

## Introduction and Consent

**Thank you for agreeing to participate in our survey, which aims to acquire a deeper understanding of Enterprise Architecture (EA) in higher education (HE) institutions. We want to learn more about the motivations, methods, tools, success factors, challenges and impacts of EA in HE. This survey follows up on a series of interviews that we have already conducted with enterprise architects and CIOs working in higher education.**

**This survey is being conducted by Aliaa Alghamdi, PhD student at the University of Ottawa, Canada, and her supervisor Dr. Timothy Lethbridge.**

**The survey should only take 20-25 minutes to complete. Be assured that all your responses will be kept strictly confidential.**

**If you have any questions with regards to the ethical conduct of this study, you may contact the Protocol Officer for Ethics in Research, University of Ottawa:  
[ethics@uottawa.ca](mailto:ethics@uottawa.ca)**

**We really appreciate your input!**

**If you would like more information before consenting, you may [click here to view our complete consent Form](#).**

\* 1. Do you consent to participate in this survey?

\* By clicking Yes, you consent that you are willing to answer the survey, but you always retain the right to withdraw at any time.

- Yes  
 No

## General Information

\* 2. What is your country?

\* 3. Is your institution public or private?

- Public (obtains core funding from a government, and is subject to government regulation)  
 Private

\* 4. How many students (undergraduate and graduate) are enrolled in your institution?

- Less than 5,000 (Small)  
 Between 5,000 and 15,000 (Medium)  
 Between 15,000 and 40,000 (Large)  
 More than 40,000 (very large)

\* 5. Is Enterprise Architecture (EA) implemented in your institution?

- Yes, it is known as Enterprise Architecture  
 Yes, but it is known with a different name  
 Maybe, partially or unsure: Aspects of Enterprise architecture may be in place  
 No, but we have a plan to adopt it  
 No, and we do not have a plan to adopt it

## Reasons for Not Adopting Enterprise Architecture at Your Institute

6. Please indicate the extent to which each of the following is a factor explaining why your institution is not planning on adopting enterprise architecture?

	Not a factor	A minor factor	A significant factor	A major factor
Senior management does not support it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
IT team(s) do not support it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other potential stakeholders do not support it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The university is too decentralized	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
University finances are too limited	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The university has other processes in place to manage its assets, information and processes that ma	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There is a desire to keep the amount of administrative work as small as possible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Nobody has seriously thought about it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Relevant people have not yet learned enough about it	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Staff are too busy with other tasks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The university is too small, so it is considered unnecessary	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
We have heard about failures of EA (or experienced them)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
We are unable to hire sufficiently-knowledgeable staff	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

### General Overview of Your Institute

\* 7. How centralized is your institution?

- Single campus
- Single campus but with independent colleges (or similar)
- Multi-campus

\* 8. How centralized is your institution with regarding to its Information Technology (IT) team?

- There is a central IT team that does most of the IT work
- There is a central IT team, but some of the work is distributed to departments, units, colleges or campuses
- There is a central IT team but most IT work is distributed
- Almost all IT work is distributed

### Definition of Enterprise Architecture

9. In your opinion, to what extent do each of the following definitions will apply to EA in your institution? Each of these definitions come either from the literature or from our interviews with Enterprise Architects. Enterprise Architecture is:

	Does not apply at all	Somewhat applies	Strongly applies
A digital representation of the organization's business and information technology landscape	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A process of understanding the different elements that go to make up the enterprise and how those elements are inter-related.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A master plan that "acts as a collaboration force" between aspects of business planning, business operations, automation, and enabling technological infrastructure.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A discipline for proactively and holistically leading enterprise responses to disruptive forces by identifying and analyzing the execution of change toward desired business vision and outcomes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A strategic information asset base, which defines the 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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A formal description of the current and future state(s) of an organization, and of managed change between these states to meet organization's stakeholders' goals and to create value in the organization.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

### Motivations and Objectives For Enterprise Architecture

10. For each of the following motivations and objectives for Enterprise Architecture, please indicate the extent to which it is important for your institution:

	Not Important At All	Slightly Important	Moderately important	Very Important	Absolutely Essential
EA is mandated by government for public sector organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To align the university's business and IT sectors.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To rationalize and simplify, including reducing duplication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To reduce costs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To enable decision making to be data driven	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To enable the institution to be more adaptable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To be able to undertake digital transformation and to improve automation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To align projects with the university's goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To better leverage university assets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

### Models Used

11. To what extent do you manage each of the following kinds of models even if they are not under the enterprise architecture umbrella?

