

INNOVATION CHALLENGE

EGERTON UNIVERSITY ENTREPRENEURIAL FRAMEWORK



PROGRAMME FOR EGERTON UNIVERSITY Www.egerton.ac.ke INNOVATION HACKATHON

Day	Duration	Activity	Facilitators
21/11/2025	8:30 - 8:40	Arrival & Regist.	Dr. M. Udoto (MC)
	8:40 – 9:00	Introductions	Prof. G. Owuor Director (R&E)
	9:00 – 9:15	Opening Remarks from DVC (A,R &E)	Prof. Bernard Aduda
	9:15 – 9:30	Official opening by the VC	Prof. Isaac Kibwage
	9.30-9.40	Objectives of the Hackathon (TTO)	Dr. Joseph Momanyi
	9.40-9.50	Objectives of the Hackathon (TTO)	
	9.50-10.00	Industry Experts	KIPI/KENIA
	10.00- 10.20	Health break	
	10:30 - 12:40	Presentations (each innovator 5 mnts)	Innovators/Jud ges
	12.45- 13.15	Results and Award ceremony	KIPI/KENIA VC DVC (A, R &E) Director (R
		Closing Ceremony	&E) Dr. Maurice Udoto
	13.20- 13.35	Launch of the Students Innovation Club by the Vice-Chancellor	Prof. Isaac Kibwage
	13.45- 14.00	Closing remarks	Prof. Benard Aduda
		Lunch break	



Our Vision

To cultivate a vibrant, student driven innovation culture within Egerton University that accelerates entrepreneurial growth and societal transformation.

Specific objectives

- Foster an innovation-driven mindset by nurturing creativity, critical thinking, and entrepreneurial skills among students.
- Bridge the gap between theory and practice through hands-on, real-world problem solving, prototyping, and venture development.
- Promote cross-disciplinary collaboration by bringing together students from various academic backgrounds to co-create impactful solutions.
- Provide access to mentorship and networks by connecting students with industry experts, innovation hubs, government agencies, and startup ecosystems.

From Academia to Industry: Redefining the role of a University

The Egerton University Entrepreneurial Framework institutional strategic commitment to transcend traditional boundaries. The framework is detailed in the blueprint paper entitled. Innovation. Entrepreneurship and Commercialization Master Plan (IECMP). While our core mission

remains to generate significant knowledge and education that innovatively ensures socioeconomic impact in Kenya and the region, IECMP Framework serves as the best foot to step the ground.

This Innovation showcase is one of the expressions in this Framework now in action. This is one of the acceptable ways the university is expressing commitment to turn cutting-edge ideas into viable solutions. The IECMP is built on **four** interconnected strategic pillars designed to support you—the innovator—at every stage realize your dream. Policy & Institutional Culture represent the Foundation, Research & Capacity, the Engine, Commercialization & Linkages the bridge, and IP Protection & Management the Shield.

1. The foundation (Policy & Culture)

At the very onset, we seek to establish clear policy and institutional culture. The purpose is to create a dynamic, supportive, and efficient environment which will nurture entrepreneurship at all levels-from student to senior faculty. This pillar ensures commercialization process is clearly defined, guidelines operational established, administrative bottlenecks minimized.

2. The engine (Research & Capacity)

Research and capacity represent the engine that drives Innovations. This pillar ensures we generate high-quality, commercializable knowledge and have the talent to execute. Egerton University has demonstrated this through its metric Infrastructure specialized labs (Biotech, Food Safety, Engineering Technology) and over {Ksh 1.67}\$ Billion worthy of external funding. The university's knowledge base is demonstrated by the over1,422 peer-reviewed publications and and 444 post-graduate theses repositories for last 2 vears. This Innovation showcase is Focused on the use of our rich scientific data and specialized labs to inform your proof-of-concept design strategic for your aid as the innovator at every stage:

3. The Bridge (Commercialization & Linkages)

Commercialization pillar bridges the Research to Revenue, the translation of incubated products into revenue-generating enterprises, fostering critical industry partnerships along the way. This pillar purposes to accelerate market uptake, drive industry collaboration, and create new revenue streams for the university. The university seeks to actively file many IPs, establish and grow/scale enterprises/startups. Today's showcase challenge focuses on the mining of IPs available, screen and high-ranking for obtain ideas. immediate registration for Patenting.

4. The Shield (IP Protection & Management)

IP protection and management or alternatively, Securing Your Idea represent the shield pillar. Under this pillar, the University shall systematically identify, evaluate, and file for the necessary protection (Patents, Trademarks, etc.) for all high-potential innovations. To this far, the university has established and operationalized an Intellectual Property Office (IPO) for scouting and initial protection support. The Launching of this Innovation Club is part of a comprehensive program to thoroughly cover the IPR Policy, startup policy and accelerate the processes.

