



The Engineering and Science Complex

Corporate Advisory Committee

19 March 2025

- Directorate of University Advancement and Institutional Development
- University of Nairobi - ExpertiseFrance – AFD Group

FACTS & FIGURES



37 000 students
4 400 active MSc (/7500)
600 active PhD (/1400)
40% Women



60+ Teaching and
Research Depnts
in **10** Faculties &
18 Institutes/centers



2 100 Academic staff
1 500 Admin and Tech
500 project staff

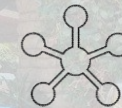


In 2023

52 research grants for **9M€**
35% of the **top1000** Kenyan scientists
850 publications in Journals
356 scholars w H-index > 10



55 Nationalities
1400 International
Students (mostly Af.)
Over 15 E+ agreements



1st in **Kenya** (QS, THE)
Top11 in **Sub-Saharan Africa** (QS)
By subject Life Sci., Natural Sci.,
Health Sci.
1 **Peace Nobel Price**



10 Faculties and 18 institutes & centres

Art and Social Sciences

Business and Mgmt Sciences

Education

Law

Agriculture

Built Envnt and Design

Engineering

Science and Technology

Health Sciences

Veterinary Medicine

Institute of Population Studies and Research

Institute of Diplomacy and International Studies

Institute for Development Studies

Department of Anthropology, Gender & African Studies

Centre for Environmental Law and Policy

African Women's Studies Centre

Wangari Maathai Institute for Peace and Environmental Studies

Institute for Climate Change & Adaptation

Centre for Bioinformatics and Biotechnology

Institute of Nuclear Science & Technology

Kantaria Agricultural and Technology Innovation Center

Kenya Aids Vaccine Institute

Institute of Tropical and Infectious Diseases

East African Kidney Institute

Center for Epidemiological Modelling and Analysis

University of Nairobi Clinical Research Centre

Confucius Institute

Centre for Translation and Interpretation

Key international partnerships

AFRETEC NETWORK
BY CARNEGIE MELLON-AFRICA



CMU-Africa



UNIVERSITY OF NAIROBI



UNIVERSITY OF THE
WITWATERSRAND,
JOHANNESBURG

The American
University in Cairo



UNIVERSITE
CHEIKH ANTA DIOP
DE DAKAR

Engineering and Technology universities that drives **Inclusive Digital Transformation** in Africa.

The primary objective of Afretec is to train **technology leaders and innovators in the ICT sector**.

EU co-funded intra Africa MSc/PhD/Staff Mobility program “GREEN-STEM” (granted)
Horizon EU AU-EU connect innovation ecosystem (ranked but not granted)



Key international partnerships



Building Capacities for Interdisciplinary Peace Research: Exploring Conflict, Environment, Technology, Inequality, and Identity in Africa

The Politics of Sustainable Development

Promoting Impactful Research and Education on Inequalities, Poverty, and Deprivation Across Africa

Creative Economies - Cultures, Innovation and Sustainability

Nature-Based Solutions for Climate Change Adaptation and Mitigation

Sustainable Water and Land Resource Management for Human Well-Being

Artificial Intelligence, Data Science, and Theoretical and Computational Thinking

