



# **Makerere University**

## **HEPSSA Project**

**Theme: Innovation, Entrepreneurship and Commercialization Training of trainers**

**Date: October 27 - 28, 2020**

**Engineering Innovation and Intellectual Property Management**

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Property Management**

# Ministry of Science, Technology and Innovation ( MoSTI)

- The Government of Uganda recognized the criticality of Science, Technology and Innovation (ST&I) in the National Development process and created a Ministry of Science, Technology and Innovation (MoSTI) in June 2016 to create an enabling policy environment to harness social and economic dividends arising from STI interventions.

## Vision

A scientifically proficient and technologically advanced innovative society.

## Mission Statement

To provide leadership, an enabling environment and resources for scientific research and knowledge based development for industrialization, competitiveness and employment creation for a sustainable economy.

## Mandate

The mandate of the Ministry is to provide policy guidance and coordination on matters of Scientific Research, Development and the entire National Innovation Systems in the country.



# Training Outcome(3)

- Managing intellectual property and protect their intellectual property rights using clear procedures and processes.

# Department of Innovation and Intellectual Property Management

## Specific Objectives

- ❖ To facilitate the innovators and researchers with technical and financial support towards registration of intellectual property rights
- ❖ To establish appropriate infrastructure to support innovation and creativity within the ST&I sector;
- ❖ To develop adequate human capital development for the IP value chain within the ST&I sector to support the innovation processes; and
- ❖ To develop adequate utilization of the IP system as a tool for spurring



# Department of Innovation and Intellectual Property Management

## What we offer

- ❖ Offer technical support in the entire IP value chain( Generation, Protection, commercialization and Enforcement)
- ❖ Financial support towards registration of IPRs
- ❖ Intellectual Property awareness training ( basic, intermediary and advanced)
- ❖ Developing Institutional Intellectual Property Policies and strategies
- ❖ Skilling the informal sector with Ideation and innovation expertise during New Product Development process
- ❖ Strategic utilization of Patent information in R&D
- ❖ Patent, Utility Model and Industrial design claim draft skills
- ❖ Support towards the filling and registration of Intellectual Property Rights.
- ❖ Technology mapping and trends analysis
- ❖ Strategic utilization of Intellectual Property among academia, RTOs & MSMEs
- ❖ Innovation, Technology & Intellectual Property Audit
- ❖ Due diligence of innovations and technologies



# Innovation & Intellectual Property

## Global Innovation Index 2020

- ❖ Who Will Finance Innovation?
- ❖ Annual global innovation trends and the Annual innovation rankings( 131 economies)
- ❖ Uganda ranked 114 (6<sup>th</sup> position in the low-income category economies (16).

“Innovation systems in Africa are broadly characterized by having low levels of science and technology activities, high reliance on government or foreign donors as a source of R&D, limited science-industry linkages, low absorptive capacity of firms, limited use of IP, and a challenging business environment” GII, 2020



