

**Enhancing Somali Universities  
through E-Infrastructure:  
Success Stories and Future  
Pathways**

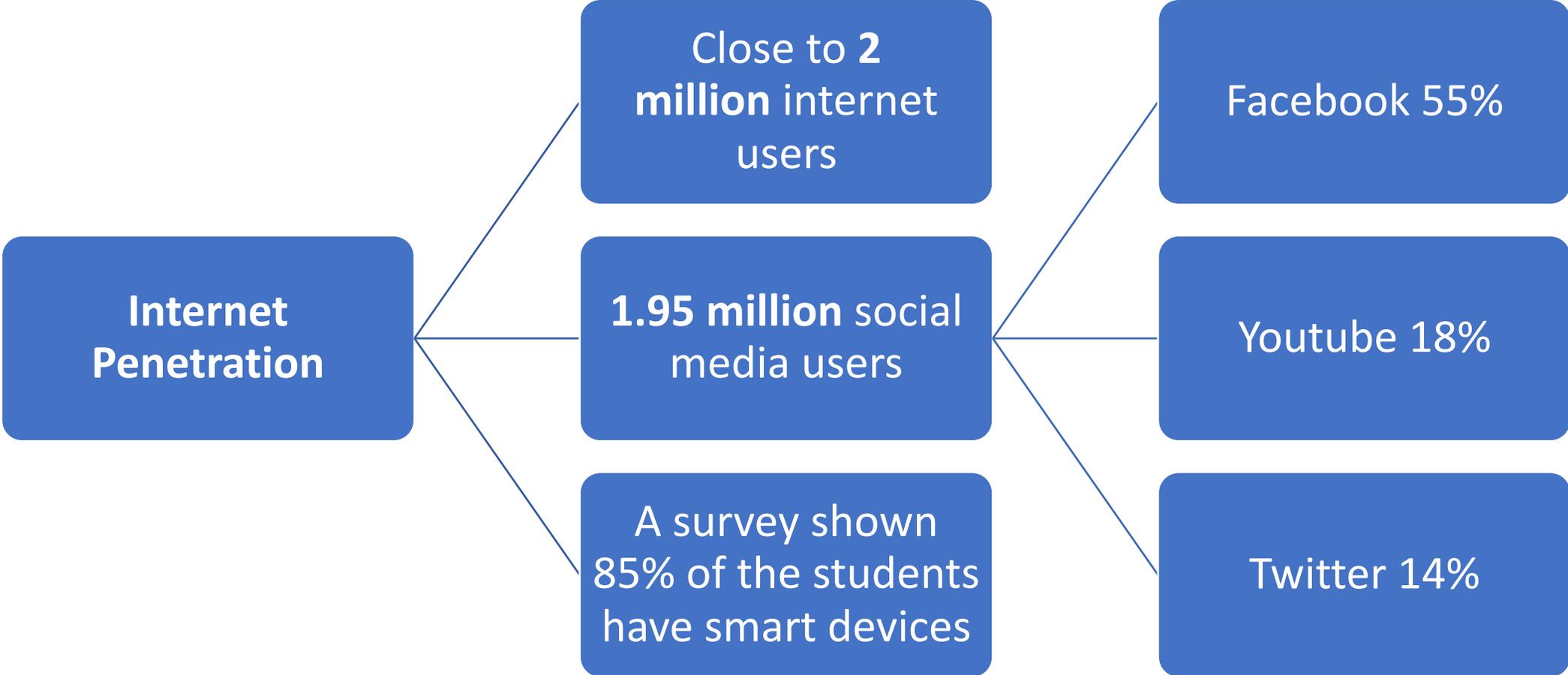
**Eng. Mohamed Mohamud**



# Outline

- **Introduction**
- **Essential e-infrastructure services**
- **Entrepreneurial Ecosystems for Universities**
- **Leading Digital Transformations**
- **A Framework for Guiding the Digital Transformation of Higher Education Institutions**
- **Discussion**

