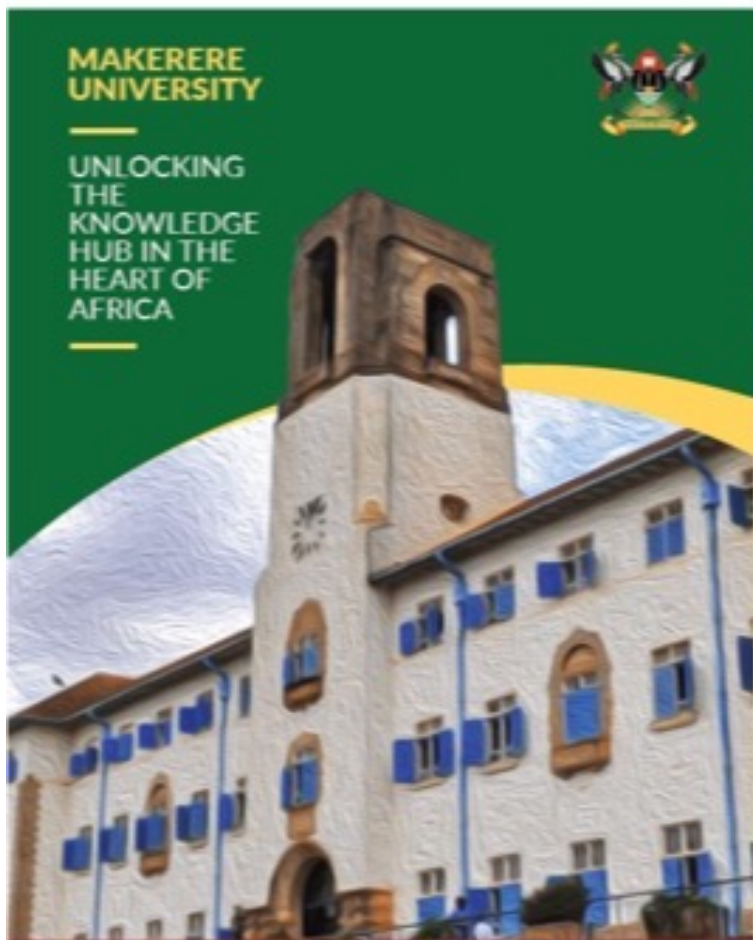


Overview of Graduate Research Issues in CAES

Yazidhi Bamutaze (PhD), Professor,
Deputy Principal



The four goals are:



A RESEARCH - LED UNIVERSITY
RESPONDING TO NATIONAL,
REGIONAL AND GLOBAL
DEVELOPMENT CHALLENGES



INNOVATION IN TEACHING
AND LEARNING THAT
RESPOND TO THE
CHANGING ENVIRONMENT



AN ENGAGED UNIVERSITY WITH
ENHANCED PARTNERSHIPS WITH
INDUSTRY, THE COMMUNITY AND
INTERNATIONAL INSTITUTIONS



A PROFESSIONALLY
GOVERNED, EQUITABLE,
INCLUSIVE AND GENDER
MAINSTREAMED INSTITUTION



Aspirations & Strategic thrusts

Transformative aspirations

Strategic Targets

- 30% increase in graduate enrolment
- 70% timely graduate completion
- Improve quality of delivery
- Research led university
- Shift from undergraduate to postgraduate training



CAES at Glance: Graduate Research

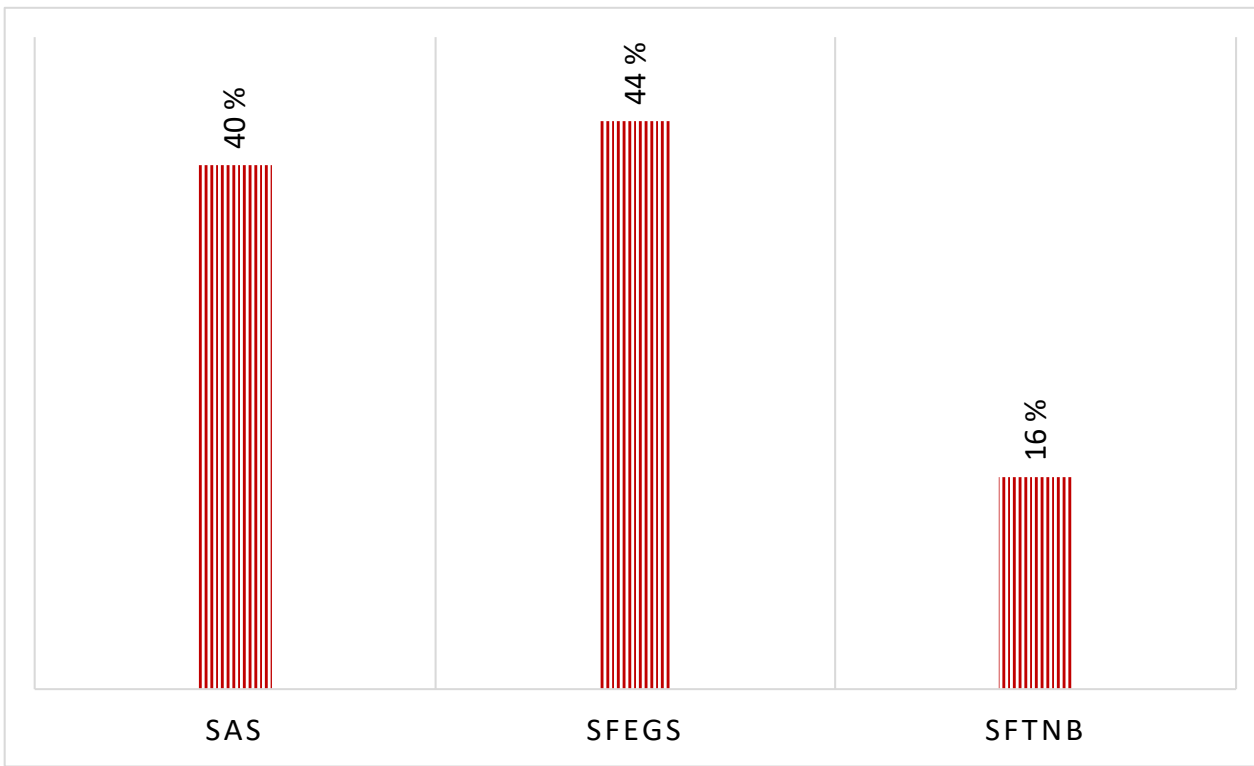
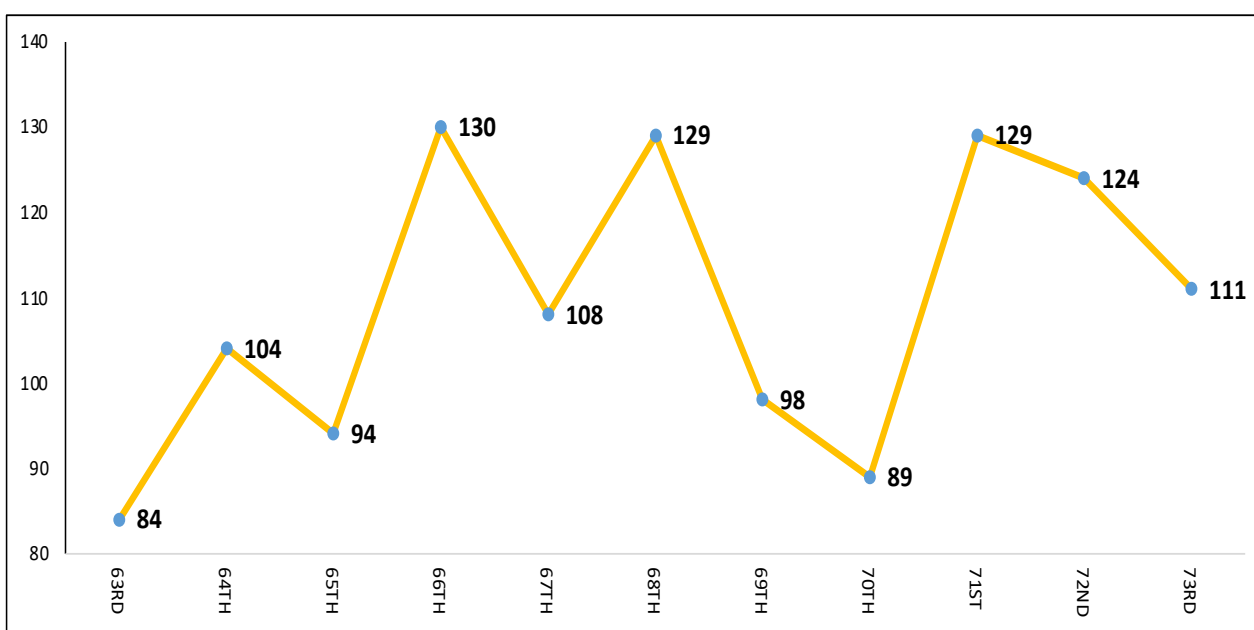
- 21 marketable & attractive graduate programmes (600 admitted in 2023).
- 170 Competent Academic Staff
- Highest number of Professors
- High publication portfolio: Up to 300/year
- Resident journals, Editors & Assoc. Editors
- Culture of grant writing