Entrepreneurship Framework &



The Objectives of the IECMP Framework

The overall objective is to create a self-sustaining cycle where research, innovation, and commercialization drive revenue streams, industry collaboration, and national economic growth (aligned with Kenya's BETA). The activities will involve:

- a) Cultivating an Innovation Culture: This is to integrate entrepreneurial thinking and innovation across all academic disciplines and non-academic functions.
- Supporting Idea Generation: This involves
 providing specific resources and key
 infrastructure (physical and digital) to
 transform raw research into market-ready
 concepts.
- Facilitating Commercialization: It involves establishing clear, streamlined pathways for licensing, spin-offs, and partnerships which bring university IPs to market.
- d) Strengthening Ecosystem Linkages: We shall actively engage with government, private sector, and investment partners to secure needed resources and market access for our upcoming entrepreneurs.

The Expected Outcomes

- e) Job and Wealth Creation: Measurable increase in graduate-led and university spin-off startup companies.
- f) Increased IP Portfolio: Higher volumes of high-value patents, registered licenses, and intellectual property.

- g) Enhanced Revenue Streams: Diversified income for the University through successful commercialization and royalty collection.
- Community Impact: Successful deployment of innovations addressing key societal and environmental challenges (e.g., food security, water scarcity).

Key Milestones Achieved (I) - Infrastructure & Policy

Building the Foundation:

The university has an established Innovation, entrepreneurship and Commercialization Master plan (2025), an entrepreneurship policy 2025-(wip), reviewing IP policy (2019), Research policy(2019), Draft startup policy (2025), Consultancy policy (2019). Technology transfer offices and ihub business incubation services are now in place.

Technology Transfer Office (TTO)

Function: Central unit responsible for managing intellectual property, patents, licenses, and brokering commercial deals between researchers and industry.

Launch of the Innovation Hub (ihub)

Function: A dedicated physical and virtual space providing training, mentorship, and resources for students and faculty developing new products and services.

Draft Startup Policy

Significance: A formal institutional policy designed to clearly define equity sharing, IP ownership, and support mechanisms for university-affiliated startups.

Establishment of the Water De-fluoridation Unit

Impact: A technological breakthrough developed at Egerton, now being rolled out to address a critical public health and environmental challenge in fluoride-affected regions.

Key Milestones Achieved (II) - *Ecosystem Engagement*

IEC Implementation status

Activity	Status
Draft plan	Complete - Awaiting
	Approval
Establishment	Complete - Physical and

TTO	online (Web)
Staff	Coordinator appointed
Policy	Operational framework
	complete.
Startup policy	Work in progress (WIP)
Incubation site	Allocated, student led iHub
	established
Commercialization	4 complete, one operational
	(Water de-fluoridation Unit
	set for opening)
IP Protection	Work completed;
	1. 14 varieties with KEPHIS
	2. 1.variety with ICRISAT
	3. 1 copyright
	4. 2 trademarks -KIPI
	5. 1 patent

Robust Business Incubation Services

Comprehensive support including legal aid, business plan development, financial modelling, and access to initial seed funding for promising ventures.

Deepened Engagement in the Kenyan Entrepreneurial Ecosystem

Formalized partnerships with national incubation networks, private sector leaders, and regulatory bodies.

1. Active Participation in National Events

Consistent presence at national innovation summits, trade fairs, and policy forums, ensuring Egerton's visibility and influence.

2. Establishment of Valuable Network Resources

Building a critical database of mentors, venture capitalists, technical specialists, and industry partners accessible to young entrepreneurs.

3. The Current Milestone: The establishment of Student Innovation Club

Today's event represents the next evolution of our Framework—a rapid prototyping environment designed to generate market-ready solutions in high-pressure, collaborative sprints. We shall lift the results to the next level.

Egerton on the Kenyan Innovation Map

Evidence of Growth & Achievements

Egerton University's commitment to breakthrough research is evident in the successful commercialization of six (6) crop varieties, licensing of six (6) more, in the process of establishing four (4) spin-offs/startups.

Sorghum Beer: Development of a commercially viable, locally sourced beverage product.

Fish Feeds: Locally formulated, cost-effective feeds to support the burgeoning aquaculture sector in Kenya.

Our Commercialization Pathways

Egerton University actively uses multiple routes to ensure its research reaches the public:

Licensing: (As demonstrated by the Chelalang beans) Exclusive or non-exclusive rights granted to established companies.

Spin-off Companies: Directly assisting faculty and students to establish new companies based on University IP.

Joint Ventures: Collaborating with private firms to co-develop and co-fund innovative products.

Social Enterprise: Deploying low-cost solutions to community challenges (like the Water Defluoridation Unit).

The flywheel system & key levers we need, That can leverage multiple impact with same effort.

1. Innovation and Commercialization Infrastructure & Data systems.

This is the system we need in place to solve for visibility of innovation and research, Market validation and begin the process to unlock capital/funding from private sector.

2. Catalyzed Venture studio (the engine that transforms research into venture)

This is the system we need to catalyze our idea to market pathways, moving from

passive provision of limited infrastructure to a hands - on- co-founder role supporting the entrepreneurs to get to growth and scale.

3. Private Capital models & self replicating funding (brended financing)

This the system we need to create a self sustain system that is seeded with impact capital but grows to unlock private capital in a systematic and trusted mechanism that ensure incentive alignment of all stakeholders.

