



ASPIRING TASIK KENYIR GEOPARK AS SUSTAINABILITY MODEL: A STRATEGIC APPROACH

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KENYIR RESEARCH INSTITUTE

20 MAY 2017

2015 - 2030



Source: United Nations website, 2017

SUSTAINABLE DEVELOPMENT GOALS

Social

- SDG 1: No poverty
- SDG 2: Zero hunger
- SDG 3: Good health and Well-Being
- SDG 4: Quality education
- SDG 5: Gender equality
- SDG 10: Reduce inequalities
- SDG 11: Sustainable cities and communities
- SDG 16: Peace and justice strong institutions
- SDG 17: Partnerships for the goal

Economic

- SDG 8: Decent work and economic growth
- SDG 9: Industry, innovation and infrastructure
- SDG 12: Responsible consumption and production

Environmental

- SDG 6: Clean water and sanitation
- SDG 7: Affordable and clean energy
- SDG 13: Climate action
- SDG 14: Life below water
- SDG 15: Life on land

KENYIR RESEARCH INSTITUTE STRATEGIC DEVELOPMENT PILLARS

Environment Sustainability

Environmental Protection

- Biodiversity
- Water
- Air
- Land
- GHG
- Restoration
- Conservation
- Resource use

Social Justice

- Quality of Life
- Gender Equality
- Indigenous Rights
- Diversity & Supportive environments

Economic Justice

- Participative Justice
- Distributive justice
- Social justice

Local community | Resource use |
Communications

Management Practices & Prescriptions

Good Governance

- Rule of Law
- Inclusive
- Participatory
- Responsive
- Efficient & effective
- Transparent
- Competence & Ethical Conduct
- Sustainability Orientation
- Accountability
- Innovation to Chance
- Diversity Cohesion

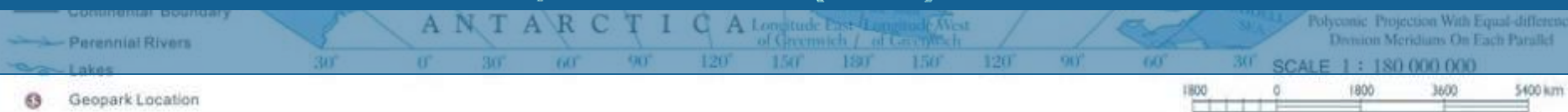


As of Sep. 2014, 111 Geoparks in 32 Member States are currently members of the Global Geoparks Network assisted by UNESCO

GEOPARK

‘Geopark is a territory of the idea of sustainable development with the emphasis on the balance between heritage conservation and sustainable use of resources. Focus is given to the socio-economic development of local communities whilst promoting the conservation of natural and cultural heritage. Sustainable tourism and public education becomes the core strategy of the development of a geopark.

Global Geopark Network (GGN) in 32 countries



Source: Global Geopark Network (GGN)

Geopark Development Concept

Heritage Conservation

- ❑ Conservation of geological, biological and cultural heritage
- ❑ Integrated conservation of natural and cultural heritage
- ❑ Sustainable utilization of heritage resources without destruction



Economic Development

- ❑ Balancing mass and specialized tourism
- ❑ Geotourism as a part of Knowledge-based tourism
- ❑ Innovative tourism product