Situation Analysis

1. Suboptimal Graduation numbers

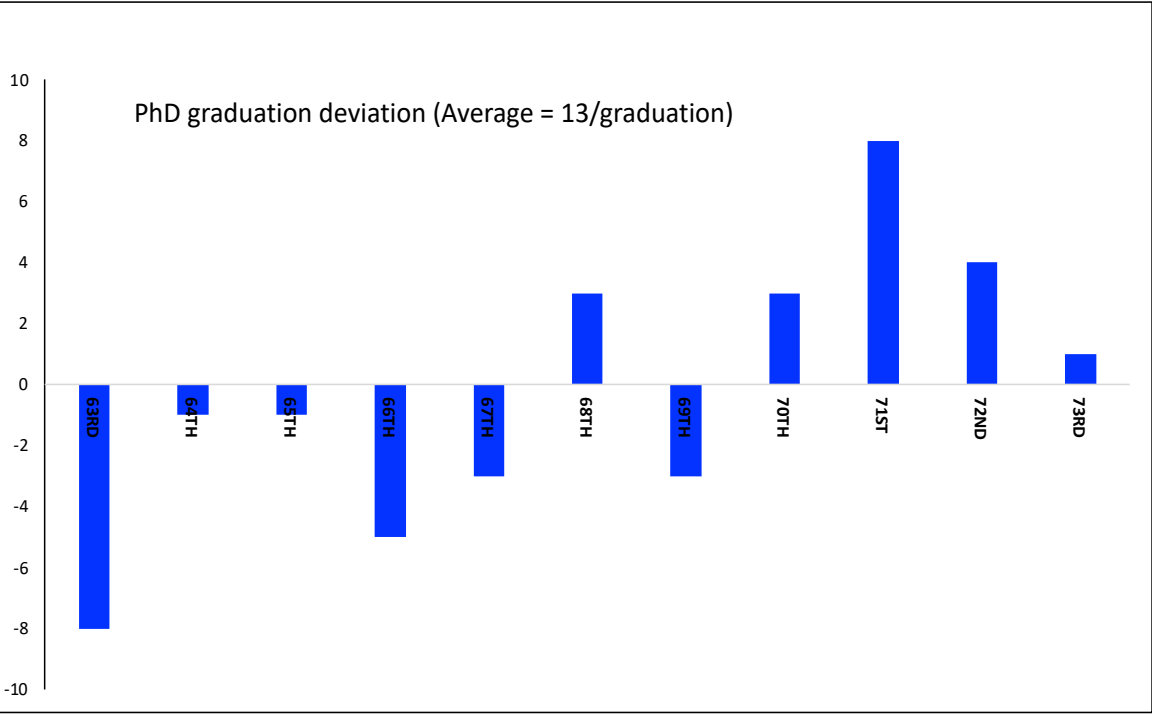
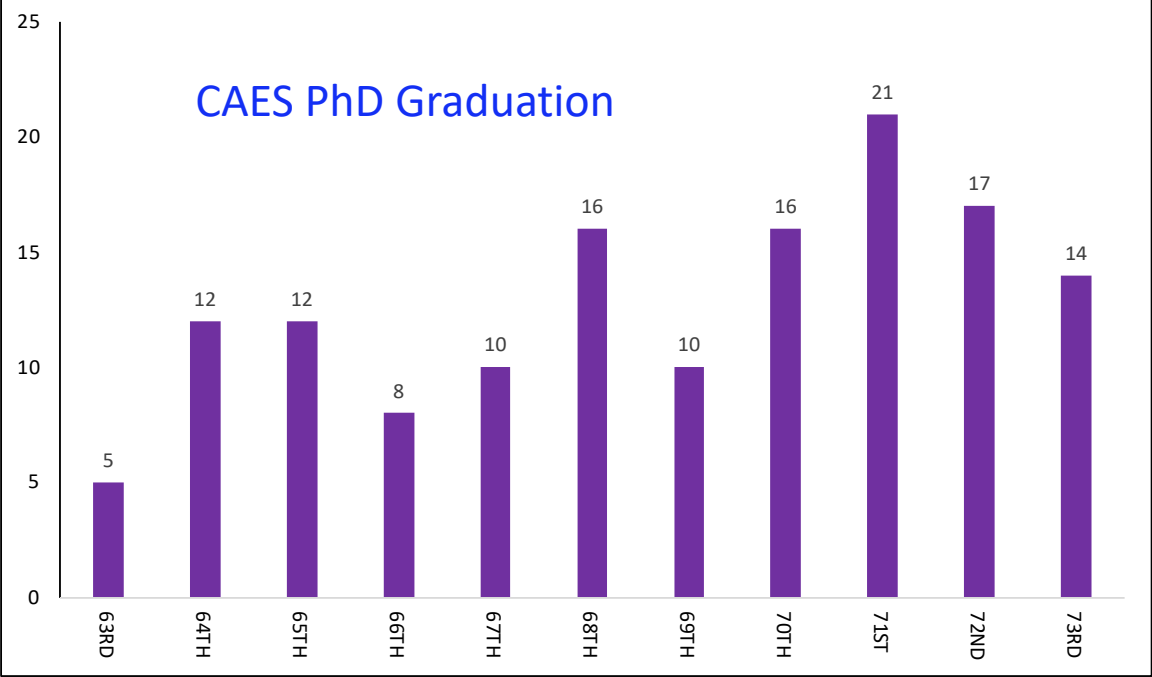
Key numbers

- Overall average = 109/year
- Average masters = 96/Year
- Average PhD = 13/Year
- Average per academic Staff (0.64)

