EA in Action

Tech Talks
Feb 19, 2015

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Kintsugi (金継ぎ)
Three Broad Foci of EA

Tactical/Project Engagements

Strategic Roadmap Development

EA Practice Maturation
Tactical/Project Engagements

- Align these efforts with the current understanding of the desired future state.

- Prevent *unforeseen* architectural / technical debt.

- Help teams be enterprise-wide in their vision and analysis.

- Bring an outsider view to the table.

- Realign the vision for the future state based on the impact of the project - new capabilities, deprecation of old, etc.
Tactical/Project Engagements

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We need to extract the data from Workday and make it available to campus via a variety of methods.

HR/P Enterprise Integration Platform
Tactical/Project Engagements

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We need to capture the new data definitions and data mappings created by HR/P Implementation

HR/P Metadata Mapping & Metadata Tool
Tactical/Project Engagements

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- Realign the vision for the future state based on the impact of the project - new capabilities, deprecation of old, etc.

We need to remap the security and access controls and rights to the new data model.

HR/P Security Model Abstraction
**Tactical/Project Engagements**

1. **HR/P Enterprise Integration Platform**
   - Extract the data and make it available to campus via a variety of end-points.

2. **HR/P Metadata Mapping & Metadata Tool**
   - Capture the new data definitions and data mappings

3. **HR/P Security Model Abstraction**
   - Remap the security and access controls
Tactical/Project Engagements

- HR/P Enterprise Integration Platform
- HR/P Metadata Mapping & Metadata Tool
- HR/P Security Model Abstraction

Strategic Roadmap Development

- Common Enterprise Integration Platform
- Common Metadata Mapping & Metadata Tool
- Common Security Model Abstraction

HR/P
Finance
Student
Grant Admin
Strategic Goals

Data-Driven Decision Making
IT-Rationalization
Common / Shared Services
Well Architected Core Infrastructure

Strategic Roadmap Development

- Common Enterprise Integration Platform
- Common Metadata Mapping & Metadata Tool
- Common Security Model Abstraction
We will:

- Use a common Enterprise Integration Platform for core enterprise data / systems.
- Use a common Metadata Tool and Mapping Process for the core enterprise data.
- Drive towards a common Security Model and Abstraction Layer.
Tactical/Project Engagements:

- Often morph into multiple larger Strategic efforts
- Are leveraged to advance the strategies
- Help set the desired Future State mileposts
Tactical/Project Engagements:

- They can also drive maturity in related areas
Tactical/Project Engagements:

We need better Java software development tooling to help automate and manage this project.

We need an Data & API management framework to help us automate the data flows.

We need monitoring tools to keep watch over all this stuff.
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We need an Data & API management framework to help us automate the data flows.

We need monitoring tools to keep watch over all this stuff.

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**Tactical/Project Engagements**

- Better Java software development tooling
- Data & API management framework
- Monitoring tools

**Strategic Roadmap Development**

- Standardized Java Software Development Lifecycle Management Tools (SDLC Tools)
- Standardized Code / Container Management Tools
- API and Integration Toolkit
- Common Monitoring Service
We need better Java software development tooling to help automate and manage this project.

We need an Data & API management framework to help us automate the data flows.

We need monitoring tools to keep watch over all this stuff.

These bring velocity, agility and rigor to UW-IT.

- Standardized Java SDLC Tools
- Standardized Code / Container Management Tools
- API and Integration Toolkit
- Common Monitoring Service

Tactical/Project Engagements

Strategic Roadmap Development
7 Distinct but linked Initiatives under EA
The goals of EA are:

- to drive these seven strategic initiatives,
- link them to the business strategy, and
- define the impacts of making tradeoffs in any one of them.
The Horizontal Nature of EA

- Common Enterprise Integration Platform
- Common Metadata Mapping & Metadata Tool
- Common Security Model Abstraction
- Standardized Java SDLC Tools
- Container Management Tools
- WS02
- Monitoring Service
While keeping the original tactical / project goals in sight.

- Extract the data and make it available to campus via a variety of end-points.
- Capture the new data definitions and data mappings.
- Remap the security and access controls.

HR/P Enterprise Integration Platform

HR/P Metadata Mapping & Metadata Tool

HR/P Security Model Abstraction
EA Activities and Alignment

http://wiki.cac.washington.edu/display/EA/EA+Activities+and+Alignment
EA Practice Maturation
<table>
<thead>
<tr>
<th>Level 1: Nonexistent</th>
<th>Level 2: Reactive</th>
<th>Level 3: Functioning</th>
<th>Level 4: Integrated</th>
<th>Level 5: Ubiquitous</th>
</tr>
</thead>
<tbody>
<tr>
<td>EA team created</td>
<td>Initial deliverables created</td>
<td>Second iteration of EA development</td>
<td>Repeatable EA process defined</td>
<td>EA drives change</td>
</tr>
<tr>
<td>Initial technical deliverables planned</td>
<td>Governance defined</td>
<td>Key metrics defined</td>
<td>Processes integrated</td>
<td>Stakeholder perceptions high</td>
</tr>
<tr>
<td>Development planned</td>
<td>EA team trained</td>
<td>Projects compliance is high</td>
<td>Broad support</td>
<td>EA process inherent to business and IT operating model</td>
</tr>
<tr>
<td>Stakeholders aware of EA</td>
<td>EA tool usage</td>
<td>Communication program in place</td>
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</table>
To rise to the challenge of enterprise architecture's mission amid fundamental corporate IT shifts, EA groups must address six functional priorities:

- Era I–Era II: Enterprise architecture evolved from an infrastructure focus to a full-stack purview.
- Era II–Era III: EA continues to evolve, not only to optimize the technology portfolio but to drive business capability enablement.
- Practices listed in each era would be considered "mature" in their time.

<table>
<thead>
<tr>
<th>Work Products</th>
<th>ERA I: TECHNICAL ARCHITECTURE</th>
<th>ERA II: IT PORTFOLIO ARCHITECTURE</th>
<th>ERA III: ENTERPRISE ARCHITECTURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mandated external oversight</td>
<td>Standardized artifacts</td>
<td>EA services</td>
<td></td>
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<tr>
<td>Project Engagement</td>
<td>Technology-centric</td>
<td>Reactive corrective engagement</td>
<td>Triaged involvement</td>
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<tr>
<td>Business Enablement</td>
<td>Infrastructure standardization</td>
<td>Application portfolio management</td>
<td>Capability-centric</td>
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<tr>
<td>IT Portfolio Planning</td>
<td>Standard setting and enforcement</td>
<td>Service-oriented architecture optimization</td>
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<tr>
<td>Portfolio Stewardship</td>
<td>De facto vendor standards</td>
<td>Proactive governance through reference architecture</td>
<td></td>
</tr>
<tr>
<td>Talent</td>
<td>Domain/platform expertise</td>
<td>Cross-stack technical depth</td>
<td>Cross-functional hybrid skills</td>
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</table>

2000-2004 2005-2011 2012 and Beyond
3 - 5 End-To-End EA Services

Triage EA Involvement

Capability-centric Focus

Service-oriented Architecture Optimization

Proactive Gov. through Ref. Architecture

Cross-functional hybrid skills
3 - 5 End-To-End EA Services

Triage EA Involvement

Proactive Gov. through Ref. Architecture
EA Service Team

- EA Services: 3 to 5 End-to-End Services
- Self Assessment Tools
- Reference Architecture Program
Three Broad Foci of EA

Tactical/Project Engagements

Strategic Roadmap Development

EA Practice Maturation
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