MACRAO CONFERENCE-2018

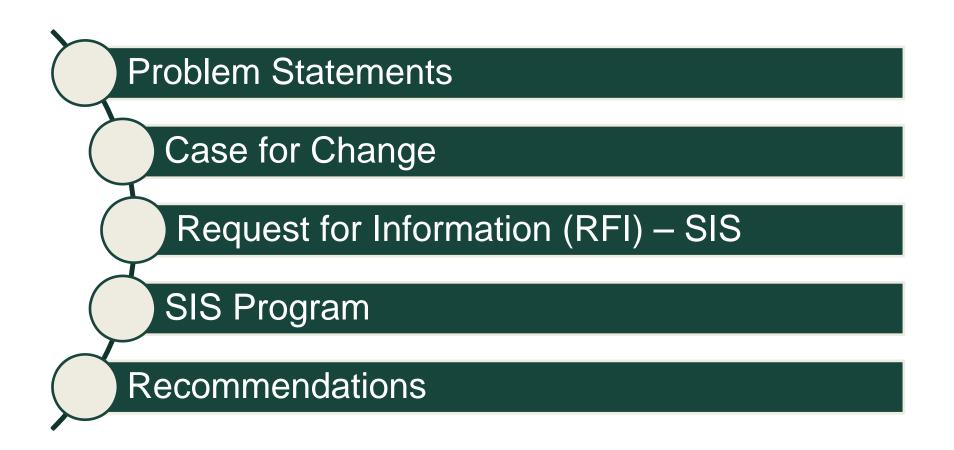
Student Information Systems (SIS)—Present and Future: the Good, the Bad, the Ugly

November 16, 2018



MICHIGAN STATE UNIVERSITY





Problem Statements

Problem Statements

1. Student Experience is the principal differentiator for higher education institutions. Many students believe their journey is **highly fragmented** and **lacks personalization**.

2. Systems to measure, support, and enhance student success are **not integrated and limit** the ability to be implemented and utilized holistically.

3. Decision makers find it **difficult** to extract and use actionable data, **inhibiting** strategic planning and daily operations.

4. MSU's SIS has become a portfolio of legacy technologies that do **not adequately support current business needs**

5. Many applications are past **end of life**. 50% of MSU staff, who are critical resources supporting SIS, are **retirement eligible** posing a significant risk to maintaining our current system.

Problem Statements

Case for Change

is 🔪

S Program

Recommendations

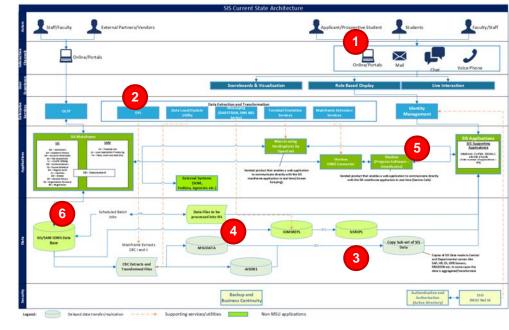
SIS Portfolio – Pain Points

1. STUDENT EXPERIENCE

User experience for front end SIS applications is not seamless across devices and support for mobility and social channels is limited

2. OPERATIONAL EFFICIENCY

Multiple data extraction services/utilities are required to access SIS mainframe data creating a non integrated and complex solution



SIS Current State Architecture

3. DATA USABILITY

Data available for use by supporting applications is not updated in real time creating inconsistency of information between business units/users

5. ENTERPRISE ARCHITECTURE

Interaction with the mainframes cannot be enabled through user friendly interfaces without the use of additional middleware increasing costs and risks

4. DATA EFFICIENCY

SIS mainframe data is replicated multiple times reducing data integrity and increasing the risk of data leaks