Mathematics

Sustainable Food Systems

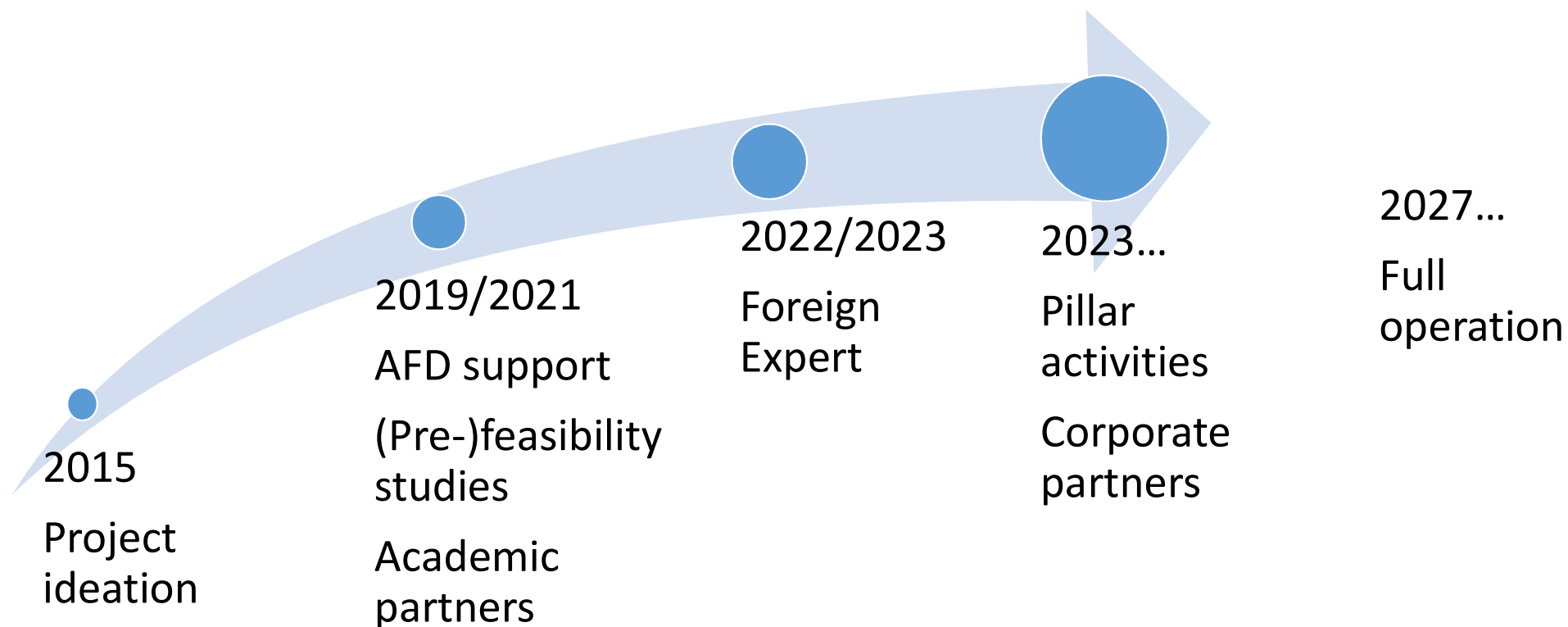
Engineering for the Future

Communicable Diseases and Multimorbidity

Genomics for Health in Africa



Engineering and Science complex: History

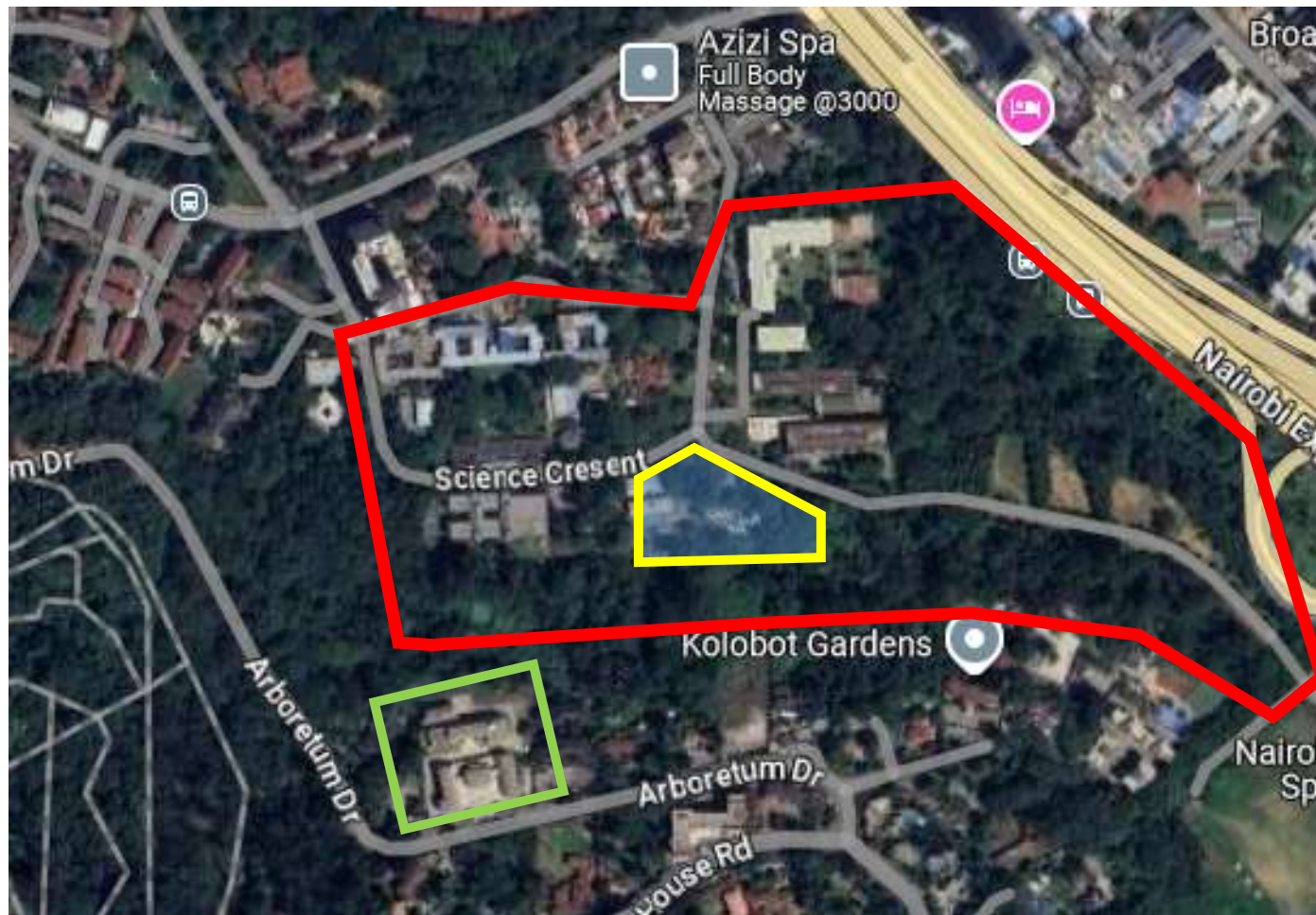


Breakdown

- **Building design & construction** 30M€ loan
- **GeoTech, Topo, ESIA, Program, Arch. Competition** 2,5M€ grant
- **Academic Cooperation** 2M€ grant
 - **Governance & Management**
 - **Curricula**
 - **Research & Innovation**
 - **Industry-Academia linkages**
 - **Internationalisation**
- **Gender** 0,5M€ grant
- **1 full-time expert 2022-2026** grant
- **Timeframe until Oct2027 (possible extension if no cost)**



Main location



The Building

- Geotechnical study done
- Topographical study done
- ESIA done
- Programming done
- EOI for Architectural design is in final stage

NEXT STEPS

- Architectural design competition (by May 2025)
- Ground Breaking (June)
- Contractors engagement from July 2025
- Construction 2025-2027...



The Engineering and Science Complex

One more empty building ?



Academic cooperation: The Tripartite Partnership Agreement May 2023



What have we done ?

- **60+ staff members** in pillars and **1 implementation team**
- **2 (+2) joint PhDs** and **4 post-docs** implemented
- **65+ participants** from KE and FR in research inc. **3 NROs (CNRS, IRD, CIRAD)**
- **150 students** addressed by the Company Series (2 editions)
- **7 partner companies** + **FR Chamber of Commerce** membership
- **2 EU proposals** submitted + additional **E+ partnership** programs (CS, PT, UCA)
- **1 additional proposal** in preparation with AFD
- **30+ staff mobility to France** and **15+ to Kenya** since 2022
- **10+ training modules** and **learning mobility**
- **≈15 students** in mobility since 2023 from a semester to 2 years
- **2 successful short schools** (CCA and Programming)
- **2 steering committee meetings** (+1 in a week)
- **1 publication in MIT/Harvard conf.** (+1 for Pretoria)...