Community Development

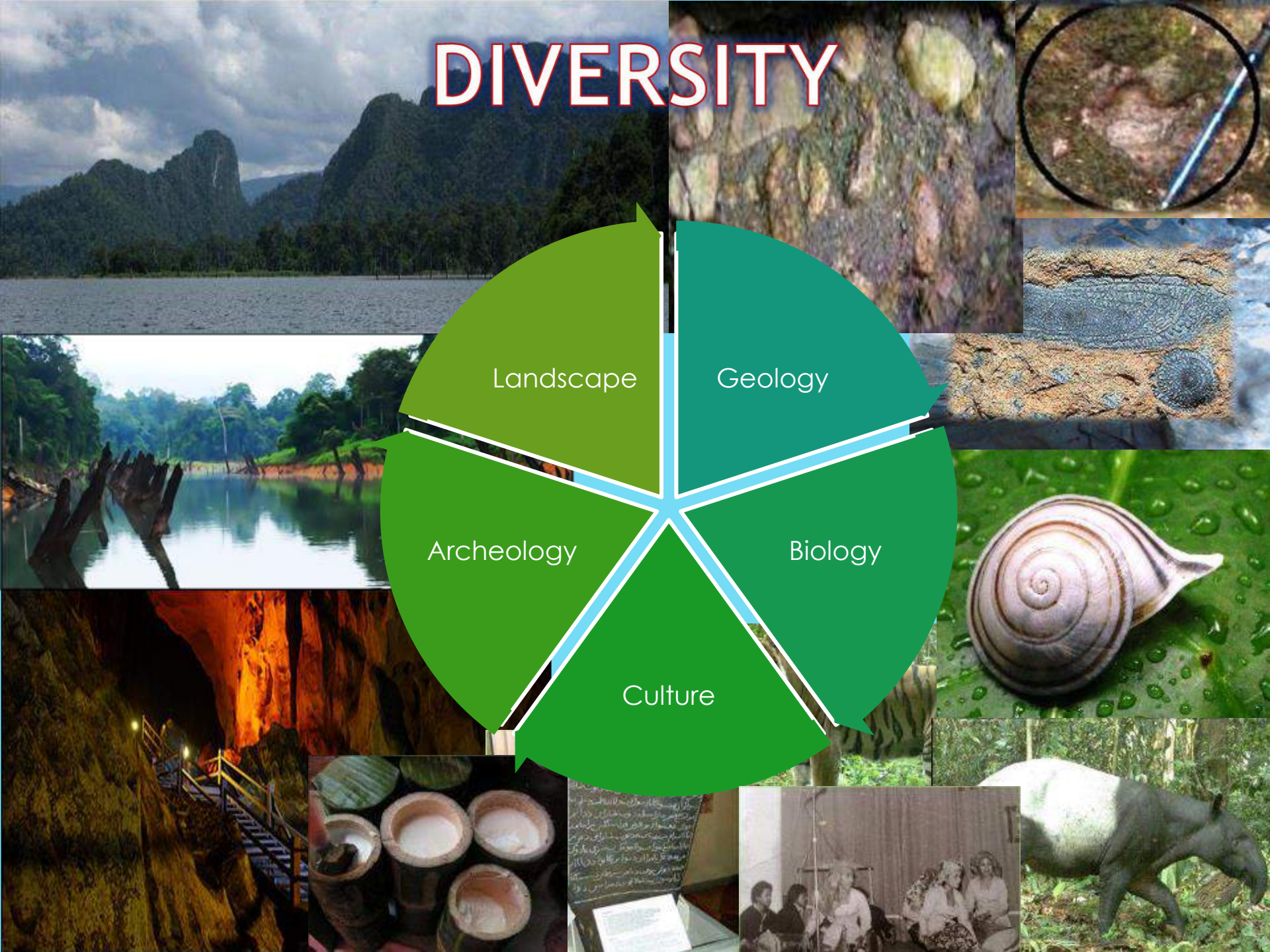
- ❑ Community as key player
- ❑ Capacity building of local community
- ❑ Education of heritage
- ❑ Strengthening of “shared value”

MAP OF PROPOSED TASIK KENYIR GEOPARK



SOURCE: JABATAN PERANCANGAN BANDAR DAN DESA NEGERI TERENGGANU, 8 FEBRUARI 2017.

DIVERSITY



Landscape

Geology

Archeology

Biology

Culture

WHY GEOPARK?

ECONOMY

- Promote economic growth and sustainable development through geotourism.
- Provide new opportunities for local economic regeneration
- Increase the arrival of tourists
- Rebranding as geotourism site which will attract more tourists.

ENVIRONMENT

- Preservation of ecosystems and environment
- Conservation of natural resources

COMMUNITY

- Increased income through geotourism.
- Increased awareness and knowledge about the environment and geopark.
- Community involvement in managing geopark and nurturing the spirit of belonging and love of the natural resources and cultural heritage.
- Conservation of cultural heritage and local knowledge.
- Sharing experience, knowledge and management procedures with other geoparks.

IMPLICATION TO STATE GOVERNMENT

Finance

- Allocation of RM10 million in RMKe-11 for 5 proposed Geopark.
- UMT has spent RM10,227,361.00 and JMG has spent RM 300,000.00 for research.

Human Resource

- Awareness program
- business as usual

Law, Policies and Development

- Geopark establishment does not involve any proclamation. Development can be continued as it is in accordance with the Act, the existing enactment and regulations.

