

M A L A Y S I A

SDG SUMMIT 2019

Accelerating Progress on the SDGs:
Whole of Nation Approach

6th & 7th November 2019



 SUSTAINABLE
DEVELOPMENT GOALS

Co-organizer:



الجامعة الإسلامية العالمية ماليزيا
INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA
يُونُسُ بْنُ سَيِّدِي إِسْلَامُ إِنَّا رَايْنَا بِغُسْنٍ مُلْكِيَا

Garden of Knowledge and Virtue



IIUM FLAGSHIPS
LEADING THE WAY
KHALĪFAH - AMĀNAH - IQRA' - RAHMATAN LIL-ĀLAMĪN

Mobilizing Sustainable Development Goals (SDGs) through Flagship Project : the Experience of International Islamic University Malaysia (IIUM)

SDG Academic Network Forum – November 6th, 2019, 4.00pm

Asst. Prof. Dr. Irina Safitri Zen

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INTERNATIONAL ISLAMIC UNIVERSITY MALAYSIA

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Higher Education Institutions - key drivers of the Sustainable Development Goals

- SDG is about action
- In our context as higher education institution, HEI – how to mobilize SDGs into action?
- SDG function as a normative and integrative framework in addressing development issues - Global issues, local Action – **GloCal approach**.



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GETTING STARTED WITH THE SDGS IN UNIVERSITIES

A GUIDE FOR UNIVERSITIES, HIGHER EDUCATION INSTITUTIONS, AND THE ACADEMIC SECTOR

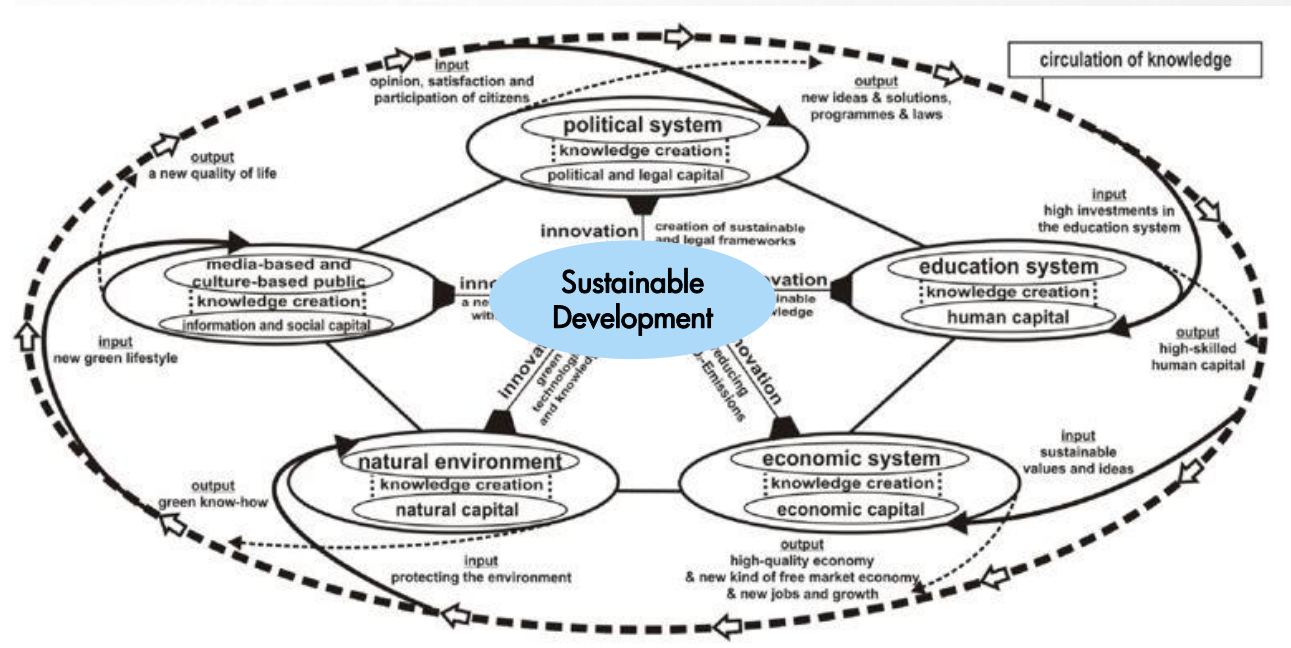
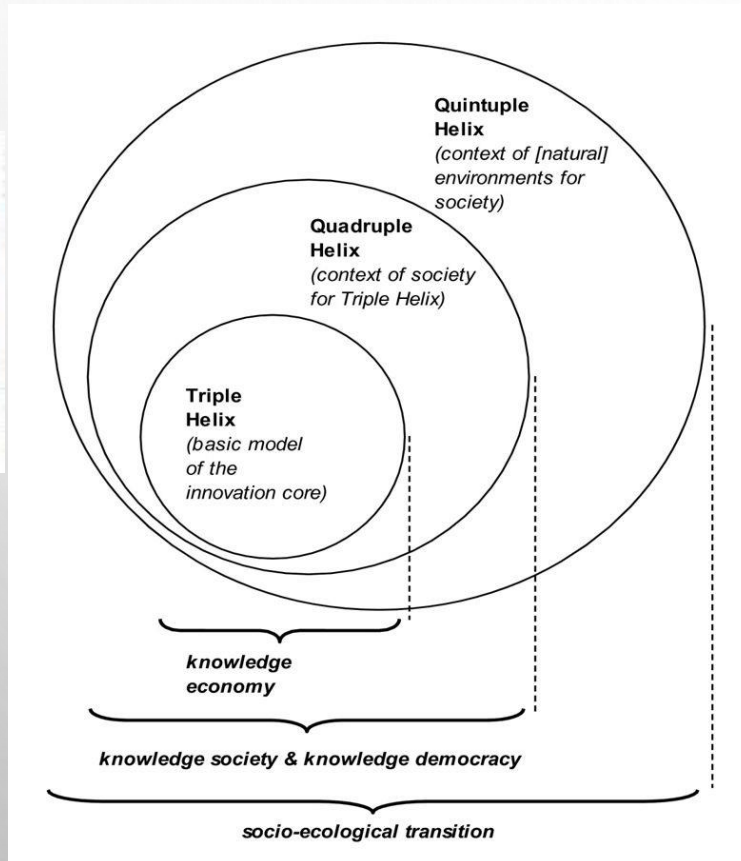
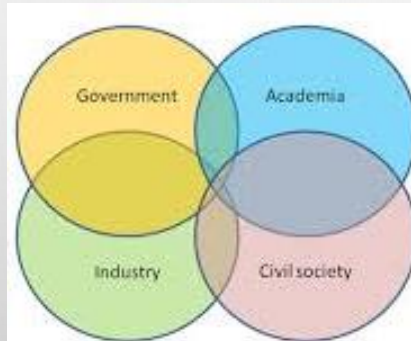
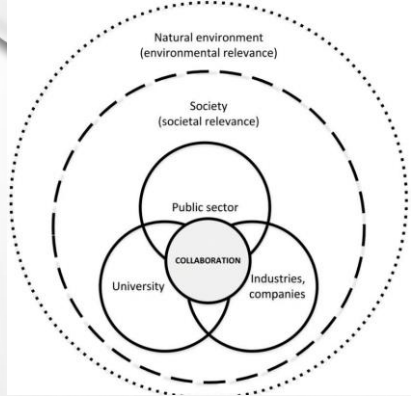