	Not at all	Somewhat	Moderately	A lot	Extensively
Enterprise models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Organization charts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Business process models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Capability models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Application models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Network models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
IT hardware models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Service and interface models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Security models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

## EA Principles

12. For each of the following general principles, please indicate the extent to which it is important for your institution:

	Not Important At All	Slightly Important	Moderately important	Very Important	Absolutely Essential
Maximize the benefits to the university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Orient the architecture to provision of services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure the continuity and recoverability of critical university operations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure compliance with laws, standards and policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enable a holistic approach	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enable partnership between business units and IT units	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus on the performance of the organization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus on efficiency of using resources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Be digitally integrated	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enable quick, accurate decision making support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enhance simplicity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure the architecture is maintainable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure elements of the architecture are measurable.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Align decisions and architecture with the strategic mission, vision and values of the University.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enable a single federated enterprise-wide architecture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Be agile	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Base change on careful requirements analysis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Be responsive to stakeholders as their needs change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

13. For each of the following data management principles, please indicate the extent to which it is important for your institution:

	Not Important	Slightly Important	Moderately important	Very Important	Absolutely Essential
Data is an asset	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data is shared	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There is a common vocabulary and definitions for data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data is reused: duplication of data should be avoided	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data is accessible, available and discoverable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data is kept secure, and security risks are managed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data is under the control of a trustee	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There are policies and data management guidelines for data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

14. For each of the following technology management principles, please indicate the extent to which it is important for your institution:

	Not Important	Slightly Important	Moderately important	Very Important	Absolutely Essential
Applications must be easy to use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure end users can perform their work as efficiently as possible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design solutions such that they are "good enough" in order to minimize costs and maximize value	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use or try out applications and technologies before buying	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Buy instead of building	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prefer open solutions to commercial solutions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Configure instead of customizing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Control technical diversity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure applications are independent of specific technology choices (e.g. databases, browsers, operating systems)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Avoid vendor lock-in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Align with multiple products from a single vendor to best leverage that vendor's ecosystem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure the interoperability of technological components	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comply with technological standards and policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

15. If there are any very important principles that are not in the above lists, please provide them:

16. In your opinion, to what extent is each of the following considered to be success factors in the EA process?

	Irrelevant	Somewhat unimportant	Moderately important	Very important	Critical
Having top management support, commitment & sponsorship	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Having a good EA Team	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding EA stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Buy-in of the EA from stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaboration among EA team members	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaboration with senior management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaboration with different departments and units	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Usefulness, transparency & openness of EA itself	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Availability of data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Clarity of EA vision, goals, and objectives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Support of the university's mission and goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communication and awareness of EA among all stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Having a good set of EA principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Following the defined EA principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Following a disciplined EA process	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conformance of the architecture to standards	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adding value to the institution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Supportability and maintainability of the technological solutions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

17. In your opinion, to what extent is each of the following considered to be success factors for individual EA team members? (These might be assessed when hiring or promoting such team members)

	Irrelevant	Somewhat unimportant	Moderately important	Very important	Critical
Has good interpersonal skills: Listens well and effectively manages conflicts with others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Has a high level of education and training in EA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Has a deep knowledge of higher education in general	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Has a background in this particular institution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understands the mission of the university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understands EA stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understands the principles of EA adopted by the institution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicates well with stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Integrates well with other EA team members	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Helps ensure the EA team is doing the right work in the right manner at the right time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Helps ensure the EA team is targeting the right goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deeply understands their domain(s)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understands the perspectives and domains of other team members	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Is able to adapt effectively to change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

### Challenges in EA

\* 18. In your opinion, to what extent does each of the following pose a challenge to EA?