# INTRODUCTION



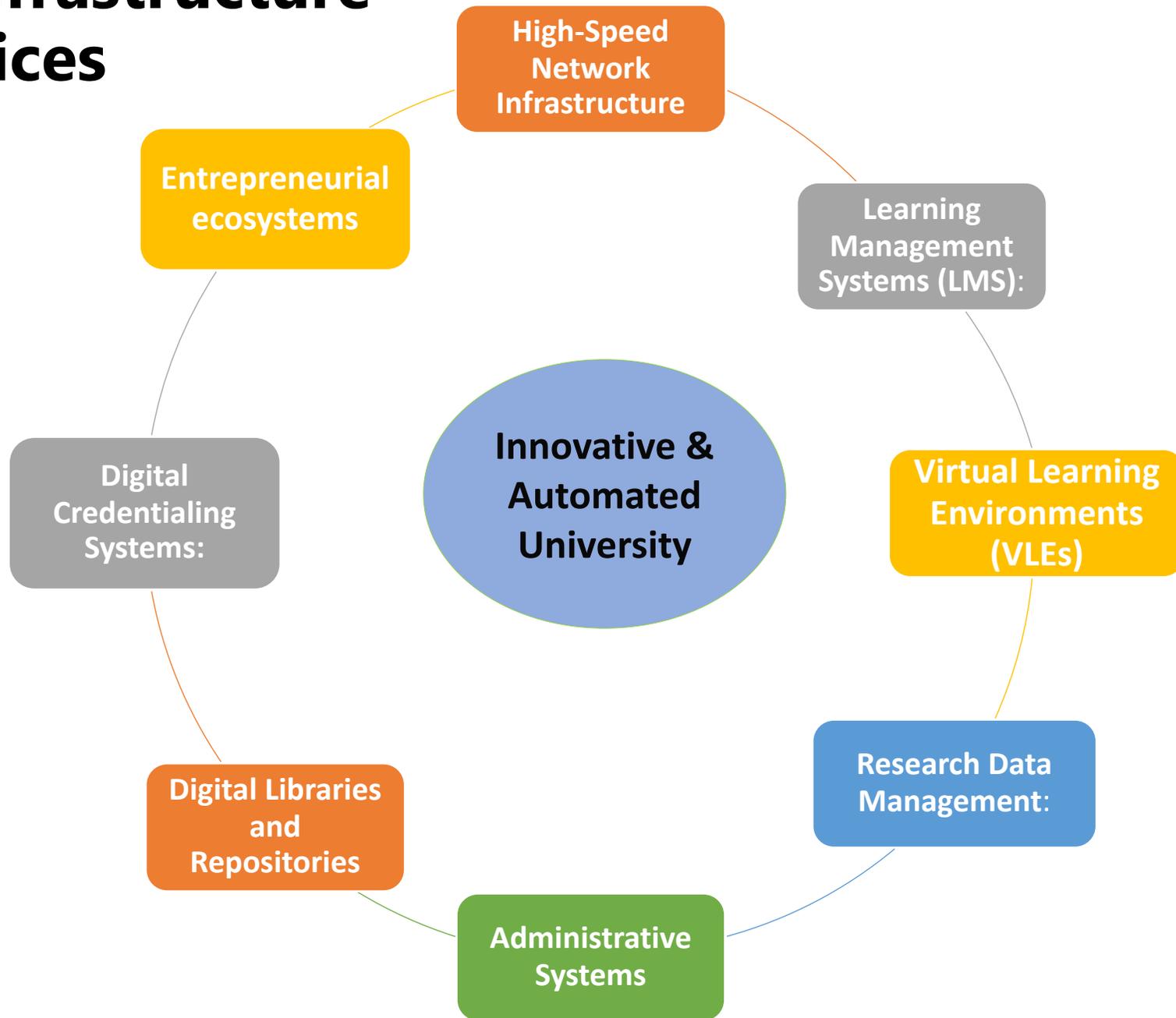
# INTRODUCTION

E-infrastructure services in the context of higher education encompass a wide range of digital resources and services that are designed to support **teaching, learning, research, and administrative** processes.