From Triple Helix, Quadruple Helix into Quintuple Helix

From Knowledge Based Economy into Knowledge Based Society



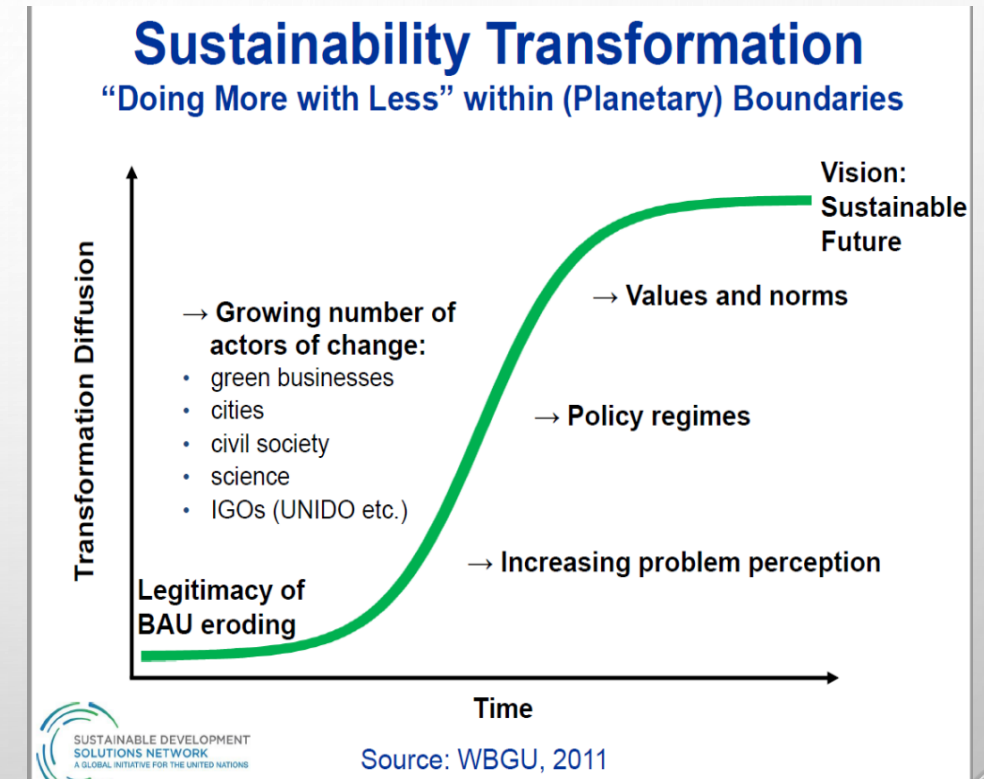
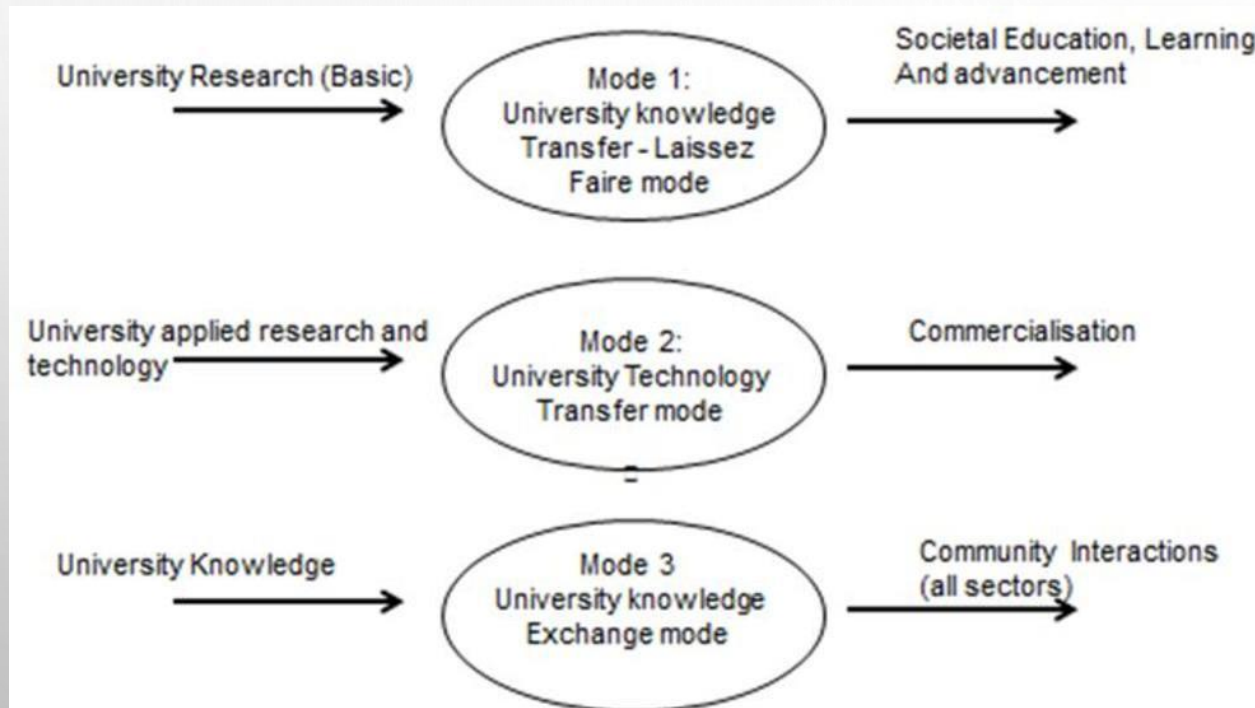
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يُؤْنَسُ مِنْ بَيْنِ يَدَيْهِ إِسْلَامُ الْأَوَّلِينَ
Garden of Knowledge and Virtue



