

Accelerating Higher Education Expansion and Development Operation (AHEAD)



January 2018



**MINISTRY OF HIGHER EDUCATION
AND HIGHWAYS**



WORLD BANK GROUP



UNIVERSITY GRANTS COMMISSION

The objective of this operation is to increase enrollment in priority disciplines, improve the quality of degree programs and promote research and innovation in the higher education sector.

Results Area One:

Increasing Enrollment in Higher Education in Priority Disciplines for Economic Development

Results Area Two:

Improving the Quality of Higher Education

Results Area Three:

Promoting Research, Development, & Innovation



The resources will be disbursed initially to help achieve early results and subsequently upon achievement of a sequence of outcomes. Disbursement of funds is based on “Disbursement-linked indicators “(DLIs).

Results Area Three:

Promoting Research, Development, Innovation & Commercialization

- **AHEAD Program Development Objective (PDO)**

PDO 5: Number of competitive RDIC grants for STEM and HEMS disciplines, and interdisciplinary partnerships (STEM and HEMS) awarded and implemented

- **Disbursement Linked Indicators**

DLI 6: University level systems for Research and Development and Innovation and Commercialization (RDIC) programs developed and outcomes achieved

- **Intermediate outcome indicator 4**

The establishment and functioning of UBL Cells at universities in compliance with the circular will be assessed every year.

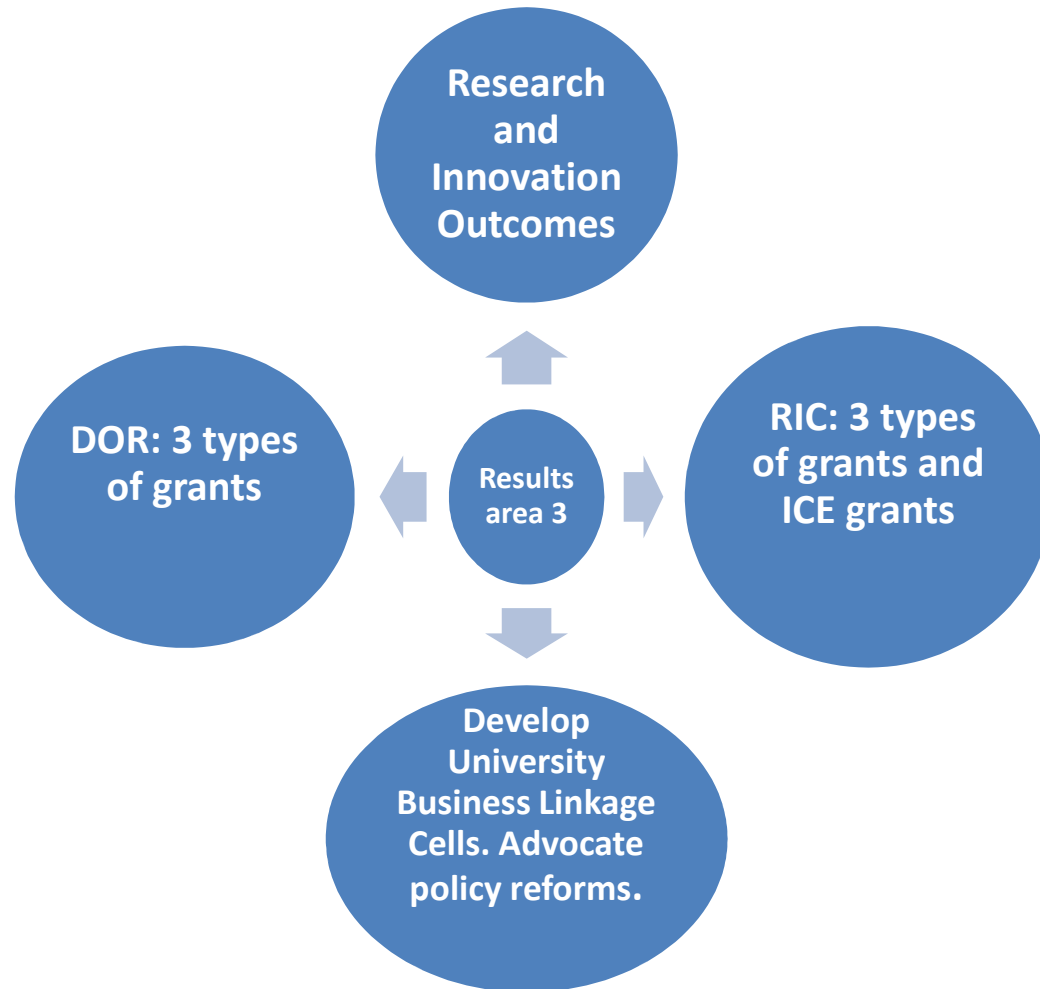
Results Area three:

