

## PGMA Model

The PGMA (Policy, Guidance, Metrics, Assessments) was originally conceived as a model to provide the framework for developing the components for DOE Information Technology (IT) related policies. Its specific purpose is to drive the development of the four components and ensure a corresponding element within each component. The model components are:

### POLICY

- A concise statement supporting the Department's needs for quality business solutions.
- Link to existing IT policy statements without redundancy.

### GUIDANCE

- Documentation, templates, references, checklists, training, (using Web and other means) to provide implementation mechanisms and techniques for policy adherence.

### METRICS

- Measurable criteria to assess IT capabilities and provide CIO with metrics on policy adherence and architectural program.

### ASSESSMENTS

- Questions that translate the necessary measures into means of providing metrics.
  - Methods and guidelines for conducting the assessments and tracking follow on items.
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### Example 1:

If we start with Policy that indicates IT providers must follow lifecycle processes, the following corresponding elements can be developed within the model.

### POLICY:

- All DOE information systems
  - will be developed using project lifecycle processes (which incorporates JAD, RAD, Spiral, etc.)
  - must practice project management, which includes quality assurance, configuration management, etc.

### GUIDANCE:

- Software processes
- Reference to industry recognized lifecycle methodologies and techniques (e.g., James Martin, MS Framework, Spiral, etc.)
- Checklists of expectations

### METRICS

- # of IT solutions providers using lifecycle processes vs. # of providers DOE employs
- # of IT solutions providers getting projects in on time vs. # of actual projects

### ASSESSMENTS

- Are you using a methodology? If so, which one?
- Are you following your "guiding" methodology?
- Are you deviating from "our" guidance (checklist)?

### Example 2:

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In this example, we began with Metrics. To measure the percentage of providers who are aligned with the architecture assessment criteria, we would include the following program components.

### POLICY

- All DOE information systems
  - are in align with the DOE Architecture Program
  - IS designs must demonstrate explicit alignment with the DOE Architecture Program

### GUIDANCE

- Checklists of expectations
- Implementation information
- Reference to Department Information Architecture project
- Training

### METRICS

- % of providers who are aligned with the architecture assessment criteria

### ASSESSMENT CRITERIA

- Does the provider meet the architecture assessment criteria?