Carayannis & Campbell 2011,
Miller et al. 2018



Change in the University Mode's of Knowledge Transfer



Change in the Mission of University



RESEARCH & SOCIAL ENGAGEMENT PARADIGMS

PARTICIPATORY & ACTION RESEARCH

Collaborative problem defining, fusion of researcher and subjects, empowerment of reflective social change

TECHNOLOGY TRANSFER

Commercialisation of research results, societal contribution through economic development

TRANSDISCIPLINARITY

Joint problem solving of real-world problems with multiple actors from society and academia, Practice orientated approach

COOPERATIVE EXTENSION SYSTEM

Dating back to 1914 and the land-grant system, an outreach and technology transfer portal to drive local community and rural development

SERVICE LEARNING

Application of educational programmes to extra-curricular activities for tackling localised, real-world problems

REGIONAL DEVELOPMENT

Alignment of university functions with regional economic development goals. University plays active role in regional governance

URBAN REFORM

Targeted economic revitalisation through direction of university financial resources to local community and real-estate redevelopment

LIVING LABORATORIES

Engagement of university research and expertise to establish, monitor and evaluate real-life experiments and social interventions. Use of urban environment as open collaboration arena

MERGING OF PARADIGMS AND INTEGRATION OF SUSTAINABLE DEVELOPMENT VALUES

CO-CREATION FOR SUSTAINABILITY

Collaborating with diverse social actors to create societal transformations in the goal of materialising sustainable development in a specific location, region or societal sub sector

Figure 1. Key properties of co-creation for sustainability.

- **First Mission of University** – Education of skilled labour
- **Second Mission of University** – Science, Research & Development
- **Third Mission of University** – Continuing education, capacity building & technology transfer – **Co-Creation for Sustainability**

The University collaborates with diverse social actors to create **SOCIETAL TRANSFORMATIONS** with the goal of materialising sustainable development in a specific location, region or societal sub-sector (Trencher and Yarime 2012).