IMPLICATION TO STATE GOVERNMENT

Security Zone

- Sultan Mahmud Dam

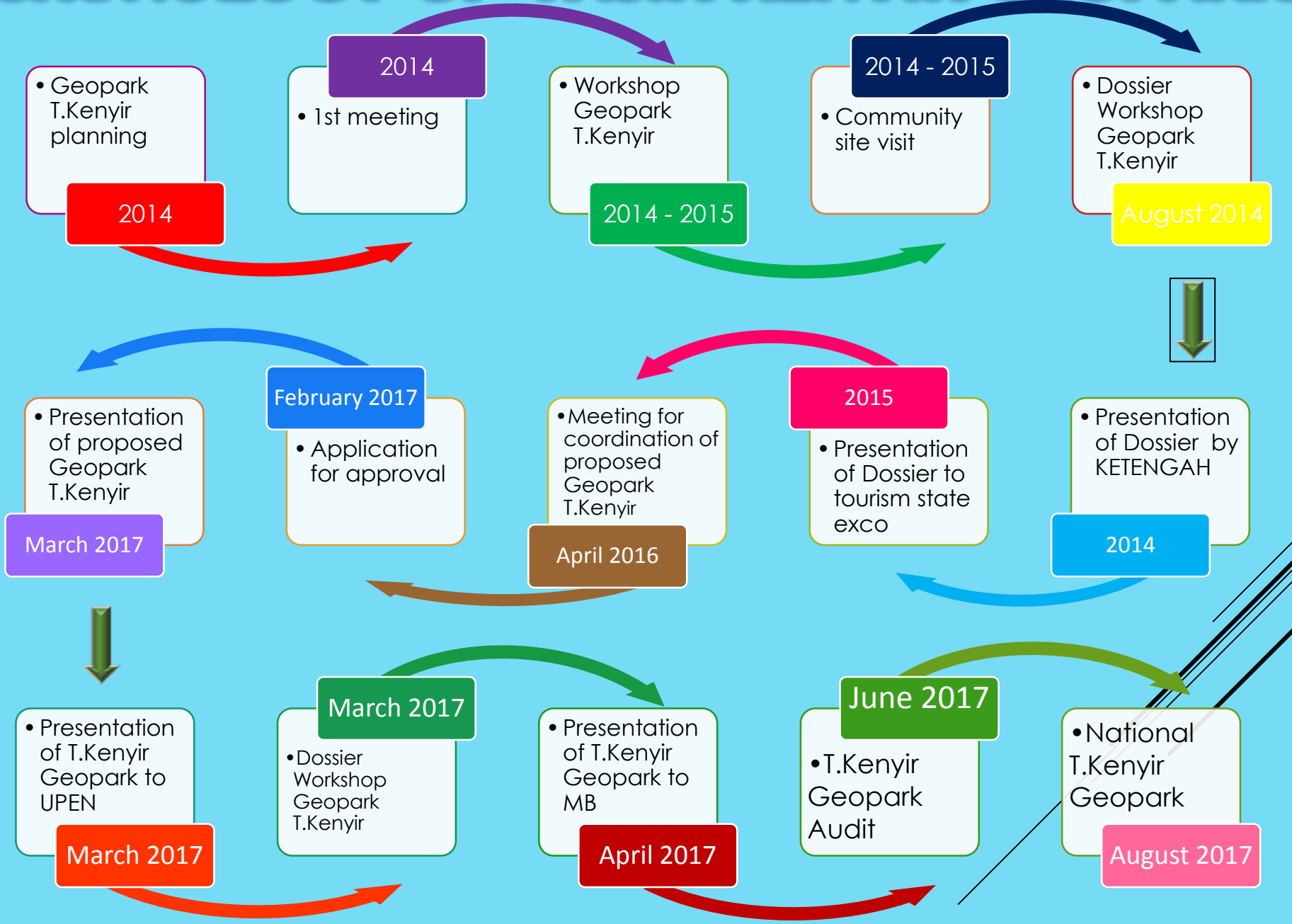
If No Geopark?

- Terengganu iconic international treasure can not be utilized economically.
- There is no added value to the tourism and economic activity available.
- Expected economic downturn in the District by the next 20-30 years.
- Community products less attractive to tourist
- The local community will only get economic returns for 'business as usual'

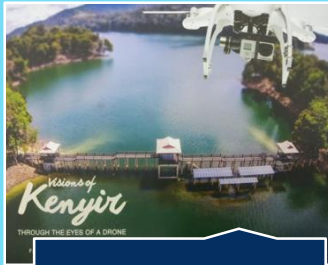
State Parks

- No overlapping legislation.
- Geopark Committee will report to the committee Terengganu State Parks.

