



COLORADO MESA

U N I V E R S I T Y

ERP Modernization Project

December 15, 2021

Digital Transformation

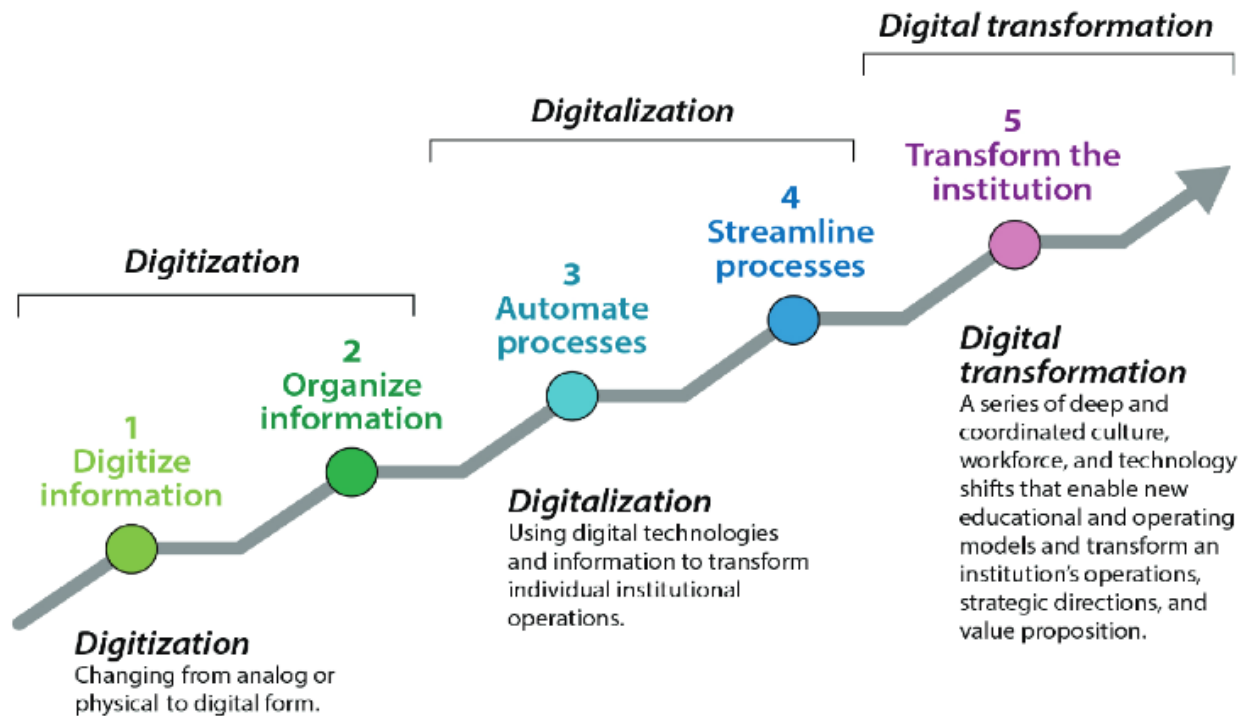


Figure 1. Digital transformation in context

D. Christopher Brooks and Mark McCormack. *Driving Digital Transformation in Higher Education*. ECAR Research Report. Louisville, CO: ECAR, June 2020.

