



# LANDSCAPE APPROACH IN INTEGRATING A SUSTAINABLE BUSINESS THROUGH BIOSPHERE RESERVE MANAGEMENT

**A case study and experiences of a  
pulp/paper & forestry company in  
Indonesia**

4th World Congress of Biosphere Reserves  
UNESCO – Man and the Biosphere Reserve (MAB) Programme  
Lima, Peru  
14 – 17 March 2016

## Outline

- Company's overview
- Sustainability strategy and landscape approach
- Financial scheme
- GSK-BB Bioshpere Reserve:
  - The role of private sector
  - Road Map to 2020 and Highlight Activities
  - Challenges
  - Conclusions





## About the companies

### Asia Pulp & Paper (APP) Indonesia

- Pulp, paper and paper product produce
- Has 9 production facilities in Indonesia
- Annual pulp, paper, packaging and converting capacity of over 19m tonnes
- Currently markets its products in more than 120 countries across six continents



### Sinarmas Forestry (SMF)

- Planted forest management
- Manage APP-owned plantation forest concessions (9 FMUs,  $\pm$  1 million Ha) and exclusive supplier of pulpwood to APP Indonesia pulp mills
- Provides technical support to 29 partner- FMUs





# SUSTAINABILITY STRATEGY

On June 5<sup>th</sup> 2012, APP announced its **Sustainability Roadmap Vision 2020** that outlined its sustainability targets for the next decade and beyond

## OUR WIDER SUSTAINABILITY ROADMAP

- The Sustainability Roadmap Vision 2020 is our strategy to place sustainability at the heart of our operations

Climate  
Change

Emissions

Solid  
Waste

Reforestation

Water  
Management



Conservation  
and  
Biodiversity

Fibre  
Sourcing

Employee  
Welfare

Community  
Empowerment

Human  
Rights



# SUSTAINABILITY STRATEGY

On June 5<sup>th</sup> 2012, APP announced its **Sustainability Roadmap Vision 2020** that outlined its sustainability targets for the next decade and beyond

On February 5<sup>th</sup> 2013, APP launched its Forest Conservation Policy (FCP) **ending all natural forest clearance throughout its entire supply chain**

# FOREST CONSERVATION POLICY – ZERO DEFORESTATION



## KEY PRINCIPLES:

### •No natural forest clearance:

- No plantation development by any supplier will take place without independent High Conservation Value (HCV) and High Carbon Stock (HCS) assessments

### •Reduction of greenhouse emissions:

- Forested peatland is protected from development

### •Respect for local rights:

- Adoption on Free, Prior and Informed Consent (FPIC) to protect indigenous communities

### •Third party suppliers:

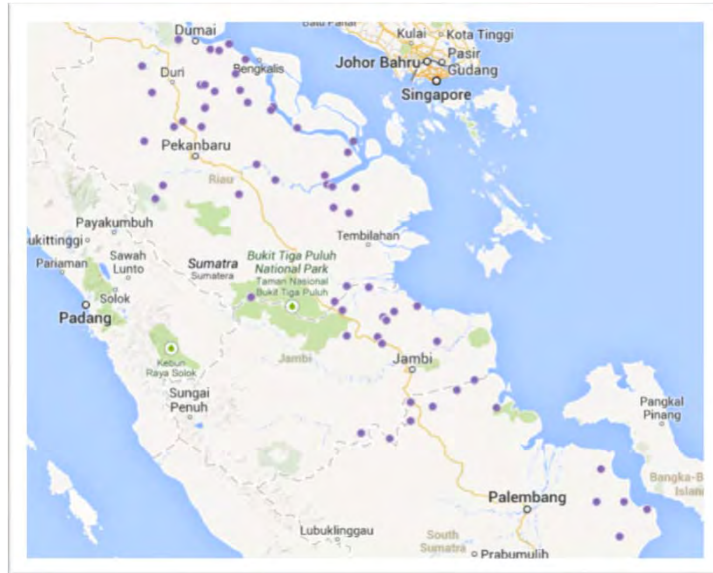
- ensure that third party suppliers support responsible forest management



APP



**sinarmas**  
forestry



## DELIVERING THE FCP

### Integrated sustainable forest management plans (ISFMPs)

- Considers APP concessions in context of **regional landscape**
- Integrates / reconciles interests of **company, community and environment**
- **Stakeholder engagement** – ensures involvement of local stakeholders

#### HCV STUDY

Areas with outstandingly significant or critically important ecological, social or cultural value.