SUSTAINABILITY IN IIUM

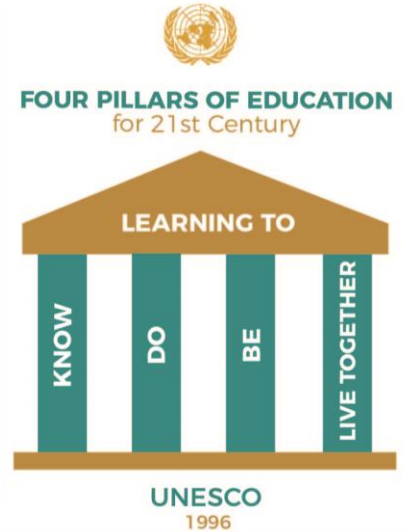


FIVE WISDOM OF FALSAFAH PENDIDIKAN KEBANGSAAN 1996

- Pendidikan **berterusan, menyeluruh dan bersepadu**
- Melahirkan **insan yang seimbang dan harmonis** dari segi intelek, rohani, emosi dan jasmani
- Berdasarkan **kepercayaan dan kepatuhan kepada Tuhan**
- Warganegara yang mencapai **kesejahteraan diri**
- **Keharmonian dan kemakmuran** keluarga, masyarakat dan negara

FIVE NECESSITIES OF HUMAN EXISTENCE MAQASID SHARIAH

FAITH LIFE INTELLECT LINEAGE WEALTH



IIUM SUSTAINABILITY REPORT 2018/19



NOVEMBER 5

SEJAHTERA CENTER FOR SUSTAINABILITY & HUMANITY

Authored by: Irina Saifan Zeti, Zainal Abidin Sanusi, Wan Mohd. Biju, Bin Wan Kamal, Rustam Khairi Sabari, Mohd Ramzi Mohd. Hussain B., Mohd Azim Bin Abu Saad.



IIUM FLAGSHIPS LEADING THE WAY
KHALIFAH - AMĀNAH - IQRA' - RAHMATAN LIL-ĀLĀMĪN

Conventional

ESD – Education for Sustainable Development



IUM FLAGSHIPS
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Mode 1	Mode 2
Academic	Academic & Social
Monodiscipline	Trans-interdiscipline
Technocratic	Participative
Predictive	Exploratory
Certain	Uncertain
Homogeneous	Heterogenous
Individual production	Knowledge coproduction
Less integrative	More integrative
Basic / Applied	Use-inspired Basic

Sustainable Development Flagship Project IIUM



Adapted from Martens, P. 2006. Sustainability: science or fiction? *Sustainability: Science, Practice, & Policy* 200.1-5
<http://ejournal.nbii.org/archives/vol2iss1/communityessay.ma>

IIUM RIVER OF LIFE

The IIUM River of Life (ROL) Flagship project is part of the ROL Public Outreach Programme (ROL-POP). It is a government programme to foster partnerships and to improve attitudes and behaviours of target groups to reduce pollution in the Klang River, Malaysia. The objective of IIUM ROL is to generate evidential improvement in attitudes and behaviours of target groups within the Project Area, Sungai Pusu towards river care and preservation in order to improve water quality and reduce pollution within the project area. IIUM ROL will not only ensure achievement of sustainable development objectives but also sustain economic growth, enhance environmental sustainability and promote better wellbeing

10th October 2018
Kulliyyah of Engineering



PARTNERS

- Department of Drainage and Irrigation Malaysia
- Asia Pacific Environmental Consultant Sdn. Bhd.



PROJECTS

5

ROL- Public Outreach Programme phase 5 river coverage



MEMBERS

100
300

Staff and students attended the overall outreach program



FIVE NECESSITIES OF HUMAN EXISTENCE
MAQASID SHARIAH
 FAITH LIFE INTELLECT **LINEAGE** WEALTH



01

AWARENESS & COMMUNITY ENGAGEMENT

“Know your river” is part of the awareness campaign by FOSP. Engaging the community neighbouring and surrounding IIUM in ROL program. This involves other IHLs, schools and focus will be on Orang Asli where activities could have some monetary incentives (e.g. through buy-back of recycled items). Additionally, a sense of ownership among all levels of society is imperative in nurturing shared responsibility in sustaining the national natural endowment.

