The Enterprise Architecture Tools Project is a research project with three goals--

1. Explore the current state of EA tools using a base of approximately 21 industry tools.
2. Develop a useful approach to explaining the depth and nature of the existing tools.
3. Publish an approach or framework that would be useful for individuals seeking to integrate tool use on their EA projects.
What is Enterprise Architecture?

1. “Enterprise architecture is about understanding all of the different elements that go to make up the enterprise and how the elements interrelate (Institute for Enterprise Architecture Developments).”

2. “Enterprise architecture is a strategic information asset base, which defines the business mission, the information necessary to perform the mission, the technologies necessary to perform the mission, and the transitional processes for implementing new technologies in response to changing mission needs (USA Federal CIO Council).”

3. “Enterprise architecture is a holistic expression of an organization’s key business information, application and technology strategies and their impact on business functions and processes. The approach looks at business process and the structure of the organization, and what type of technology is used to conduct these business processes (Gartner/Meta Group).”

Enterprise Architecture Frameworks*

Hypothesis and Research Questions

Hypothesis--EA Tools are rapidly maturing yet significant challenges still remain for them to be useful for large-scale projects.

Questions—
1. What are the required characteristics of a tool needed to support an end-to-end enterprise architecture project?
2. Can one tool handle the needs of an entire project or are multiple tools required?
3. What core skills and prerequisite knowledge is required by team members on Enterprise Architecture projects in order to effectively use the tools?

Variables for Analysis

Variables include--
- Methods utilized
- Frameworks supported
- Industry standards embraced
- Data integration (where applicable)
- Repository implementation
- Usability
## Tools Starting Point*

<table>
<thead>
<tr>
<th>Company</th>
<th>Products</th>
<th>Framework Support</th>
<th>Facilities</th>
</tr>
</thead>
<tbody>
<tr>
<td>AgilOne</td>
<td>EA Workbench</td>
<td>AgilOne, Synthex, Zachman, TOGAF, DoDAF, FEAF/TEAF, FEA</td>
<td>Fully programmable, interfaces with other tools</td>
</tr>
<tr>
<td>Alliant</td>
<td>Strategic IT Mgr., Solution Framework V2.0</td>
<td>TOGAF framework</td>
<td>Not specified</td>
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<tr>
<td>ABC Software</td>
<td>Phoenix</td>
<td>Not Specified</td>
<td>Online review of features</td>
</tr>
<tr>
<td>CaseWare</td>
<td>Corporate Modeler Enterprise Edition V10</td>
<td>CaseWare Framework, Zachman, FEAF, TEAF, ATOM, DoDAF, etc.</td>
<td>Rational Rose, Emacs, PowerDesigner, OracleDesigner, Tibor, Telelogic Data</td>
</tr>
<tr>
<td>Fastlane</td>
<td>Fastlane 4</td>
<td>FEAF</td>
<td>Software Asset Mgt.</td>
</tr>
<tr>
<td>Foresight</td>
<td>Modeling &amp; Validation Tool</td>
<td>DoDAF</td>
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<td>GoAhead</td>
<td>GoAhead Map Product Suite</td>
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<td>Not Specified</td>
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<tr>
<td>IDS Scheuer</td>
<td>ARIS Process Platform</td>
<td>ARIS Framework</td>
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<td>LogiXML</td>
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<td>Not Specified</td>
<td>Software development asset (SDA) mapping and discovery engine</td>
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<tr>
<td>Proforma</td>
<td>Provision Modeling Suite</td>
<td>Zachman, CCM</td>
<td>Rational Rose, Emacs, PowerDesigner, OracleDesigner, Tibor, Telelogic Data</td>
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<td>Select Component Architect</td>
<td>Zachman</td>
<td>MDA, UML, RUP, Yourdon, XP</td>
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<tr>
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<td>Telelogic Enterprise Architect for DoDAF</td>
<td>DoDAF</td>
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<tr>
<td>Tivoli</td>
<td>Tivoli IT Governance System</td>
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<td>Not Specified</td>
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<tr>
<td>Troux (Former Computas Product Suite)</td>
<td>Meta Product Family</td>
<td>Zachman, TOGAF, DoDAF, FEAF/TEAF</td>
<td>UML 2.0</td>
</tr>
<tr>
<td>UGS Government</td>
<td>IGAMS V2.0</td>
<td>TOGAF, HP MDA, C4ISR</td>
<td>Not Specified</td>
</tr>
<tr>
<td>Visible</td>
<td>Visible Advantage</td>
<td>Not Specified</td>
<td>ARIS and EERPO</td>
</tr>
</tbody>
</table>

* Taken from http://www.enterprise-architecture.info/EA_Tools.htm

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### Metis Enterprise Architecture Tool

- Creates models that include nested/embedded objects and relationships
- Provides templates for modeling organizations, business processes, and applications
- Supports multiple EA frameworks (Zachman, DODAF, TOGAF v8, and custom frameworks)
- Some key capabilities include:
  - Role-based web portal
  - Policy management and audit capabilities
  - Reporting and data repository
Visible Advantage

- Software engineering and repository product that supports complex, cross-functional enterprise class development
- Supports new systems, redevelopment of legacy systems, and business process reengineering
- Some key capabilities include:
  - Automates forward, reverse, and reengineering through SQL, ODBC and XML
  - Extensible repository supports custom object types
  - User defined fields allow you to tailor the repository to your specific needs.
  - Links plans, models, designs, and systems
For More Information


Please see the Web site for the course that I teach at Nova Southeastern University—
http://scis.nova.edu/~gulla/DISS792_DISS892_Spring2006.htm


Next Steps – Paper Outline

**Introduction** – Introduce the topic, discuss the project, and define terms.

**Review of the Tools** – Discuss the 20+ tools we reviewed as part of this research project.

**Methodology** – Explain the approach we took to review the tools.

**Analysis** – Discuss our analysis activities including data.

**Conclusions, Recommendations, and Implications** – Explain what we found and think about the tools.

**Summary** – Recap the project and propose next steps.