# Innovation & Intellectual Property

## Situation in Uganda

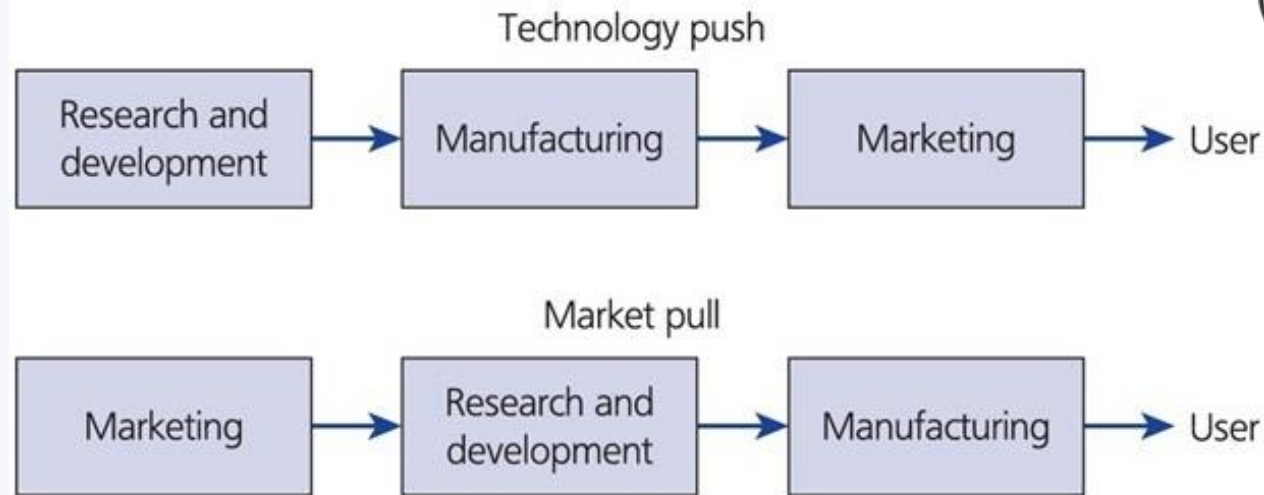
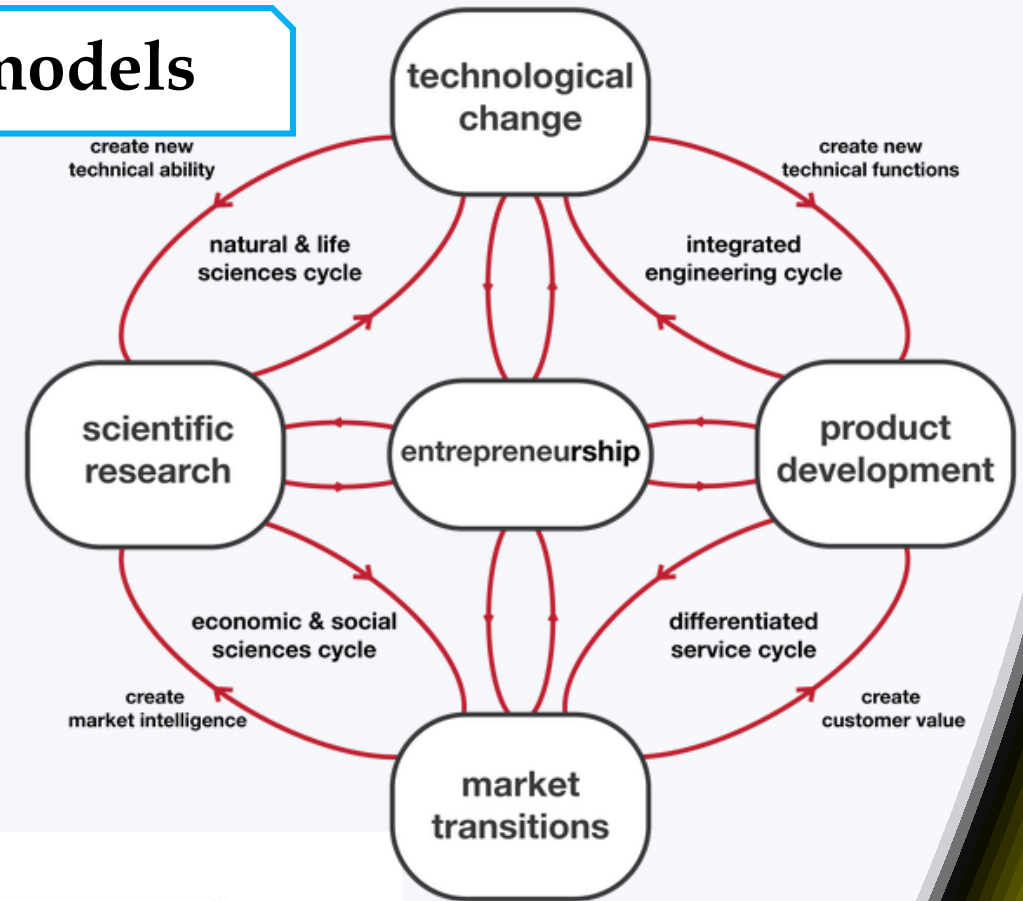
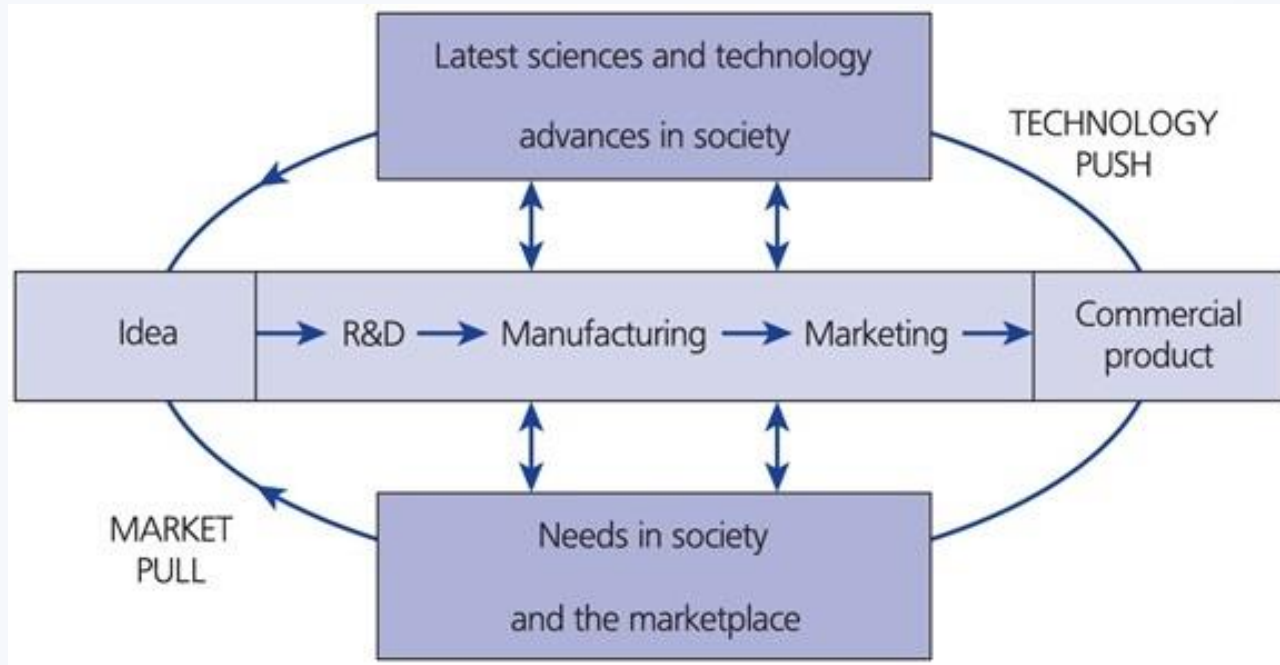
The apex institutions for managing operational and technical implementation, coordination, monitoring, evaluation and review of matters relating to IP in Uganda are ;