170	olem	IS G	612	100	110
		ાતા			

Case for Change

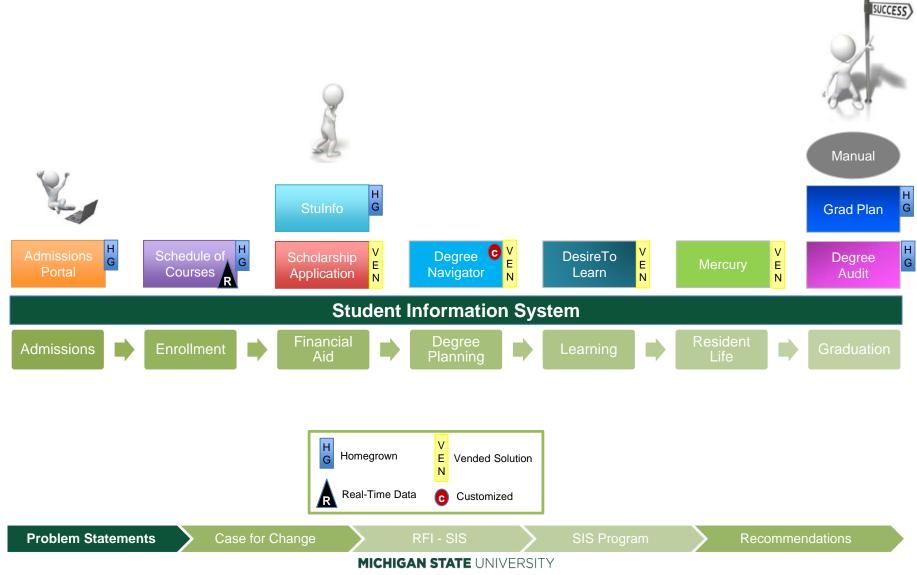
RFI - SIS

MICHIGAN STATE UNIVERSITY

6. TECHNICAL SKILLSET Hiring and retaining staff skilled in antiquated

programming language and willing to understand and work on legacy systems is a challenge

Current MSU Student Experience (Example)



Case For Change

MICHIGAN STATE UNIVERSITY

MSU Six Imperatives

MICHIGAN STATE UNIVERSITY 2013-2020



1. ENHANCE THE STUDENT EXPERIENCE by expanding opportunities for where, when, and how students learn and increasing the value of an MSU degree.

2. ENRICH COMMUNITY, ECONOMIC, AND FAMILY LIFE through research, outreach, engagement, entrepreneurship, innovation, diversity, and inclusiveness.

3. **EXPAND INTERNATIONAL REACH** through academic, research and economic development initiatives, and strategic alliances.

4. **INCREASE RESEARCH OPPORTUNITIES** by expanding funding to support high-impact scholarship and research.

5. STRENGTHEN STEWARDSHIP by nurturing the university's financial assets, campus environment, infrastructure, and people.

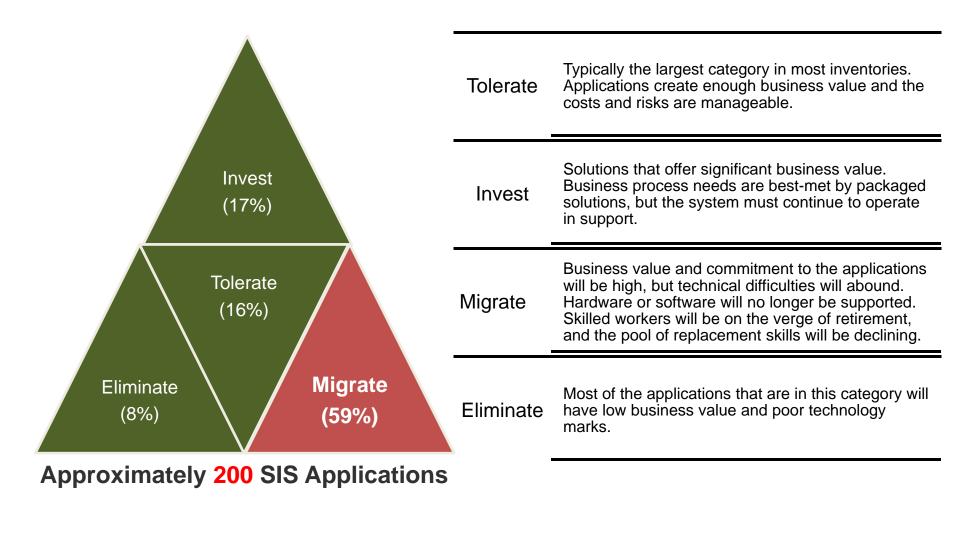
6. ADVANCE OUR CULTURE OF HIGH PERFORMANCE by elevating the quality and effectiveness of every product and process.

