

# WOOD TRACEABILITY SYSTEM OPERATING IN INDONESIA



KEMENTERIAN KEHUTANAN



Background

# Indonesia



More than 17.000 islands

181,157 million ha land area

133,574 million ha forestland

# Indonesia: Forestry

- ▣ Forest area by [function](#)
- ▣ Logs production [by forest management type](#)
- ▣ Illegal logging is one of the forestry problems which should be addressed by the parties in synergy at local, national and international level.
- ▣ Indonesia-Japan collaboration in combating illegal logging and the trade of illegally logged timber and wood products 2003-2011.

# Objective of Japan-Indonesia Collaboration

- ▣ Combating illegal trade of illegally logged timber and wood products
- ▣ Improving forest law enforcement for controlling illegal logging
- ▣ Improving economics opportunities for the local communities
- ▣ Increasing awareness of the threats of illegal logging
- ▣ Promoting sustainable forest management

# Project implementation

## ▣ Activities:

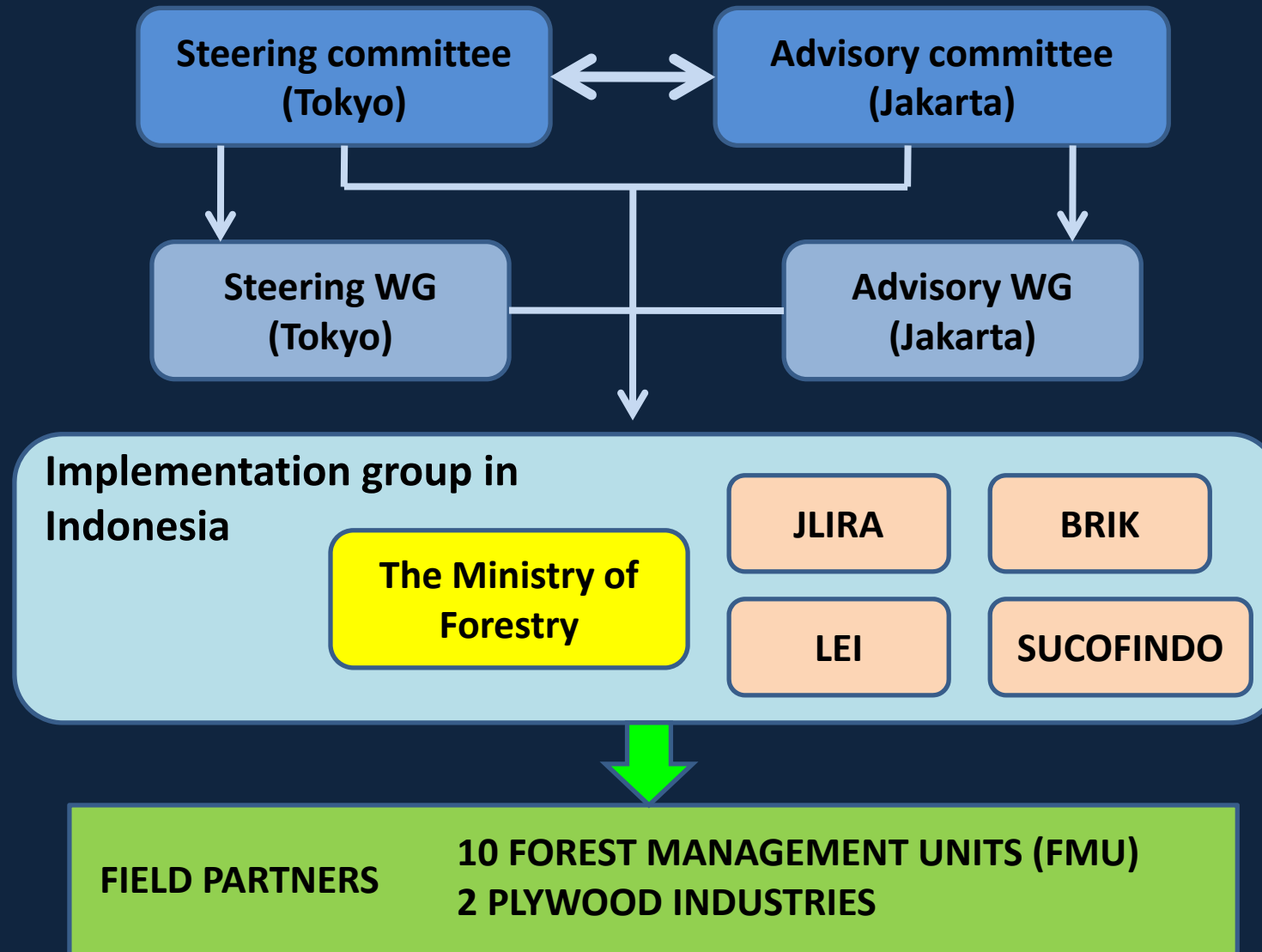
- Study on timber administration
- Development of wood traceability system in the forest
- Development of wood traceability system for industry
- Designing integration with the national online timber administration system (SIPUHH-on line)
- Field testing
- Workshops