#### HCS STUDY

Area containing high above-ground biomass/vegetation cover, which stores a large amount of carbon

#### SOCIAL MANAGEMENT

- Free Prior Informed Consent
- Responsible Conflict Resolution

#### PEATLAND MANAGEMENT

- Peat experts
- Best practice management

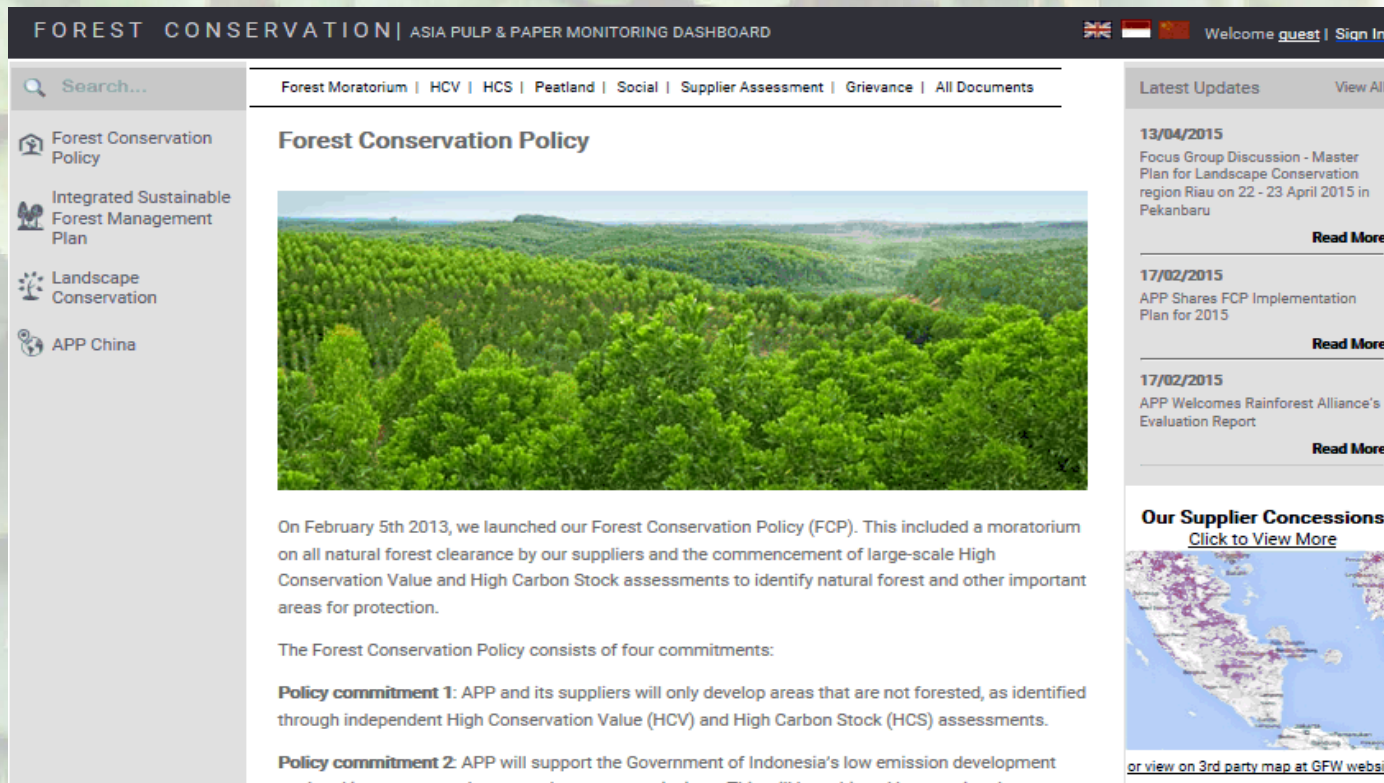
#### PLANTATION PRODUCTIVITY

Assessing current & potential plantation growth & yield across all suppliers area