These services are essential for the efficient operation of a modern university and play a critical role in enhancing the **academic experience** for students, faculty, and staff.



# Essential e-infrastructure services



# High-Speed Network Infrastructure

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**Backbone Connectivity**

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**Distributi Layers**

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**Access Networks**

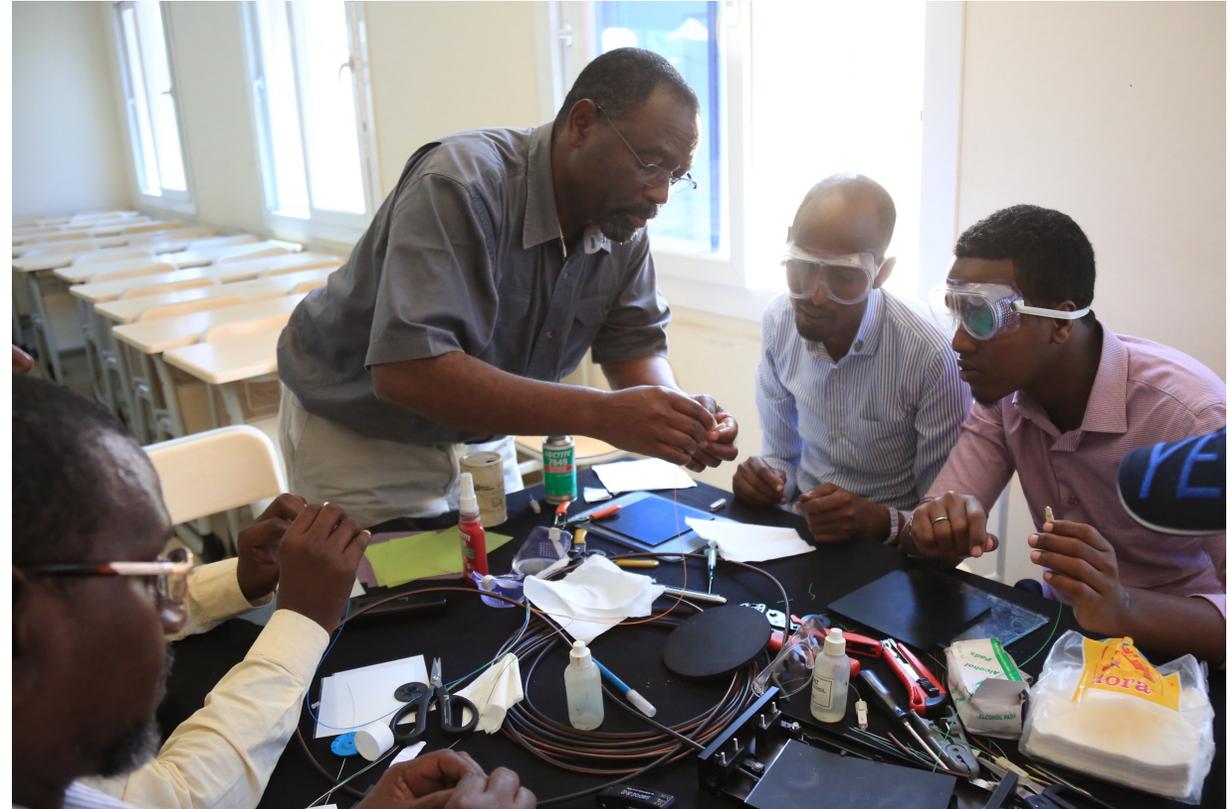
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**Internet Connectivity**

