Connecting the Dots in Enterprise Architecture

October 2, 2014  Thursday  8:30-10:30 a.m.  Faculty Club Library Room
• Expected Outcomes in Enterprise Architecture
• The EA Vision
• Milestones for EA at Harvard
• Governance
• Resources and Higher Education Precedents
Some of the benefits predicted from successfully implementing an enterprise architecture include:

- Improved morale as individuals see more direct links between their efforts and the organization’s success
- Fewer failed IT systems
- Reduced complexity in existing IT systems
- Improved agility for new IT systems
- Closer alignment between business requirements and IT deliverables

## The EA Vision

### Our Vision for Enterprise Architecture

Provide a technology framework and a set of standards to enable acquisition, development, and deployment of IT services that maximize interoperation, minimize duplication, and simplify the IT environment across all of Harvard.

### Strategic Objectives

- Deliver an enterprise architecture framework that drives technology and development standards across Harvard
- Provide common approaches for integration across enterprise applications, processes, and data
- Align and rationalize technology decisions and investments
- Identify redundant or conflicting processes and data across organizations

### Guiding Principles

- Ensure that EA provides active direction and delivers value to the organization
- Counter complexity with common solutions
- Enable sharing of data across organizations
- Preference for open-source, COTS, and programmatic interfaces — both in what we obtain and what is produced
- Encourage, define, and ultimately provide best-practice solutions
- Evolve framework and solutions with advances in technology

### Key Performance Indicators

- Decrease in project delivery timeframes to production
- Increase in the number of integrated applications using programmatic interfaces
- Increase in the number of funded projects that conform to an EA Checklist
- Decrease in ad-hoc data sharing
- Increase in automated data exchange
- Increase in the number of known authoritative data sources
- Decrease in the number of copies of data
<table>
<thead>
<tr>
<th>HUIT Top 40 Goal</th>
<th>EA Milestones</th>
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| 20. Establish an IT enterprise architecture                                    | *Oct 2014*: Launch EA strategic initiative, including vision and strategic plan  
*Dec 2014*: Define a Harvard EA framework to incorporate key elements in principles, data, integration, and technology architecture  
*March 2015*: Conduct a current state analysis on integration to identify data passed between enterprise applications and the means of exchange |
| 21. Implement an architecture review process                                   | *Sept 2014*: Identify a set of technical architects who can undertake architectural reviews  
*Oct 2014*: Review and refresh PRC technical review process  
*Dec 2014*: Review and refresh ITCRB technical review process |
EA Governance

Enterprise Architecture Executive Committee

IT executives who ensure that the vision and plan are addressed by the working group. Also provides consistent direction and problem-solving approaches for the working group and the EA program at large. Meets monthly.

**Co-Chairs:** Anne Margulies and Stephen Gallagher

**Members:** Scott Bradner, Ben Gaucherin, Stephen Ervin, Praneeth Machettira, Pratike Patel, Jason Snyder, Jim Waldo, Bob Wittstein

Enterprise Architecture Working Group

- Technical members of HUIT, Harvard Schools, and other IT departments that meet on a regular basis
- Defines the Enterprise Architecture framework for review by Steering Committee
- Builds and reviews other EA components as per vision
- Publishes a monthly report on enterprise architecture progress, issues, and direction for the organization

**Chair:** Jason Snyder
Microsoft summary of EA methodology: [tinyurl.com/ms-ea-summary](tinyurl.com/ms-ea-summary)

Efforts at other academic institutions:

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<tr>
<th>Institution</th>
<th>Description</th>
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<tbody>
<tr>
<td>Cardiff University</td>
<td>Three universities considered suitably EA-ready for 12-month evaluation in their own institutions — in particular road-testing TOGAF™, a non-proprietary framework developed by The Open Group. <a href="tinyurl.com/ea-uk-it">tinyurl.com/ea-uk-it</a></td>
</tr>
<tr>
<td>University of Michigan</td>
<td>EA initiative launched in 2009. <a href="tinyurl.com/ea-umich-it">tinyurl.com/ea-umich-it</a></td>
</tr>
<tr>
<td>MIT</td>
<td>A comprehensive EA guide describing an initiative started in 2004. <a href="tinyurl.com/ea-mit-it">tinyurl.com/ea-mit-it</a></td>
</tr>
<tr>
<td>University of Washington</td>
<td>Three-year initiative to reposition UW-IT for the next two decades. <a href="tinyurl.com/ea-uw-it">tinyurl.com/ea-uw-it</a></td>
</tr>
<tr>
<td>University of Wisconsin-Madison</td>
<td>A 2010 EA delivery initiative. <a href="tinyurl.com/ea-uwmad-it">tinyurl.com/ea-uwmad-it</a></td>
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Questions or comments?
Thank you!