- ❖ The National IP Officer (URSB), under the auspices of the Ministry of Justice and Constitutional Affairs (Registry and custodians of IP grants)
- ❖ Ministry of Science, Technology and Innovation (Key lead implementer of the National IP policy)
- ❖ Uganda Printing and Publishing Corporation (UPPC)



# Innovation

## Innovation models



# International Patent Classification(IPC)

- The IPC system is a precise, effective and easy-to-use tool for classifying and searching patent applications, specifications of granted patents, utility models, and similar technical documents.
- It divides technology fields into eight sections (A-H) with approximately 75,000 subdivisions, each represented by a language independent symbol consisting of Latin alphabet characters and Arabic numerals.

# IPC MAJOR SECTIONS

- A: HUMAN NECESSITIES
- B :PERFORMING OPERATIONS; TRANSPORTING
- C :CHEMISTRY; METALLURGY
- D :TEXTILES; PAPER
- E: FIXED CONSTRUCTIONS
- F :MECHANICAL ENGINEERING; LIGHTING; HEATING; WEAPONS; BLASTING
- G: PHYSICS
- H :ELECTRICITY

# Fields of Engineering

- Aerospace/ Aeronautic Engineering
- Chemical Engineering
- Civil Engineering
- Mechanical Engineering
- Computer Engineering
- Electrical/electronic Engineering
- Engineering Management
- Biomedical Engineering
- Structural Engineering, etc

# HEPSSA TEAM

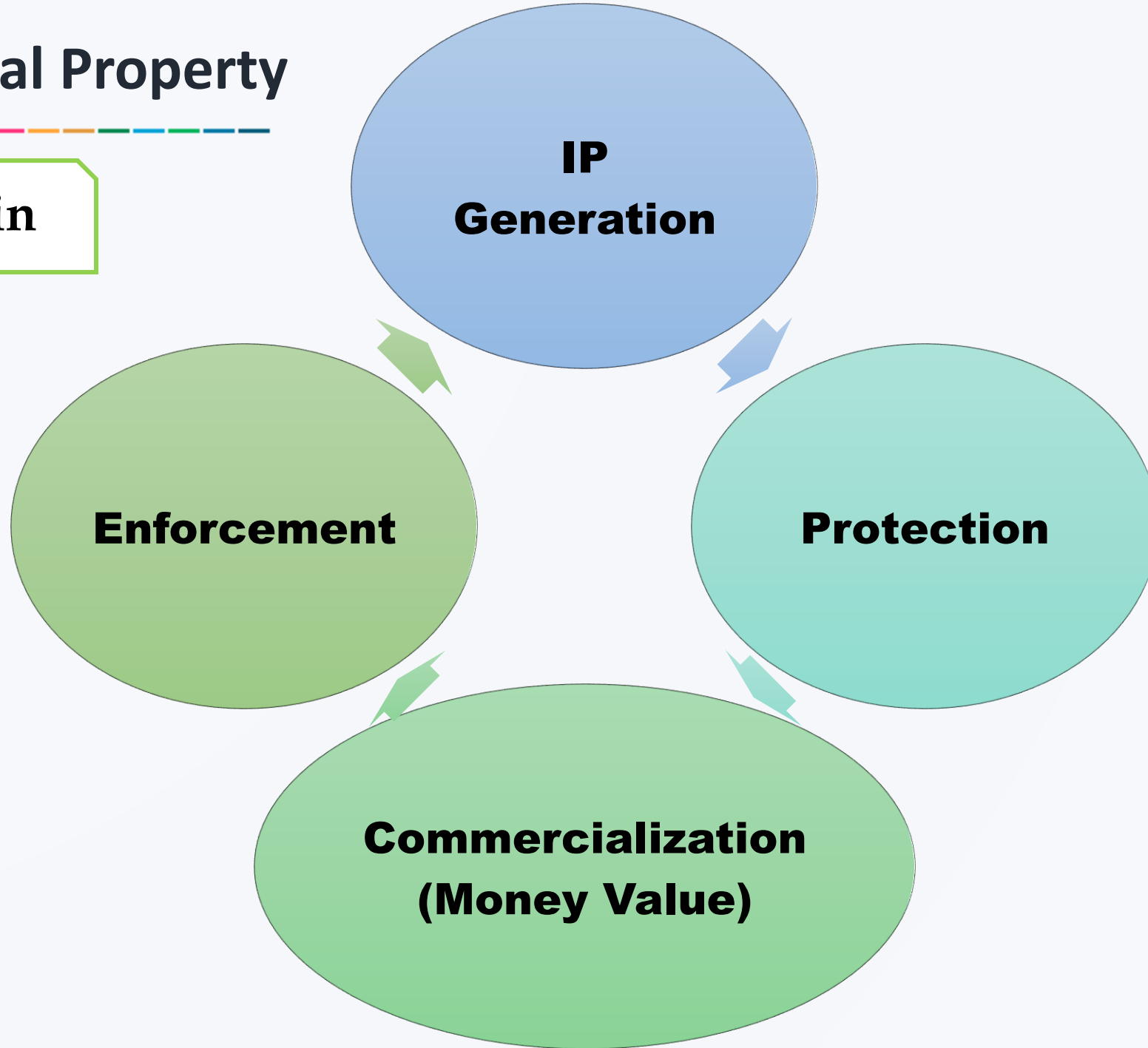
| S/NO | University | National Ranking | Continental | Global | Relevant Research/ Innovation/ IP Policies or Strategies |
|------|------------|------------------|-------------|--------|--|
| 1    | Makerere   |                  |             |        |  |
| 2    | Kyambogo   |                  |             |        |  |
| 3    | MUST       |                  |             |        |  |
| 4    | Ndejje     |                  |             |        |  |
| 5    | Busitema   |                  |             |        |  |
|      |            |                  |             |        |  |
|      |            |                  |             |        |  |