	A				
	Not a problem	A minor problem	moderate problem	A major problem	A critical problem
Resistance to change (fixed mindsets and habits)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Resistance to improvement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of higher education experience by EA leadership or the CIO	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Frequent changes to management structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Changes to EA team members resulting in loss of corporate knowledge or experience	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Changes to EA leadership resulting in changes of direction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of awareness of EA among university leadership and other stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EA immaturity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Difficulty in realizing, showing and delivering EA value	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rigidity of university policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Difficulty in hiring people for EA jobs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Insufficient background among EA team members to do required work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bad reputation of EA among stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of trust in EA by stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of leadership skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of communication skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of collaboration with other university units and stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Misunderstanding of EA language & terminology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus too much on business aspects and not enough on IT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus too much on IT and not enough on business aspects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Barriers between EA and other business units	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not enough time to work on EA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not enough budget for EA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of organization buy-in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of openness (not inviting a broad spectrum of stakeholders to engage)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not meeting the university's goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Excessive decentralization of the university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Excessive centralization of the university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stakeholders only caring about tangible benefits of EA but not EA itself	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of linkages among different types of EA information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
More demand for EA than what the EA team can support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EA is not sufficiently helping the IT team to keep up with change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poor inter-personal relationships with stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Difficulty in realizing cost-saving or other benefits of EA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Different perspectives and opinions from stakeholders on what they need and what they want to achieve	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)



## General Overview of EA at Your Institution

\* 19. Which of the following best characterizes the state of implementation of EA in your organization?

- Very early development, and relatively immature
- Established and has had a positive impact, but still being actively developed
- Established but has not had much impact on the institution or has not been successful yet
- Mature and is having a significant impact
- Was established but is winding down or is having less impact

\* 20. Are you planning to continue your Enterprise Architecture work in the coming years?

- Yes, and we expect to put increasing effort into it
- Yes, and we expect the amount of effort to remain at current levels
- Yes, but we expect to somewhat reduce the amount of EA effort in the institution
- No, we are (or will be) winding our EA work down

\* 21. Which organizational model of EA best fits your institution?

- Informal/ Ad hoc architecture (no formal architecture group. Individuals acting as ad hoc architects in their areas)
- Isolated Architecture (a "more formal" architecture group but that group is focused on one or two departments)
- Limited Central Architecture (a central architecture group but with limited interaction in select areas and projects across campus or campuses)
- Federated Architecture (Architecture groups or individuals around campus or campuses working together to form a "enterprise architecture" group)
- Head Architect with Domain Architects (like federated but with a central lead architect(s) orchestrating the federation)
- Central Architecture (a core group of architects that review all projects in the institution)
- Other (please specify)

22. What is the size of the EA team? (people who focus on EA only; not including people who focus on IT or related work)

- Less than one (it is a part time role, or the persons responsible have other tasks)
- 1
- 2-3
- 4-6
- More than 6

23. The head of the EA team (or those in charge of EA) reports to:

- Senior administration (such as the President or Provost) directly
- CIO (Chief Information Officer) or similar
- A manager of a business-focused group such as a director of planning
- An IT manager (below the CIO level)
- A manager of a specialized IT area such as security
- Other (please specify)

\* 24. How centralized is your institution?

- Single campus
- Single campus but with independent colleges (or similar)
- Multi-campus

\* 25. How centralized is your institution with regarding to its Information Technology (IT) team?