CRONOLOGY OF TASIK KENYIR GEOPARK



1. Cost to develop Dossier (RM 1,430,415.00)



Visions of Kenyir



Geopark Tasik Kenyir



Tasik Kenyir: Warisan Budaya Komuniti Pribumi



Kelestarian Masyarakat Orang Asli Terengganu

2. Facility Cost (RM 8,796,946.00)



Floating Lab



Kenyir Research Station Cabin



Cabin



Kenyir Research Centre

WHAT IPK HAS DONE?

Community Engagement

- KIEPro
- Payment for Ecosystem Service
- Traditional Food dan Song/Dance Program

Short and Long term Research

- Pulau Sibu Scientific Expedition on Species, Ecosystems and Livelihoods
- Research on Kenyir and Setiu Wetland
- Research on Indigenous People
- Articles and books publication

Public Education

- Pangolin Conservation Awareness Among Primary School Students in The Geoparks Kenyir
- Program Penghayatan Alam
- Tasik Kenyir Geopark Eco Camp
- Malaysia Singapore Society of Australia Conference

IPK ACHIEVEMENT (2014 - 2017)

Journal
(Index
Scopus)

47

Others
journal

48

Proceedings

50

Books

9

PhD students

6

MSc students

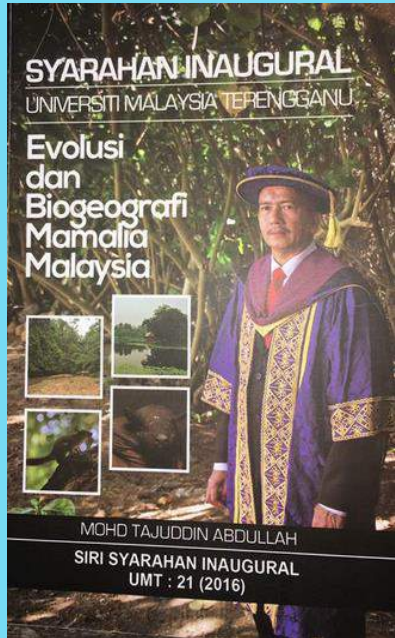
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IPK ACHIEVEMENT (2014 - 2018)

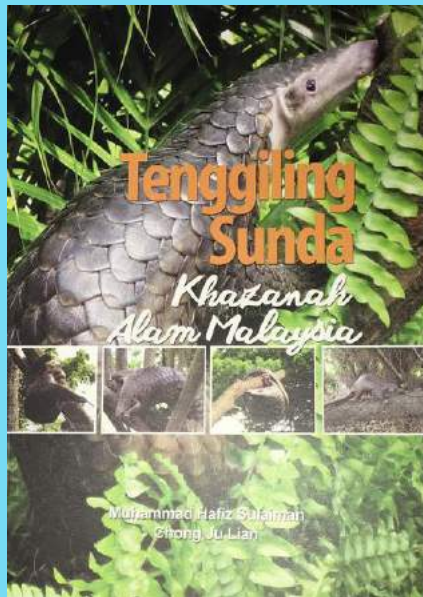
GRANTS	RM
TRGS	870,000.00
Geran Dana Pembangunan Geopark, RMIC	250,000.00
IPK, UMT – VOT 114	200,000.00
TSR, UMT – VOT 117	39,800.00
Penyelidikan Konsortium Giant Panda	300,000.00
GGP	10,000.00
NRGS	15,000.00
RAGS	50,000.00
FRGS	60,000.00
	67,000.00
TPM	13,500.00
	13,700.00
	15,500.00

IPK ACHIEVEMENT (2017)

NATIONAL AWARD: ANUGERAH BUKU NEGARA



Prof. Dato' Dr. Mohd Tajuddin Abdullah



Dr. Chong Ju Lian



Best Science Writers in Malaysia is in IPK!

GOVERNANCE

Jawatankuasa Induk
Geopark Tasik Kenyir

Jawatankuasa
Kesejahteraan dan
Pembangunan Komuniti

- Pejabat Tanah dan Daerah Hulu Terengganu (**Pengerusi**)
- Jabatan Perikanan
- Jabatan Mineral dan Geosains Negeri Terengganu
- Jabatan Perancangan Bandar dan Desa Negeri Terengganu
- Unit Perancangan Ekonomi Negeri
- Jabatan Kemajuan Islam Terengganu

Jawatankuasa
Perlindungan dan
Pemuliharaan

- PERHILITAN Terengganu (**Pengerusi**)
- Jabatan Perhutanan Negeri Terengganu
- Jabatan Alam Sekitar Negeri Terengganu
- PDRM Terengganu

