

# ARE THE DAYS OF CLASSIC SIS NUMBERED?

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#### **PRESENTER**



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As the Head of Academic & Research Systems Tower at NUS, I oversee the planning, implementation and support of systems pertaining to student, faculty and research administration at the university. The objective of this session is to surface an important and potentially contentious topic for deliberation and consideration among Higher Education institutions. Opinions and views expressed in this presentation does not represent the stand of HEUG or any specific institution.

# DISCLAIMER

CHANGING BUSINESS MODEL @ NUS

Recent changes at NUS



# NATIONAL UNIVERSITY OF SINGAPORE

Founded in 1905 as a modest medical school with 23 students, NUS is today widely known for our pioneering education and innovative research which have made an impact on the community in Singapore and beyond.

#### NUS AT A GLANCE

Campuses: Kent Ridge, Bukit Timah and Outram

Undergraduate Schools

Graduate Schools

University-level Research Institutes and Centres

Bachelor's degrees

Double majors

Concurrent degrees

Joint degrees

Double degrees

150

Master's degrees, Doctoral degrees, Graduate diplomas

Undergraduates

10K

Graduate students

2.5K

3.9K

3.4K 2.2K

Faculty

Research Staff

Executive & Professional Staff

General Staff

# CHANGING EDUCATIONAL MODEL TO SUPPORT FUTURE OF WORK





SOURCE: GARTNER (MAR 2018)

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## **CHANGES AT NUS**

- Extending focus from Pre-Employment Training (PET) to Continuing Education and Training (CET) for upskilling and reskilling
- Lifelong learning scheme open to all 288,600 alumni

Introduction of stackable nano/micro credentials,
 20 year commitment to students, etc.

## CHANGES AT NUS (cont.)

- "first of its kind in Singapore", mixing traditional and non-traditional students, combination of deliveries
- Changes to teaching pedagogy, timetable scheduling, resource provisioning, lifelong learner engagement...
- ...and there's a need to address the gaps in the current Student Information System

# "CLASSIC" VS "NEXT GENERATION" STUDENT INFORMATION SYSTEM

Definition and Characteristics of the two SIS

# WHAT IS "CLASSIC" SIS?

- Bought, integrated and usually run by institutions themselves in campus data centers or on the cloud
- Decades-old at their core
- Often (heavily) customized to meet business needs
- Layered on additional technologies (e.g. portal, mobile) to keep pace with demands

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# DEFINITION OF "CLASSIC"

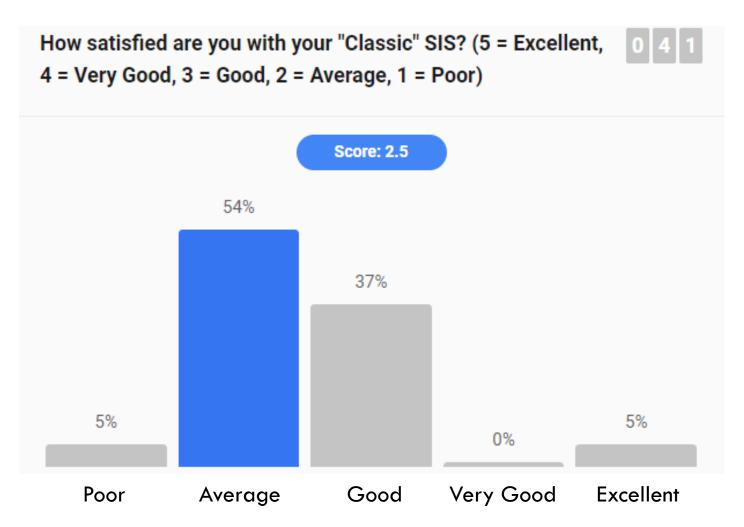
Judged over a period of time to be of the **highest** quality and outstanding of its kind.