ERP Modernization

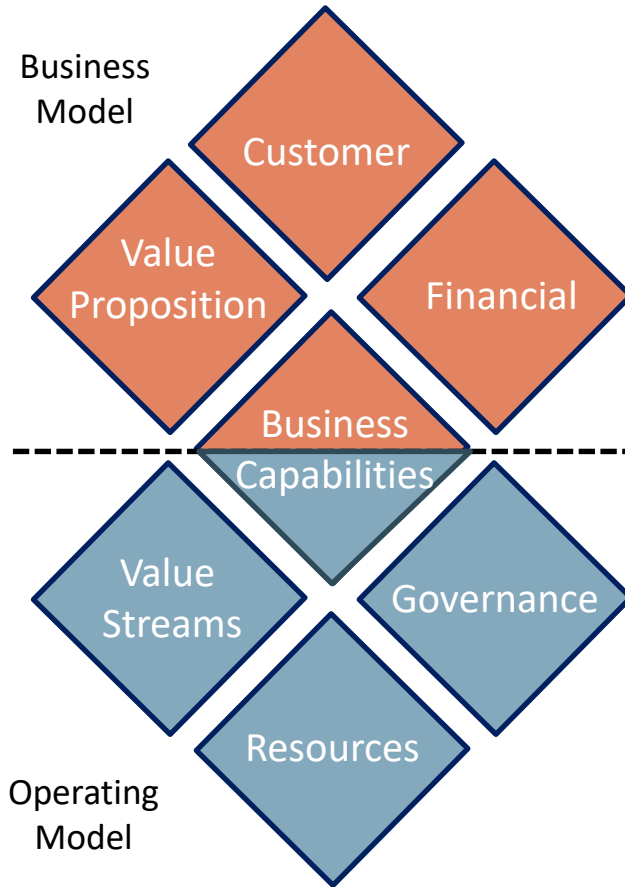
2020 Technology Master Plan

CMU identified digital transformation as a key technology trend that must continue to be advanced.

Digital transformation is not one technology project or process-improvement initiative; it is a comprehensive change that focuses on the end user and going about business differently.

Goal 1B: Implement web-based administrative platforms and modernize the University's Enterprise Resource Planning (ERP) system to improve services. (Supports CMU's Strategic Plan Goal 3, Objective 3).

Student/Business Outcomes



Source: Gartner

Student/Business Outcomes

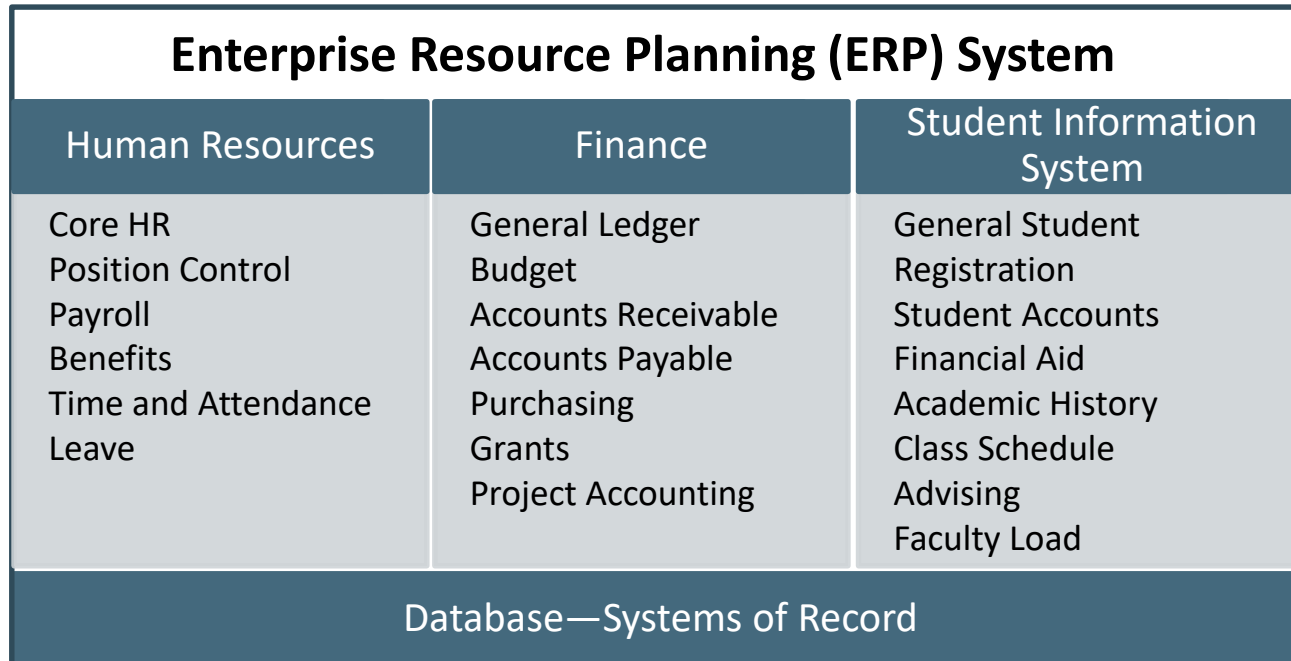
- Innovate business practices to best serve students
- Drive efficiency
- Lower the costs of a higher degree