Promote Research, Development,
Innovation & Commercialization

STEM: Sciences, Technology, Engineering, and Mathematics

HEMS: Humanities, Education, Management, Social Sciences

Key features of AHEAD/RDIC



Promote Research, Development, Innovation & Commercialization (RDIC)

AHEAD funds will be invested in improving RDIC through

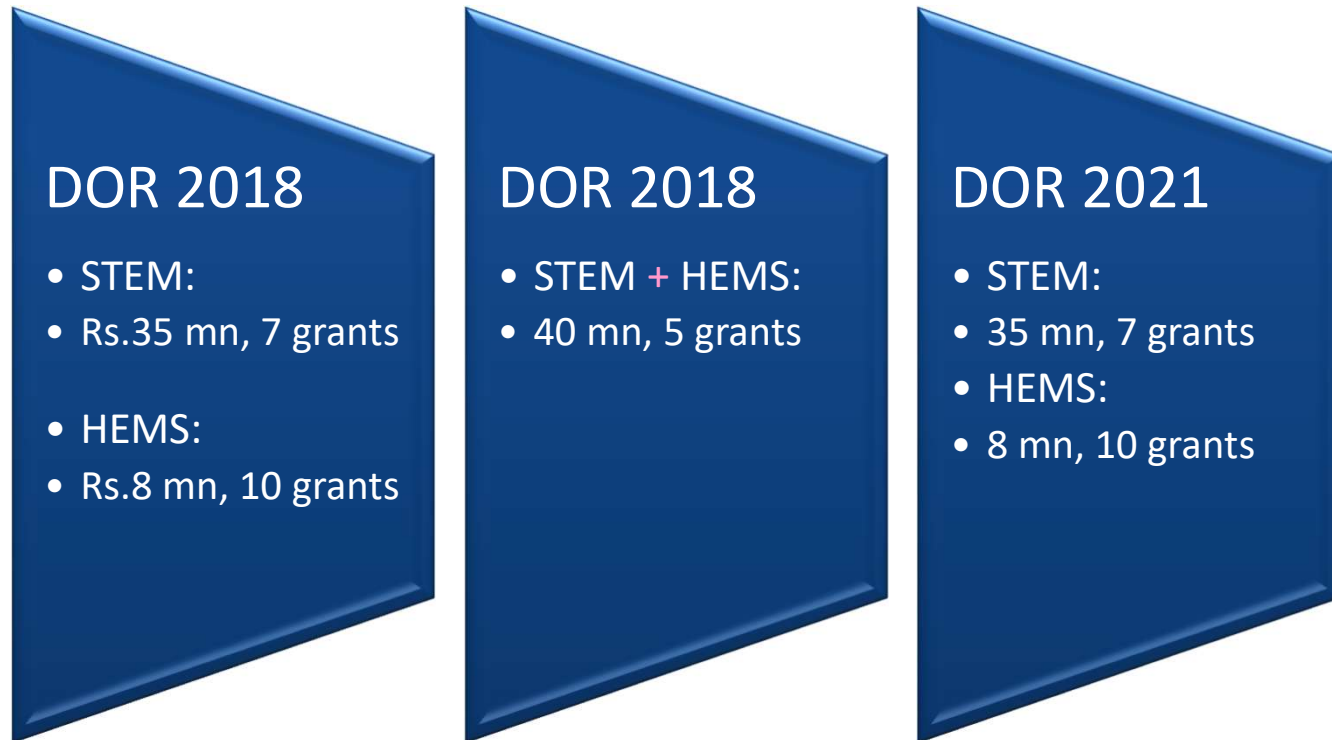
- ❖ **Sub-Result Area 3.1: Promoting academic research**
 - DORs for the STEM subjects.
 - DORs for the HEMS subjects.
 - DORs for a combination of STEM-HEMS research.