## ▣ Time frame

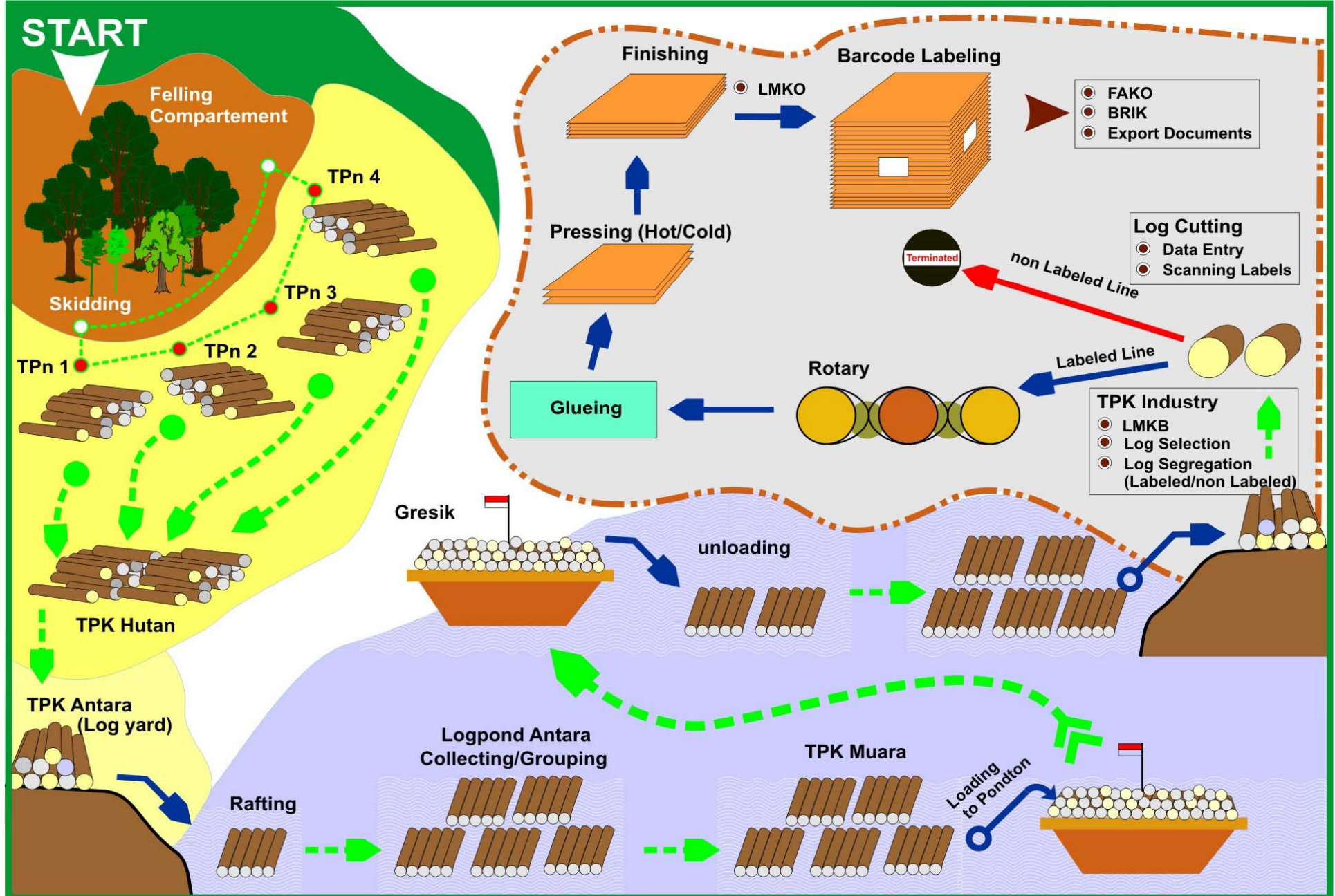
- Two phases: phase 1 (2003-2007), phase 2 (2008-2011)