# Transparency, reporting and the monitoring dashboard

- Our monitoring dashboard enables independent tracking of progress. The link is: <http://www.fcpmonitoring.com>

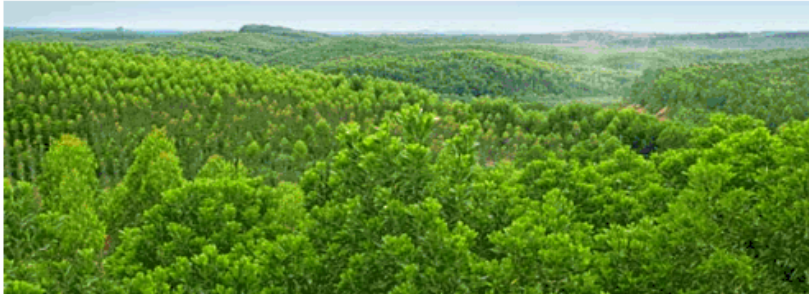


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## Forest Conservation Policy



On February 5th 2013, we launched our Forest Conservation Policy (FCP). This included a moratorium on all natural forest clearance by our suppliers and the commencement of large-scale High Conservation Value and High Carbon Stock assessments to identify natural forest and other important areas for protection.

The Forest Conservation Policy consists of four commitments:

**Policy commitment 1:** APP and its suppliers will only develop areas that are not forested, as identified through independent High Conservation Value (HCV) and High Carbon Stock (HCS) assessments.

**Policy commitment 2:** APP will support the Government of Indonesia's low emission development goal and its target to reduce greenhouse gas emissions. This will be achieved by ensuring that


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# SUSTAINABILITY STRATEGY

On June 5<sup>th</sup> 2012, APP announced its **Sustainability Roadmap Vision 2020** that outlined its sustainability targets for the next decade and beyond

- On April 28<sup>th</sup> 2014, APP announced a plan to restore and support the conservation of one million hectares of rainforest across Indonesia

On February 5<sup>th</sup> 2013, APP launched its Forest Conservation Policy (FCP) **ending all natural forest clearance throughout its entire supply chain**