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**Campus Wi-Fi:**

# SU Data Center



# Learning Management Systems (LMS)



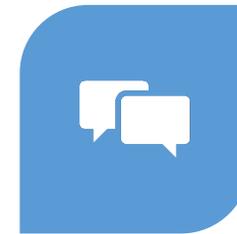
**COURSE CREATION AND  
MANAGEMENT**



**CONTENT DELIVERY**



**ASSIGNMENTS AND  
ASSESSMENTS**



**DISCUSSION FORUMS  
AND COMMUNICATION  
TOOLS**



**ADAPTIVE LEARNING  
TECHNOLOGIES**

# Administrative Systems



**STUDENT  
INFORMATION  
SYSTEM (SIS)**



**HUMAN  
RESOURCES  
MANAGEMENT  
(HRM)**



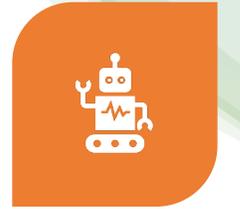
**FINANCIAL  
MANAGEMENT**



**FACILITIES  
MANAGEMENT**



**CUSTOMER  
RELATIONSHIP  
MANAGEMENT  
(CRM)**



**AUTOMATION OF  
ROUTINE TASKS**



**DOCUMENT  
MANAGEMENT**



HIKVISION

HIKVISION

# Research Management System

Researcher Profile

Publication Reports and Statistics

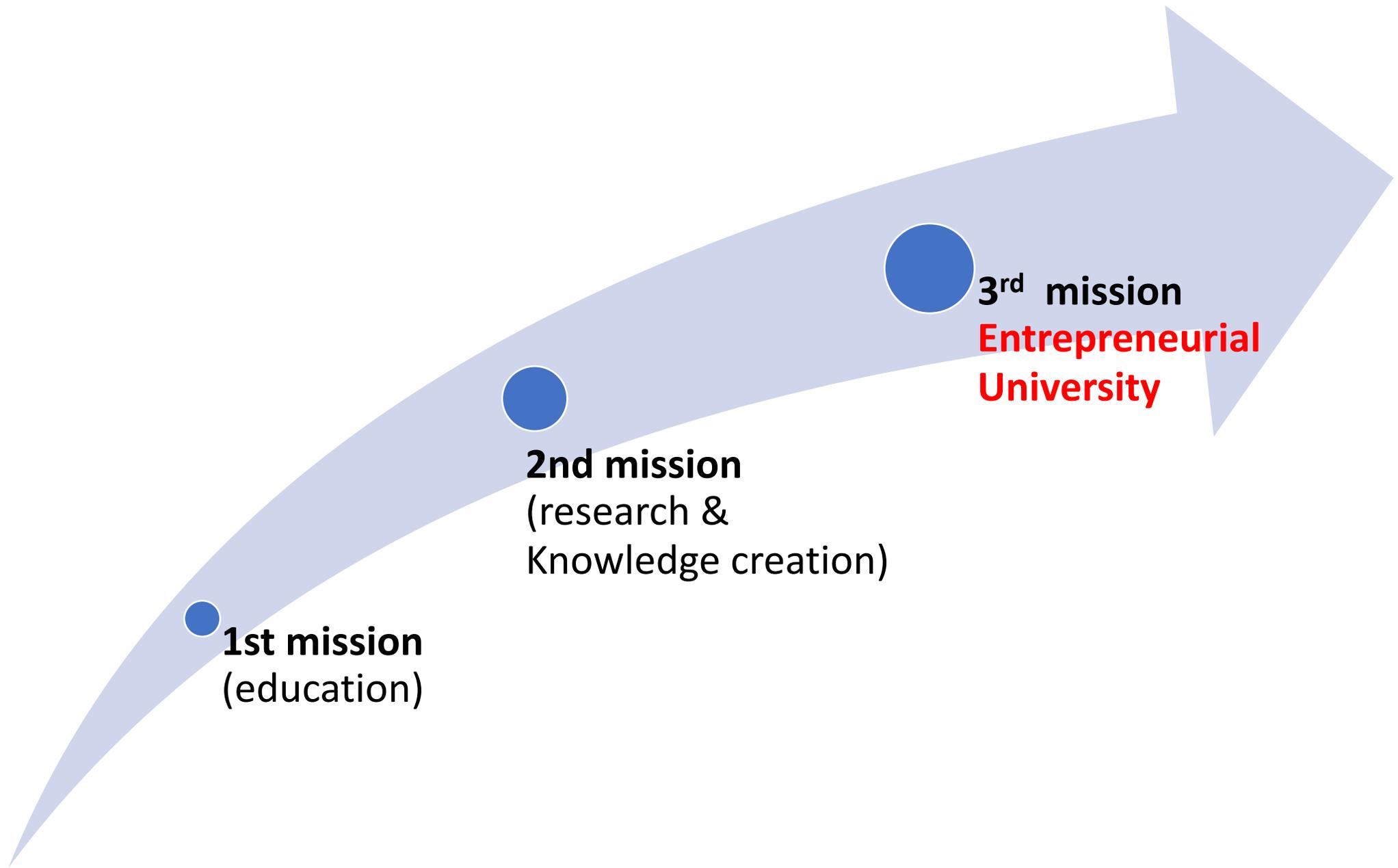
Research Clusters

Research Fund Management