- ❖ **Sub-Result Area 3.2: Promoting innovation and commercialization of research**
 - RICs for the STEM subjects.
 - RICs for the HEMS subjects.
 - RICs for a combination of STEM-HEMS research.

- ❖ **Innovation commercialization enhancement grants**
 - For the nine programs under the HETC/QIG/W4

- ❖ **Establishment of University business linkage cells**

DOR will strengthen STEM and HEMS Development Oriented Research



DORs are Competitive grants: Refer to guidelines

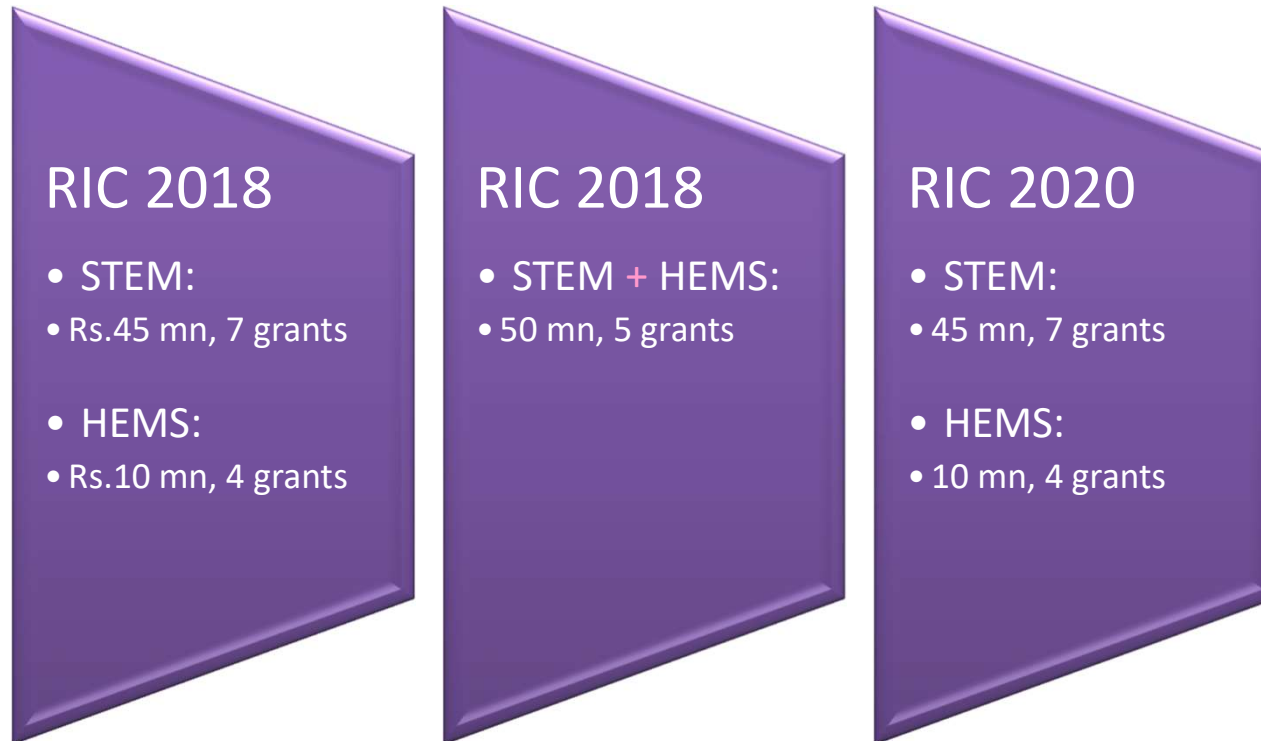
Total DOR for STEM = 14