Oxford Dictionary

### HOW SATISFIED ARE YOU WITH YOUR "CLASSIC" SIS?

SLI.DO Live poll

#### POLL RESULTS



## CHALLENGES WITH "CLASSIC" SIS

 2017 NUS IT Perception Survey – 85.8% of Staff and 87.6% of Students gave PeopleSoft Campus Solutions (CS) a Good to Excellent rating

 Functional but unable to fulfill emerging business requirements well, especially the changing educational model

# CHALLENGES WITH "CLASSIC" SIS (CONT.)

 Institutions invested a lot in customization, and continue to invest in customization

System maintenance can be difficult and costly

 The look and feel is a bit dated, not matching expectation of current generation of students

## WHAT IS "NEXT GENERATION" SIS?

- These are "Cloud" SIS or SIS being delivered in Software-as-a-Service (SaaS) model
  - Native SaaS and "Ported to Cloud" SaaS
- Built from ground up new architecture, technology, design, data model, modern user interface

# VALUE PROPOSITION OF "NEXT GENERATION" SIS

- Flexible rule-based configurable solutions, less customization
- Functional support for new business model (e.g. non-traditional students)
- SMAC (Social, Mobile, Analytics, Cloud) + Al
- Integrated CRM capabilities
- Opportunities to free up IT staff to more strategic initiatives

## "NEXT GENERATION" SIS

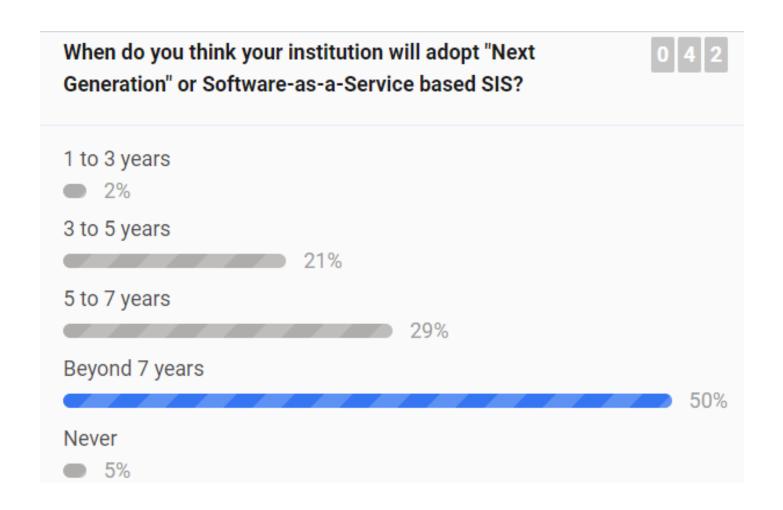
- Examples of "Next Generation" SIS: Unit 4 Student Management, Workday Student, Oracle Student Management Cloud, ...
- There are doubts:
  - Are the "Next Generation" SIS ready for adoption?
  - Will it ever work for Higher Education institutions?

# WHEN DO YOU THINK YOUR INSTITUTION WILL ADOPT "NEXT GENERATION" OR SOFTWARE-AS-A-SERVICE BASED SIS?

SLI.DO

Live pol

#### **POLL RESULTS**



#### DILEMMA OF HIGHER EDUCATION INSTITUTIONS

#### Upgrade

- Cost and effort with limited functional improvements
- Continued innovation and improvement in "classic" SIS is highly unlikely