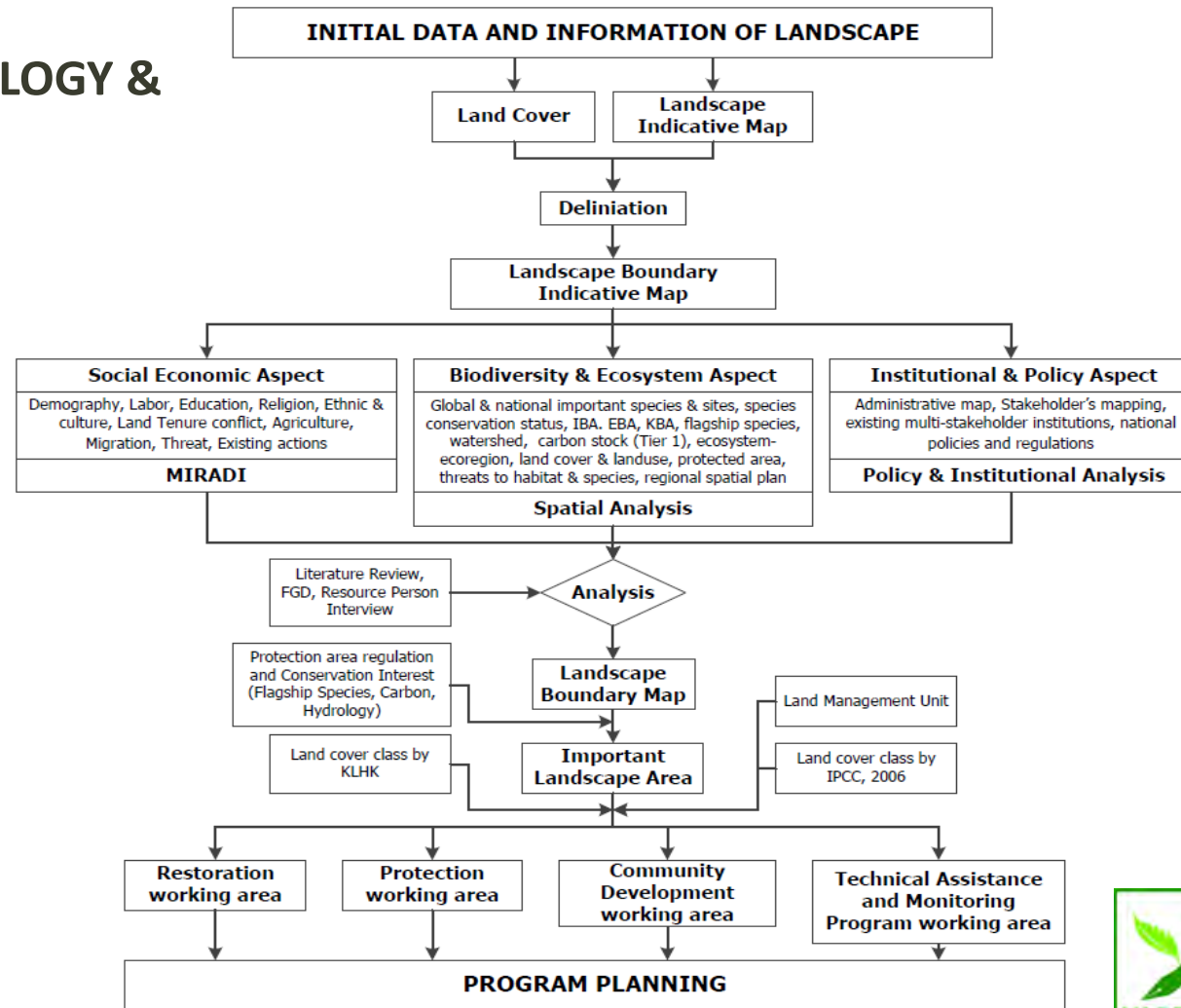
## ONE MILLION HECTARE COMMITMENT

In April 2014, APP has announced a plan to support the protection and restoration of one million hectares of forest across Indonesia. 10 landscapes were identified to be part of this initiative

This ground-breaking initiative has been developed with input from many stakeholders, including WWF and Greenpeace.



## METHODOLOGY & PROCESS





## Stakeholder meetings

1. > 30 stakeholder meetings
2. involved up to to 31 institutions in every FGD
3. Involved up to 41 people in every Focus Group Discussion
4. > 50 person involved at National level Focus Group Discussion



## AN INCLUSIVE PROCESS

The master plan was developed with input from local, national and international stakeholders and took account of:

- Delineate Landscape and Indicative Map
- Social Economics
- Ecosystems and Biodiversity
- Stakeholders, Policy, and Institutional analysis
- SWOT Analysis
- Expert reviews and Public Consultation



USE OUR PAPER, WE PLANT MORE TREES.

# LANDSCAPE CONSERVATION MASTER PLAN

## RENCANA INDUK



...dokumen ini berisikan dengan itu, pemerintah juga tetap mengembangkan kawasan ekosistem esensial yang berada di luar kawasan konservasi. Sehingga di masa mendatang, konservasi akan mencakup tingkat genetik, spesies, ekosistem, dan lanskap.

Arahan umum dari inisiatif pengelolaa kawasan berbasis lanskap ini mencakup proteksi, restorasi, pemberdayaan masyarakat, dan asistensi-monevring yang menekankan kerjasama multipihak dan dukungan kebijakan di semua lapisan (multi-layer policy intervention). Dari sudut pandang tugas dan fungsi Ditjen PSD, maka program pemberdayaan masyarakat di dalam lanskap sangat relevan. Target-target yang sejalan dengan PSD, antara lain pengembangan perikanan skala di dalam lanskap yang diarahkan untuk pemberdayaan masyarakat, model bisnis usaha dasar, dan pengembangan kemitraan antara masyarakat dengan perusahaan-perusahaan (public-private partnership) yang berorientasi di kawasan hutan produksi. Selain akan bekerjasama dengan APP, saat ini Ditjen PSD juga menjalin program kemitraan dengan berbagai pihak antara lain dengan ADRI, Komop, Musi Hutan Perahu, Pradita Perum Perahu di Jawa, KORINDO di Kalimantan, RTO-KIT, Sumedak-IT, Rencana Ekowisata di Jambi, BIC di Kelantan.