Jawatankuasa
Pelancongan, Promosi dan
Pembangunan

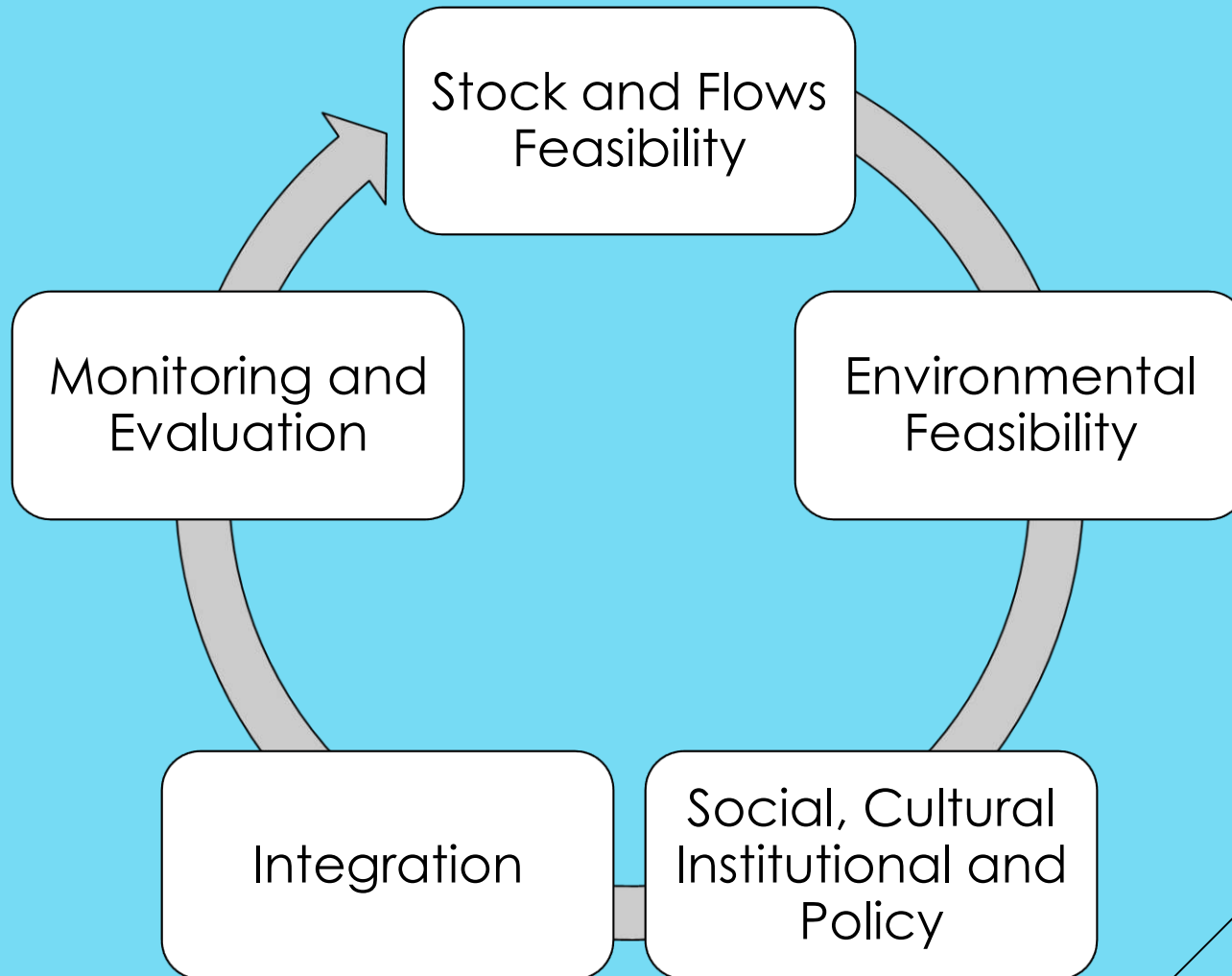
- Bahagian Pelancongan dan Pembangunan Tasik Kenyir (KETENGAH) (**Pengerusi**)
- Jawatankuasa Pelancongan, Kebudayaan, Komunikasi dan Multimedia
- Lembaga Muzium Negeri Terengganu
- Majlis Daerah Hulu Terengganu
- Jabatan Kemajuan Orang Asli (JAKOA)