The vision -> 8 COMMUNITIES of EXCELLENCE

An innovative
ecosystem of
Communities of
Excellence

Higher Ed.
Research
Innovation

International
Multi-disciplinary
Open & inclusive

Internal, External Stakeholders, Industry, Cies, Partners,
CBOs, NGOs, GOs, Agencies, Research Orga., Citizens...

Innovation ecosystem

Data/AI center

**Agriculture
and Food Sci.**

**BioTech, process
and green chem.**

**Industry 4.0
Manufacturing**

**Sustainable
Energy**

**Cities and
urban devpnt**

Health Tech.

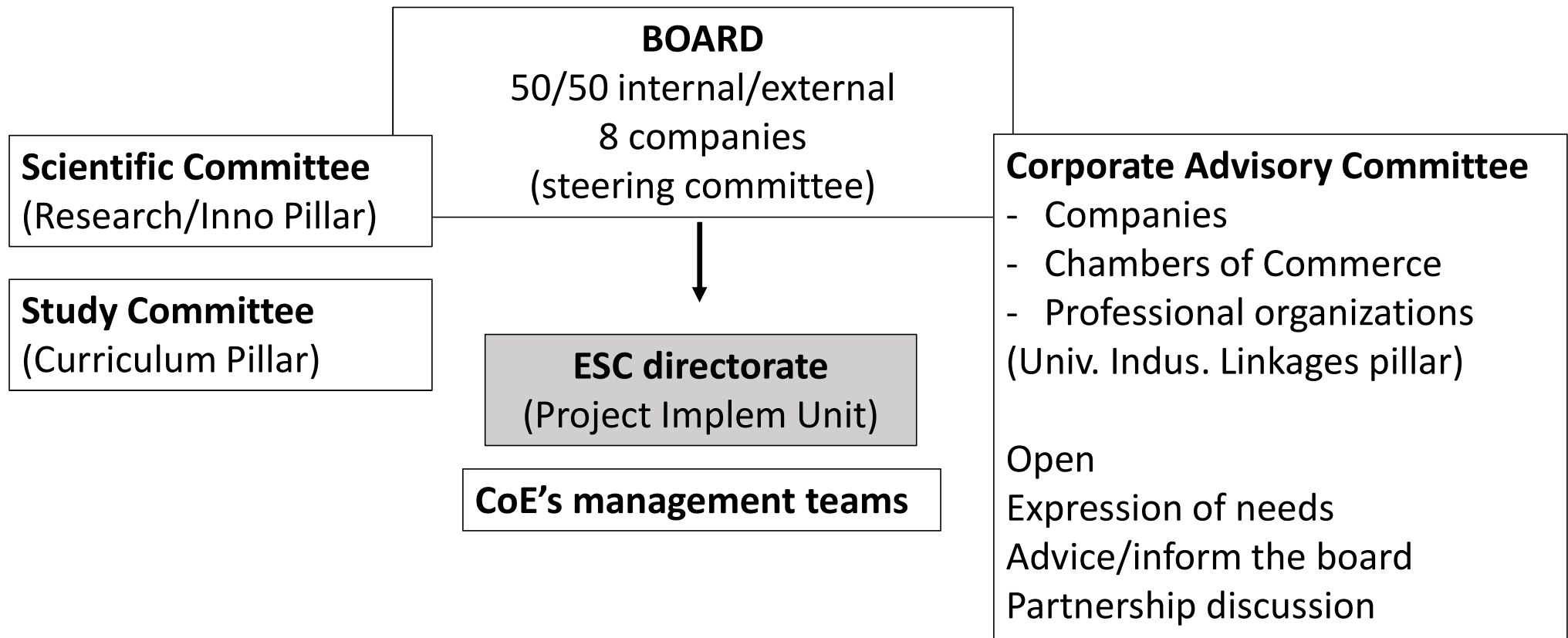
30 000sqm state-of-the-art academic building




Corporate engagement



What's the Corporate Advisory Committee?