#### Migrate

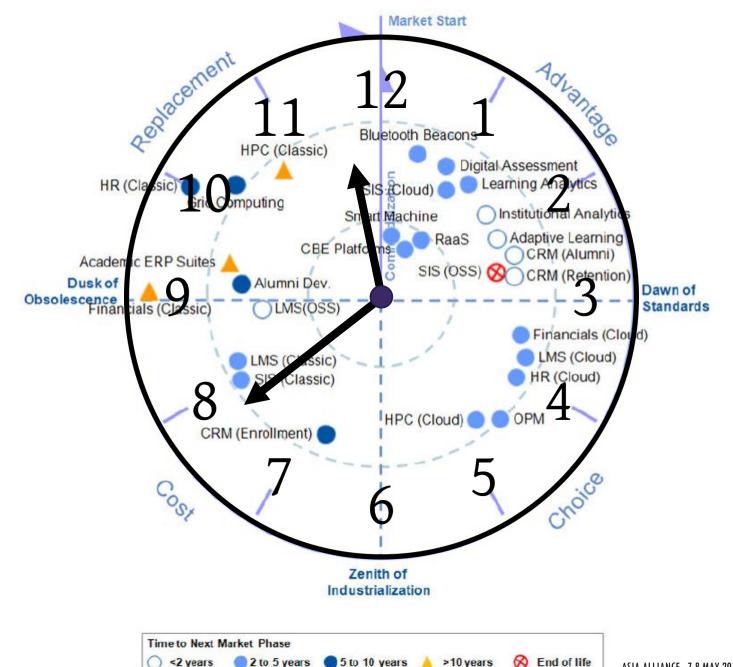
- Is there a solution to migrate to?
- Significant cost to migrate too
- Limited success stories so far
- No localized yet



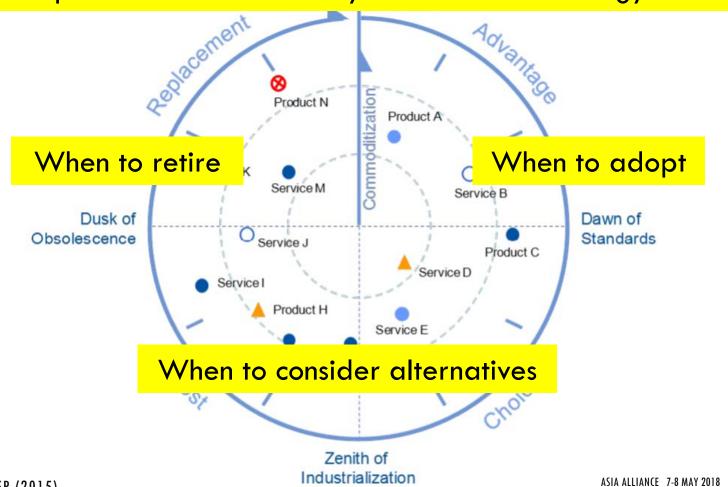
there and staring for over 7 hours."

# GARTNER'S IT MARKET CLOCK FOR HIGHER EDUCATION, 2016

Important references for higher education institutions



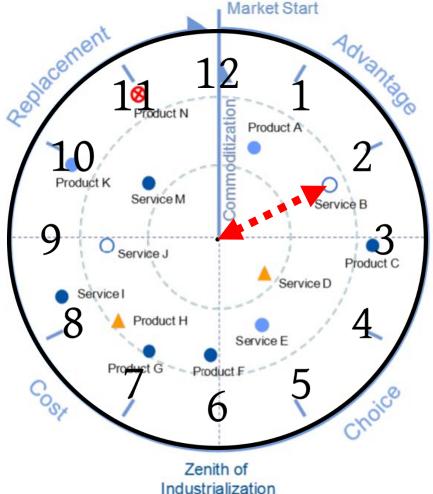
Objective: Provides a lifecycle view of technology assets