Digitalized Capabilities

ERP Strategy

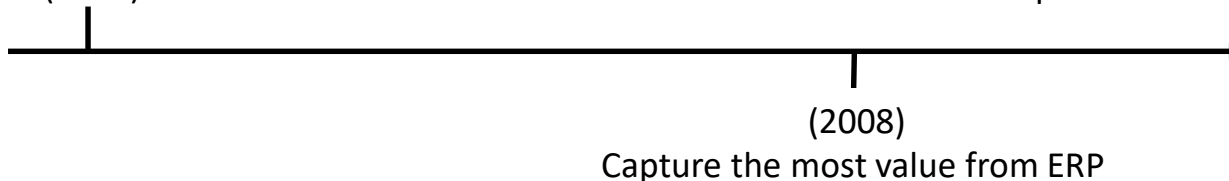
- Increase business agility
- Leverage the latest technologies
- Deliver business capabilities
- Transform the user experience

Modern ERP (1990s)



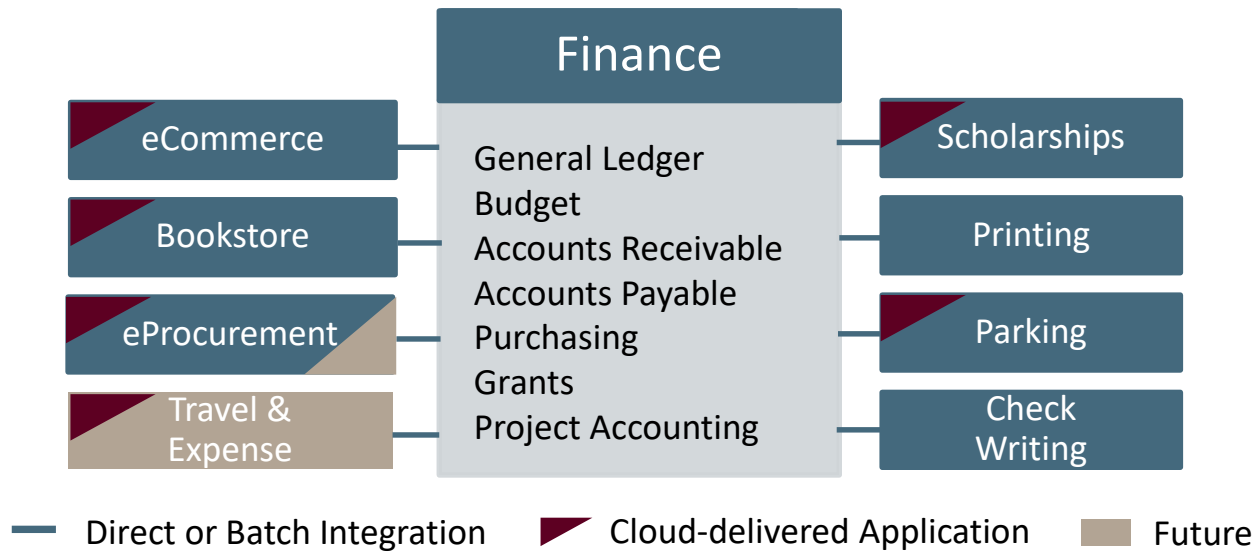
Monolithic ERP
(1990)

Add-on point solutions /
Re-implemented ERP modules



Postmodern ERP (today)

Postmodern ERP (Today)—Example: Finance



Application Managed Services
(2015)

Two-thirds of CMU's Enterprise
Applications are Cloud-based
(today)