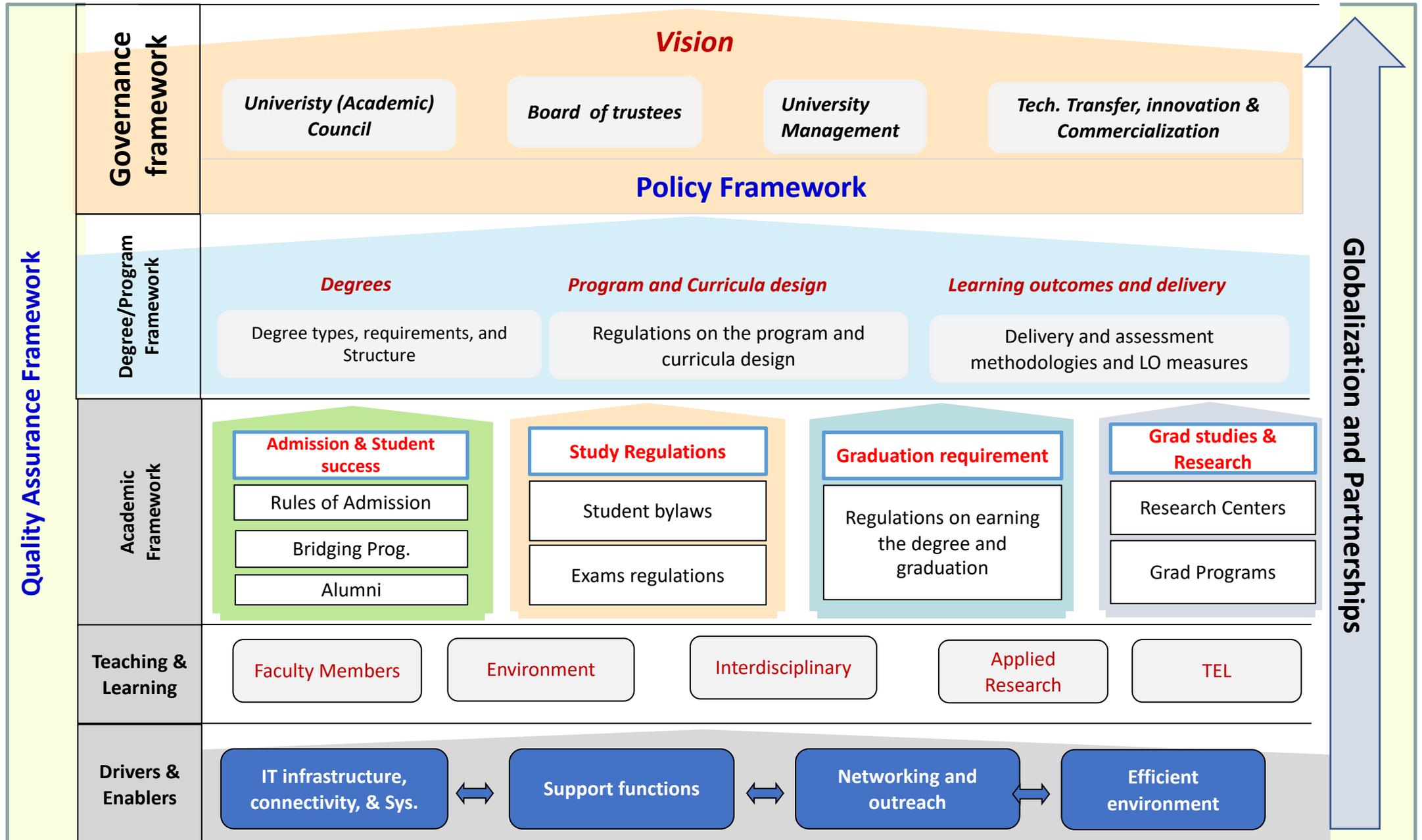
Conferences Management

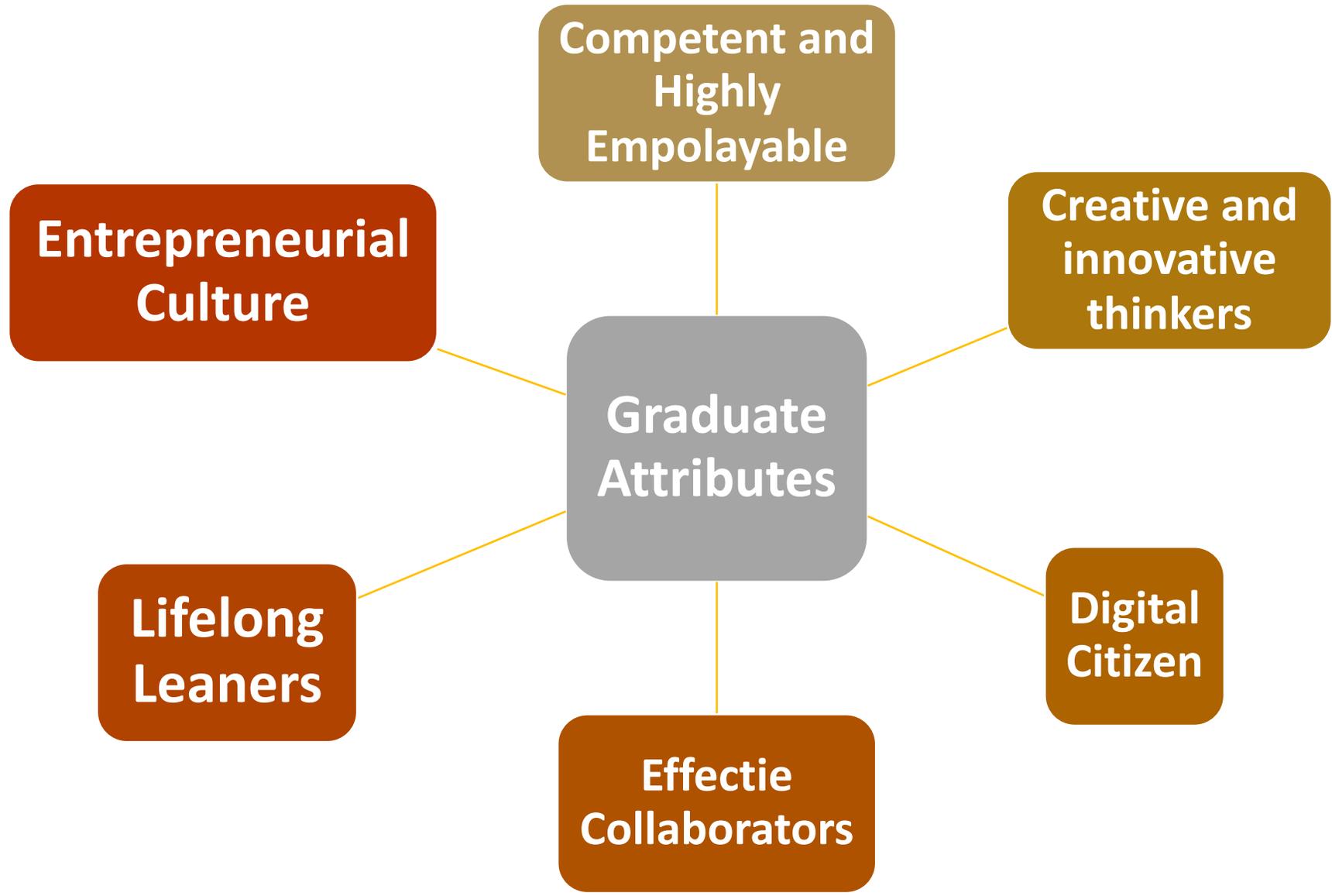
Research Resources

# Entrepreneurial Ecosystems for Universities



# University Transformation Framework (UTF)





- Dashboard
- Programs
- Tracks
- Batches
- Applicants
- UnSuccessfull
- Events
- Startup
- Founders
- Startups
- Crowdfundings
- Freelancing
- Clients
- Agencies
- Partners
- PartnerTypes
- Partners
- Universities