Program-program yang terkait dengan pengelolaa kawasan konservasi kawasan lindung, perlindungan sawah lar yang dihidang, restorasi-pemuliharaan ekosistem, pengembangan kawasan hutan dan lahan, pengelolaa perikanan, diformulasikan hukum di berbagai inisiatif lanskap tersebut juga sudah menjadi bagian target-target umum yang diarahkan oleh Kementerian Lingkungan Hidup dan Kehutanan. Oleh karena itu, dalam perencanaan dan pelaksanaan dalam penyusunan dokumen ini, perlu melibatkan dan melibatkan segenap direktorat/pid-bes dalam lingkup Kementerian, yaitu Ditjen Konservasi Sumber Daya Alam dan Ekosistem (DSAD), Ditjen Pengelolaa Hutan Produksi Selain Produksi, Ditjen Pengelolaa Daerah Aliran Sungai dan Lahan Lindung (DPSAL), Ditjen Pengelolaa Perikanan (DPP), dan Ditjen Pengelolaa Hutan. Selain itu, perlu juga melibatkan pemerintah daerah juga menjadi peran strategis untuk pemertan kawasan dan regulator, sehingga hasil dilibatkan dalam perencanaan dan pelaksanaannya sejak dini.

Inisiatif, konsep, dan arahan program yang dikembangkan di dalam dokumen ini merupakan non awal dan landasan untuk bagi para pihak dalam pengembangan dan pengelolaa kawasan berbasis lanskap. Dengan demikian, konsep dan program yang dirancang di dalam dokumen ini perlu segera diwujudkan dalam skala model yang melibatkan para pihak. Hasil upaya tersebut akan menjadi dasar pertimbangan dan perbaikan pengelolaa lanskap pada skala yang lebih luas.

Atas dasar pertimbangan-pertimbangan tersebut, Ditjen PSD menyambut baik inisiatif dan konsep pengelolaa kawasan berbasis lanskap ini. Para pihak yang bekerja pada berbagai sektor di dalam lanskap, secara bersama-sama dapat

...voluptatem quia voluptas sit aspernatur aut odit aut fugit, sed quia consequuntur magni dolores eos qui ratione voluptatem sequi nesciunt. Neque porro quisquam est, qui dolorem ipsum quia dolor sit amet, consectetur, adipisci velit, sed quia non numquam eius modi tempora incidunt ut labore et dolore magnam aliquam quaerat voluptatem. Ut enim ad minima veniam, ego nostrum exercitationem ullam corporis suscipit laboriosam, nisi ut aliquid ex ea commodi consequatur. Quis autem vel eum iure reprehenderit qui in ea voluptate velit esse quam nihil molestiae consequatur, vel illum qui dolorem eum fugiat quo voluptas nulla pariatur?



LOGO LOGO LOGO

PENGEMBANGAN KONSERVASI BER SKALA BESAR DI SUMATERA DAN KALIMANTAN



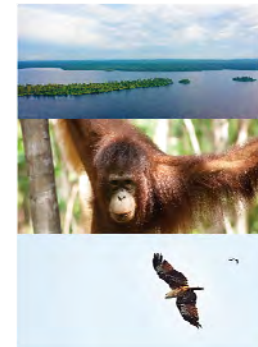
Kementerian Lingkungan Hidup dan Kehutanan  
Yayasan Pendidikan Konservasi Alam  
Yayasan Bolantara

# Moving Forward

- Belantara Foundation Established
- Identify most priority areas and targets for each landscape
- Develop action plans for each landscape
- Agreement with stakeholders