Total DOR for HEMS = 20

Total STEM/HEMS = 05

Grand total = 39

RIC will strengthen STEM and HEMS Research Innovation & Commercialization



RICs are Competitive grants: Refer to guidelines

Total RIC for STEM = 14

Total RIC for HEMS = 8

Total STEM/HEMS = 05

Grand total = 27

ICE grants for HETC QIG /W4 winners

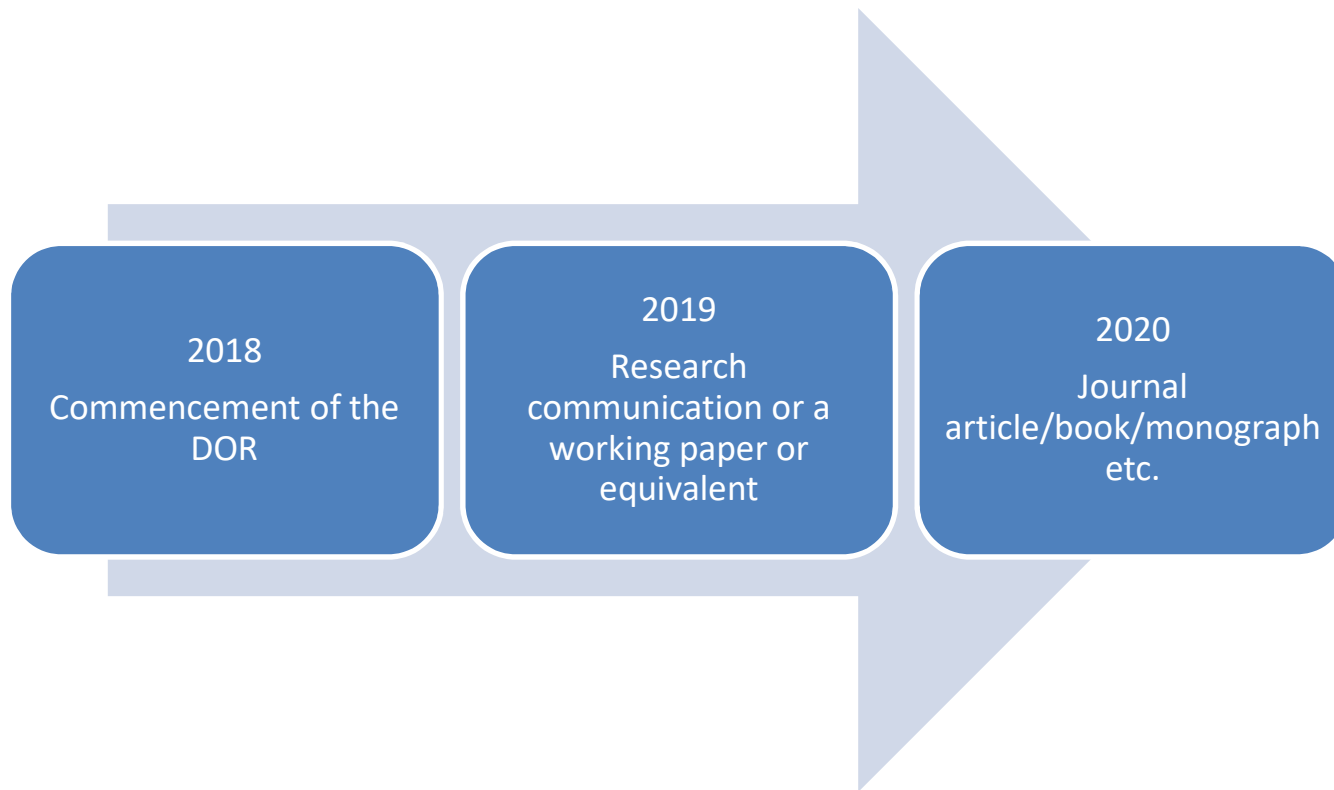
- Downstream grants from the HETC competition
- Awards based on:
 - a. Performance under HETC
 - b. Subsequent performance
 - c. Satisfactory proposals for sustainable future development