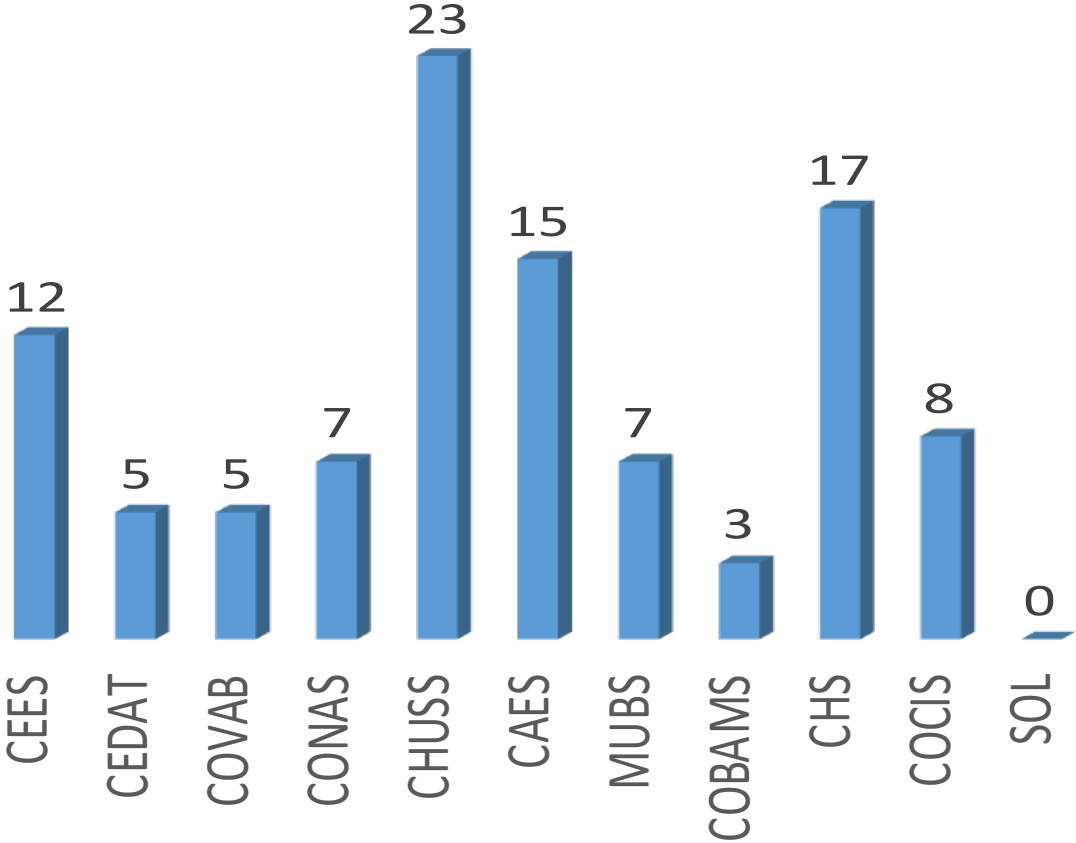


Situation Analysis

1. Suboptimal Graduation Numbers

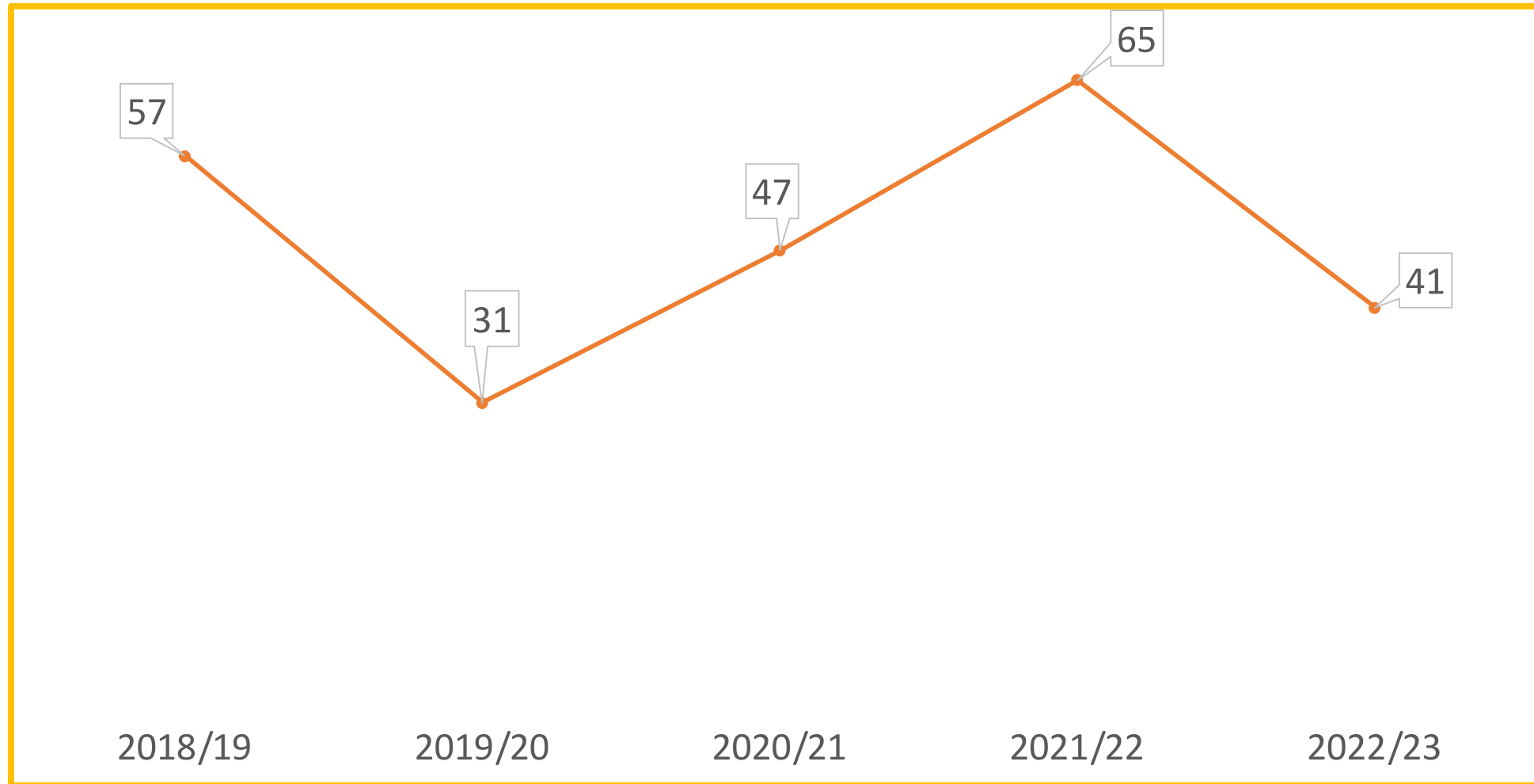


73rd GRADUATION – ALL COLLEGES



1. Situation Analysis

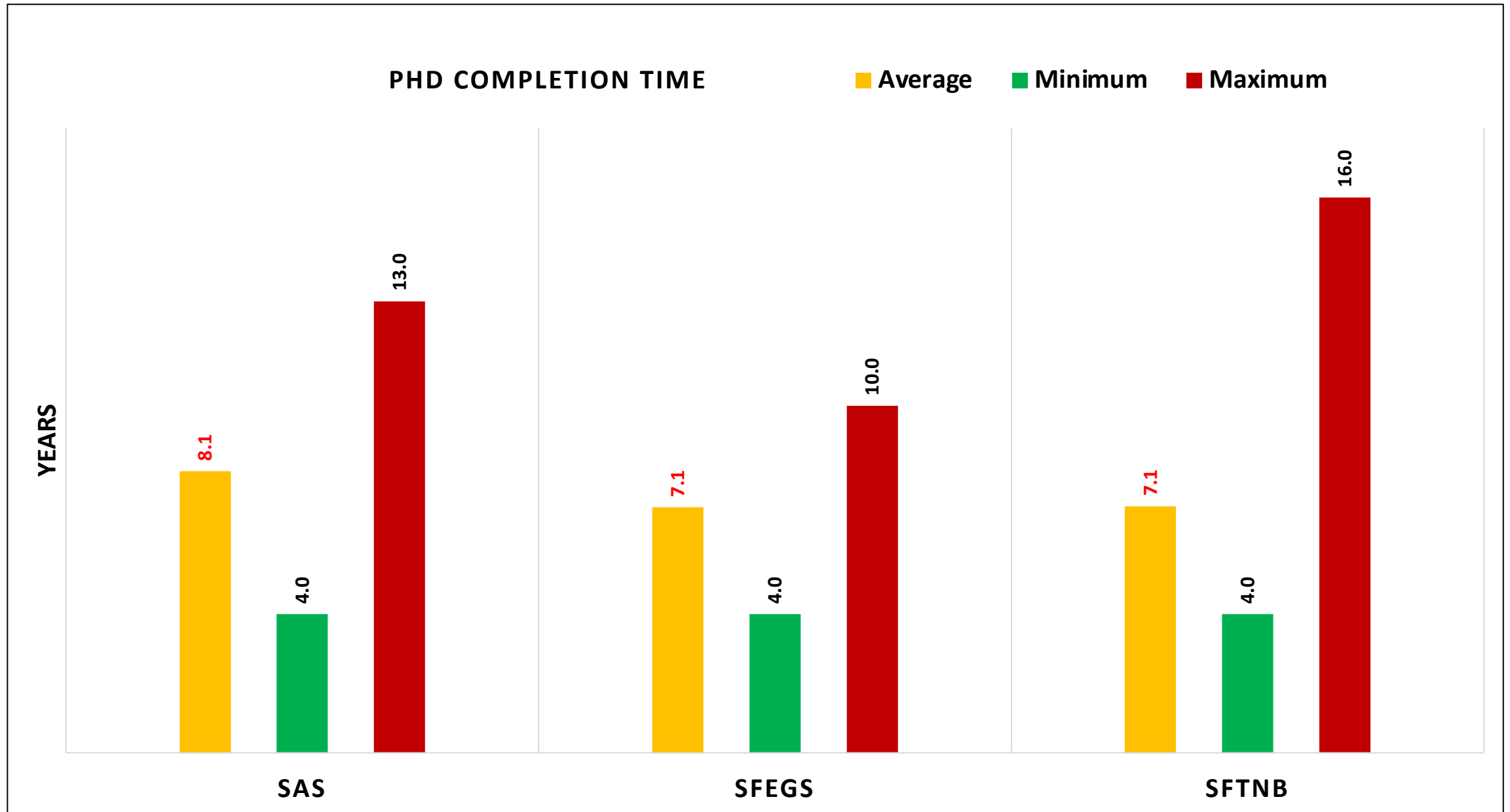
Translation/Conversion of Admission to graduation