**Belantara**  
FOUNDATION





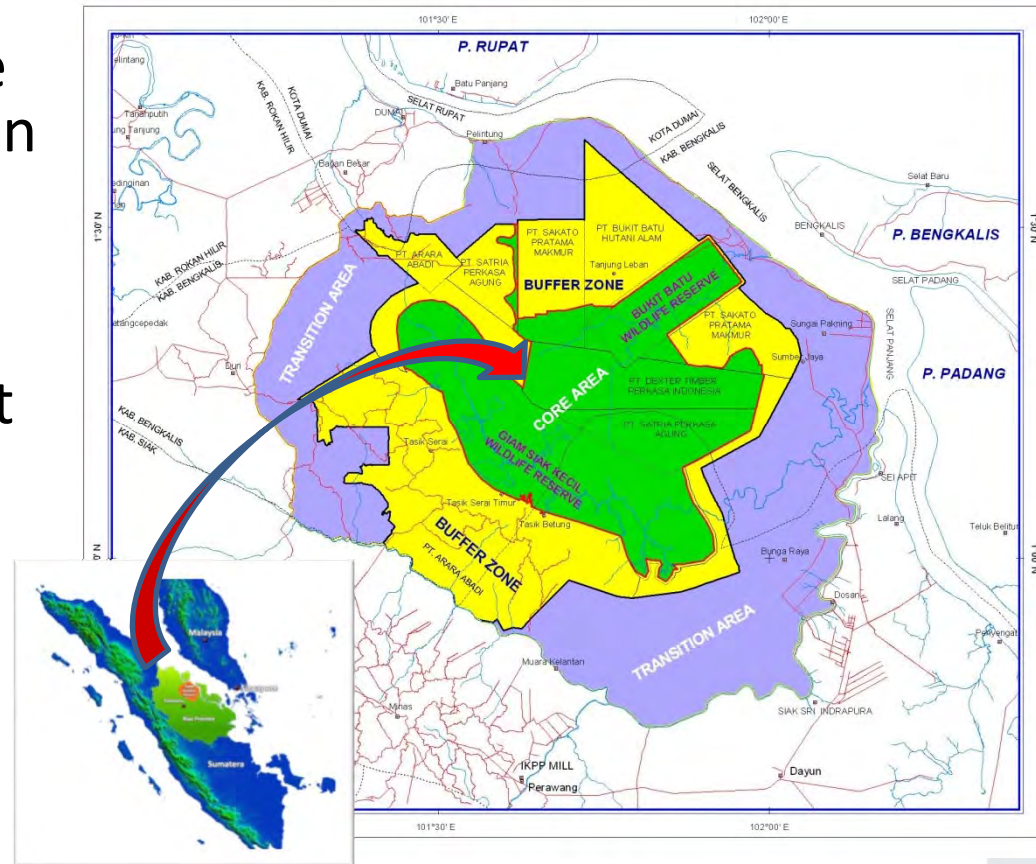


# GIAM SIAK KECIL – BUKIT BATU BIOSPHERE RESERVE

4th World Congress of Biosphere Reserves  
UNESCO – Man and the Biosphere Reserve (MAB) Programme  
Lima, Peru  
14 – 17 March 2016

## Giam Siak – Bukit Batu BR

- The 1<sup>st</sup> Biosphere Reserve in the world that has been initiated and co-managed by private and public sector
- Covers 705,271 ha of peat that divides into 25 % of Core Area, 32 % Buffer Zone and 43% Transition Area
- Dedicated to transform local communities from subsistence dependency on natural resources to other alternative sustainable livelihood.



<b>Core Area</b> <b>± 178,722 Ha</b> <b>(25%)</b>	<b>Transition Area</b> <b>± 304,123 Ha</b> <b>(43%)</b>	<b>Buffer Zone</b> <b>± 222,426 Ha</b> <b>(32%)</b>
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## Road Map to 2020 GKS BB

### 2015-2016

1. Integrated Strategic Management Plan implementation.
2. To launch a master plan of GSK-BB BR as part of Landscape Conservation Management Plan.
3. Enhancement of a taskforce/implementation body for supervising the implementation of action plan.
4. To obtain legal license an Ecosystem Restoration Concession for 46,500 ha area of natural forest to enhancing the protection core Area of GSK-BB BR
5. Restore ~ 350 ha degraded forest within the core zone of BR
6. Human-wildlife profiling study for an effective its mitigation
7. To Collaborate with Kyushu University on plant diversity survey



## Road Map to 2020 GKS BB

### 2017-2010

1. All villages in GSK BR benefited by community empowerment program
2. Partnership Fund established
3. Zero illegal activities in the Core Area and Buffer Zone
4. Integrated Strategic Management Plan implemented
5. Environmental services developed