**SOURCE: GARTNER (2015)** 

Time of the clock

represents the progress of the technology asset

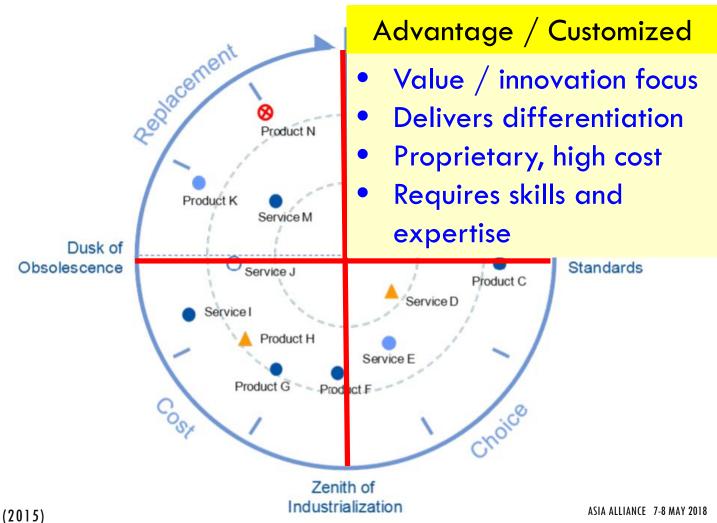


Distance from centre of the clock

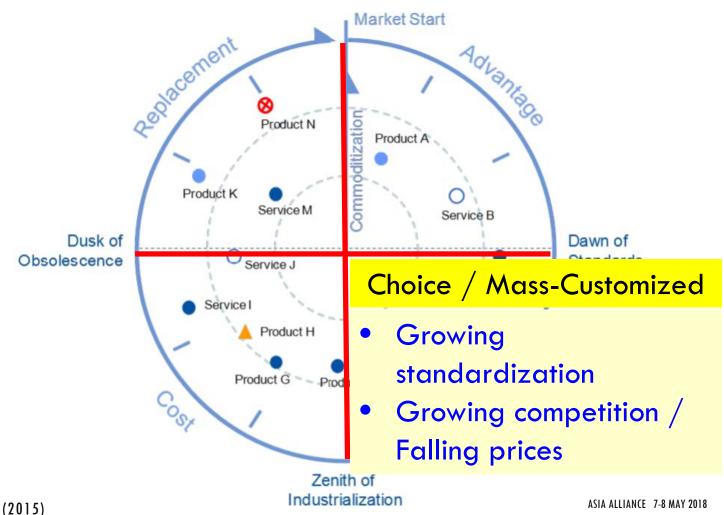
represents the relative level of commoditization

SOURCE: GARTNER (2015)

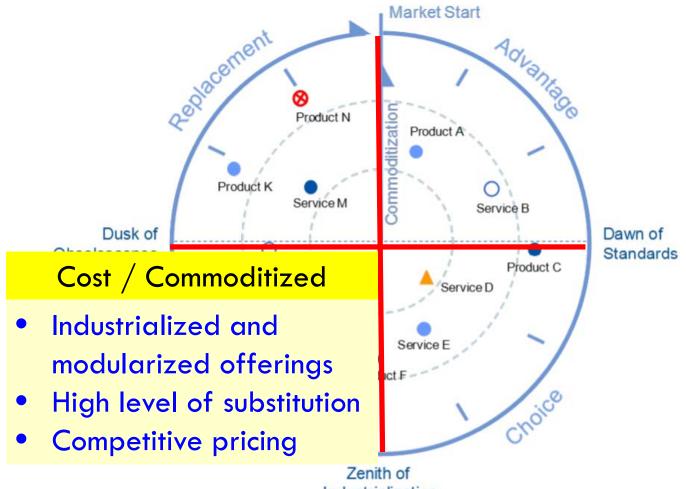
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SOURCE: GARTNER (2015)