.....continued

## Project implementation structure

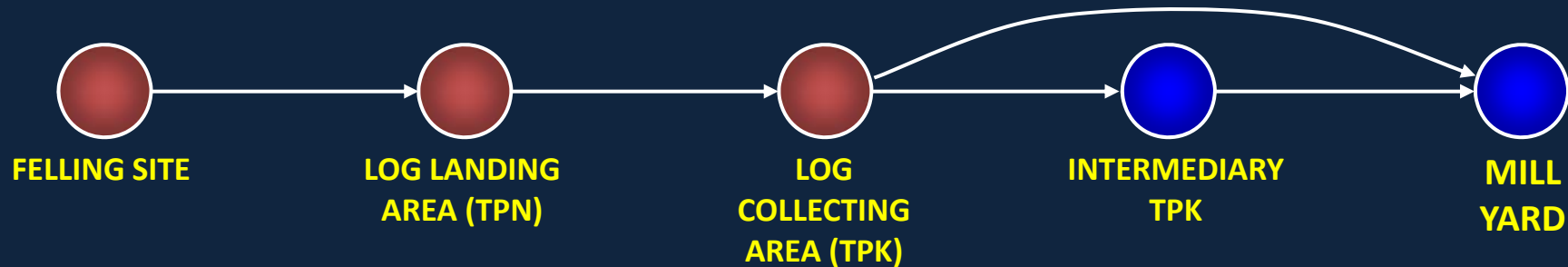


# WOOD TRACEABILITY COVERAGE



# Project achievement

## 1. Logs traceability system within the forest

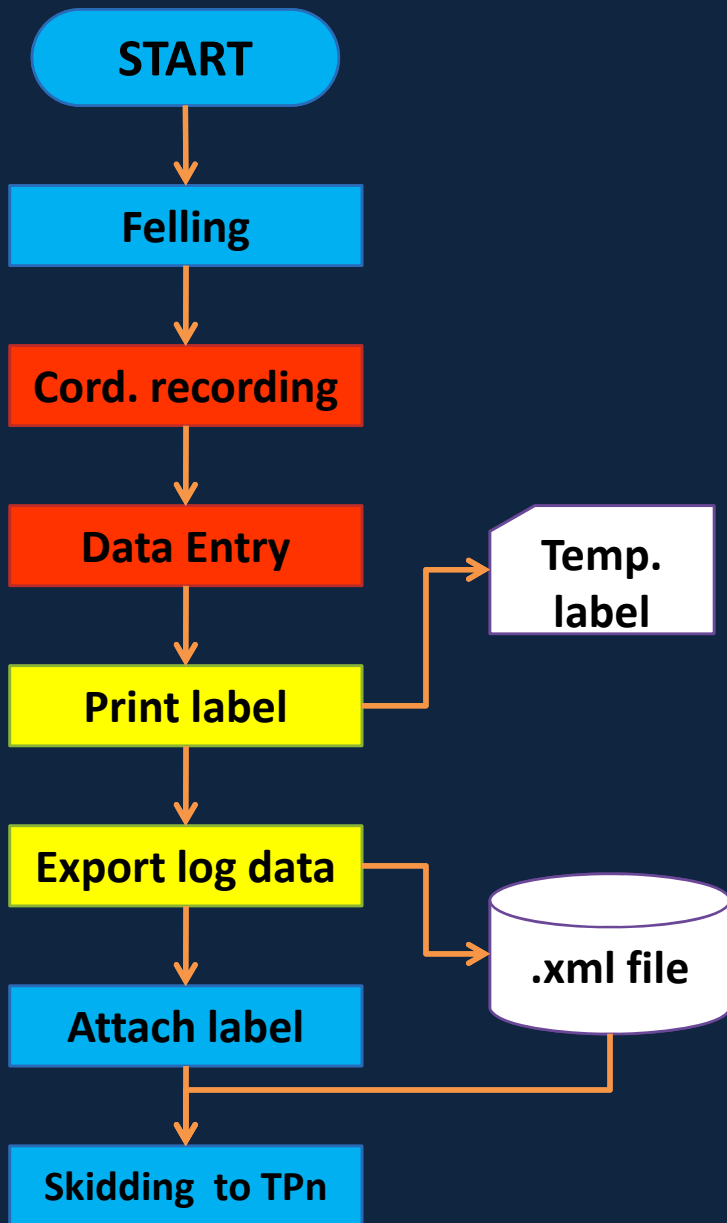


Within forest concession area

Outside forest concession area



# Felling Site



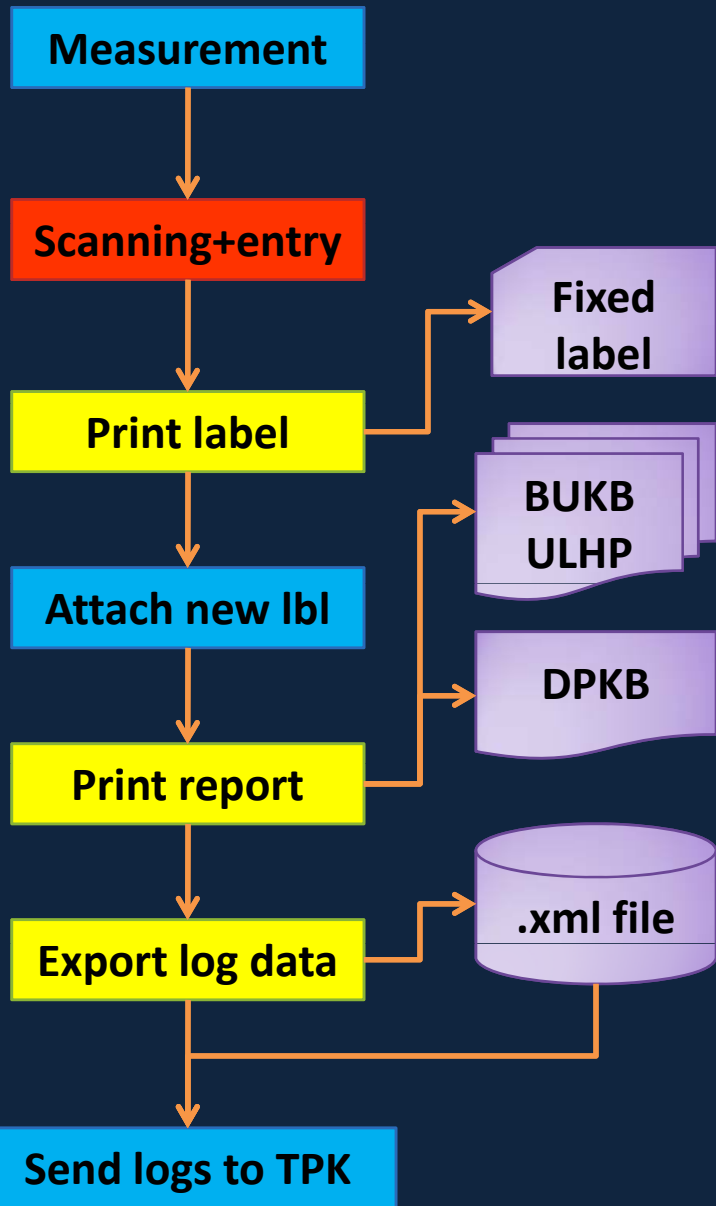
## Attaching label to log & stump



Legend :

- Manual operation
- MT/Handheld operation
- PC/Notebook operation
- Result of the operation

# Log Landing Area (TPn)



## Scan term label & input Print report data

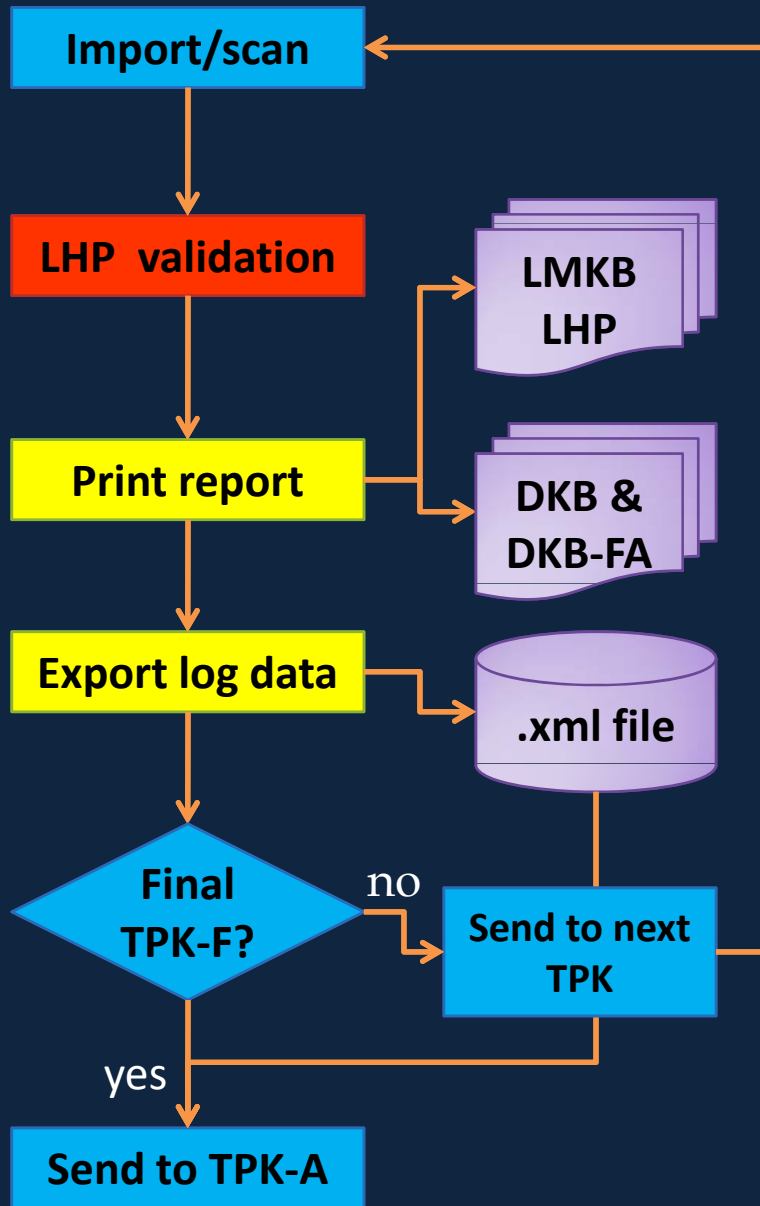


Legend :