Jawatankuasa
Saintifik

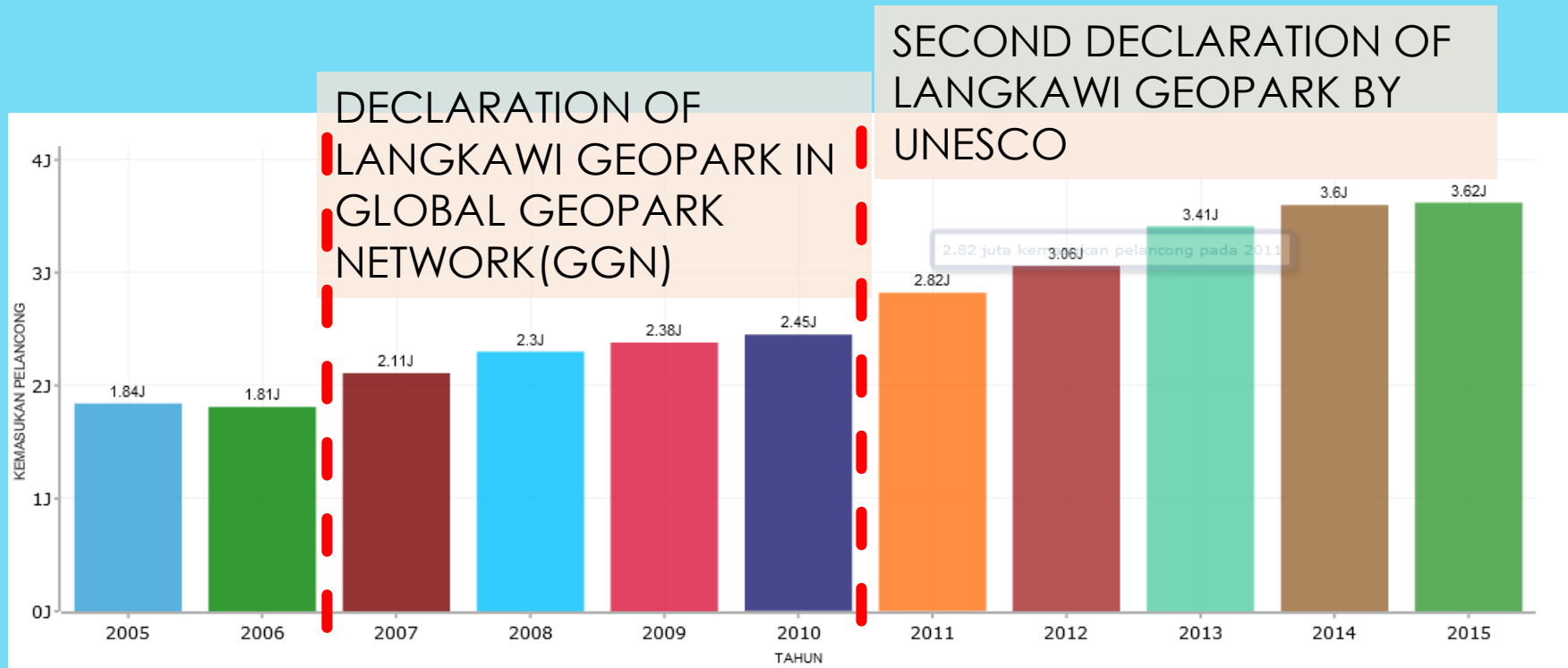
- Universiti Malaysia Terengganu (UMT) (**Pengerusi**)
- Pejabat Tanah dan Daerah Hulu Terengganu
- PERHILITAN Terengganu
- Bahagian Pelancongan dan Pembangunan Tasik Kenyir (KETENGAH)
- Jabatan Mineral dan Geosains Negeri Terengganu

*Penglibatan agensi dalam setiap jawatankuasa adalah fleksibel dan tertakluk kepada isu-isu di bawah bidang kuasa yang berkaitan kepada agensi tersebut.

SUSTAINABILITY SCIENCE FRAMEWORK APPLICATION FOR LANGKAWI GEOPARK



STATISTICS OF TOURIST ARRIVAL IN LANGKAWI



- The increase in tourist arrivals per year after the establishment of Langkawi Geopark.
- After Langkawi Geopark recognized in the Global Geopark Network (GGN), an increase of tourist arrivals by 16.5%.
- In 2011, there was an increase of tourist arrivals 15% from the previous year after the recognition of Langkawi Global Geopark 2nd time by UNESCO.

Source: LADA, 2017



TERIMA KASIH

**Mr. Muhammad Syahrudin Bin Abdul Rashid
Mrs. Norhayati Ab Manaf
IPK staff and students**