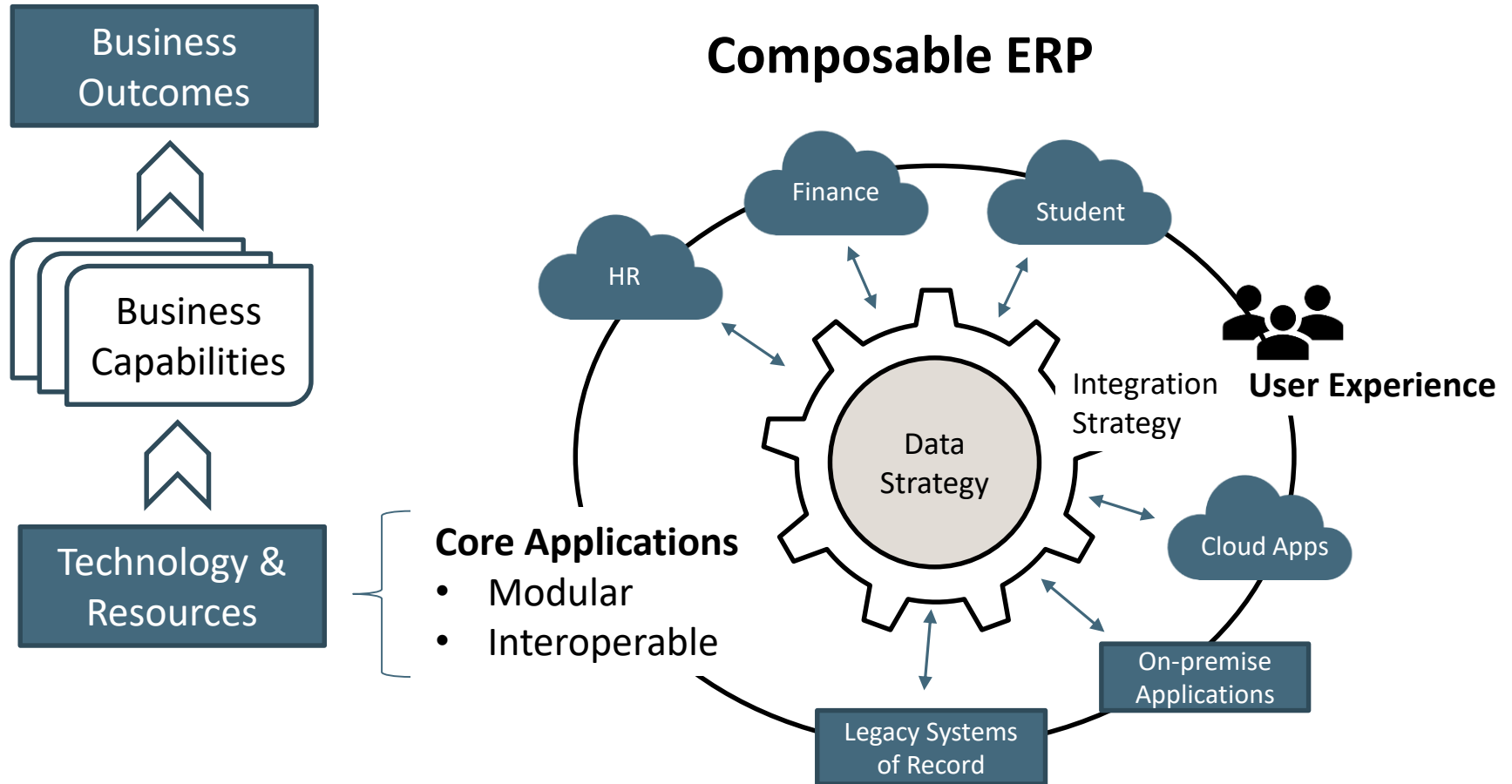


ERP Modernization Strategy

Develop a composable ERP –an adaptive technology strategy that defines a core of applications that are configurable and interoperable—with defined data management, integration, and user experience strategies.

Enabling the foundational administrative and operational digital capabilities for an enterprise to keep up with the pace of business change.

ERP Modernization



ERP Modernization Objectives

1. Implement comprehensive data management and data integration strategies to allow the University to deploy more loosely coupled enterprise applications, improving business agility.

FROM

Classic methods of data integration such as flat file transfers and batch processing

Traditional data management tools (e.g. databases and reporting data repositories) managed solely by central IT

TO

Advanced integration tools like iPaaS platforms that leverage web services and APIs that span support across on-premise and cloud applications

Modern data strategies that support analytic workloads, integrations, and data governance

BECAUSE

Improve business agility when adding applications with less reliance on vendor-provided tools

Reduce time to value by delivering faster access to trusted data across distributed ecosystems and enable support for technologies like Machine Learning

ERP Modernization Objectives

2. Migrate the Student Information System to cloud services to improve the student experience and enhance student success initiatives.

FROM

Running a moderately customized SIS on-premise using Application Managed Services

Classic portal with links to web forms and applications

TO

Managed cloud, with vendor provided:

- Infrastructure
- Security Audits
- Disaster Recovery

Multi-experience vendor platform(s) to provide fit-for-purpose frontend experiences

BECAUSE

Free up support staff to work on strategic initiatives instead of performing backend maintenance tasks