- Manual operation
- MT/Handheld operation
- PC/Notebook operation
- Result of the operation

# Log Collecting Area/TPK –(in the forest concession area)

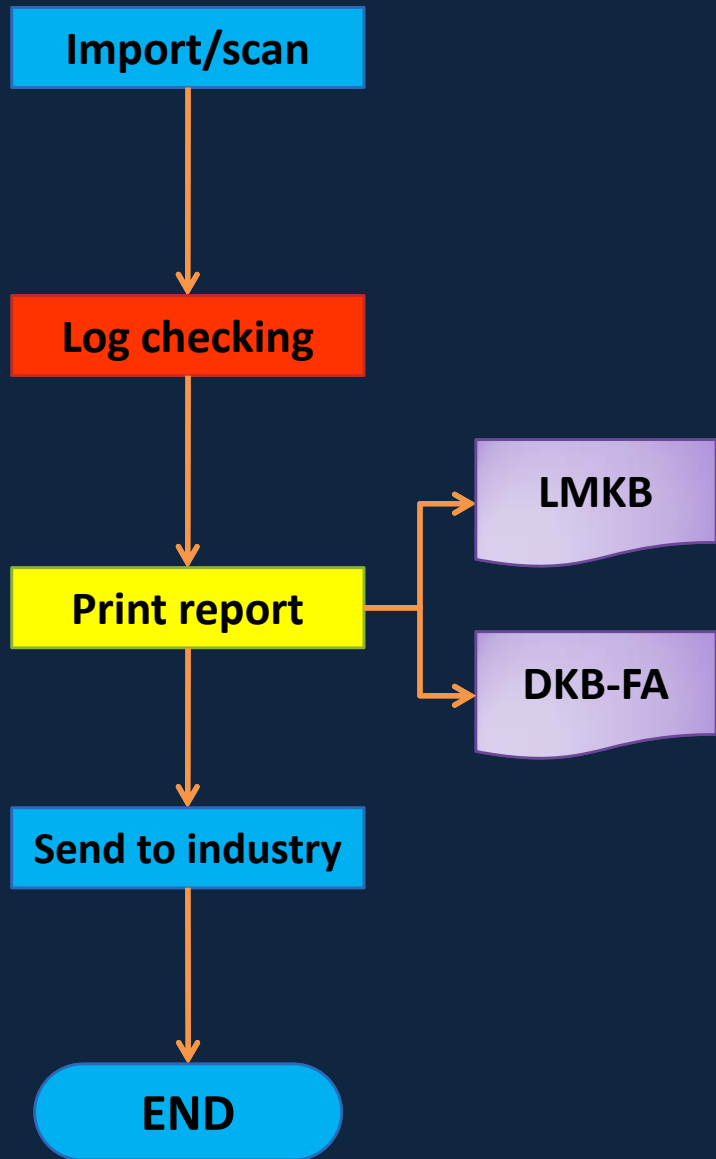
## Print report in TPK-F



Legend :

- Manual operation
- MT/Handheld operation
- PC/Notebook operation
- Result of the operation

# Intermediary Log Collecting Area (TPK outside the concession area)



## Import log data in TPK-A



Legend :

- Manual operation
- MT/Handheld operation
- PC/Notebook operation
- Result of the operation

## 2. Logs traceability system within the factory

  
Logs  
recording



  
Imported  
vener  
recording



Factory's internal coding  
system and administration

### Raw materials tracking method



Windows logo | :: Scan Label [Navigation icons] [ok]

```
[FctryLic=SK.73/MENHUT-VI/2006][FctryLoc=  
http://wikimapia.org/#lat=-6.9308333  
&lon=110.3027778&z=16&l=0&m=b]  
[TLASCert=CoC:BM TRADA  
TT-COC-002536+VLK:VLK  
00099][SrcPUHHOnline=Central  
Kalimantan][LogPUHHOnline=1704AXX  
SPKT00000000000013979+1704AXXSP  
KT00000000000016714][SrcCommFore  
st=Central  
Java][LogCommForest=SGBN171442][  
SrcLocalVeneer=231;Central  
Java].....
```

Exit [Keyboard icon] Reset

**S INDONESIA**

able origin of raw materials,  
the detail information and visit  
t.net (SIPUHH)



SUCOFINDO

ODE VERSI JLIRA

# Equipments

1. Mobile Terminal
2. Notebook Computer
3. Barcode Printer
4. Paper Printer
5. Battery
6. Inverter

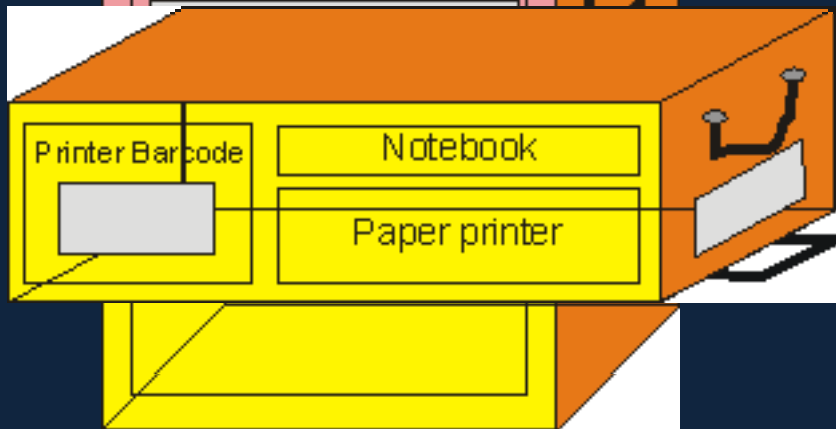


Printer  
Barcode  
Terminal  
or Handheld  
Computer  
Handy  
printing  
system  
dimensional  
barcode  
or Handheld  
Printer  
Barcode  
Terminal  
or Handheld  
Computer  
Handy  
printing  
system  
dimensional  
barcode  
or Handheld