- There is a central IT team that does most of the IT work
- There is a central IT team, but some of the work is distributed to departments, units, colleges or campuses
- There is a central IT team but most IT work is distributed
- Almost all IT work is distributed

26. In your opinion, to what extent do each of the following definitions apply to EA in your institution? Each of these definitions come either from the literature or from our interviews with Enterprise Architects. Enterprise Architecture is:

	Does not apply at all	Somewhat applies	Strongly applies
A digital representation of the organization's business and information technology landscape	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A process of understanding the different elements that go to make up the enterprise and how those elements are inter-related.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A master plan that "acts as a collaboration force" between aspects of business planning, business operations, automation, and enabling technological infrastructure.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A discipline for proactively and holistically leading enterprise responses to disruptive forces by identifying and analyzing the execution of change toward desired business vision and outcomes.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A strategic information asset base, which defines the 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.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
A formal description of the current and future state(s) of an organization, and of managed change between these states to meet organization's stakeholders' goals and to create value in the organization.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\* 27. For each of the following motivations and objectives for Enterprise Architecture, please indicate the extent to which it is important for your institution:

	Not Important	At All	Slightly Important	Moderately important	Very Important	Absolutely Essential
EA is mandated by government for public sector organizations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To align the university's business and IT sectors.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To rationalize and simplify, including reducing duplication	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To reduce costs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To enable decision making to be data driven	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To enable the institution to be more adaptable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To be able to undertake digital transformation and to improve automation	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To align projects with the university's goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
To better leverage university assets	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)



## Models and Tools Used in Enterprise Architecture

30. To what extent do you manage each of the following kinds of models in your EA process?

	Not at all	Somewhat	Moderately	A lot	Extensively
Enterprise models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Organization charts	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Business process models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Capability models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Application models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Network models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
IT hardware models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Service and interface models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Security models	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

\* 31. To what extent do you use each of the following tools to manage your EA?

	Do not use	Use a little	Use moderately	Use extensively
Generic drawing or diagramming tools (e.g. Visio, Lucidchart)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Spreadsheet tools (e.g. Excel, Google sheets)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Text editors or word processors (e.g. Word, Google docs, Wikis)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Presentation tools (e.g. Powerpoint)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Archimate	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
iServer by Orbus Software	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enterprise Architect by Sparx Systems	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Abacus by Avolution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
erwin EA by erwin	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Insight EA by FIOS Insight	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Cameo Enterprise Architecture by No Magic	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Casewise Modeler by Casewise	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
BiZZDesign Enterprise Studio by BiZZDesign	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
HOPEX by MEGA International	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
IBM Rational System Architect	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other software or system modeling tools (e.g. Papyrus)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data management tools (e.g. Google Data Studio)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Other specially designed business modeling tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

## Pros and Cons of Specific Tools Used in EA

32. What do you like about the tool(s) that you selected in the last question?

Generic	Supports our EA framework(s)	Integrates with other tools	Cross-platform (e.g. Windows and Mac)	Cost effective	Supports EA standards	Easy to use	Facilitates collaborating, sharing & communication	Helps maintain consistency of information	Produces good and understandable model representations	Validates models and diagrams	Manages specific representations and diagrams we need	Integrates with a central repository
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drawing or diagramming tools (e.g. Visio, Lucidchart)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Spreadsheet tools (e.g. Excel, Google sheets)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Text editors or word processors (e.g. Word, Google docs, Wikis)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Presentation tools (e.g. Powerpoint)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Archimate	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
iServer by Orbus Software	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enterprise Architect by Sparx Systems	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Abacus by Avolution	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
erwin EA by erwin	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Insight EA by FIOS Insight	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Cameo Enterprise Architecture by No Magic	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Casewise Modeler by Casewise	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
BiZZDesign Enterprise Studio by BiZZDesign	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
HOPEX by MEGA International	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
IBM Rational System Architect	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other software or system modeling tools (e.g. Papyrus)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Data management tools (e.g. Google Data Studio)	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Other specially designed business modeling tools	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

33. What do you dislike about the tool(s) that you use? (you may have to scroll right to see all columns)

Not suited                                      Does                                      Can not automatically                                      Makes it hard to                                      Does not



## EA Principles

\* 34. For each of the following general enterprise architecture principles, please indicate the extent to which it is applied in your organization