# HEPSSA TEAM IP LANDSCAPE

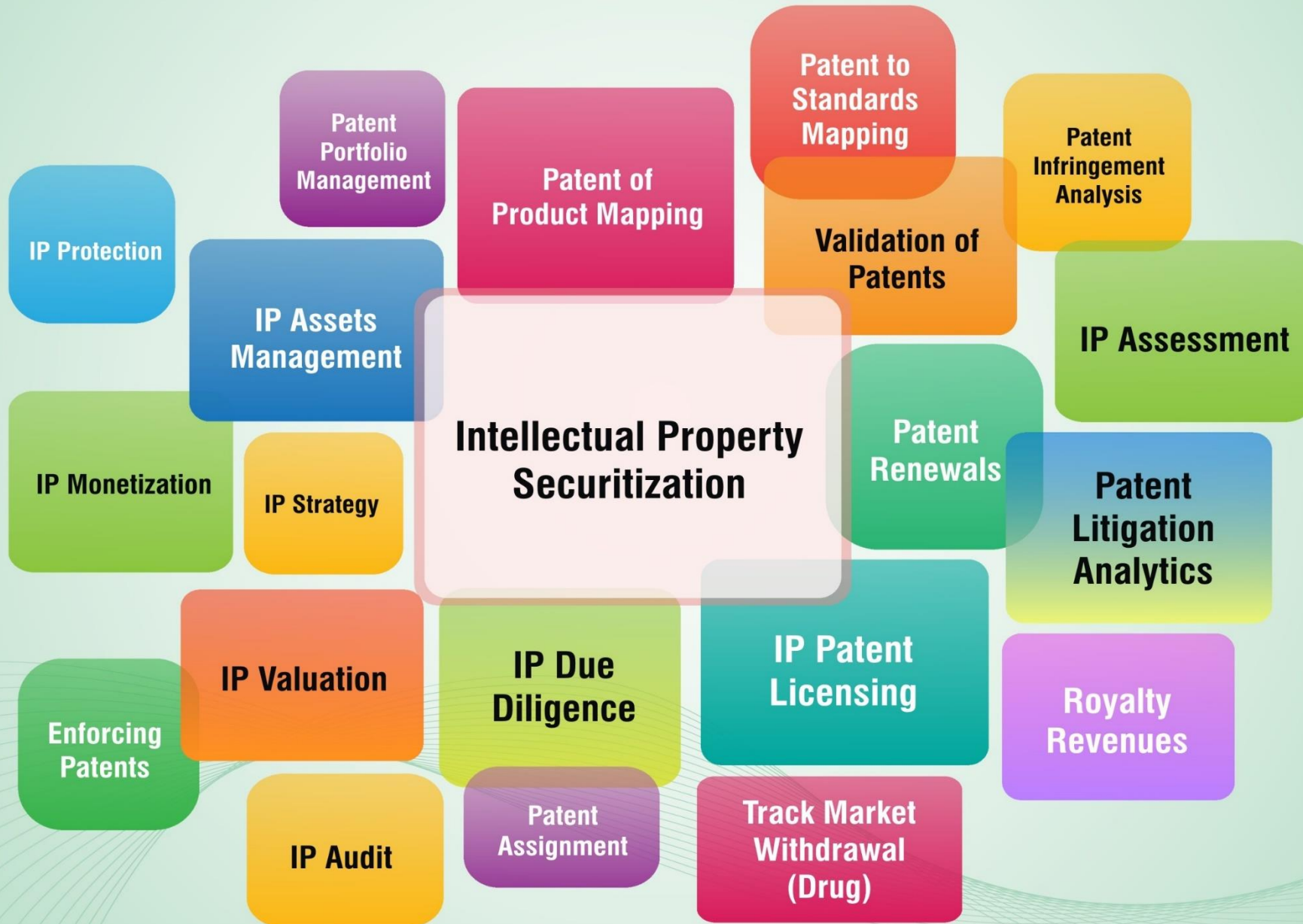
| S/NO | University | Patents | Utility Models | Industrial Designs | Trademarks | IEC Layouts | Copyrights |
|------|------------|---------|----------------|--------------------|------------|-------------|------------|
| 1    | Makerere   |         |                |                    |            |             |            |
| 2    | Kyambogo   |         |                |                    |            |             |            |
| 3    | MUST       |         |                |                    |            |             |            |
| 4    | Ndejje     |         |                |                    |            |             |            |
| 5    | Busitema   |         |                |                    |            |             |            |
|      |            |         |                |                    |            |             |            |