SIS Portfolio – Business Challenges

Recruitment	 ◆ High Support Effort ◆ Dependency for Change 		
Financial Aid	 Lack of Real Time Data In Holistic Environment Upgrade in Progress 		
Admissions and Enrollment	 Timely Reporting for Data Analysis Data Transfer Risks Changing Business Needs 		
Financials Processing	 Compliance Risk Due to Manual Assessment of Special Fees Student Financial Data Unavailable Due to Silos and Dependency 		
Student Success	 Proactively Engage Students Academic Compliance Reporting Mgmt. Early Decision-Making Coordinated Care 		
Information Management	 Foreign Student Location Tracking Compliance Risk Limited Vendor Support for Key Functionality 		
Technology and IT Services	 Operational Risk Resources Batch Based Processing Multiple Systems for Data Access 		

Problem Statements	Case for Change	RFI - SIS	SIS Program	Recommendations
		MICHIGAN STATE UNIVER	RSITY	

SIS Portfolio – Functionality and Risk Assessment



Student Information System – Request For Information (RFI)

SIS – Guiding Principles

Student Experience

Student Success and Analytics

Capability Advancement

Operational Efficiency

Data Usability, Efficiency, and Governance

Enterprise Architecture

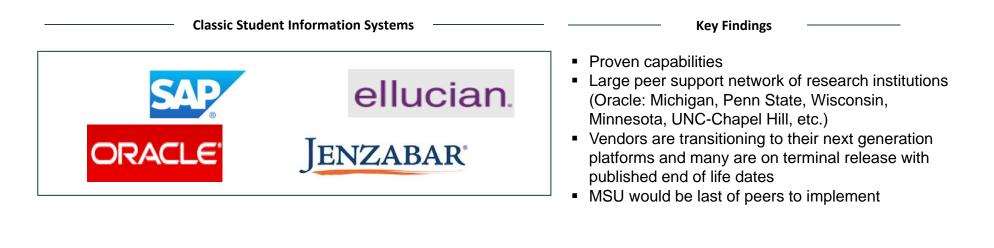


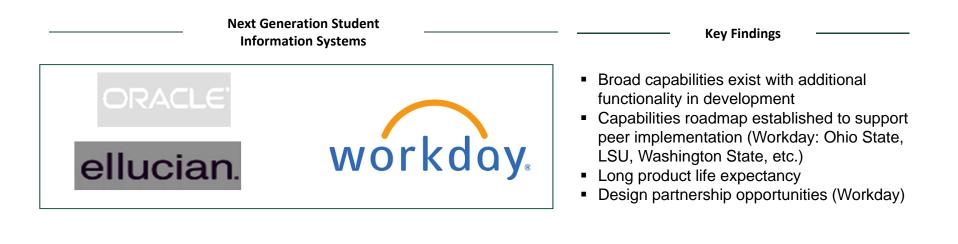
SIS RFI Cross-Functional Participants

Admissions	Controller's Office	Financial Aid
Graduate School	Registrar's Office	Information Technology Services
Planning and Budgets	Student Affairs	Undergraduate Education



SIS Request for Information – Key Findings





Problem Statements	Case for Change	RFI - SIS	SIS Program	Recommendations
		MICHIGAN STATE UNIVER	SITY	

Student Information System Program

MICHIGAN STATE UNIVERSITY

SIS Program Projects

SIS Readiness

- Organizational Change Management
- Vendor Engagement(s)
- Current State Process
 Mapping/Requirements
- Establish Project Governance