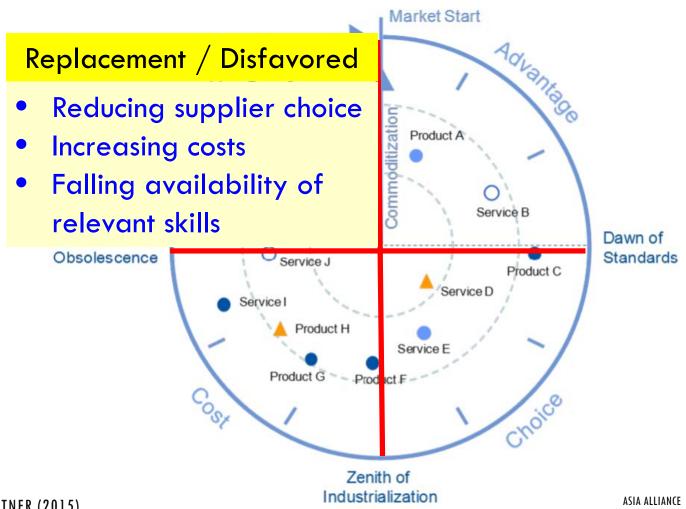


**SOURCE: GARTNER (2015)** 

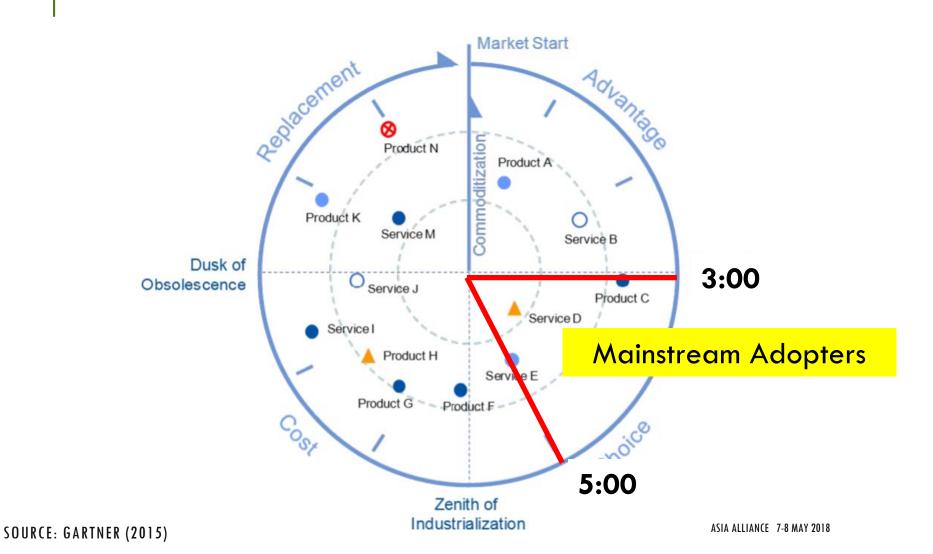


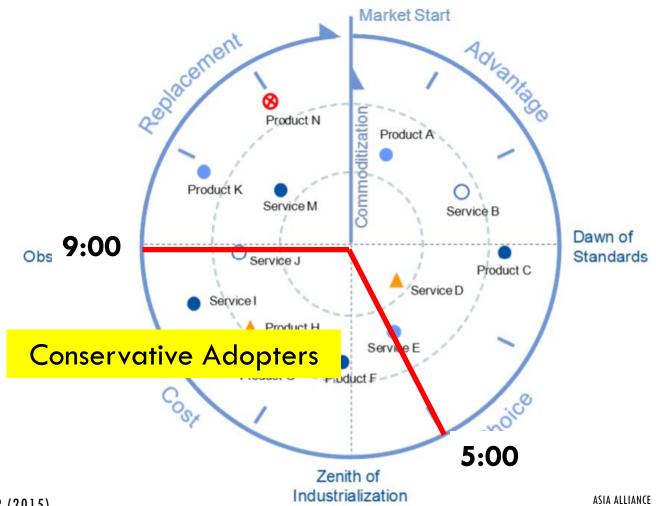
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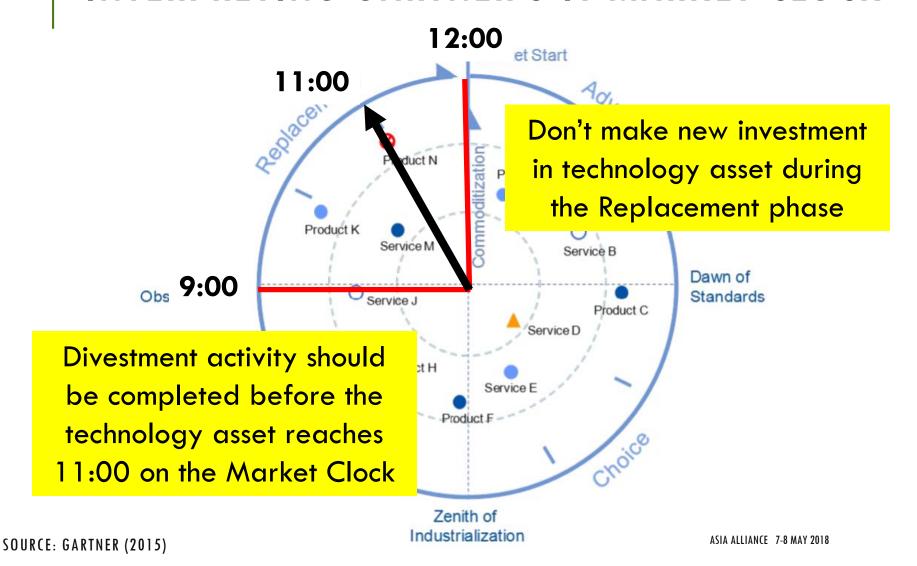