Third Mission University (Mode 3)
CoCreation for Sustainability –
Society Learning and
Transformation





Pillar V

Enhancing
environmental
sustainability
through green
growth

POLICY PILLAR OF MID-TERM REVIEW OF 11TH MALAYSIA PLAN

Efforts towards green growth will be pursued intensely to achieve sustainable development to safeguard the natural endowment for the present and future generations.

This will be achieved through three priority areas:

- strengthening governance
- conserving natural resources as well as combating climate change
- reducing disaster risks.



SDG

- 6 Clean water and Sanitation
- 7 Affordable and Clean Energy
- 12 Responsible Consumption and Production
- 13 Climate Action
- 14 Life Below Water
- 15 Life of Land



ACTIVITIES

IIUM ROL has planned various activities under **four** major categories.

IIUM ROL towards integrated river management by recognizing the river capacity, local needs, issue in surrounds the river, which further sustain economic growth, enhance environmental sustainability and promote better wellbeing. Reviving the river by minimising pollution and waste in river will enhance water and food security.



WHAT WE DO

1. Awareness & Community Engagement
2. Biodiversity & Beautification
3. Research
4. Rehabilitation

MOSQUE IN THE POST-MATERIALISTIC ERA

New Modular-Based Mosque Study Program

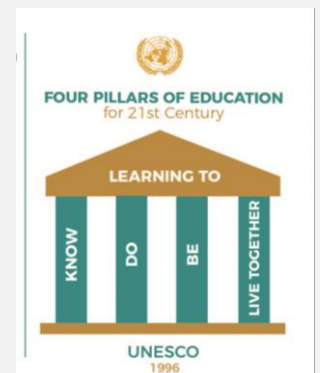
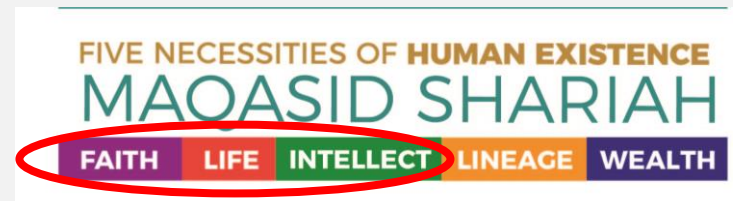
Overview

Reviving the significant role of mosque as uniting agent in contemporary human communities through structured study program that caters the spiritual, intellectual, emotional, physical and social enhancement.

Ensuring the community members acquire the knowledge and skills needed to promote sustainable development, including education for sustainable development, ESD and sustainable lifestyles, promotion of a culture of peace and non-violence, global citizenship and appreciation of cultural diversity and culture's contribution to sustainable development through Mosque Study Program.

Goals

- To develop a structured Modular Based Mosque Study Program (MSP) which caters to the needs of three group of community members; adults, youths and children.
- "To increase the roles of mosque as a centre to acquire knowledge for sustainable development, being aware that the current study programmes are unstructured (OBD, 2019)."



AWARENESS & COMMUNITY ENGAGEMENT

Developing awareness among IIUM community of their social responsibilities towards the communities within IIUM neighborhood, as well as to improve social cohesion (*Al-Insijam al-Ijtima'*) through building a sense of common purpose as the vicegerents of Allah (Khalifatullah) on earth.



Mode 3
Co-Production of Knowledge –
Society Learning and
Transformation

Knowledge Sharing

- Engagement, sharing from the community (Community cultural based helices/ sub-system) with the experts in Kuliyyah of Revealed Knowledge and Islamic Sciences with experts of humanities and social sciences (Education Sub-system) – **inter- & trans-disciplinary approach**.
- Transferring of knowledge on contemporary societal problems and **co-production** of solutions to the surrounding community.