SIS Augmentation

- Admissions CRM
 Implementation
- Health Unified System
 Implementation
- Degree Audit and Academic Planning Implementation

SIS Implementation

• NextGen OR Classic



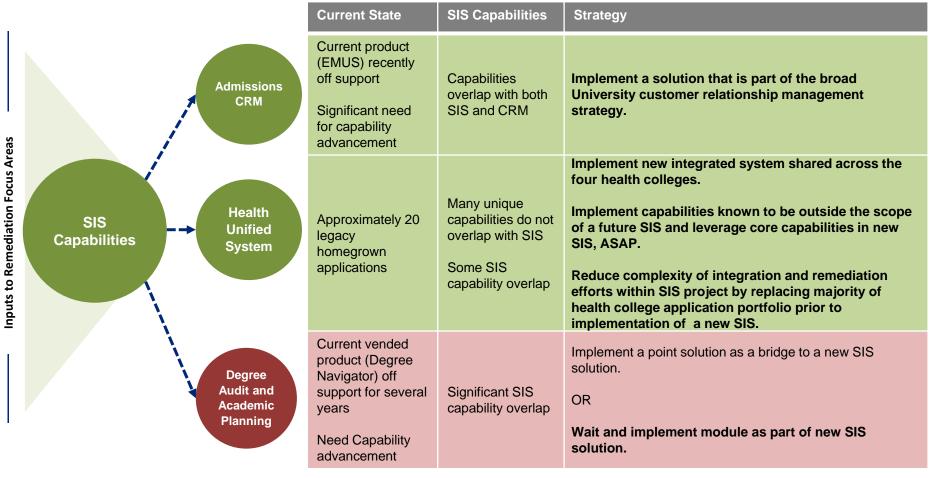
SIS Program – SIS Readiness Project

Project

Scope	 Organizational Change Management Current State Mapping & Policy/Process Pain Point Identification Requirements Definition Solution & Services RFP, Selection and Procurement Peer and Vendor Engagement Data Access, Reporting, and Integration Planning Implementation Project Planning Develop Project Governance Structure
Reasons to Select	 MSU culture requires preparation to successfully implement with minimal customizations MSU current state cannot be quickly provided to services consultant during implementation (e.g., minimal documentation and/or detailed subject matter expertise) MSU desires to select solution and services partners through RFP process MSU requires more detailed information to finalize solution approach Future data and integration strategies are not established
Benefits	 Prepares the University and core project team for implementation by providing a dedicated focus on activities needed for success
Risks	 Classic (e.g., Oracle Campus Solutions) solutions may no longer available to MSU at the time of RFP

P	roblem Statements	Case for Change	\rangle	RFI - SIS		SIS Program	Recommendations	
			MICHI	IGAN STATE UNIVER	SITY			

SIS Augmentation – FY2019 Considerations



As a SIS replacement implementation is scheduled, final SIS augmentation initiatives must meet one of the following criteria:

1) Provide capabilities outside the scope of a future SIS solution and reduce complexity to the SIS application portfolio

2) Address an immediate need and provide near-term return on investment

 Problem Statements
 Case for Change
 RFI - SIS
 SIS Program
 Recommendations

 MICHIGAN STATE UNIVERSITY

SIS Program – Augmentation

Admissions CRM

Health Unified System

Scope	Implement TargetX (Salesforce) , a modern recruitment and admissions solution to support University admissions goals	Implement MedHUB for the four health colleges
Reasons to Select	 Capabilities are needed immediately to support University recruitment and admissions goals Needed capabilities are out of scope of SIS Solution will reduce integration complexity during SIS implementation Current solution has high risk profile (e.g., security, operational failure) 	 Policies and processes will be optimized across 4 colleges Required capabilities are out of scope of SIS Solution will reduce integration complexity during SIS implementation Current solution has high risk profile (e.g., security, operational failure)
Benefits	 Provides capability advancement in the near-term Reduces integration complexity during SIS implementation 	 Optimizes policies and processes across 4 health colleges Provides capability advancement in the near-term to 4 colleges Reduces integration complexity during SIS implementation
Risks	 Future SIS solution may result in duplication of capabilities 	 Future SIS solution may result in duplication of capabilities



