About APG

• APG’s mission is to
  “Align information technology and systems engineering capabilities with business strategy using proven, practical processes delivering world-class results.”

• Industry thought leader in enterprise architecture, business modeling, process improvement, systems and software engineering, requirements management, and agile methods

• Member and contributor to
  • UML, SysML®, SPEM, UPDM™/UAF, BAMM at OMG®
  • TOGAF, ArchiMate®, IT4IT™ at The Open Group
  • UML Profile and Metamodel teams at Business Architecture Guild

• Business partners with Sparx, HP, and IBM

• Open Group Accredited Training Provider, Guild Accredited Training Partner™, IIBA® Endorsed Education Provider (EEP™)
Blueprints provide views into knowledgebase, based on stakeholder concerns

Scenarios contextualize expected outcomes of business architecture work
- Also inform initial selections of key stakeholders and likely concerns
Value Proposition

• Uplift professionalism of practitioners
  • Transition from office productivity tools to formal modeling solutions

• Increase adoption of BIZBOK-based modeling
  • Diminish requirement of end-users to create one-off custom solutions

• Provide foundation for end-user metamodel customization
  • Enable end-users to add custom properties and additional types of elements, relationships, and diagrams

• Allow integration of Business Architecture models with other models
  • Enterprise architecture (TOGAF, ArchiMate, UPDM/UAF)
  • Business process (BPMN)
  • Systems engineering (SysML)
  • Solution delivery (UML)
What Are We Building?

- **UML Profile**
  - Define base metatypes, metadata, and metarelationship
  - Make “open-source” to allow for end-user customization
  - Would allow end-user to create own MDG Add-In based on Profile or MDG Tech

- **MDG Technology**
  - Includes UML profile
  - New diagram types with specific toolboxes
  - Scripts, report templates, other stuff
  - Could also be open-sourced

- **MDG Add-In**
  - Create .NET assembly using C# or VB.NET
  - Add new windows/views that do special things
  - Catch EA GUI events and respond accordingly
COLLABORATION TEAMS: UML PROFILE FOR BIZBOK®
GUIDE

News
- MDG Technology v1.0 Beta released!
- MDG Technology features
- Next meeting @ 22 Nov 2016
- View group calendar

Web Published Models
Last published 4 Nov 2016.
- Metamodel
- MDG Technology

Content
- Meeting minutes
- Model content
- UML Profile
- MDG Technology
- Guidance

Team Tools
- Connect to EA cloud repository to view model
- Login into Hosted Redmine to view issues

Team Members
- APG
- AIMCo
- FedEx
- Guild Metamodel
- OMG BAMM RFP
Custom metaclass properties (like "isActive" for Class metaclass) are those assigned by Sparx by default. If a non-default value is selected, there will be a specific note about the rationale for a different setting.
UML Profile – Capability Relationships

- **Composition**
  - `composedOf`
    - `metatype` = composedOf
    - `strictness` = profile
  - Direction: `Source -> Destination`

- **Dependency**
  - `dependsUpon`
    - `metatype` = dependsUpon
    - `strictness` = profile
  - Direction: `Destination -> ...`

- **Instantiation**
  - `instanceOf`
    - `metatype` = instanceOf
    - `strictness` = profile
  - Direction: `Destination -> ...

- **Association**
  - `compositionKind` = none
  - Direction: `Destination -> ...

- **Association**
  - `produces`
    - `metatype` = produces
    - `strictness` = profile

- **Association**
  - `requires`
    - `metatype` = requires
    - `strictness` = profile
Capability Mapping – Diagram Types

![Change Diagram Type dialog box with selected BIZBOK Capability Mapping]

Select From:
- UML Structural
- UML Behavioral
- Extended
- BIZBOK Capability Mapping
- BIZBOK Information Mapping
- BIZBOK Organization Mapping
- BIZBOK Value Mapping
- BPMN 2.0
- FEA F Diagrams
- SPEM
- TOGAF Diagrams
- TOGAF Business Architecture
- TOGAF Data Architecture

Diagram Types:
- Capability Cross Mapping
- Capability Map
Capability Map – Auto-Generated
Value Stream – Metamodel

- Value Stream
  - Name: Text
  - Description: Text
  - Is Start Stage: Yes/No
  - Is End Stage: Yes/No