	Not applied at all	Considered sometimes	Important but informally applied	This is similar to one of our organization's formal EA principles
Maximize the benefits to the university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Orient the architecture to provision of services	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure the continuity and recoverability of critical university operations	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure compliance with laws, standards and policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enable a holistic approach	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enable partnership between business units and IT units	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus on the performance of the organization	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus on efficiency of using resources	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Be digitally integrated	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enable quick, accurate decision making support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enhance simplicity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure the architecture is maintainable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure elements of the architecture are measurable.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Align decisions and architecture with the strategic mission, vision and values of the University.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Enable a single federated enterprise-wide architecture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Be agile	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Base change on careful requirements analysis	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Be responsive to stakeholders as their needs change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\* 35. For each of the following data management principles, please indicate the extent to which is applied in your enterprise architecture

	Not applied at all	Considered sometimes	Important but informally applied	This is similar to one of our organization's formal EA principles
Data is an asset	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data is shared	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There is a common vocabulary and definitions for data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data is reused: duplication of data should be avoided	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data is accessible, available and discoverable	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data is kept secure, and security risks are managed	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Data is under the control of a trustee	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There are policies and data management guidelines for data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\* 36. For each of the following technology management principles, please indicate the extent to which is applied in your enterprise architecture

	Not applied at all	Considered sometimes	Important but informally applied	This is similar to one of our organization's formal EA principles
Applications must be easy to use	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure end users can perform their work as efficiently as possible	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Design solutions such that they are "good enough" in order to minimize costs and maximize value	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Use or try out applications and technologies before buying	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Buy instead of building	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Prefer open solutions to commercial solutions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Configure instead of customizing	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Control technical diversity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure applications are independent of specific technology choices (e.g. databases, browsers, operating systems)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Avoid vendor lock-in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Align with multiple products from a single vendor to best leverage that vendor's ecosystem	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Ensure the interoperability of technological components	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Comply with technological standards and policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

37. If there are any very important principles that are not in the above lists, please provide them:

38. If there is a resistance to following an EA principle please describe the nature of this resistance

39. To what extent do your EA principles affect the flexibility of the architecture:

- Reduce flexibility a lot
- Reduce flexibility a little
- Has no effect
- Increase flexibility a little
- Increase flexibility a lot



\* 40. To what extent do you consider each of the following to be success factors in your EA process?

	Irrelevant	Somewhat unimportant	Moderately important	Very important	Critical
Having top management support, commitment & sponsorship	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Having a good EA Team	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understanding EA stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Buy-in of the EA from stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaboration among EA team members	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaboration with senior management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Collaboration with different departments and units	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Usefulness, transparency & openness of EA itself	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Availability of data	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Clarity of EA vision, goals, and objectives	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Support of the university's mission and goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communication and awareness of EA among all stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Having a good set of EA principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Following the defined EA principles	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Following a disciplined EA process	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Conformance of the architecture to standards	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Adding value to the institution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Supportability and maintainability of the technological solutions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

\* 41. To what extent do you consider each of the following to be success factors for individual EA team members? (These might be assessed when hiring or promoting such team members)

	Irrelevant	Somewhat unimportant	Moderately important	Very important	Critical
Has good interpersonal skills: Listens well and effectively manages conflicts with others	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Has a high level of education and training in EA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Has a deep knowledge of higher education in general	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Has a background in this particular institution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understands the mission of the university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understands EA stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understands the principles of EA adopted by the institution	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Communicates well with stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Integrates well with other EA team members	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Helps ensure the EA team is doing the right work in the right manner at the right time	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Helps ensure the EA team is targeting the right goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Deeply understands their domain(s)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Understands the perspectives and domains of other team members	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Is able to adapt effectively to change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

\* 42. To what extent does each of the following pose a challenge to your EA?