# PACKAGING

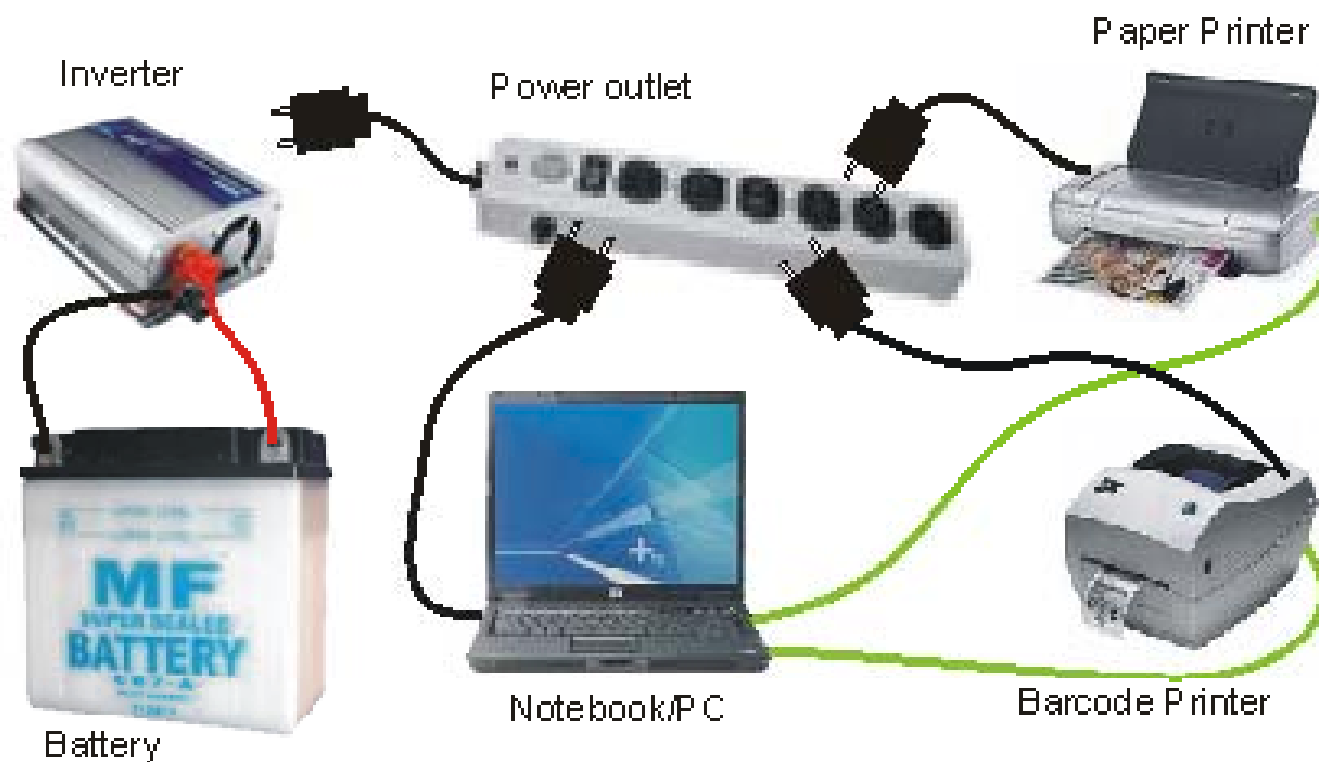
1. Power Package

2. Comp. & Printer





# Connection Scheme of Equipments



— Power cord, positive pole of battery

— Negative pole of battery

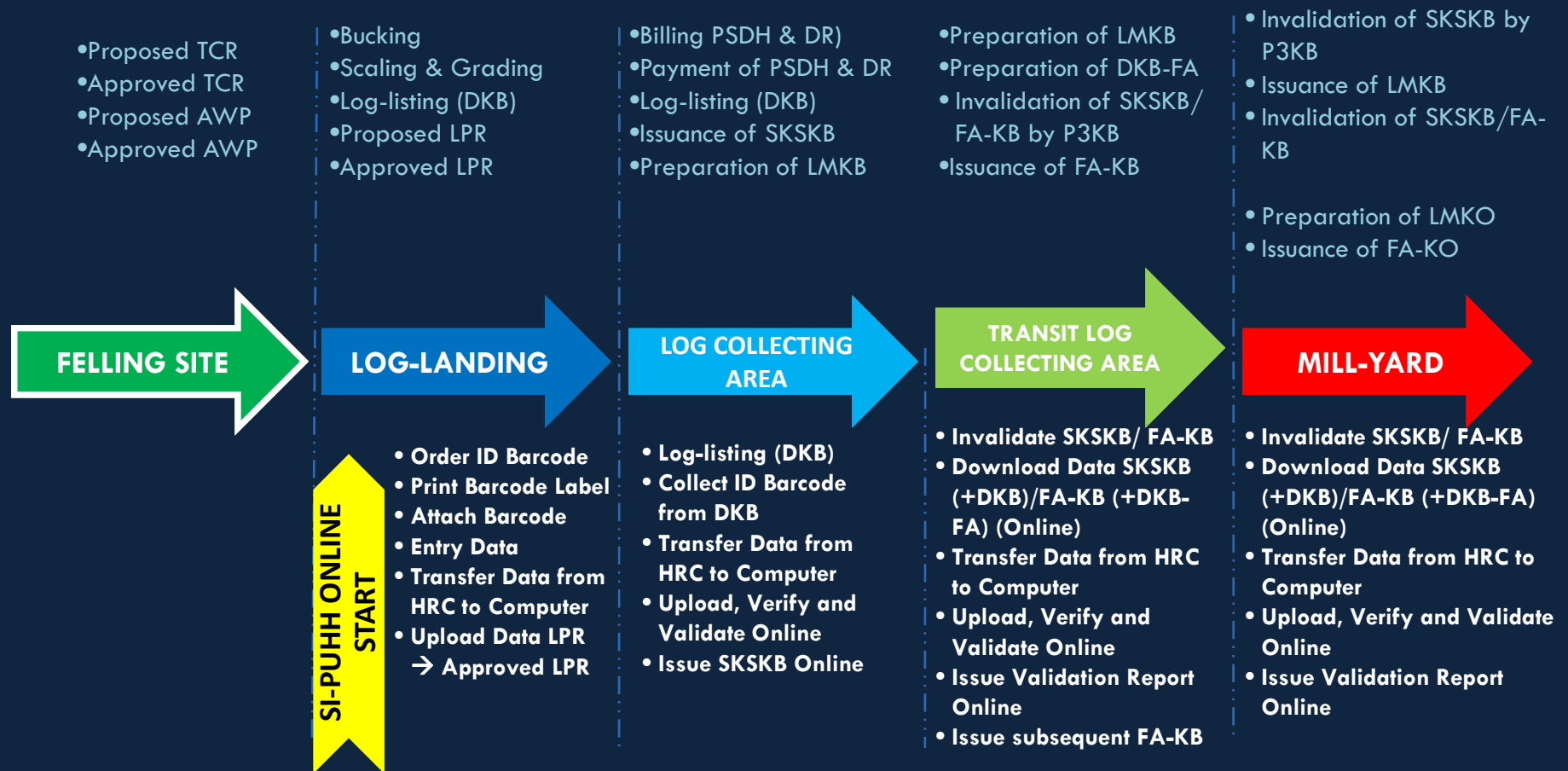
— USB/printer cord

## INTEGRATION WITH THE NATIONAL TIMBER ADMINISTRATION ON LINE SYSTEM (SIPUHH ONLINE)

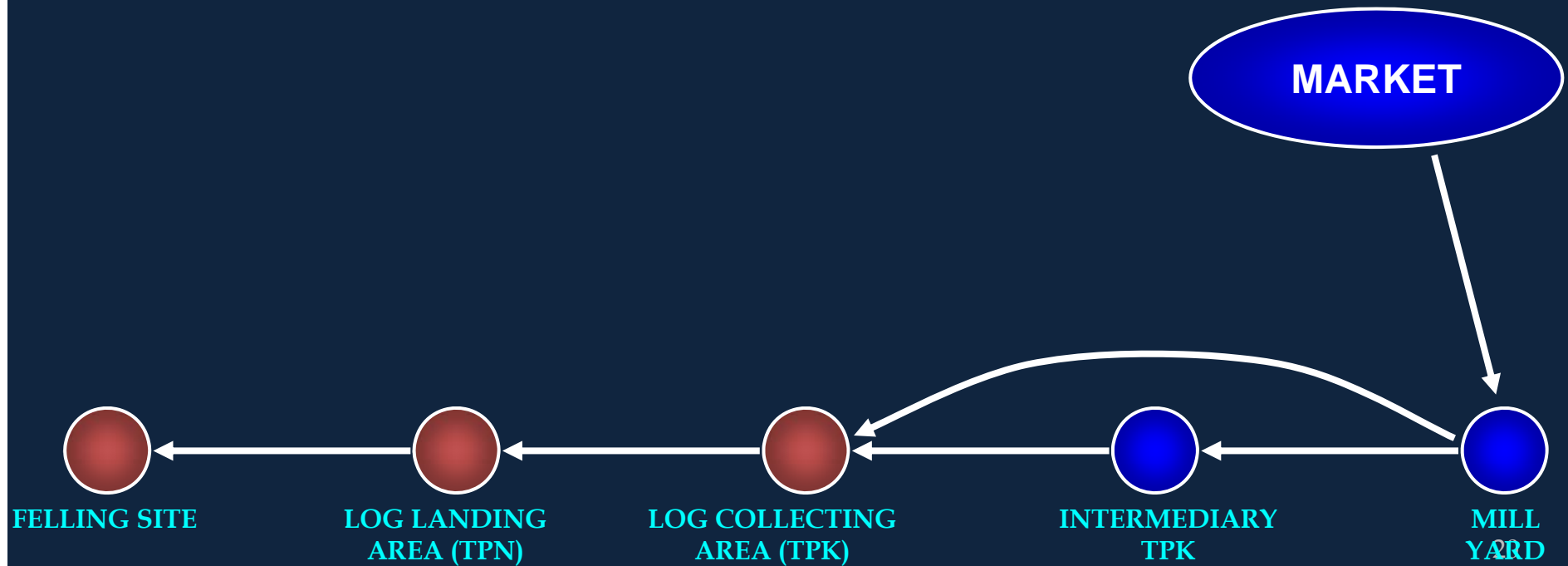
- ▣ In parallel the MoF has been develop the on-line timber traceability system, currently 61 FMU implementing the system.
- ▣ Why should the online system?:
  1. Improving transparency, accountability and professionalism in timber administration
  2. Reducing transaction cost and avoiding direct contact of parties of timber administration
  3. Facilitating more parties including public to be able to monitor logs transport and administration in a real time.
  4. Effective monitoring for forestry tax
  5. Improving market trust in terms of legality assurance

# Supply Chain for Timber from State Forest

(based on Permenhut No.P.55/Menhut-II/2006 jis P.63/Menhut-II/2006, P.8/Menhut-II/2009 dan P.45/Menhut-II/2009)



# Tracking the logs



# Parties involved

PUBLIC

ADMIN

MOF OPERATOR

MOF -

## INFORMASI PRODUKSI KAYU BULAT DARI HUTAN ALAM & NILAI PSDH/DR

The screenshot shows the main interface of the 'Sistem Informasi Penelusuran Hasil Hutan dan Penelusuran PSDH/DR' (Forest Product Tracking and PSDH/DR Tracking System). It features a header with the Indonesian Ministry of Forestry logo and a navigation menu. The main content area includes a 'SELAMAT DATANG' (Welcome) message, a 'Sistem Informasi Penelusuran Hasil Hutan dan Penelusuran PSDH/DR' description, and several data tables and charts. Key elements include 'INFO PRODUKSI LOGS & REALISASI URUN KEMUTANAN PER PROVINSI' (Log Production and Timber Trade Realization by Province) and 'TRANSKASI DATA POKH & PULP/SDH' (Timber and Pulp/SDH Transaction Data).