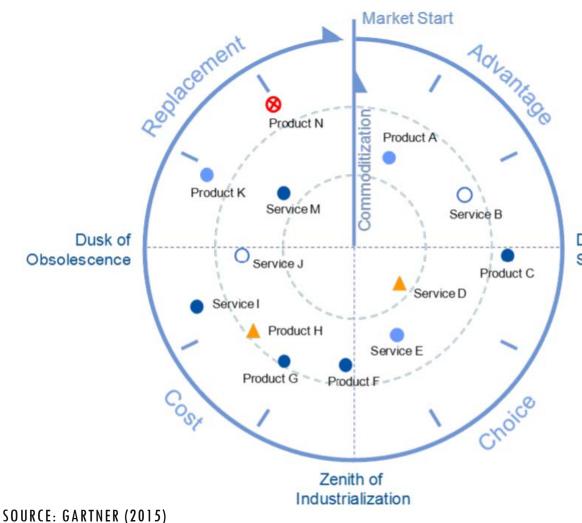
ASIA ALLIANCE 7-8 MAY 2018 **SOURCE: GARTNER (2015)** 





ASIA ALLIANCE 7-8 MAY 2018 **SOURCE: GARTNER (2015)** 





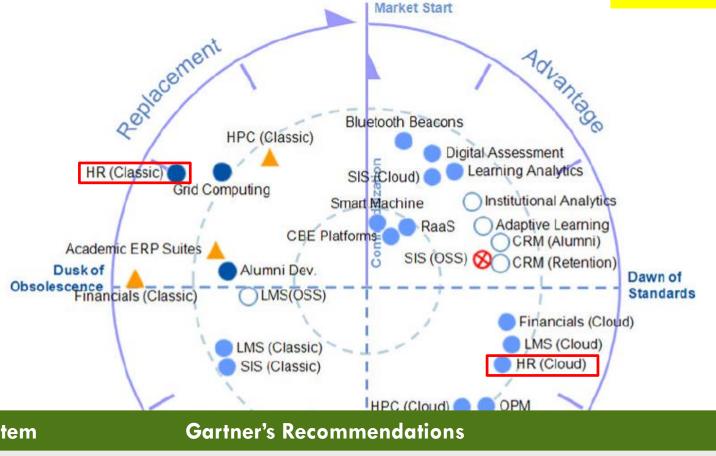
The symbol used for each technology asset indicates the time it will take for the asset to transition into next phase.