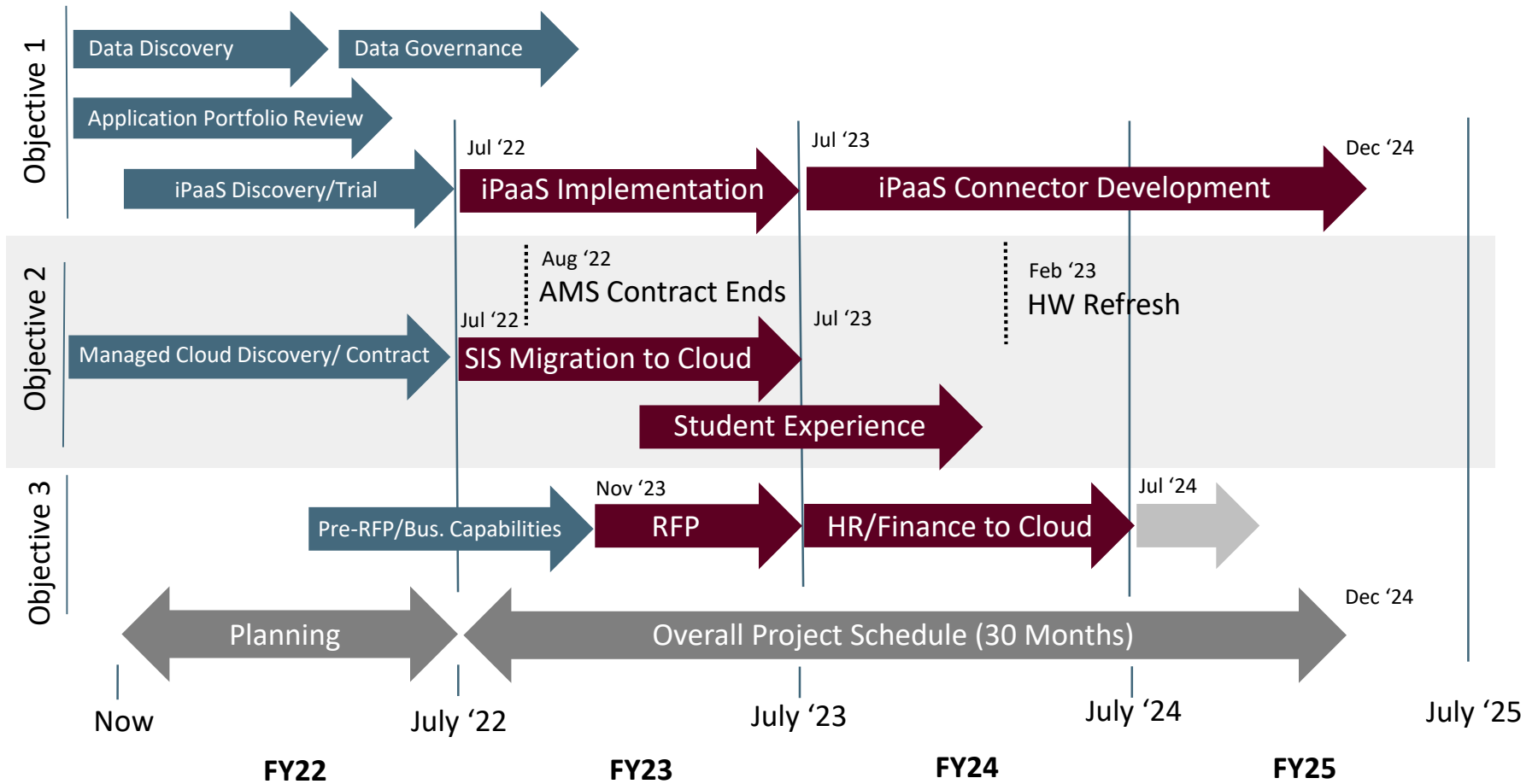
Provide students a seamless digital experience across multiple touchpoints and modalities

ERP Modernization Objectives

3. Migrate HR and Finance systems to cloud services and enable the University to develop a composable business strategy.

FROM	TO	BECAUSE
Mostly manual tracking and reporting of personnel hiring practices	Embedded analytical tools to help target underrepresented groups in the job market	Advance recruitment tools in support of diversity and inclusion goals
Predominate use of spreadsheets and e-forms for budget submissions	Integrated budget building tools and approval processes	Expand financial planning and analysis capabilities to enable continuous financial forecasting and budget modeling

Project Schedule



CMU Partnerships

Collaborating with other State institutions of higher ed

- ERP research/price agreements
- integration Platform as a Service (iPaaS)

UNC Partnership

- Product discovery
- Project development
- Temporary staff contracting/training
- Joint training sessions
- Process improvement knowledge sharing
- Integration development (same applications)

Thank you

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