Prodaksi Kayu Bulat - Windows Internet Explorer

REALISASI PRODUKSI KAYU BULAT PROVINSI KALIMANTAN TIMUR

15 Jul 2007 and 03 Februari 2009

Kategori/Kota	Kaya Meranti		Kaya Borneo		Kaya Latah		Kaya Limas		Kaya Liris		Total
	Barang	Volume	Barang	Volume	Barang	Volume	Barang	Volume	Barang	Volume	
Berau	2.512	10.033,11	0	0,00	0	0,00	0	0,00	0	0,00	2.512
Bontok	2.512	10.033,11	0	0,00	0	0,00	0	0,00	0	0,00	2.512
Gunung	2.512	10.033,11	0	0,00	0	0,00	0	0,00	0	0,00	2.512
Kuala Betang	2.512	10.033,11	0	0,00	0	0,00	0	0,00	0	0,00	2.512
Marau	2.512	10.033,11	0	0,00	0	0,00	0	0,00	0	0,00	2.512
Paser	2.512	10.033,11	0	0,00	0	0,00	0	0,00	0	0,00	2.512
TOTAL	15.072	60.198,66	0	0,00	0	0,00	0	0,00	0	0,00	15.072

Kewajiban & Realisasi Urun Kehutanan - Windows Internet Explorer

KEWAJIBAN & REALISASI URUN KEHUTANAN PROVINSI KALIMANTAN TIMUR

15 Agustus 2007 and 03 Februari 2009

KABUPATEN/KOTA	KEWAJIBAN		REALISASI		SISWA		SISWA	
	Pokok Rp.	D.R. Rp.	Pokok Rp.	D.R. Rp.	Pokok Rp.	D.R. Rp.	Pokok Rp.	D.R. Rp.
Berau	2.512.000,00	0,00	2.512.000,00	0,00	0,00	0,00	0,00	0,00
Bontok	2.512.000,00	0,00	2.512.000,00	0,00	0,00	0,00	0,00	0,00
Gunung	2.512.000,00	0,00	2.512.000,00	0,00	0,00	0,00	0,00	0,00
Kuala Betang	2.512.000,00	0,00	2.512.000,00	0,00	0,00	0,00	0,00	0,00
Marau	2.512.000,00	0,00	2.512.000,00	0,00	0,00	0,00	0,00	0,00
Paser	2.512.000,00	0,00	2.512.000,00	0,00	0,00	0,00	0,00	0,00
TOTAL	15.072.000,00	0,00	15.072.000,00	0,00	0,00	0,00	0,00	0,00

FINANCE OFFICER

P3KB

BP2HP

DISPROV - OPERATOR

SKSKB

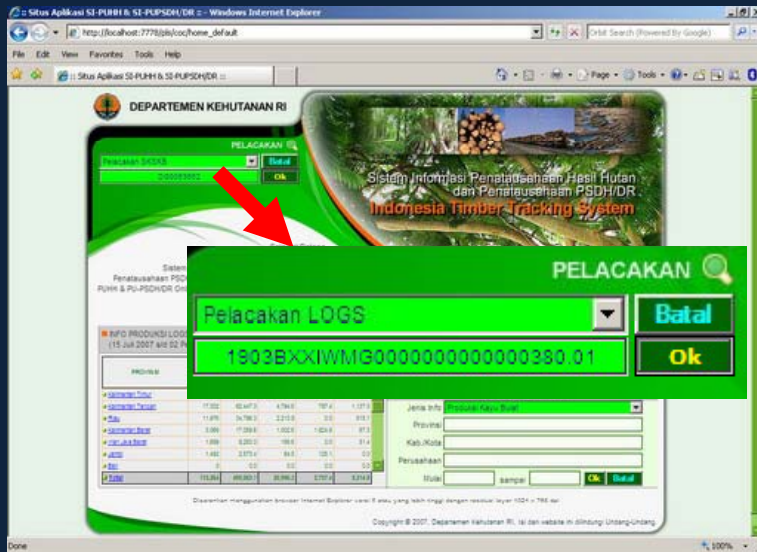
P2LHP

DISKAB - SKSKB

DISKAB - OPERATOR

# On line log tracking

<http://puhh.dephut.go.id>



**PELACAKAN ASAL-USUL KAYU BULAT**

ID BARCODE  
**1903BXXIWMG000000000000380.01**

Jenis : Sempitir  
Kelompok Jenis : Kayu Indah

**POSISI TERAKHIR**

- Nama Penerima : PT. INTRACAWOOD MANUFACTURING
- Alamat Penerima : Jl. Yos Sudarso RT. II No. 36-37, Tarakan
- Status : **BELUM DITERIMA (DALAM PERJALANAN)**
- Pengirim : PT. INTRACAWOOD MANUFACTURING
- Alamat : Jl. Yos Sudarso RT. II No. 36-37, Tarakan
- Dokumen Angkutan : FAKB - No. Seri 1903PT./M/A.004198 - Tgl. 07 Maret 2008
- Pejabat Penerbit : Muchtar, S.E  
Reg. 029/19/1903/FA-KB/MCT/KB
- Moda Angkutan : Darat
- Alat Angkut : Truk
- Nomor Polisi / Nomor Lembang : 1111
- Pengemudi / Nakhoda : Mustopa
- Loka Muat : Tpk Km 36 - Kilometer 36  
Kabupaten Bulungan, Provinsi Kalimantan Timur

**TPK ANTARA / TPK TRANSIT / TEMPAT PENAMPINGAN**

- Nama : PT. INTRACAWOOD MANUFACTURING
- Alamat : Jl. Yos Sudarso RT. II No. 36-37, Tarakan
- Loka Bongkar : Tpk Km 36, Kilometer 36  
Kabupaten Bulungan, Provinsi Kalimantan Timur
- Diterima oleh Pemilik : 06 Maret 2008
- Nama : M. Tahir
- Jabatan : Pelaksana
- Diterima oleh Petugas Kehutanan : 06 Maret 2008
- Nama : Gat Ridwansyah
- Register/JP : 009/19/1903/M/MG/GST/JP3KB
- Pengirim : PT. INTRACAWOOD MANUFACTURING
- Alamat : Jl. Yos Sudarso RT. II No. 36-37, Tarakan
- Dokumen Angkutan : SKSKB - No. Seri DG0063662 - Tgl. 06 Maret 2008
- Pejabat Penerbit : Inansyah Aswan  
Reg. 023/19/1903/M/MG/IAS/WP25KSKB
- Moda Angkutan : Darat
- Alat Angkut : Truk
- Nomor Polisi / Nomor Lembang : -
- Pengemudi / Nakhoda : Sunarto
- Loka Muat : Tpk 36 - Km.36 Selanjut  
Kabupaten Bulungan, Provinsi Kalimantan Timur