Dawn of Standards

- Less than two years
- Two to five years
- Five to 10 years
- ▲ More than 10 years
- End of life

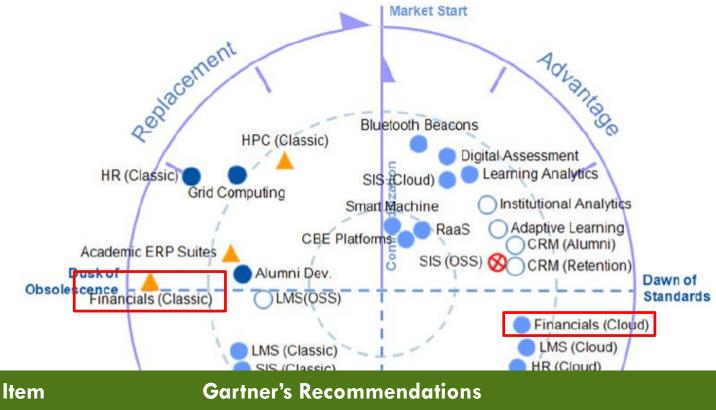
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#### **Human Resources**



Item	Gartner's Recommendations
HR (Classic) 10:00	Actively monitor HR (Cloud) market and migrate if current solution is markedly underperforming.
HR (Cloud) 4:00	A fast-moving and commoditized asset with increasing suppliers and growing adoption. If you are looking for a new HR solution, consider this as a <u>primary</u> option.

3:30



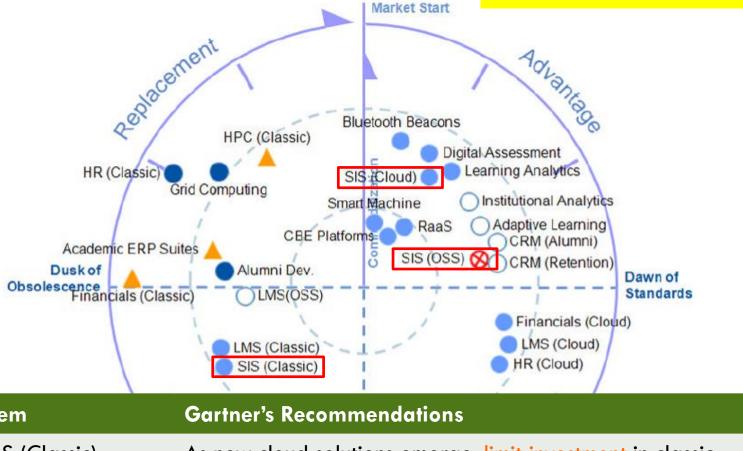
# Financials (Classic) Replacement planning should begin even if timing is years away. An immediate move is unnecessary unless current application is severely underperforming or opportunities present themselves. Financials (Cloud) An emerging asset with early adopter success. It may be

projects present opportunities.

replaced as contract expirations and ERP suite replacement

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#### Student Information System



ltem	Gartner's Recommendations
SIS (Classic) 8:00	As new cloud solutions emerge, limit investment in classic solutions, except in extenuating circumstances. Start the planning process for replacement in the next 24 months.
SIS (Cloud) 1:00	High value asset that could represent a competitive advantage for early adopters.

### IN YOUR OPINION, ARE THE DAYS OF "CLASSIC" SIS NUMBERED?

SLI.DO Live poll

#### POLL RESULTS



#### RECOMMENDATIONS

- 1) Limit or minimize major investments into your "Classic" SIS where possible
- 2) Keep abreast progress of "Next-Generation" SIS
  - Know the solution proividers and their strategy
  - Obtain regular solution update by various solution providers

#### RECOMMENDATIONS

- 3) Create informal information sharing network among peers
- 4) Volunteer and participate in product focus group discussions if opportunity arises
- 5) Incorporate some components of SaaS solution into the student ecosystem

Q & A

SLI.DO Interactive Q&A

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