A Framework for Assessing and Improving Process Maturity

What GAO Found

The ITIM framework is a maturity model composed of five progressive stages of maturity that an agency can achieve in its IT investment management capabilities. These maturity stages are cumulative; that is, in order to attain a higher stage of maturity, the agency must have institutionalized all of the requirements for that stage in addition to those for all of the lower stages. The framework can be used both to assess the maturity of an agency’s investment management processes and as a tool for organizational improvement. For each maturity stage, the ITIM describes a set of critical processes that must be in place for the agency to achieve that stage. The figure below shows the five stages and lists the critical processes for each stage.

At the Stage 1 level of maturity, an agency is selecting investments in an unstructured, ad hoc manner. Project outcomes are unpredictable and successes are not repeatable; the agency is creating awareness of the investment process. Stage 2 critical processes lay the foundation for sound IT investment processes by helping the agency to attain successful, predictable, and repeatable investment control processes at the project level. Stage 3 represents a major step forward in maturity, in which the agency moves from project-centric processes to a portfolio approach, evaluating potential investments by how well they support the agency’s missions, strategies, and goals. At Stage 4, an agency uses evaluation techniques to improve its IT investment processes and its investment portfolio. It is able to plan and implement the “de-selection” of obsolete, high-risk, or low-value IT investments. The most advanced organizations, operating at Stage 5 maturity, benchmark their IT investment processes relative to other “best-in-class” organizations and look for breakthrough information technologies that will enable them to change and improve their business performance.

The ITIM Stages of Maturity with Critical Processes

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<th>Maturity stages</th>
<th>Critical processes</th>
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| Stage 5: Leveraging IT for strategic outcomes | - Optimizing the investment process  
- Using IT to drive strategic business change |
| Stage 4: Improving the investment process | - Improving the portfolio’s performance  
- Managing the succession of information systems |
| Stage 3: Developing a complete investment portfolio | - Defining the portfolio criteria  
- Creating the portfolio  
- Evaluating the portfolio  
- Conducting postimplementation reviews |
| Stage 2: Building the investment foundation | - Instituting the investment board  
- Meeting business needs  
- Selecting an investment  
- Providing investment oversight  
- Capturing investment information |
| Stage 1: Creating investment awareness | - IT spending without disciplined investment processes |

Source: GAO.