Research and Innovation Outcomes

- The recipients of DOR and RIC (including ICE) grants must aim to produce “research and innovation outcomes” during the grant period.

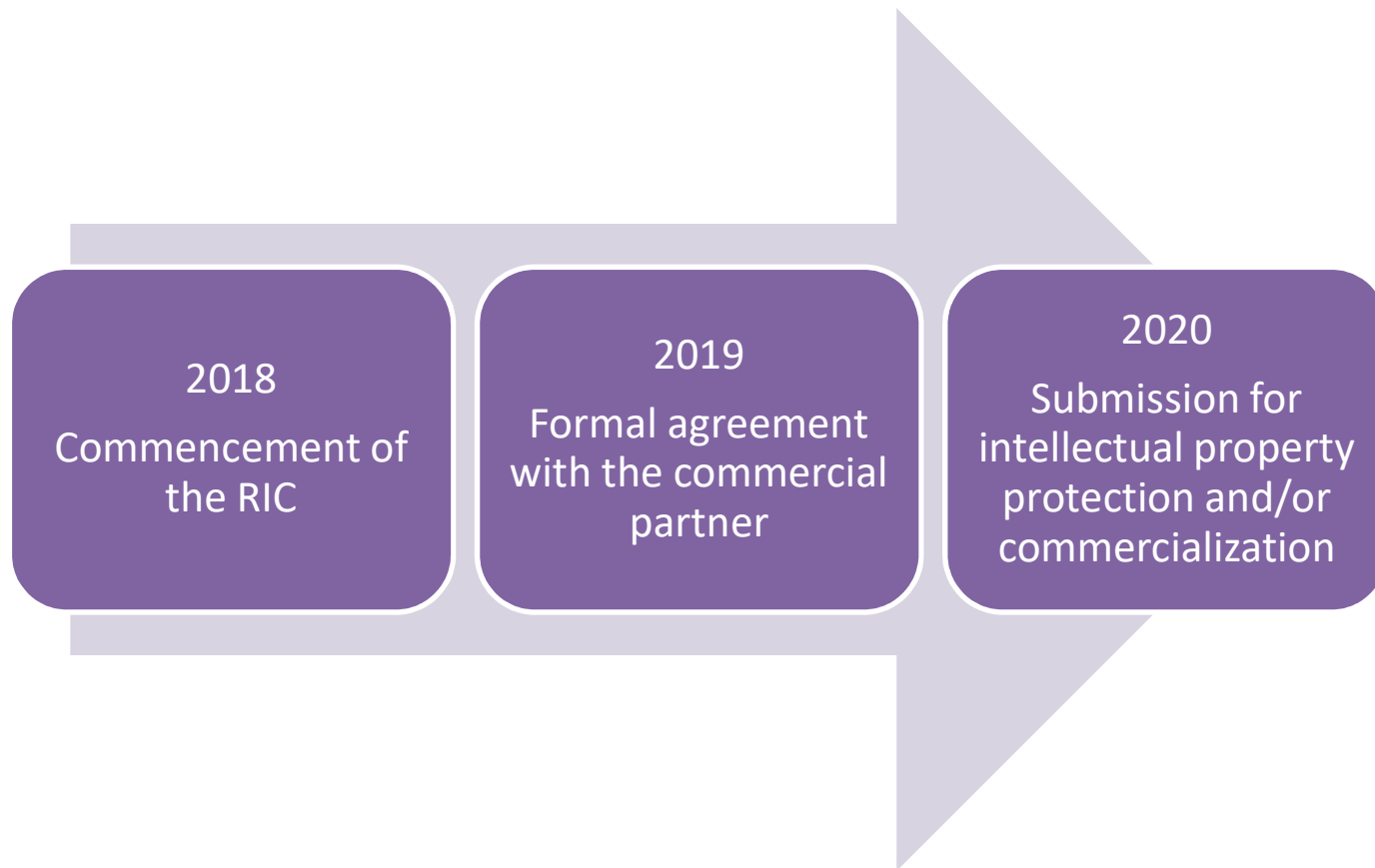
Note: The ‘research and innovation outcomes’ are a generic name for research results. Their format will vary across disciplines: for example, communications/presentations at conferences, working papers, journal articles, books, monographs, patents, copyrights, trademarks, license agreements.