## The Highlight activities 2014-2016

### Conservation and Protection

To protect and maintain the environmental condition

- ❑ A Master Plan of GSK-BB BR as part of landscape consevation commitment has been launched in Sep 2015
- ❑ Continue in conducting collaboration patrol with Natural Resources Agency, local government and cummunity in the Core Area of GSK-BB BR





## Collaboration with Academia

### Conservation and Protection

Apr 28 – May 1, 2015 Kyushu University Visit to APP site



- A visit from 7 professors from Kyushu University to conduct a botanical research in GSK-BB
- Kyushu's Professors are very impressed to APP & it's fibre suppliers for maintaining a good coexistence between their business with BR management



June 26<sup>th</sup> Nikkei Business



**Conservation and Protection**

**To protect and maintain the environmental condition**



❑ **A collaborative rehabilitation and restoration programmes in degraded area within Core Area of GSK-BB BR:**

1. One Box Two Trees (ASKUL – JAPAN) = 20 Ha with Jelutung trees (*Dyera lowii*)
2. Prof. Akira Miyawaki known as Mr. Tree Planting and ITTO Japan rehabilitate 10.000 trees of *Shorea sp* (25 Ha) within Core Area (
3. Applying a license of Ecosystem Restoration Concession (46.600 Ha) as part of Core and Buffer area of BR, (Recommendation from Governor of Riau being processed



**BUPATI BENGKALIS**

Nomor : 1522.1/Disubunhu/VU.348  
Lampiran : 1 (satu) lembar  
Perihal : Pertimbangan Teknis IUPHHK-RE An. PT. Karya Mee Gemilang

Bangkalis, Juni 2015  
Kepala 1011  
Bupati Kabupaten Riau  
Dit: PEKANBARU

Hormatilah :

1. Surat permohonan Izin Usaha Pemanfaatan Hasil Hutan Kayu - Restorasi Ekosistem (IUPHHK-RE) PT. Karya Mee Gemilang Nomor : 05/IKRG/2014/2014 tanggal 14 Mei 2014 perihal permohonan Restorasi / Pertimbangan Teknis IUPHHK-RE;
2. Undang-Undang RI Nomor 41 Tahun 1999 tentang Kehutanan sebagaimana telah diubah dengan Undang-Undang RI Nomor 19 Tahun 2004;
3. Peraturan Menteri RI Nomor 6 Tahun 2007 tentang Tata Hutan dan Pembentukan Rencana Pengelolaan Hutan serta Pemanfaatan Hutan, sebagaimana telah diubah dengan Peraturan Menteri Nomor 3 Tahun 2009;
4. Peraturan Pemerintah RI Nomor 38 Tahun 2007 tentang Pembagian urusan Pemerintah antara Pemerintah, Pemerintah Provinsi dan Pemerintah Kabupaten/Kota;
5. Peraturan Menteri Kehutanan RI Nomor P.31/Menhut/II/2014 tentang Tata Cara Permohonan dan Pembuatan Analisa Kerja Izin Usaha Pemanfaatan Hasil Hutan Kayu Dalam Hutan Alam, Izin Usaha Pemanfaatan Hasil Hutan Kayu Restorasi Ekosistem, atau Izin Usaha Pemanfaatan Hasil Hutan Kayu Hutan Tanaman Industri pada Hutan Produksi;
6. Keputusan Menteri Kehutanan RI Nomor : SK.6992/Menhut.VII/PS/2014 tanggal 13 September 2014 tentang Peta Indentifikasi Arah Pemanfaatan Hutan pada Kawasan Hutan Produksi yang telah diterbitkan Izin Usaha Pemanfaatan Hasil Hutan Kayu;
7. Surat Direktur Eksekutif Komite Nasional Program Man and Biosphere (MAB) Indonesia, LIPI Nomor : 325/MAB Indonesia/CI/11/2015 tanggal 10 Februari 2015 perihal saran dan pertimbangan;
8. Surat Kepala Balai Besar Konservasi Sumber Daya Alam Riau Nomor : 6.362/BBKSDARiau-BIDTEK/2015 tanggal 9 Maret 2015 perihal permohonan pertimbangan teknis IUPHHK-RE An. PT. Karya Gemilang, Mee di Kabupaten Bengkalis.