	A				
	Not a problem	A minor problem	moderate problem	A major problem	A critical problem
Resistance to change (fixed mindsets and habits)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Resistance to improvement	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of higher education experience by EA leadership or the CIO	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Frequent changes to management structure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Changes to EA team members resulting in loss of corporate knowledge or experience	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Changes to EA leadership resulting in changes of direction	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of awareness of EA among university leadership and other stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EA immaturity	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Difficulty in realizing, showing and delivering EA value	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Rigidity of university policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Difficulty in hiring people for EA jobs	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Insufficient background among EA team members to do required work	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Bad reputation of EA among stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of trust in EA by stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of leadership skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of communication skills	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of collaboration with other university units and stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Misunderstanding of EA language & terminology	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus too much on business aspects and not enough on IT	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Focus too much on IT and not enough on business aspects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Barriers between EA and other business units	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not enough time to work on EA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not enough budget for EA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of organization buy-in	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of openness (not inviting a broad spectrum of stakeholders to engage)	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Not meeting the university's goals	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Excessive decentralization of the university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Excessive centralization of the university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Stakeholders only caring about tangible benefits of EA but not EA itself	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Lack of linkages among different types of EA information	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
More demand for EA than what the EA team can support	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EA is not sufficiently helping the IT team to keep up with change	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Poor inter-personal relationships with stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Difficulty in realizing cost-saving or other benefits of EA	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Different perspectives and opinions from stakeholders on what they need and what they want to achieve	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)



44. Pick up to 10 of the most prominent changes that have been made to EA at your university since its establishment

- Setting up an architecture board
- Making an architecture board open to everyone
- Doing a lot of self-evaluation
- Doing a lot of self-assignment
- Moving from being reactive to being proactive
- Growing the EA team substantially
- Building community to work closely with other university's departments
- Acquiring new skills
- Adopting amore agile approach to EA
- More meetings among team members
- More meetings with stakeholders
- More support from leadership of the university
- Pushing for "enterprise thinking"
- Increasingly informing technology and business decisions
- Making the EA process more disciplined
- Formalizing rules and responsibilities
- Reviewing the terms of reference
- Increasing focus on Information and technology management
- Increasing focus on application and technology domains within IT unit(s)
- Adjusting from working mostly on projects to leading strategies
- More focus on key investments
- Working as a service unit
- Increasing ability to share information across different systems
- Becoming more motivated by visions derived from business units
- Better defining EA program needs and goals
- Deepening, broadening or increasing the validity of the overall architecture
- Building virtual groups of architects and business analysts
- No changes have been made
- Other (please specify)

## Agility

\* 45. To what extent do you feel your EA process is agile (agility means that the models can be easily changed, and that the EA can help the organization make rapid changes if needed)?

- Not agile at all
- Slightly agile
- Moderately agile
- Very agile
- Extremely agile

46. For the following aspects, please indicate how each of them affects the agility of EA at your institution?

	Decreases agility a lot	Decreases agility a little	Has no effect on agility, or is not a factor at this institution	Increases agility a little	Increases agility a lot
Formal and strict EA process	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Security concerns regarding information and IT infrastructure	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
Requirements for considerable consultation before making changes	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The EA process is pinned to the university's budgetary cycle	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The university has a large number of policies, or complex policies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There is resistance to change in university management	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The EA process is loosely defined	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
IT processes are not mature	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
No process has been developed for how to perform EA in an agile manner	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There is a large amount of documentation to maintain	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EA team works in sprints	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EA team is very small	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The university is very large	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The EA team must consider a large number of applications and technologies	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The EA team is involved in a large number of initiatives and projects	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EA team works across every aspect of the university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EA team has regular meetings with stakeholders	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The whole university is organized with agility in mind	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The EA team has a vision for adaptability in the university	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EA is developed in a stepwise and pragmatic manner	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The university performs frequent review of policies and directions	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
There is a flexible mindset regarding adoption of new technologies that might fit into the overall architecture	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The EA team applies the "just-enough architecture" principle to limit the volume of information they manage, or scale it down	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EA is driven by business issues and is responds quickly to the needs of business units	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The EA team does careful planning before taking any action	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
EA frameworks are used as a guide but do not need to be followed closely	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
New software developed in the university is created using agile software development methods	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The EA team works towards a more streamlined process with fewer tools	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The EA team carefully prioritizes tasks	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>
The EA framework(s) used do not support agility	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>

Other (please specify)

47. Please provide any other comments you may have relating to the questions about EA in this Survey