4. Policy alignment (partnership, IP, Curriculum teaching, procurement, incentives)

This is the system that ensure the enabling policies and processes are in place to support this vision to scale.

From internal institutional policies to national policies that can either enable or hinder progress must iteratively evolved

Questions Commonly Asked (QCA)

1. What is intellectual property?

Intellectual Property comprises intangible products of human intellect, such as inventions, literary works, designs, symbols, and trade secrets, safeguarded through patents, copyrights, trademarks, and trade secret laws, encouraging innovation and supporting economic development. In Kenya, IP is regulated by laws like the Copyright Act (2001), Trademarks Act Cap 506, Intellectual Property Act (2001), and international treaties, crucial for protecting creativity and fostering innovation.

2. Who can own intellectual property in Kenya?

IPR can be owned by individuals, businesses, or other entities. The owner of an intellectual property right has the legal authority to control how the IP is used and who can use it. Ownership of IPR typically arises in the following ways

I. Individual Inventors/Creators:

When an individual invents something (such as a new product or a piece of music) or creates original content (like a book or artwork), they automatically own the copyright or patent to their work.

II. Employers:

SDG Olympiad list of winning projects, 2025: Example SDG projects won elsewhere to learn from

Project turns orange peels into sustainable materials. The project delivers solutions for water, plastics, and CO₂. GRUNI

UNIVERSITÉ DE GENÈVE

UNIVERSITY OF COPENHAGEN

雪南大學

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KNUST

Ertoba: Meaning "unity" in Georgian, is an Al-powered platform to preserve endangered languages. It supports Mingrelian, Svan, and Abkhazian.

PealInnova:
A Chanalan start-up turning fruit and wood
A Chanalan ec-friendly products. Its
affordable solutions protect homes from
insects and improve lives.

The SDG Data Navigator: An AI chatbot giving instant, reliable SDG 3 health data. It helps users access verified stats and counter misinformation in real time.

Community-Based Action Plan for TID Children: Links families, the Lebanese Red Cross, and safe storage sites to secure insulin continuity during emergencies.

AquaNovate: A purifier uses capacitive deionization to clean water with low energy, turning biological waste into core filtration components.

ComNergy:
Project links 10,000+ unused GPUs to deliver affordable, eco-friendly AI computing while wind awners extra income.

In many cases, If an employee creates an invention or produces creative work within the scope of their employment, the employer owns the rights to intellectual property

III. Companies and Corporations:

Businesses often own patents, trademarks, and trade secrets related to their products and services. These rights are valuable assets that contribute to a company's brand and market position.

IV. Toint Venture/Collaborative Efforts:

Intellectual property rights can also be jointly owned when multiple individuals or collaborate on Ownership shares are typically defined in legal agreements.

Purchased or Acquired Rights:

Individuals or companies can acquire intellectual

property rights through purchase, licensing agreements, or mergers and acquisitions FIVE TYPES OF IPRS

Intellectual property encompasses various forms of creative and innovative endeavors, each protected by different types of rights:

Patents: Patents grant inventors exclusive rights to their inventions. preventing others from making, using, or selling the

invention for a limited period, usually 20 years from the filing date.



Fishnergy: Turns fish waste into biogas to power Maluku's coastal communities. The energy runs cold storage, extends fish shelf life, and cuts carbon emissions.

Wetlands-4Wellness & CycleCharge Power: Restores Kernya's Ondiri Wetland through the Cycle Power into clean transforms bicycle power into clean affordable energy using recycled car parts, respectively.

Team Factflow: Creates a student-friendly guidebook on weather, climate, and planetary health. It simplifies complex topics into engaging, relatable content for students.



Eco²-SHE& Tafiti Innovation Hub: Transforms agricultural waste into sustainable sanitary products, and develops a digital development projects across Africa, respectively.



rised/E.
Mobilizes youth into local climate cells to track deforestation and protect forests and water towers. Their actions connect directly to national policies and global platforms like COP30.

2. Copyrights: Copyrights protect original literary, artistic, and musical works, giving creators the right to control the use and distribution of their creations. Copyrights last for the author's lifetime plus 50 years

- 3. Trademarks: Trademarks safeguard symbols, names, and slogans used to identify goods or services, ensuring consumers can distinguish between different products in the market. Protection duration is usually 10 years and Trademark protection can indefinite as long as the mark is used and renewed.
- **4. Trade Secrets:** Trade secrets are confidential business information, such as proprietary methods, customer lists, or manufacturing processes, which provide a competitive advantage. Trade secrets have no fixed duration and last as long as the information remains secret.
- **5. Industrial Designs:** Industrial designs protect the ornamental or aesthetic aspects of a product, influencing its visual appeal. Industrial design rights usually last for 5 to 15 years, depending on the period of extension.



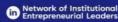
Mark your calendars! ##5th December 2025

Entrepreneurial Education Summit 2025

Join thought leaders, policy makers and partners as we shape the future of entrepreneurship teaching and learning across Kenya





























TAGDev 2.0 Scholarship 2024/2025