows all activity groups and demonstrates order, pattern, and purpose. Milestones are known and tracked for the identified system delivery cycle. Deployment is specific to the means used to manage the system and to ensure
- 4 Objective and measurable feedback/results are linked to this organizational system, covering all tasks, accountabilities, and contributing factors, and to system inputs from subordinate processes and to process outputs from the system. There are demonstrated positive levels of performance in many or most measured areas.
- 4 Both risk analysis and risk management planning are used, and there is documented evidence of implementation of risk management. Root cause analysis and other tools are used to design risk management plans, and to identify and manage risks.
- 4 There is an annual analysis of system effectiveness and the development of lessons learned. Update and change are considered annually, both in systems operations and in the risk management plan. Responsibilities, accountability, consultation, and informing roles have been identified for each primary activity group, and dependent tasks and activities.

<sup>&</sup>lt;sup>4</sup> Performance feedback includes indicators regarding timely completion of milestones and quality of delivery of defined requirements.

<sup>&</sup>lt;sup>5</sup> The responsibilities and accountabilities for each principal activity group consist of linkage to organizational positions or groups. They ensure personnel know roles and accountability during the value creation cycle of each system step.

its continuing operations according to design. Leadership has indicators and other performance measures in place for all principal activity groups. There is evidence of the use of this system management structure for two or more years.  5 – In addition to the requirements outlined above, there is documented evidence of an ordered system that delivers uniform and predictable quality outputs over multiple operational cycles. The system map links to process maps as necessary, to accomplish organizational goals, and requirements statements for process inputs or outputs are built into systems requirements. Operational deployment is supported by responsibilities and accountability for each contributing resource group and using indicators and performance measures for all principal activity groups. There is evidence of the use of this system management structure for three or more years.	5 – Performance feedback and objective measures are linked to this system and all of its defined activity groups. Positive levels and trends exist for the entire system and all its principal activities. Several indicators and measures are available for each defined activity group. There is evidence that the performance of this defined system has improved and contributed to improving organizational outcomes over three or more years.	5 – Risks are actively managed by the risk manager and the risk owner, and progress is reported to management regularly. System design and structure has been modified to lessen the impact or occurrence of intervening variables and risks. There is documented evidence of the use of analysis to lessen risk and system impacts. There is documented evidence of systems learning and improvement. There is evidence of systematic risk identification, tracking, analysis, and controls or mitigations in place.	5 – There is evidence of continuous systematic annual improvement, participated in by all defined systems personnel. There are measurable, positive results on outcomes and in each activity group, with demonstrated positive relationship to all dependent processes.
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