Research

- Integrated research combining revealed knowledge with theories in humanities and scientific tools of social sciences.

FIVE NECESSITIES OF HUMAN EXISTENCE
MAQASID SHARIAH
FAITH LIFE INTELLECT LINEAGE WEALTH

Sustainable Production of Local Threatened Species - Patin Buah (Mode 1, 2 & 3)

NETWORKING

1. Department of Fisheries –
2. Advice on MyGaP certification
3. First generation of broodstock evaluation before producing Triploid Patin Buah
4. Patin Buah farm operators (Temerloh)

OPERATIONS

1. Prepare new water system for patin buan breeding
2. Stoking of Patin Buah Broodstock at INOCEM (2kg)
3. Pilot study in producing Triploid Pangasius in Pangasius hypophthalmus

TEACHING & LEARNING

1 Final Year Project (Produce higher hatching rate and higher survival rate of Triploid Patin Buah at larvae stage) SMT4643 (Hatchery Design and Technology)

KNOWLEDGE EXCHANGE / CAPACITY BUILDING

Visit to Can Tho University, Vietnam (Patin Culture in Vietnam, Patin Markerting and aftersales in Vietnam and Broodstock maintainance)

FLAGSHIP COMPONENTS

RESPONSIBLE RESEARCH

Sustainable Production of Local Threatened Species - Patin Buah

COMMUNITY ENGAGEMENT / SERVICE / EMPOWERMENT

Consultation - Checking of Disease status of cage-cultured Patin hitam and patin buah at Temerloh, Pahang



IMPACT

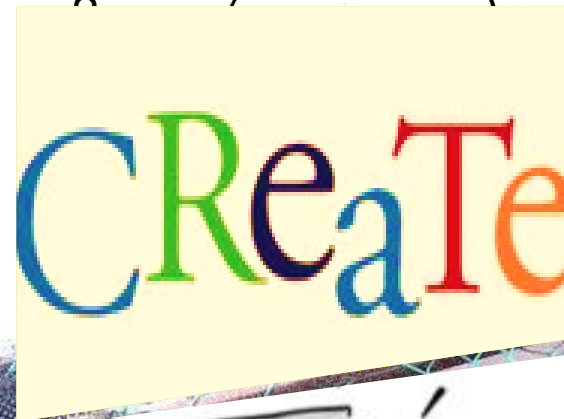


NUMBER OPERATORS @
FARMERS (more than
50%)
INCOME OF EACH
FARMERS or OPERATORS
(approximately 160k/



DISEASE DISTRIBUTION
(MINIMIZE MORTALITY
AT LARVAE AND ADULT
STAGE ~ LESS THAN
20% MORTALITY)

JOB OPPORTUNITY
(4 STAGES –
OPERATORS,
CONSUMER,
SME OPERATORS,
INDUSTRY)



NEW SME FISHERIES
PRODUCT
(3 new product – Fillet,
crackers and Pekasam)



MANUAL OF CAGE
CULTURED CATFISH
(increase 10% MyGAP
Certification)

Sustainable Production of Local Threatened Species - Patin Buah -

Collaborators



2 External

2 Internal

Members

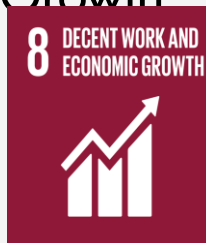


6 Departments
(Researchers)

SDG



8. Decent Work
and
Economic
Growth



Shared Platform



- A. Human & Social Transformation
- B. Sustainability & Life Sciences

Maqasid Shariah



- ii. Protection of Life
- v. Protection of Wealth

FIVE NECESSITIES OF HUMAN EXISTENCE
MAQASID SHARIAH
FAITH LIFE INTELLECT LINEAGE WEALTH

07 PUTTING IT TOGETHER

SDG Coverage
Maqasid Shariah Map



Thank You for Your Attention