- Value Stream Stage
  - composed of {ordered}
  - composed of

- Process
  - implements
  - participates in
  - responsible for

- Organization
  - participates in

- Stakeholder
  - desires
  - requires
  - produces
  - receives
  - contributes to

- Value Proposition
  - delivers

- Outcome
  - requires
  - produces
  - delivers
  - contributes to

- Capability
  - offers
  - implements
  - receives
  - contributes to

- Value Item
  - offers
  - represents

- Value Stream Criteria
  - applies to
  - has entrance criteria
  - has exit criteria

- Information Concept
  - represents
  - applies to

- Information Concept Instance
  - represents
  - instance of

Spex Enterprise Architect – UML Profile for BIZBOK®
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Value Mapping – Diagram Types

Change Diagram Type

Package: Value Streams

Diagram: Deliver Training Engagement - Value Items

Type

Select From:
- UML Structural
- UML Behavioral
- Extended
- BIZBOK Capability Mapping
- BIZBOK Information Mapping
- BIZBOK Organization Mapping
- BIZBOK Value Mapping
- BPMN 2.0
- FEAH Diagrams
- SPEM
- TOGAF Diagrams
- TOGAF_BusinessArchitecture
- TOGAF_DataArchitecture

Diagram Types:
- Value Map
- Value Stream Specification
- Value Cross Mapping
### Value Stream Specification

<table>
<thead>
<tr>
<th>:Customer</th>
<th>:Training Facility</th>
<th>:Student</th>
<th>:Customer</th>
</tr>
</thead>
<tbody>
<tr>
<td>Understand Customer Requirements</td>
<td>Arrange Training Logistics</td>
<td>Register for Training Session</td>
<td>Deliver Training Session</td>
</tr>
<tr>
<td>Clear Customer Expectations</td>
<td>Appropriate Facilities</td>
<td>Defined Target Audience</td>
<td>Included Professional Skills</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>Uplifted Workforce Capabilities</td>
</tr>
</tbody>
</table>

**Toolbox**

- Elements:
  - Value Proposition
  - Value Stream Stage
  - Value Item
  - Value Stream Criteria
  - Stakeholder
  - Information Concept
  - Info Concept Instance

- Relationships:
  - Applies To
  - Composed Of
  - Contributes To
  - Has Entrance Criteria
  - Has Exit Criteria
  - Offers
  - Receives
  - Supports
  - Uses

**Common**

**Artifacts**
Value Stream – Entry/Exit Criteria

1. Understand Customer Requirements
2. Register for Training Session
3. Deliver Training Session
4. Close Training Session
5. Arrange Training Logistics
6. :Proposal [Submitted]
7. :Event [Scheduled]
8. :Event [Delivered]
9. :Statement of Work [Approved]
10. :Event [Setup]
11. :Course Evaluation [Returned]
12. :Certificate of Completion [Provided]
Value Cross-Mapping

- Understand Customer Requirements
- Arrange Training Logistics
- Register for Training Session
- Deliver Training Session

- Client Management
- Event Management
- Event Management
- Event Delivery

- Proposal Management
- Facility Management
- Event Registration
- Event Management

- Quote Management
- Instructor Management
- Event Preparation
- Attendee Management

- Service Sales

Open the matrix profile 'Value Stream Stage Enabled By Capability'
Value Map – Example 2

VP Product Development

«triggers»

«desires»

Sustainable
New Product Ecosystem

«produces»

Establish Distribution Network

Develop Distribution Strategy
Select Distribution Partners
Plan Distribution Partner Engagement
Develop Distribution Partner Relationship
Grow New Product Sales
Sustain New Product Sales

Value Streams: Establish Distribution Network - Value Items
Value Streams: Establish Distribution Network - Info Object Mapping
Value Streams: Establish Distribution Network - Info Object Matrix
Participating Stakeholders & Delivered Value Items

- Also shows aggregation of Value Items into Value Proposition

Sparx Enterprise Architect – UML Profile for BIZBOK®
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Value Item Mapping

- Identify participating stakeholders
  - Who contributes to creating value item?
  - Who receives the value from the item?
## Stakeholder / Value Item – Matrices

<table>
<thead>
<tr>
<th>Source</th>
<th>Target</th>
</tr>
</thead>
<tbody>
<tr>
<td>Distribution Partner</td>
<td>Develop Distribution Partner Relationship</td>
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<tr>
<td>Distribution Partner Manager</td>
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<tr>
<td>Distribution Sales Manager</td>
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<tr>
<td>VP Product Development</td>
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</table>