**TPK HUTAN, TPh DAN ASAL TEBANGAN/PRODUKSI**

- Nama : PT. INTRACAWOOD MANUFACTURING
- Alamat : Jl. Yos Sudarso RT. II No. 36-37, Tarakan
- TPK Hutan : Tpk 36, Km.36 Selanjut  
Kabupaten Bulungan, Provinsi Kalimantan Timur
- Tempat Pengumpulan (TPh) : Tpn Hutan, Selanjut  
Kabupaten Bulungan, Provinsi Kalimantan Timur
- Asal Produksi : 2008
- Tahun RKT : 08A
- Nomor LHP-KB : 20 Februari 2008
- Tanggal LHP-KB : Ahmad Saia  
Reg. 019/19/1903/AHM/MW/HA/KB
- Pembuat LHP-KB : 2008
- Blok Tebang : 3748
- Petak Tebang : Nomor 1954A
- Nomor Pohon : ID Barcode 1903BXXIWMG000000000000380

Keluar

Translated to other languages using Google translation facility



PELACAKAN

キャンセル OK



この情報システムは、メディアのトランザクションデータでPUHH & PU-PSDH/DR オンライン、メディア情報でPUHH & PU-PSDH/DRを整理するリアルタイム。PUHH & 基本的にはSIのPU-PSDH/DR実装のネイティブフォレスト州立森林公園としてのシステム管理に規定する 政令林業大臣の規程、P.3/Menhut-II/2009電子。  
を通して進捗ログ、各ユニットのトレースすることができるログを知られているが「起源」(法的起源)だけでなく、法的側面の充実(法令遵守)適用/インドネシアで適用されます。

生産情報のログ&地方のPER林料の実現 (2009年3月6日のS/D 2010年11月25日)

山東	関連LOGSの (LHPも閣下出血をSPPを公開されていました)		林のロイヤリティ (PSDH&DR) の		オラジン 取扱	
	冊	M3の	PSDH (ルピア百万円)	DRは、\$アメリカ (\$百万米 円)	甲、	UMの
● <a href="#">空余カリマンタン川</a>	254959	1,214,852.89	92,547.36	午後11時04分	8	18
● <a href="#">夏カリマンタン</a>	175286	851,323.74	61,670.24	16.68	8	25
● <a href="#">バブア</a>	250334	779,533.53	69,489.91	11: 48	6	10
● <a href="#">夏カリマンタン</a>	18036	97,022.69	6,418.42	1.77	3	4
● <a href="#">夏バブア</a>	8606	53,424.82	8,107.96	0.82	1	1

トランザクションデータPUHH & PU-PSDH/DR

**SI-PUHH**  
Sistem Informasi Penatausahaan Hasil Hutan

**SI-PSDH/DR**  
Sistem Informasi Penatausahaan PSDH/DR

ラウンドウッド製造インフォメーション&負債のPSDH / DRの

タイプ情報 **丸太生産**

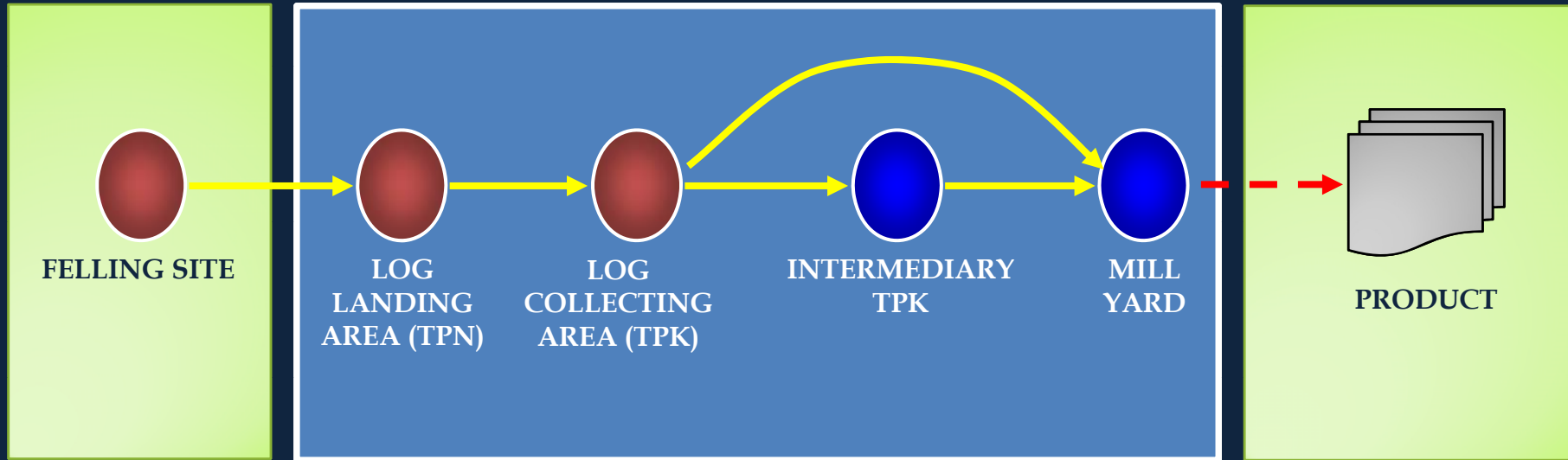
州

甲市

会社

は、S/D

# INTEGRATION



## SIPUHH on line

JLIRA-LEI



JLIRA-LEI



**JLIRA-LEI OFF LINE SYSTEM**



# Benefit

- ▣ Forest management unit/industry:
  1. Accelerating timber administration handling process
  2. Improving control and efficiency of logs utilization
  3. Improving branding image as the products has been legally verified
  
- ▣ Government:
  1. Effective control on logs transportation and administration including its associated taxes
  2. Ensuring that Indonesian exported wood products comes from traceable legally/SFM sources
  3. Improving forest governance in order to combat illegal logging and trade of illegally logs and timber products
  4. Facilitating public participation in monitoring logs and timber products administration

▣ Consumers:

1. Obtain the assurance that the purchased wood products comes from traceable legally/sustainably managed forest
2. Demonstrating concern to support SFM by purchasing legal/SFM verified wood products
3. Demonstrating concern to support climate change actions in reducing degraded forest caused by illegal logging

# Challenges

- ▣ Development and application of the system for other forest management types: plantation forest and community forest
- ▣ Development and application of the system for other wood processing industries
- ▣ Improving capacity of the parties involved in the implementation of the IT-based system

THANK YOU