SIS Program – SIS Implementation

	Classic	NextGen
Scope	Implement the terminal release of Oracle Campus Solutions and leverage the mature and proven capabilities of the platform	Join design partnership with Workday and be among the first large institutions to implement a SIS
Reasons to Select	See Decision Criteria slide	See Decision Criteria slide
Benefits	 Advancing Capabilities: Most mature capabilities Existing Peers: Large peer base Student Experience: Recent self-service and mobile redesign Operational Efficiency: Integrated core capabilities with known bolt-on requirements 	 Advancing Capabilities: Significant capability investments planned; capabilities continuously and immediately available Student, Faculty, and Staff Experience: Mobile first Operational Efficiency: Highly configurable design provides promise of reduction of bolt-on needs System Availability: High availability by design Enterprise Architecture: Upgrades and disaster recovery managed by the vendor; potential alignment with impending Human and Capital Management reimplementation
Risks	 Terminal Release – Vendors no longer investing and end of life dates have been published Capabilities – Similar to Current Platform Faculty and Staff Experience – Non-staff user experience not fully addressed in recent release Enterprise Architecture – Potential alignment with impending Human and Capital Management reimplementation 	 Developing Product – Essential capabilities are not delivered as promised resulting in project cost overruns Small Growing Userbase for SIS

Decision Criteria

Classic

- <u>Cost</u>: control short-term costs
- <u>Time</u>: known time to delivery
- Capability: guaranteed functionality to fulfill the needs of today
- <u>Culture</u>: If we believe stakeholders' demands for customization cannot be controlled, classic is a costly bridge solution to NextGen

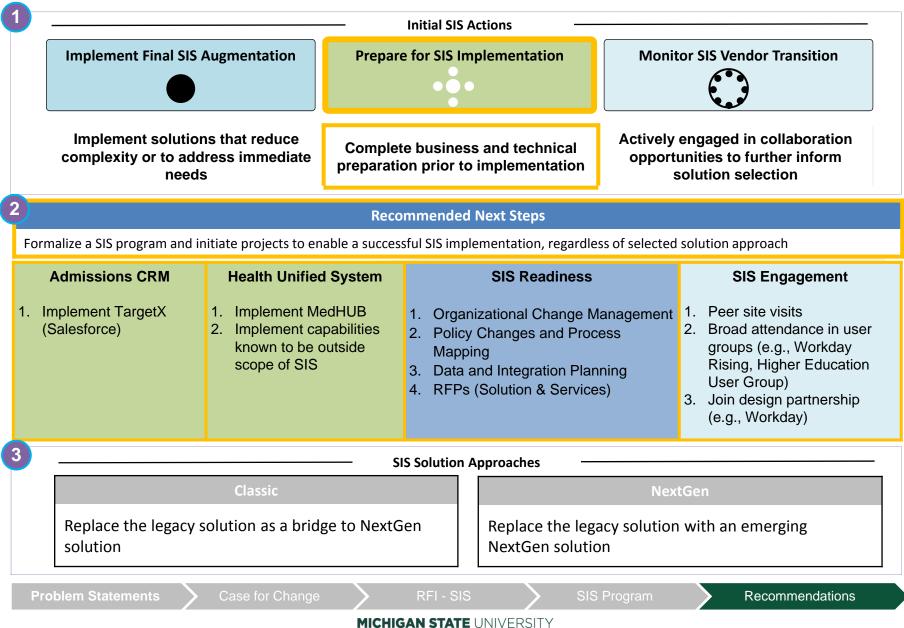
Next Generation

- Cost: minimize long-term total cost of ownership
- <u>Time</u>: lengthened time to delivery
- <u>Capability</u>: modern architecture provides foundation for functionality to fulfill the needs of tomorrow
- <u>Culture</u>: If we believe MSU will embrace industry best practices by not customizing, then NextGen is a strategic investment



Recommendation

Recommended Actions





QUESTIONS