**8205**  
Total Applications  
Life Time Application

**2760**  
Total Accepted  
Total Accepted

**1183**  
Total Completed  
Total Completed

**2689**  
Total Female  
Total Female Applications

**5516**  
Total Male  
Total Male Applied

**9**  
Total Tracks  
Total No of Tracks Offered

**13**  
Total Batches  
Total No of Batches

**#12**  
# OF STARTUPS

**#12**  
# OF FOUNDERS

**#9**  
# OF FEMALE FOUNDERS

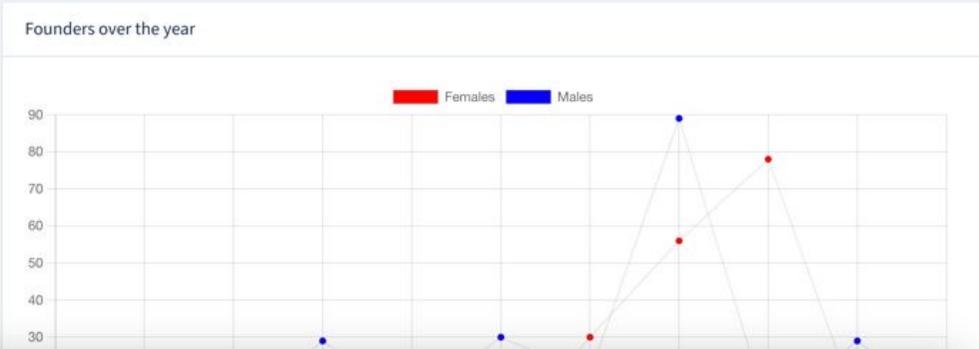
**3**  
# OF MALE FOUNDERS

**\$19,995**  
INVESTMENT ATTRACTED  
[View More](#)

**\$67,890**  
SALES REVENUE MADE  
[View More](#)

**\$30,500**  
PLEGGED FUNDS  
[View More](#)

**\$12,900**  
FUNDS RECEIVED  
[View More](#)



# Leading Digital Transformations

## Incremental Approach to Transformation

- "Discovery-Driven Digital Transformation" by Rita McGrath and Ryan McManus

## The Transformative Education Model

- "The Transformative Business Model" by Stelios Kavadias,

## Digital Doesn't Have to Be Disruptive

- "Digital Doesn't Have to Be Disruptive" by Nathan Furr and Andrew Shipilov

## Coherent Data Strategy

- "What's Your Data Strategy?" by Leandro DalleMule and Thomas