Ca. 50 admitted per Year: 1 student out of 4 graduates

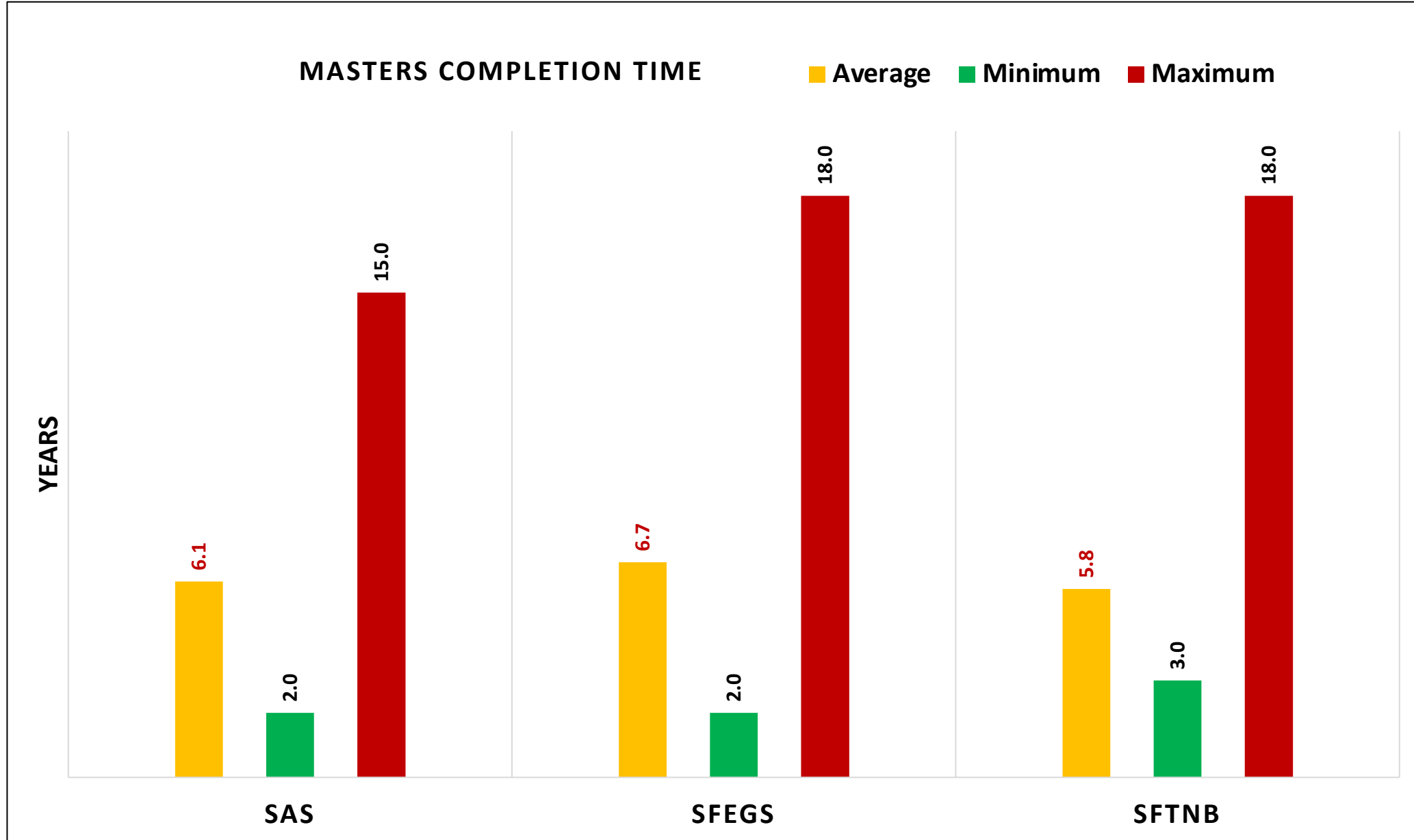
Situation Analysis

2. Graduate Backlog students - Completion



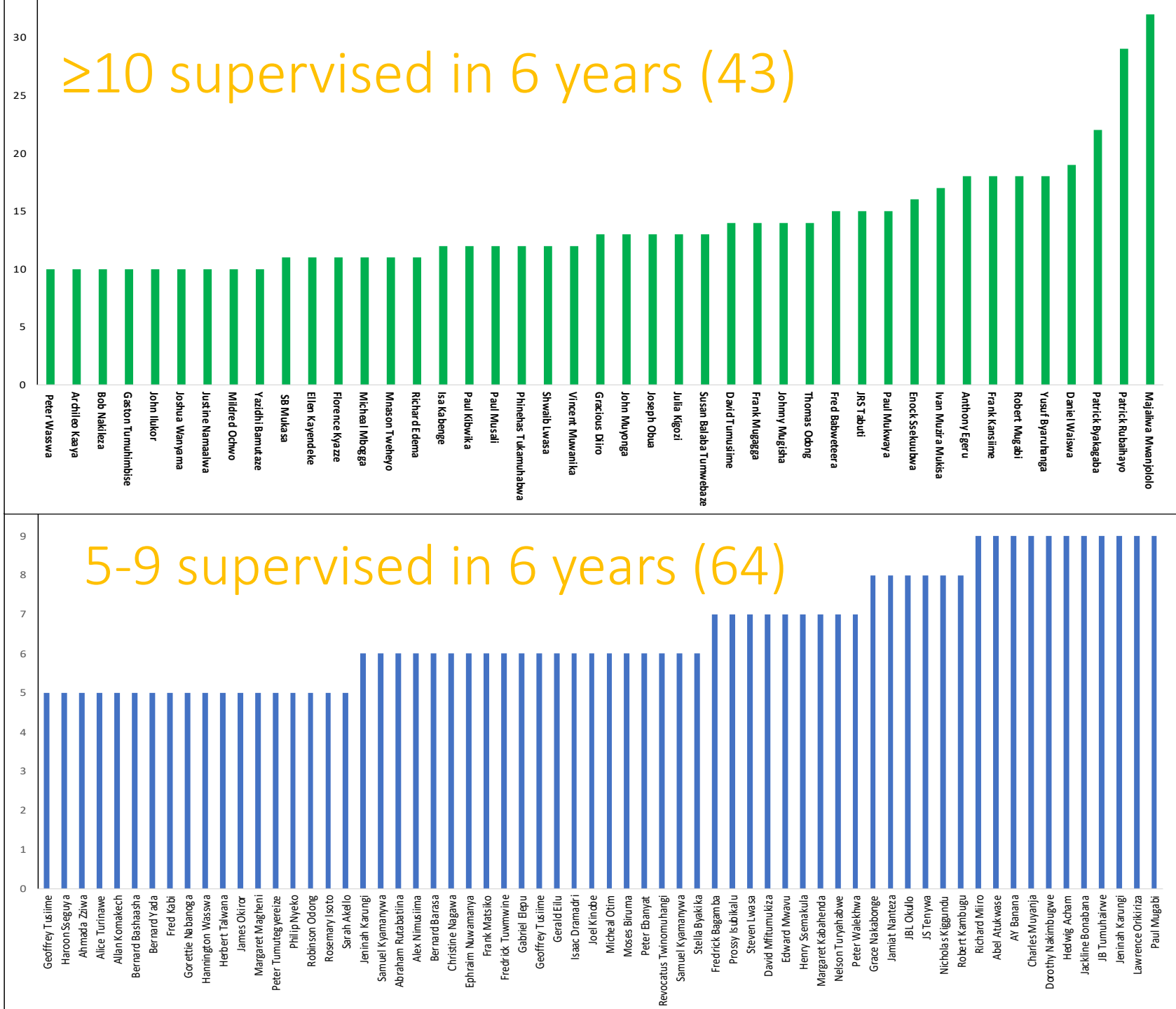
Situation Analysis

2. Graduate Backlog students - Completion



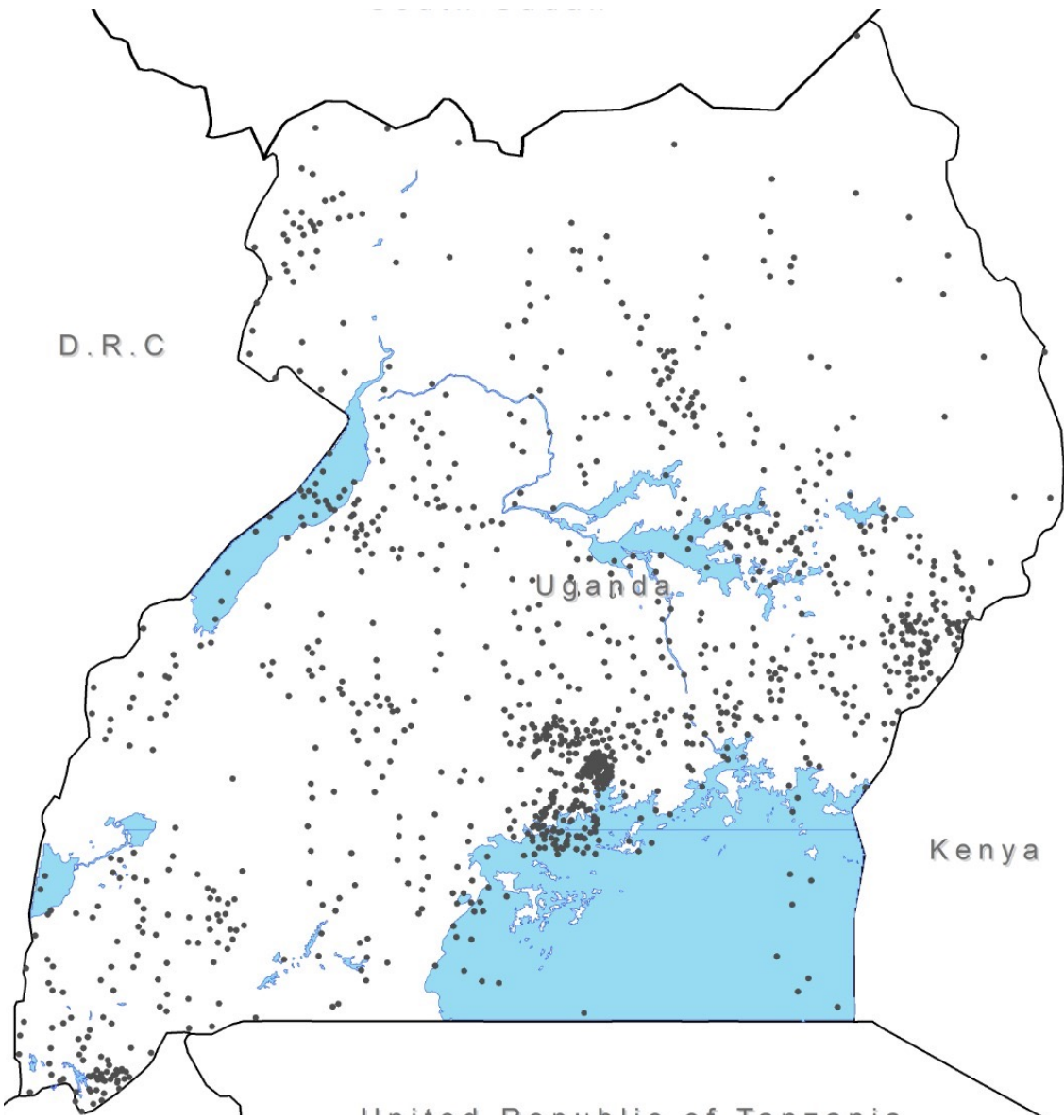
3. Situation Analysis

Staff productivity

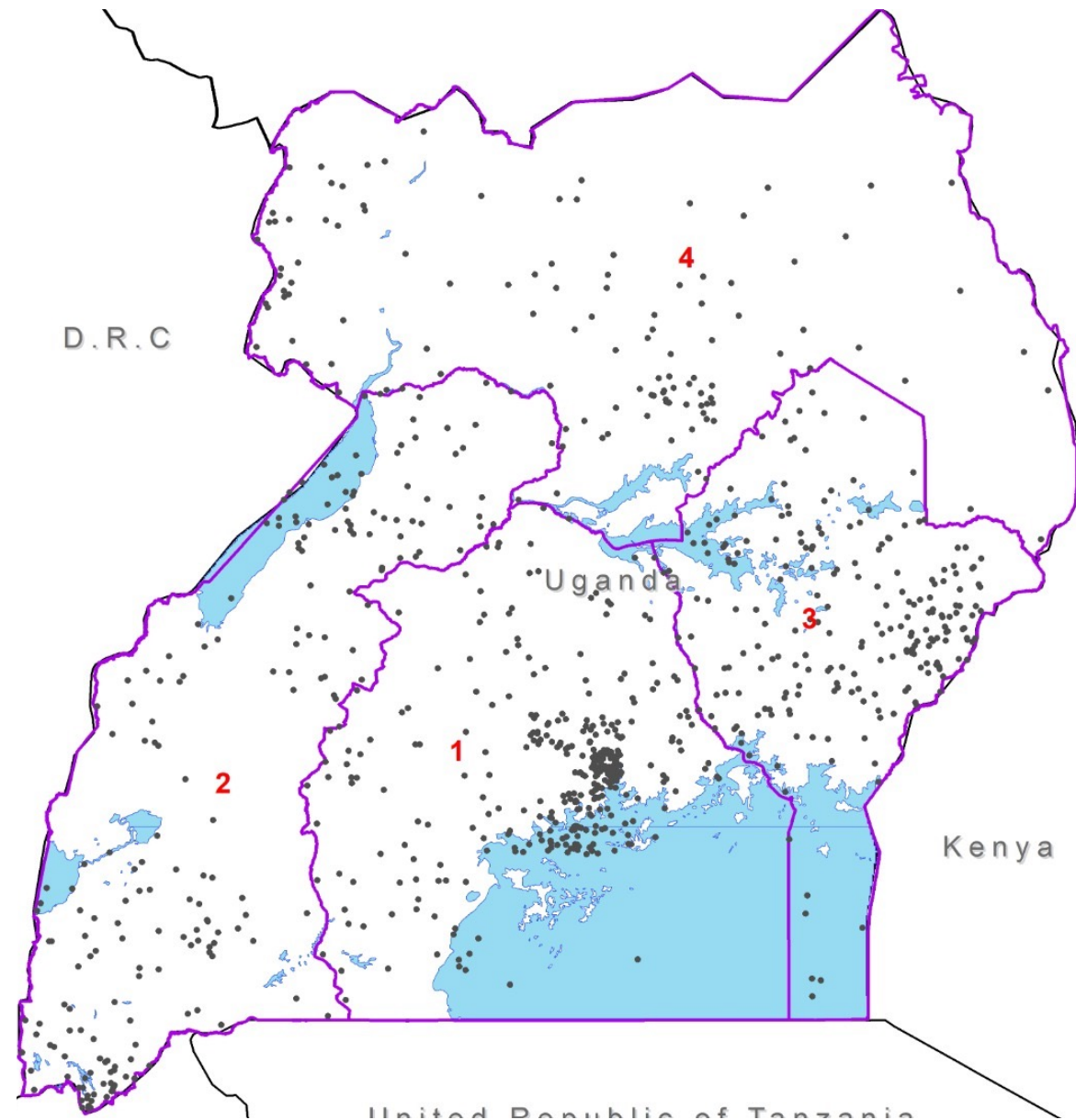


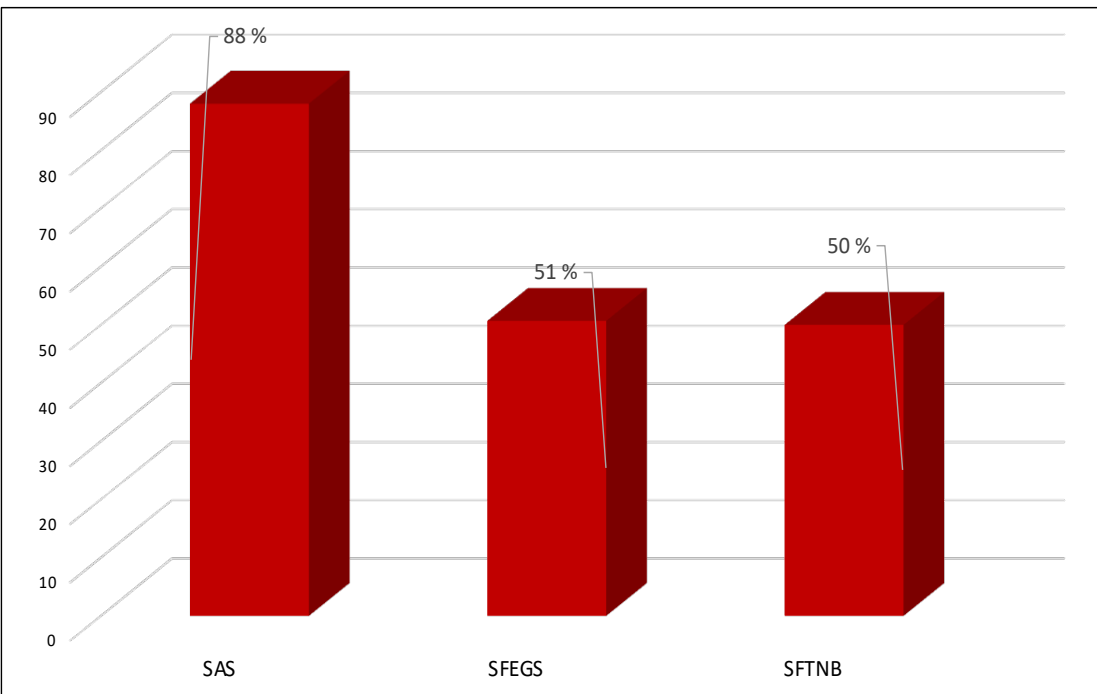
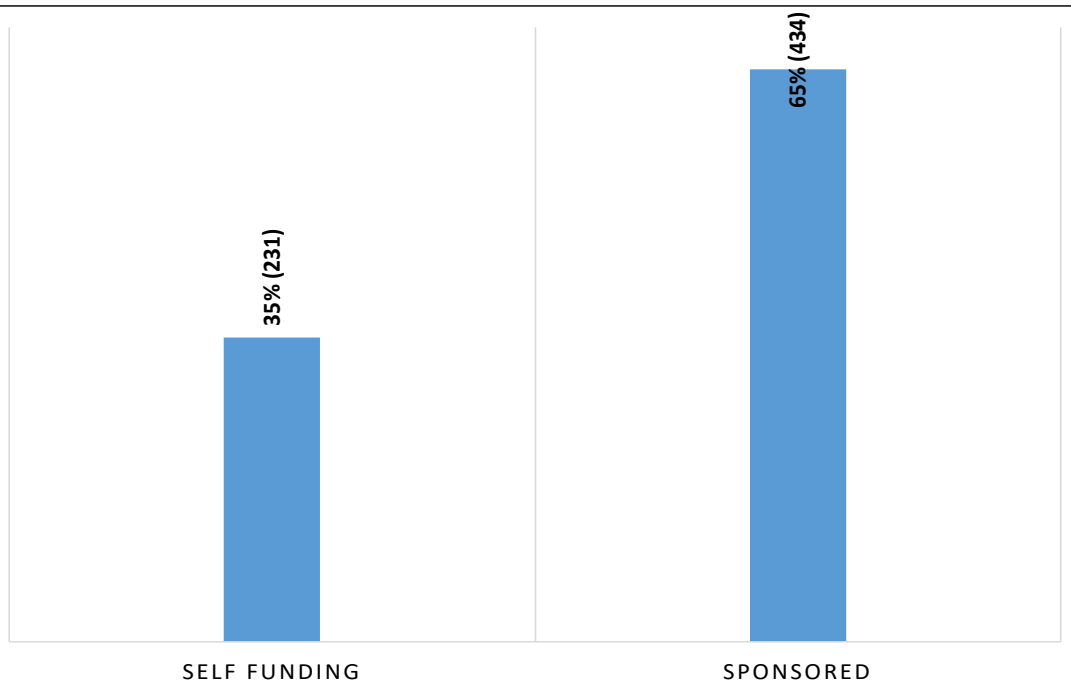
Min = 10
Max = 32

Min = 5
Max = 9



Situation Analysis: 5. Scattered Research - All Over the Map





Situation Analysis

6. Graduate research funded



Emerging issues from CAES Graduate Research

Summary Issue

- Graduate research not hinged on clear priorities: Neither is it demand driven
- Scattered all over the country
- Piecemeal, limited in scale and doesn't address bigger issues in the country
- Adhoc and projectilized
- Transdisciplinarity is lacking

Desired change/Improvement

- Improve the completion on time
- Creating Impact in the communities
- Enhance the efficiency Staff efficiency
- Contribute to the national and global development agenda
- Increased scientific outputs from the graduate research

Research for qualification Research for societal transformation



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Increasing Expectations of society: Shifting roles of Universities

1. Teaching to develop human capital
2. Research on a plethora of CCA issues
3. Outreach
4. Innovations
5. Industrialization
6. Mobilize funds
7. Produce entrepreneurs
8. Ready made solutions