# Intellectual Property

## Value Chain



# Intellectual Property Management



# Why IP Policies for HEPSSA CLUSTER?

- To provide for the intellectual property generated at the institution;
- To promote the progress of science, technology and Innovation;
- To ensure that discoveries, inventions and creations generated by staff and students are utilized in ways most likely to benefit the public.

# Objectives of the Policies

- Creation of an environment that encourages and expedites the dissemination of discoveries, creations and new knowledge generated by researchers for the greatest public benefit;
- Protection of the traditional rights of scholars to control the products of their scholarly work;
- Ensuring that the commercial results, financial or other, are distributed in a fair and equitable manner that recognizes the contributions of the inventors and the institution as well those of as any other stakeholders;
- Ensuring that both intellectual property and other products of research are made available to the public through an efficient and timely process of technology transfer;
- Promotion, preservation, encouragement of and assistance to scientific investigation and research;

# Cont...

- Establishment of standards for determining the rights and obligations of a university or R&D institution, the creators of intellectual property and their sponsors, with respect to inventions, discoveries and works created at the institution;
- Encouragement of, assistance to and the provision of mutually beneficial rewards for a university or R&D institution and its members who transfer intellectual property to the public through commercialization and licensing;
- Ensuring compliance with applicable laws and regulations and enabling a university or R&D institution to secure sponsored research funding at all levels of research;
- Ensuring that institutions are aware of the different IP systems in place in the countries where the acquisition of IP rights is sought;

# HOT POINTS 4 THE POLICY TO ADDRESS

- Coverage of intellectual property policy;
- Ownership of intellectual property;
- Disclosure of intellectual property;
- Marketing, commercialization and licensing of patents;
- Distribution of income;
- Rights and obligations of an inventor and the institution;
- Other pertinent issues.

# Our Proposed Offer to the HEPSSA Project

- Offer continued technical support towards Innovation and Intellectual Property value chain Management to faculty, students involved in the HEPSSA project
- Support the participating institutions with development of Institutional Policies and strategies focused on Innovation, and Intellectual Property Management
- Guest lectures on the subject matter in respective universities, virtually or by physical contact
- Our hearts are open to partnership and achieve the HEPSSA Objectives

# Contacts

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Thank You