Selhubungan dengan hal tersebut di atas, bersama ini dibagikan pertimbangan terhadap permohonan IUPHHK-RE An. PT. Karya Mee Gemilang seluas ± 46.200,30 hektar (peta dan informasi keberadaan mangrove terlampir), telah sesuai dengan tata ruang wilayah Kabupaten Bengkalis dan Peta Indentifikasi Arah Pemanfaatan Hutan pada Kawasan Hutan Produksi yang telah diterbitkan Izin Usaha Pemanfaatan Hasil Hutan Kayu, dengan nilai investasi sebesar Rp. 402.829.460.000,- (Empat ratus dua milyar delapan ratus dua puluh Sembilan juta empat ratus enam puluh ribu rupiah) dan akan mempekerjakan sebanyak 179 orang karyawan tetap dan 1.000 orang tenaga harian lepas.

Ditentukan:  
Bilan, Saiful Ahmadi Usaid Nisran 070 Bengkalis Kode pos: 28712 Provinsi Riau  
Telepon (0766) 814388 Faks (0766) 21487 E-mail: ..... Website: www.bengkalis.go.id

dan Kehutanan RI di JAKARTA  
Hutan Produksi Lestari di JAKARTA  
19 di PEKANBARU.

**Ir./H. HENRYAN SALEH, M.Sc**

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## The Highlight activities 2014 - 2016

### Conservation and Protection

To protect and maintain the environmental condition

Relocate several protected species of wildlife including False Gharial (*Tomistoma chlegelei*) and Pangolin (*Manis javanica*) with Natural Resources Agency to GSK-BBR

Continue to conduct wildlife conflict mitigation training for forest plantation staff, workers, contractors and local community (471 peoples in 2015). The programme in collaboration with Tiger Conservation Forum, other NGOs, and Ministry of Environment and Forestry.







# The Highlight activities 2014 - 2016

## Economic Development

To support and enhance local welfare as well as capacity building



clean water project – Peat water treatment (with Indonesian Institute of Sciences/LIPI)

renewable energy programme (Biogas) in Tj. Pan and Temiang Villages.

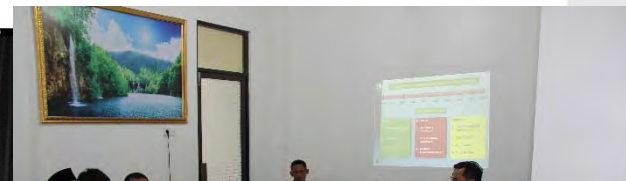
develop a model of Conservation Village

create other alternative livelihood for local community living within Buffer





- A study on hydrology, biodiversity, and water management
- Development of research camp
- Flagship species monitoring
- Biodiversity and social assessment study
- Preliminary carbon potential assessment
- Coordination between key stakeholder (local gov. MAB-Indonesia, MoF and Private Sector) at the Province & District level (2015).
- Ramin tree propagation & demonstration plot
- Peat study



# Peat Management

PHASE 1. RECEPTION  
(un 2014)

peat data  
collection by  
Universitas  
& research

months

## PHASE 2. PEAT BEST PRACTICE MANAGEMENT PROGRAMME by Deltares

### Quick Scan

Initial rezoning  
recommendations  
for critical peat  
areas

### Gap Closing & Zoning

Data acquisition and  
analysis: LiDAR,  
hydrology and peat  
characteristics

### Planning & Implementation

Development of  
recommendations  
and implementation

2 years





## Challenges

- ❑ Strong **pressure on natural resources** from migrant communities (encroachment, illegal logging), poaching, forest fire and human-wildlife conflict
- ❑ **Weak institutional** arrangement
- ❑ Lack of practical mechanism for tapping ecosystem services & enhancing natural resources value (carbon credit, biodiversity, ecotourism)
- ❑ Lack of communities' understanding about GSK-BB Biosphere Reserve



## Summary

A case of common **understanding and commitment development among stakeholders** that needs to be maintained and enhanced.

A practice of sustainable businesses should be **harmonized** with landscape management.

Belantara Foundation gives an opportunity as a sustainable funding resources for managing BR

**An outlook of possibilities** in developing another initiative of public – private partnership in managing natural resources.

THANK YOU