Expected DOR outcomes



Second round DORs winners will start in 2019 and will complete in 2022

Expected RIC/ICE outcomes



Second round RIC winners will start in 2019 and will complete in 2022

Establishing contacts with Trade chambers and Trade Associations in Sri Lanka

Examples

- The Ceylon Chamber of Commerce
- The National Chamber of Commerce of Sri Lanka
- National Chamber of Exporters Sri Lanka
- Joint Apparel Association Forum
- Gem & Jewellery Authority
- Ceylon Coir Fibre Exporters' Association
- Colombo Stock Exchange
- Sri Lanka Apparel Exporters Association
- Sri Lanka Gem & Jewellery Association
- Chamber of Construction Industries, Sri Lanka
- The Ceylon National Chamber of Industries
- The Employers' Federation of Ceylon
- Federation of Chambers of Commerce & Industry of Sri Lanka
- European Chamber of Commerce of Sri Lanka
- The American Chamber of Commerce in Sri Lanka

Establishment of UBL Cells Based on UGC circular 10/2016

Conducted in 4 phases

Phase	Phase	Maximum score	Required pass mark	AHEAD funds (LKR million)
1	Establishment of Core UBL Cell	100	70	-
2	Completion of the infrastructure for the UBL Cell	75	50	4
3	Operationalization of UBL Cells	225	150	2
4	Outcome of UBL Cells	No limit	100	4