Fit for Purpose struggle on universities



Theory of Change (TOC): Transformative Tenets

1. Transition to Programatic Research at CAES
2. Co-created Research Agenda with actors in the national agenda
3. Focussed in priority geographic areas
4. Implemented in a Transdisciplinary Manner
5. Human resource efficiency and resource optimization





1. Transition to Programmatic Research

- Develop core research programme foci under which graduate research

- Clusters or cohorts of students deployed

Food Systems? **Resilience?** **Genetics?** **Water security** Programmes derived from the research priorities



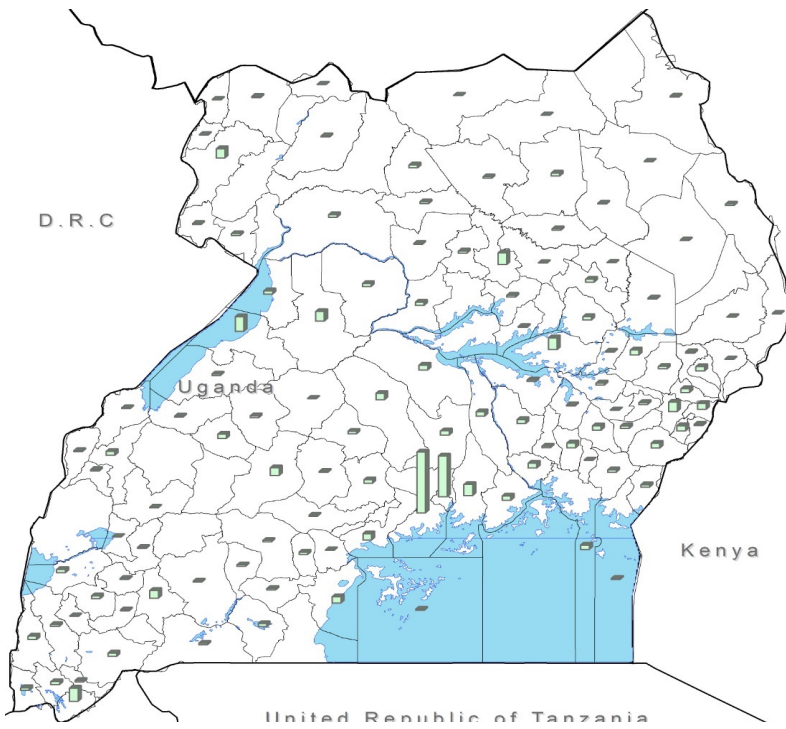
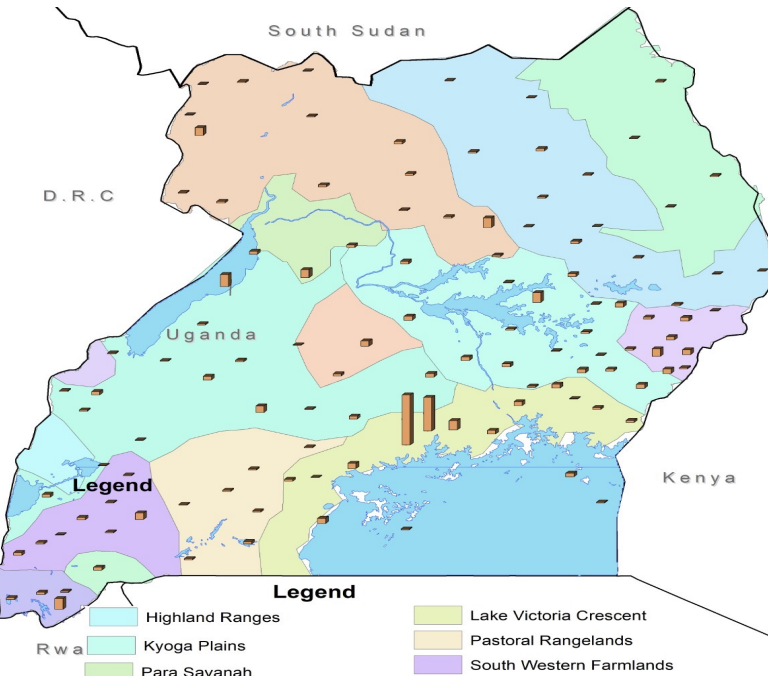
2. Co-Created Research Agenda



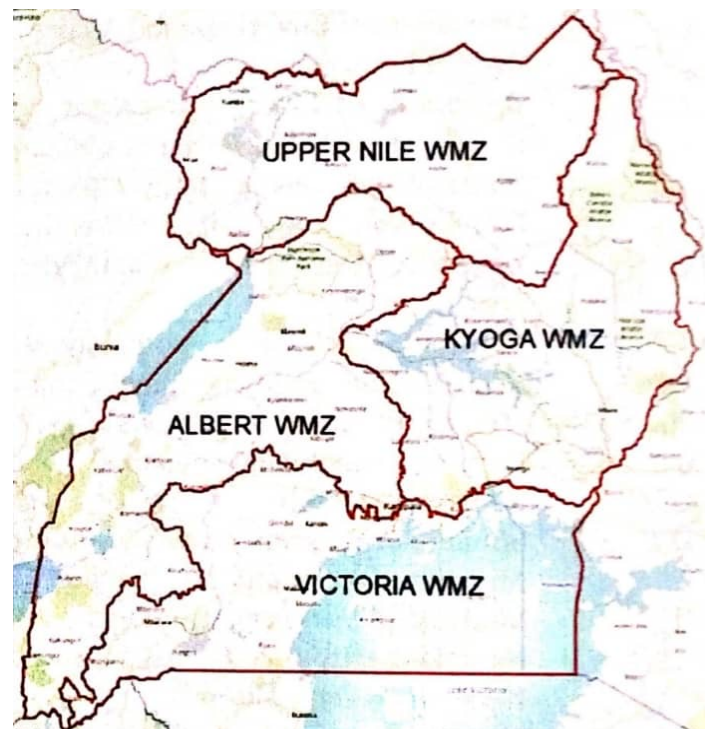
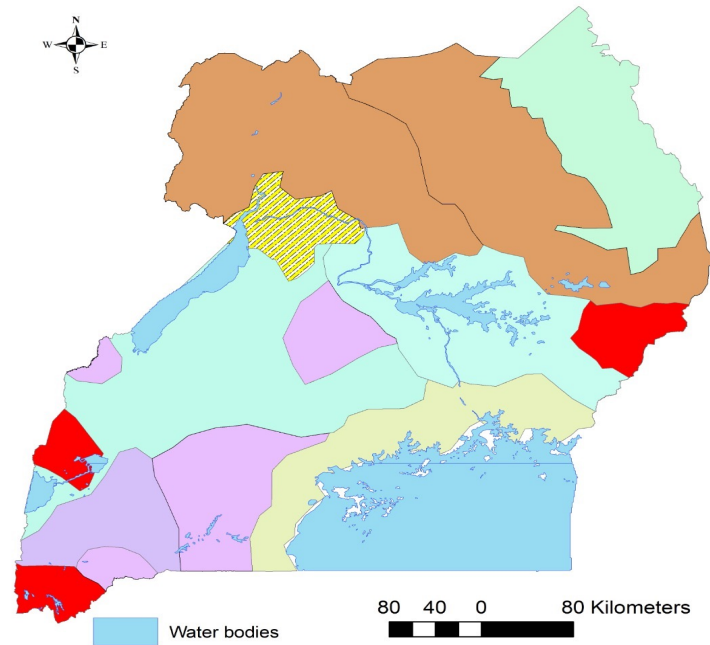
Empowered lives.
Resilient nations.