Corporate Engagement: Education

	Partner	Category	UoN
Competencies and skills workshops/series Students tutoring & professional plan Forum, seminars, panel, schools, field visits Professional subjects teaching Professional tracks in academic programs Gender equity and inclusiveness	HR engagement		HR



Shaping a World of Trust



Company series



Industry experts in a panel



Students participating in a workshop



Mock interviews



spaghetti bridge - Problem solving Circuit



Field visit at Bamburi Cement






African School on Climate Change Adaptation



- First edition of the **African School on Climate Change Adaptation**.
- The two-week programme
- Coursework, projects, climate fresh, conferences, field visits, cultural awareness
- 40 students both local and international institutions (Kenya, Rwanda, Nigeria, France)
- <https://summerschool.uonbi.ac.ke>



More Corporate Engagement: Education

	Partner	Category	UoN
Company Series 50 100 200 students 3 7 15 partners 4 4 5 circuits 0 0 1 job fair	HR engagement		HR
Problems, Projects, Real case studies	1000€/Project HR		HR Bachelor/MSc/Staff
Placements, internships programs (Duo-Skilling/Apprenticeships)	Real costs		HR
International mobility schemes grants International program partnerships (EU)	Real costs	TBD	HR



Corporate Engagement: **Research & Innovation**

	Partner	Category	UoN
Start up Incubation & scaling up Open innovation & Intrapreneurship	5000€ HR		HR, start uppers, mentors
Research & innovation projects	7500€ or 15000€/Project HR		7500€ or 15000€ MSc/PhD/PostDoc/Staff
Research & innovation chairs	25000€ or 50000€/Chair HR		25000€ or 50000€/Chair MScs/PhDs/PostDocs/Staff
Sponsored PhDs (CIFRE model) International program participation (E+, Horizon EU...) Tech Transfer and IP Access to facilities and consultancy	Real costs	TBD	HR



What's a Chair?

Transversal project

- One team from one Community of Excellence
- Several UoN departments and labs
- Corporate partner(s)
- +
- Possibly a French partner and/or Research Organisation partner


to perform

- Upstream/downstream R&I project with educational component
- PhD and post-doc
- Multi-annual program
- Obligation of means
- IP rights





Corporate Engagement: Governance & Resources

	Partner	Category	UoN
Board and strategic committees participation Education / Research / Innovation Councils	From gold partners only	 ...	HR
Corporate Advisory Committee	HR		HR
Continuing & Executive Education Commercial services Dedicated events	Real or participative costs		HR
Spaces in ESC and satellites Naming, Branding & Comm Events Donations	Costs TBD	TBD	HR



Corporate Engagement: **Summary**

Categories		Fund raised	UoN
Bronze Partner		HR	HR
Silver Partner		1000€-5000€ + HR	Not topped up
Gold Partner		7500€-15000€ + HR	Topped up (8 to 10 max)
Platinum Partner		25000€-50000€ + HR	Topped up (4 max)
Donor / Sponsor Partner TBD Diamond Partner >50000		XXXXXX€	Not topped up



Main events



June 2025

**UoN ESComplex
Ground breaking
Chiromo campus**



Main events



March 2026

A unique presidential AF-FR summit

Many core and side events

Several 000 people

inc.

AU-EU Research and Innovation summit



The AU-EU Research & Innovation Summit

3-day event at UoN for 500pax in March 2026 as a side event of the Africa-France summit

- Presidential award (Macron/Ruto) + AU and EU officials
- Keynotes and panels with bigTech, research-based companies, innovators, stakeholders...
- « Start up arena »
- Thematic workshops on the Communities of Excellence
- R&I exhibition and Corporate partner fair
- Field visits
- Networking dinner

Objectives

- Create and animate an AU-EU networking platform
- Build human capital and capacities
- Increase collaboration between AU and EU innovators and their ecosystems
- Develop a common “AU-EU Start-up Arena”
- Promote cross-continental innovation
- Benefit of citizens, women, and vulnerable people and include people far from the innovation ecosystems.

Corporate Engagement: **Silver and higher categories**



Sponsor:

- 1 project (1000€)
- 1 Innovation team (5000€)
- 1 joint research (7500 to 15000€)
- 1 chair (25000 to 50000€)
- The AU-EU Research and Innovation 2026 summit

Be served by UoN team (students, faculties & facilities)

Network with UoN partners (AFRETEC, Europe...)

Be present in the UoN ESC communication & events

**Be showcased during the AU-EU R&I Summit 2026
and more upon discussion...**