### Value Stream Stage offers Value Item

<table>
<thead>
<tr>
<th>Source</th>
<th>Clarified Distribution Channels</th>
<th>Defined Engagement Model</th>
<th>Engaged Channel Network</th>
<th>Product Market Growth</th>
<th>Profitable Product Market</th>
<th>Understood Distribution Approach</th>
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<tbody>
<tr>
<td>Develop Distribution Partner Relationship</td>
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<td>Select Distribution Partners</td>
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<td>Sustain New Product Sales</td>
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</table>
Value Stream Stage – Entry/Exit Criteria

- Mapping of entry/exit criteria for first two stages
- Input/output shown as instances of information objects in specific state
## Alternate Depiction

### Entry Criteria
- **Product Sales Data** [Gathered]
- **Sales and Distribution Program** [Approved]
- **Product Market Data** [Gathered]
- **Sector Sales and Distribution Strategy** [Approved]

### Value Stream Stage
- Develop Distribution Strategy
- Select Distribution Partners
- Plan Distribution Partner Engagement
- Develop Distribution Partner Relationship
- Grow New Product Sales
- Sustain New Product Sales

### Exit Criteria
- **Product Distribution Strategy** [Approved]
- **Distribution Partner** [Selected]
- **Product Market Intelligence** [Created]
- **Product Market Analysis** [Created]
- **Product Competitor Intelligence** [Created]
- **Product Sales Analysis** [Created]
Information – Metamodel

- Stakeholder Type
- Policy
- Value Stream Stage
  - Value Stream Criteria
  - Information Concept State
  - Information Concept Instance
  - Distinguished Business Object

- Product
- Capability
- Outcome
- Value Item

Relationships:
- composed of
- represents
- governs
- defines
- uses
- applies to
- lifecycle defined by
- in state
- instance of
- represents
- applies to

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Information Map – Diagram Types

The image shows a window titled "Change Diagram Type" with the following options:

- **Package**: Event Management
- **Diagram**: Event Management Business Entities

The "Select From" section includes:
- UML Structural
- UML Behavioral
- Extended
- BIZBOK Capability Mapping
- BIZBOK Information Mapping
- BIZBOK Organization Mapping
- BIZBOK Value Mapping
- BPMN 2.0
- FEAF Diagrams
- SPEM
- TOGAF Diagrams
- TOGAF_BusinessArchitecture
- TOGAF_DataArchitecture

The "Diagram Types" section includes:
- Information Cross Mapping
- Information Lifecycle
- Information Map

There are buttons at the bottom labeled "OK", "Cancel", and "Help".
Information Map – Example
Information Lifecycle – Lead

Identified -> Rejected

Captured -> Targeted

Verified

Contacted

Converted

Acquired

Verified

Captured

Targeted

Identified

Rejected
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Organization – Examples

Open the matrix profile 'Organization Operates In Location'

APG

Executive Management

Sales and Marketing
- Sales
- Contractor Management
- Finance
- Human Resources
- Event Management

Business Operations
- Certification Training
- Technical Training
- Legal

Professional Education
- Tool Training

Professional Services
- Enterprise Architecture Services
- Solution Delivery Services
- Systems Engineering Services
- Tool Implementation Services

Research and Development

IT Operations

Toolbox
- Elements
  - Partner
  - Organization
  - Business Unit
  - Collaborative Team
- Relationships
  - Composed Of
  - Interacts With
- Common
- Artifacts

Cross Map
- Value Stream Stage
- Capability
- Capability Instance
- Relationships
  - Implements
  - Possesses
  - Responsible For
- Common
- Artifacts
Conclusions

- UML Profile for BIZBOK should increase level of adoption of formal modeling in Business Architecture
- Have released first beta version focusing on core, foundational domains
  - Capability, Value, Information, Organization
- Working on confirming metamodel for extension domains
  - Strategy, Initiative, Stakeholder, Product, Policy
- Looking for end-users to test work-in-progress
  - Also looking for people to help contribute to development
- Plan to release first complete version 1Q2017
Thanks for your attention and participation!
You can download this presentation and access numerous other resources at the myAPG resource portal!

www.aprocessgroup.com/myapg