

# Accelerating Higher Education Expansion and Development (AHEAD) Operation



**CINEC Campus work under AHEAD RA3**

**May 29, 2023**



MINISTRY OF EDUCATION



WORLD BANK GROUP



UNIVERSITY GRANTS COMMISSION

# Outcomes of DOR Projects

No	Final results indicators	DOR (R2) No.3 Simulator	DOR (R2) No. 4 FMSS
1	Number of working papers published	1	
2	Number of communications (abstract) <u>accepted</u>	12	5
3	Number of papers <u>presented in national conferences/symposia</u>		
4	Number of papers <u>presented in international conferences/symposia</u>	1	1
5	Number of research publications <u>published in peer reviewed national journals</u>	1	
6	Number of research publications <u>published in peer reviewed internationally indexed journals</u>	6	8
7	Number of research publications as books or monographs <u>published by reputed national publishers</u>		
8	Number of research publications as books or monographs <u>published by reputed international publishers</u>	1	
9	Number of national patents <u>accepted</u>		1
10	Number of international patents <u>accepted</u>		
11	Number of industrial designs <u>accepted</u>		
12	Number of national copyrights applications <u>accepted</u> (e.g. software)		1
13	Number of international copyright applications <u>accepted</u> (e.g. software)		
14	Number of national trademarks <u>accepted</u>		
15	Number of international trademarks <u>accepted</u>		
16	Number of Patent Cooperation Treaty (PCT) <u>accepted</u>		
17	Number of license agreements <u>signed</u>		
18	Number of assignments of IP <u>signed</u>		
19	Number of products <u>in the market</u>		
20	Number of industry-university linkages (MOU or agreements) for research commercialization		
	Total	22	16

# Important Outcomes of DOR\_Simulator

The benefits to the society and industry and steps taken to transfer the research out comes to society/industry

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Developed a research culture in simulator base Training

Having a Model Wizard in Sri Lanka where we can create any port- it's a great opportunity to train Sri Lankan Pilots

We have already completed the collection of graphical terrain data for Hambantota using drones. This data has been edited and incorporated into the Model Wizard to create the simulation area.

A Contract Research Agreement for a project titled 'Port of Hambanthota Weather Limits for Entering Ships with Commercial Potential' has been established with HIPG. We have already made a lump sum payment of USD 10,000 for this.

Can be used to conduct feasibility studies with ships arrivals in prevailing sea and wind conditions. Completed One complete testing in Hambantota Port and test report handed over for Commercial purposes.

Can be used in accident investigation

## Important Outcomes of DOR\_FMSS

The benefits to the society and industry and steps taken to transfer the research outcomes to society/industry

- This data-driven approach ensures that users receive relevant and up-to-date information in an integrated form, which are currently not available in the society.
- The invention empowers users to make more informed decisions by considering both the opportunities and the drawbacks of their preferred educational fields and professions.
- The system can be applied across a wide range of industries and sectors, including educational institutions
- The alignment derived from this will lead to improved satisfaction, success, and overall outcomes in users' educational and professional pursuits.
- CINEC through the Education Vertical Integration (EVI) policy proposals to the Ministry of Education steps taken to transfer the research outcomes to society/industry through awareness and social inclusivity.

# Achievements of TTO- License Agreements Signed



Year	Licensed technology	Status of IP	Licensing terms	Licensee
2022	Method and System for Container Inventory Management	Patent Pending	Non-exclusive	Cargoserv Shipping Limited
2022	An Apparatus to Identify Defects of Even Surfaces in an Enclosed Environment	Copyright, Know-how	Non-exclusive	D. Samson Industries (Pvt) Ltd. - Synthetic Materials Plant
2022	Machine for Removing Rattan	Know-how	Non-exclusive	National Crafts Council of Sri Lanka
2023	Lower Body Foot Deformities Monitoring System	Copyright, Know-how	Non-exclusive	Global Bridge International, Bangladesh

# Achievements of TTO- IP protection



## Patent

Year	Title	Faculty	Status of IP
2021	Method and System for Container Inventory Management	FMSS	Patent Pending
2023	An Automated System for Determining an Optimal Educational Field for a User	FMSS	Patent Pending

## PCT

Year	Title	Faculty	ISR
2021	Method and System for Container Inventory Management	FMSS	ISR received (claims in this invention have all As)

## Trademarks

Year	Title	Faculty	Status of IP
2021	 	FMSS	TM Pending

## Lump-sum Payments Received Through Tech Transfer/Research

Project	Licensee/ Contractor	Expenses for Tangibles Rs.	Fees (Man-hours) Rs.	Technology Licensing Fee (Lump Sum) Rs.	IP Worth Rs.	Royalty
Machine for Removing Rattan	The National Crafts Council	60,000 (paid)	150,000 (paid)	150,000 (paid)	360,000	N/A
Machine for Processing Agave	The National Crafts Council	150,000 (paid)	215,000 (paid)	350,000 (paid)	715,000	N/A
Machine for processing Rattan	The National Crafts Council	130,000 (paid)	215,000 (paid)	350,000 (paid)	695,000	N/A
Defect Detection System Using Image Processing	DSI	400,000 (spent)	311,000 (partly paid)	50,000 (paid)	761,000	N/A
Method and System for Container Inventory Management	Cargoserv Shipping	N/A	N/A	41,265,000 (agreed)	N/A	50%
Lower Body Foot Deformities Monitoring System	Global Bridge International, Dhaka, Bangladesh	N/A	N/A	To be negotiated	N/A	10% (agreed)
GAS Leakage Detector	OKANTA Engineering (not yet signed the TLA, contract signed)	60,000 (paid)	583,500 (agreed)	250,000 (agreed)	893,500	N/A
Policy Design for UNESCAP	UNESCAP		USD 6000 (paid)			
Marine Simulation	Hambantota International Ports Services Group		USD 10,000 (paid)			7

A diagram with a large black circle on the left containing the text 'Future Plans'. To its right is a larger white circle containing logos for 'intelo' and 'CONET'. The 'intelo' logo includes the tagline 'Transforming the Next Gen'. The 'CONET' logo includes the tagline 'Exchange at a Profit'. To the left of the white circle are two white wavy lines. To the right of the white circle is a grid of small white dots.

# Future Plans



## DORs

1. Will be developed the main Ports of Fiji and Seychelles in CINEC Simulator
2. To complete the development phase of Intelo and to secure a commercial partner or obtain funding for its completion.

## TTO

1. To continue TTO role
2. To complete the ongoing projects, such as the machine for processing agave, processing rattan, the GAS leakage detector, and container inventory management, we need to sign licensing agreements with the relevant parties
3. CargoWise Australia
4. Recently, DIMO Lanka provided us with research requirements necessary for the implementation of specific projects





Thank You