Potential outcomes from UBL cells

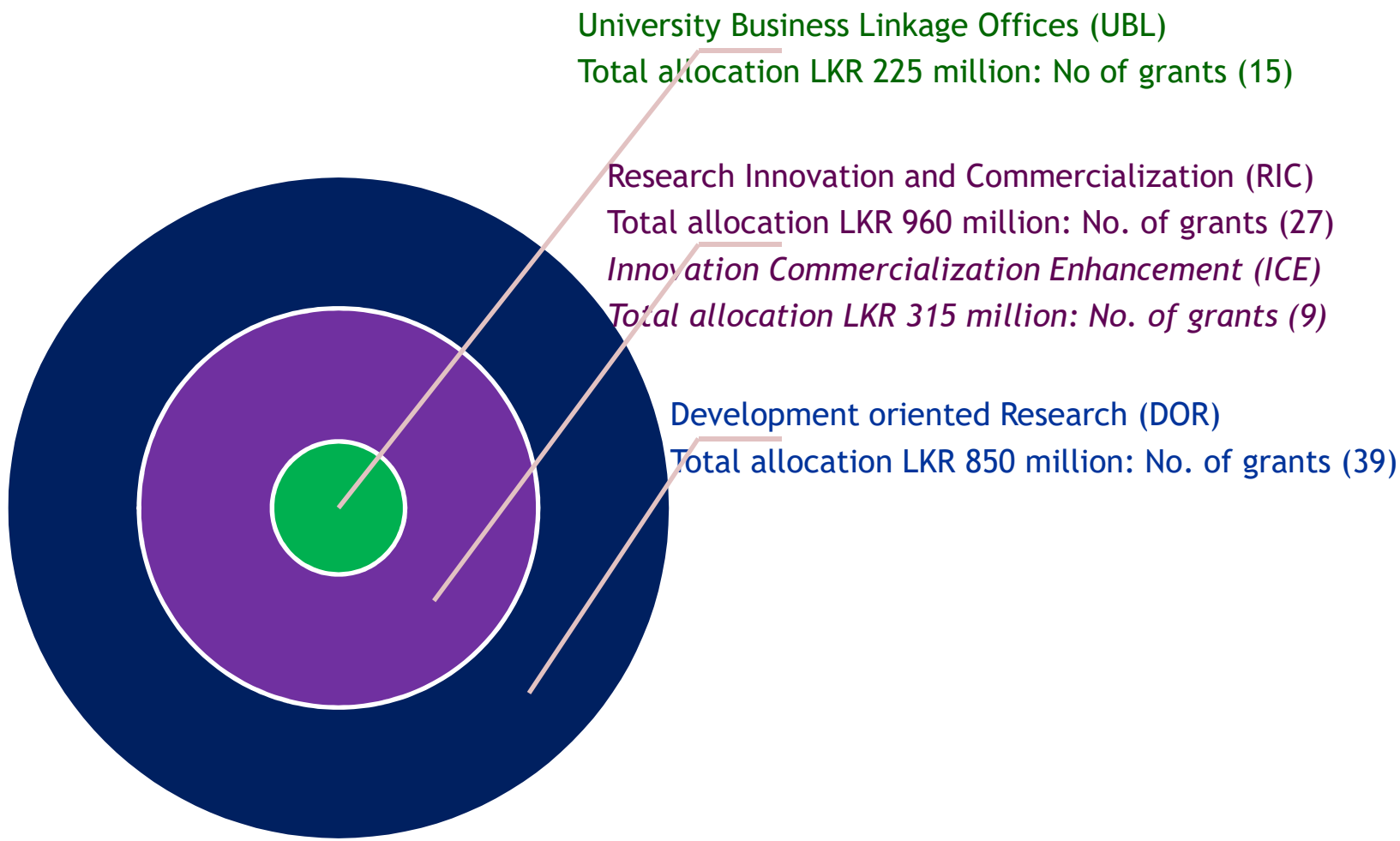
At least

- Five hundred thousand rupees royalty revenue per year
- Sale of technology transfer or IP worth a minimum of one million
- One technology developed to enhance the business of firms in Sri Lanka (or overseas)
- One policy developed based on research conducted by STEM and/or HEMS
- One industry process/logistics improved by research conducted by HEMS
- One local company investing to commercialize a technology developed by STEM/HEMS
- One foreign direct investment to commercialize a technology developed by STEM/HEMS
- One Business Process Outsourcing solution developed via research
- One e-commerce solution
- One PCT (Patent Corporation Treaty) submitted by STEM
- One international trademark developed by HEMS
- One start up company based on a technology developed by STEM/HEMS
- Creation of employment opportunities (**two**) by a start-up company

Can the researchers at Sri Lankan Universities contribute towards private sector driven economic growth?

- Value added exports
- Foreign direct investment for commercialization
- Value added and more profitable services
- Disruptive innovation
- Commercial exploitation of IP

Results Area 3: US\$ 16 million (~Rs. 2400 million) Promoting Research, Development, Innovation and commercialization (RDIC)



Thank You

Wish you all the best in your RDIC activities