## Competing in the Age of AI

- "Competing in the Age of AI" by Marco Iansiti and Karim`

# Leading Digital Transformations

## Integration of AI into University Processes

- Building the AI-Powered Organization: by Tim Fountaine, Brian McCarthy, and Tamim Saleh

## How Smart, Connected Products are Transforming Education

- How Smart, Connected Products are Transforming Companies by Mechal E. Porter

## Continuous Student Engagement

- "The Age of Continuous Connection" by Nicolaj Siggelkow and Christian Terwiesch

## The problem with legacy Ecosystems

- The problem with legacy Ecosystems, by Maxwell Wessel

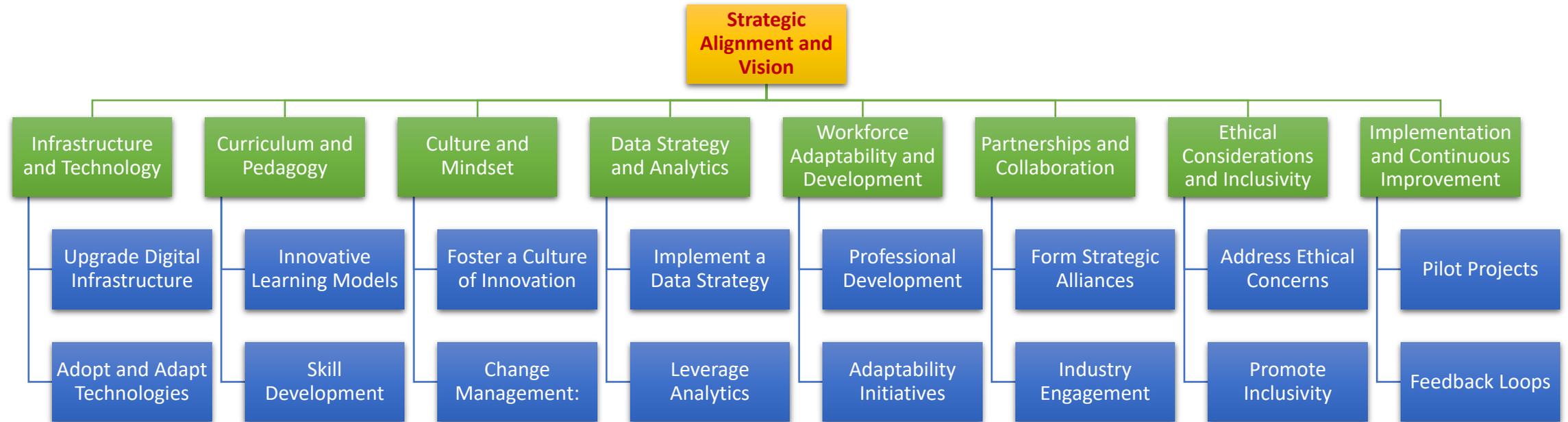
## Importance of Continuous Learning

- Your workforce is more adaptable than you think by Joseph B. Fuller

# ICT Challenges

- **Internet Speed**
  - 46.43%
- **ICT Office**
  - 28.57 %
- **Data Center Facility**
  - 46.43%
- **Collaborative Tools**
  - 46.43%
- **Management System**
  - 39.29%
- **Data Management**
  - 64.29%
- **E-Library**
  - 64.29%
- **LMS**
  - 35.71%

# A Framework for Guiding the Digital Transformation of Higher Education Institutions



**Thank You**