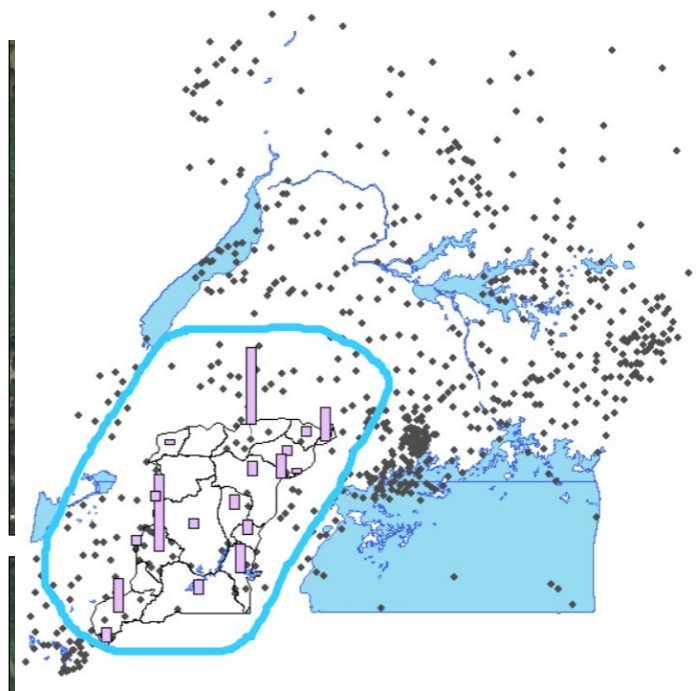
Tapping into an array of opportunities



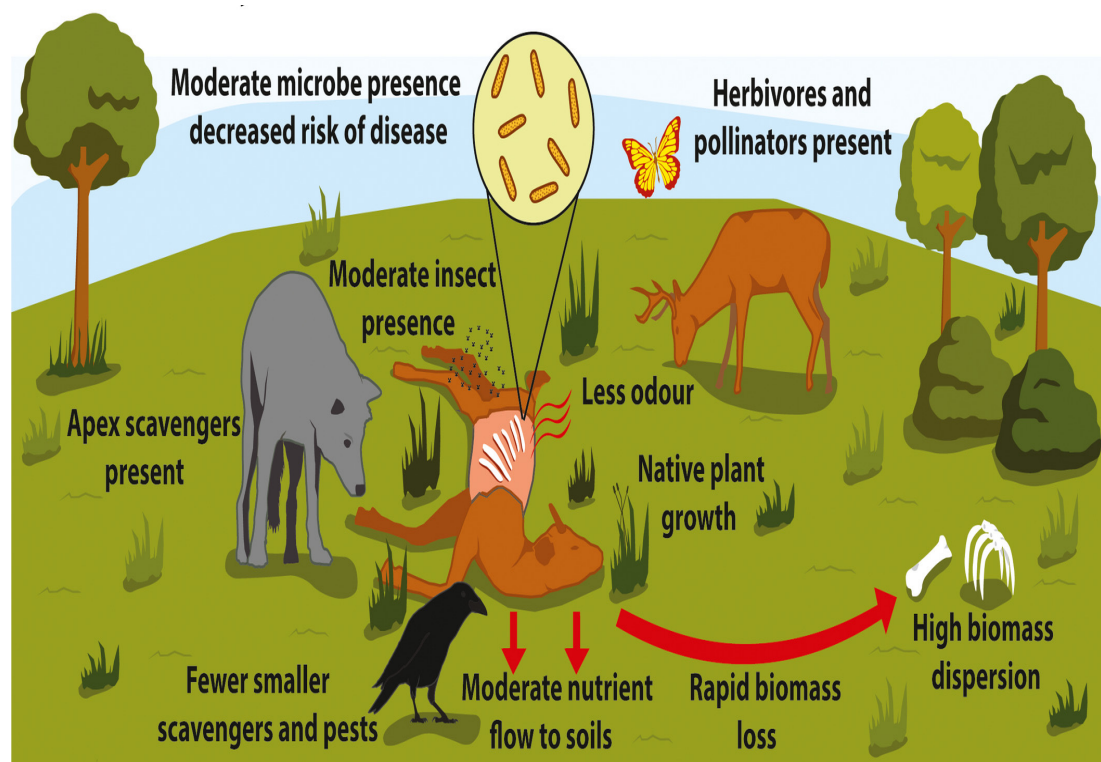
3. Prioritized Geographic Focus



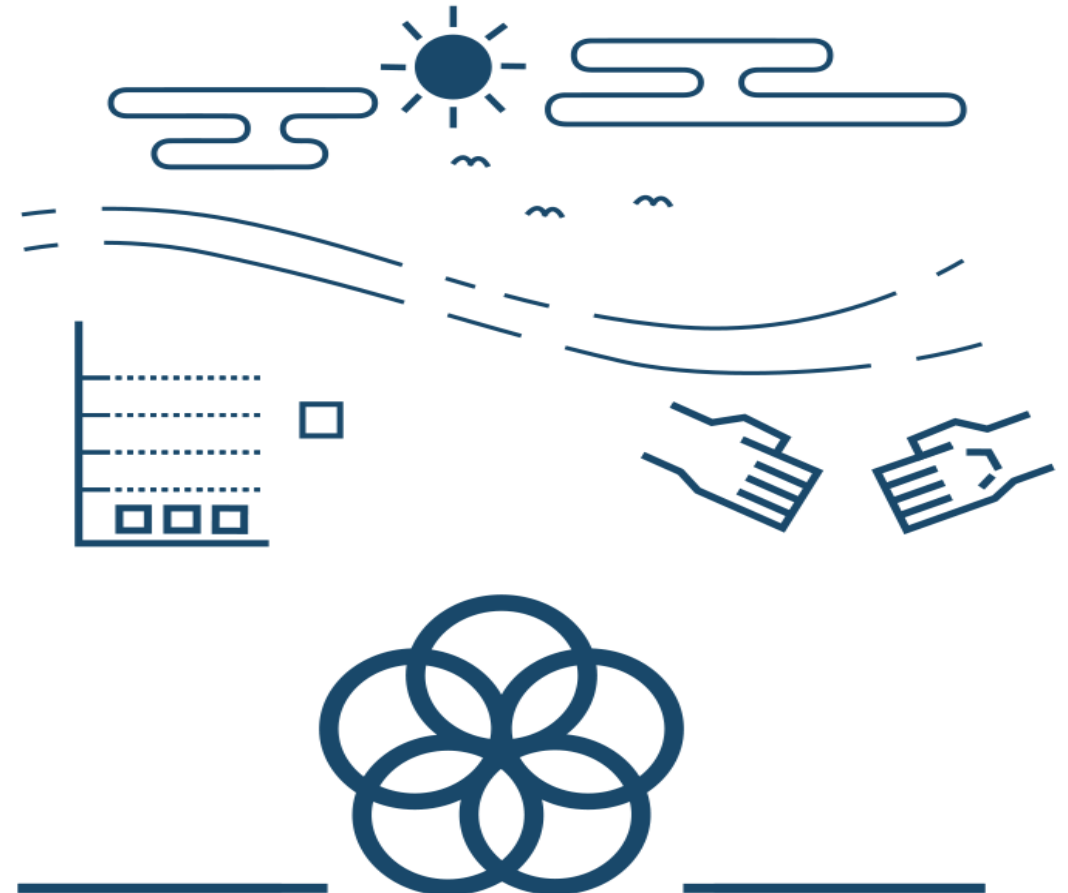
Field labs: Living labs: SDG hubs



4. Complex & Intertwined requiring an Ecosystem Approach



17 PARTNERSHIPS FOR THE GOALS



4. Shift to Transdisciplinary Research



Complex socioecological issues

Working with local government and
government agencies at the local scale
Generate long-term data

Optimize installations





5. Human Resource Efficiency & Resource Optimization

Field supervised and guided research

Multidisciplinary supervisors

Peer groups and cohorts

Well developed almanac for completion



Paradigm shift in Graduate Research: Key Ingredients

1. Buy-in into the vision
2. Budgetary allocations
3. Initiating MoU with relevant agencies
4. Leveraging on existing opportunities
5. Taking advantage of RIF: Piloting our model
6. Internal structures and processes

