



Forest Information Management System

Patrick Newton

Chief Executive Officer

patrick.newton@helveta.com

Tel: +44 1235 838 559

Michel Trudelle

Business Development Director

michel.trudelle@helveta.com

Tel: +852 9616 5081



www.helveta.com

About Helveta

Helveta is the ONLY PROVIDER of commercially available s/w Solutions for Chain of Custody Management and Verification of Legal Origin.

- Helveta is a privately held company founded in 2004
- Corporate Headquarters near Oxford, England
Regional offices in China (Hong Kong), France, Malaysia, Singapore and the USA
- Funded through private placements
Investors include Oxford Capital Partners & Close Ventures
- Developed and deployed s/w solutions for resource mapping, asset tracking and Chain of Custody management

In the News



February 2008

**BBC Television
& Radio News**

Detailed profile of
Helveta technology



March 2008

**The Economist
Magazine**

Helveta technology feature



**Timber Trade
Journal
Environmental**

Achievement Award 2006



Principal Business Segments

Helveta focuses its activities on s/w solutions facilitating Chain of Custody and information management to the forestry, agribusiness and food industries



WOOD

APPLES



BEEF

COTTON



FRESH
PRODUCE

COFFEE



POULTRY

ur solutions help address issues with

- reduce provenance
- logistical challenges with transit and storage conditions, transfer of control
- labor rights of workers and working conditions
- economic issues related to fair payment and fair trade

Principal Business Segments

Helveta focuses its activities on s/w solutions facilitating Chain of Custody and information management to the forestry, agribusiness and food industries

In the forestry sector, Helveta's Control Intelligence ("CI") suite of products enables a complete **Forest Operations Management Information System** that can provide:



Wood Flow or
Process Monitoring,
Control and Optimization



Traceability and
Verification of Legal
Origin (VLO)



Open Platform for
Information Exchange and
Document Management

We can assist Forestry Departments and private operators by configuring our platform to replicate the existing **National Forest Legal Standard** as well as **industry practices**

Partners and Customers

Stakeholders



Partners



Sponsors



End Users



Liberia Forest Initiative



PEPSICO

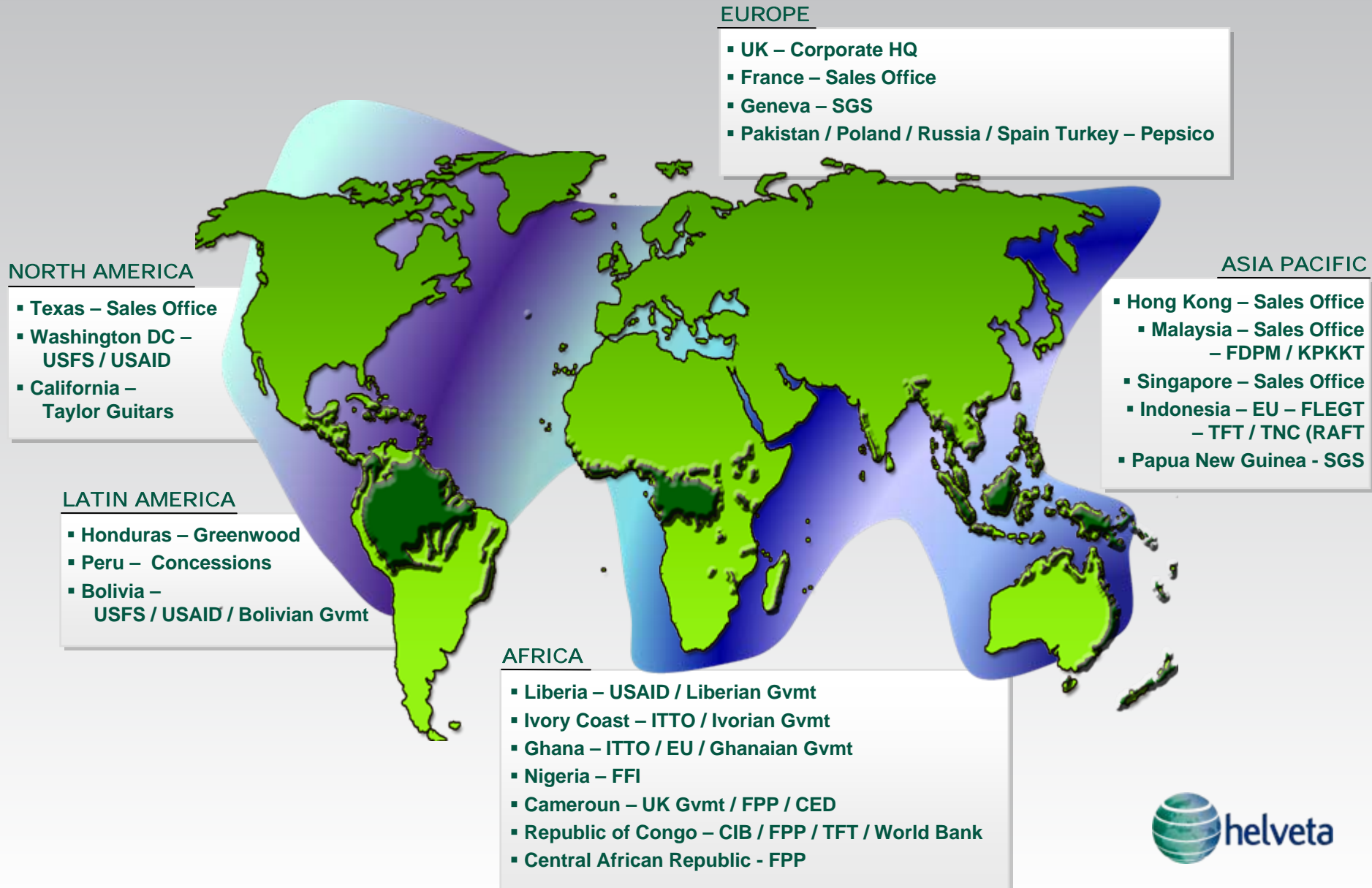


Perhutani

dlh.



Global Presence



Application Requirement

A Forest Operations Management Information System must be able to cater to the needs of:

National State Regulators

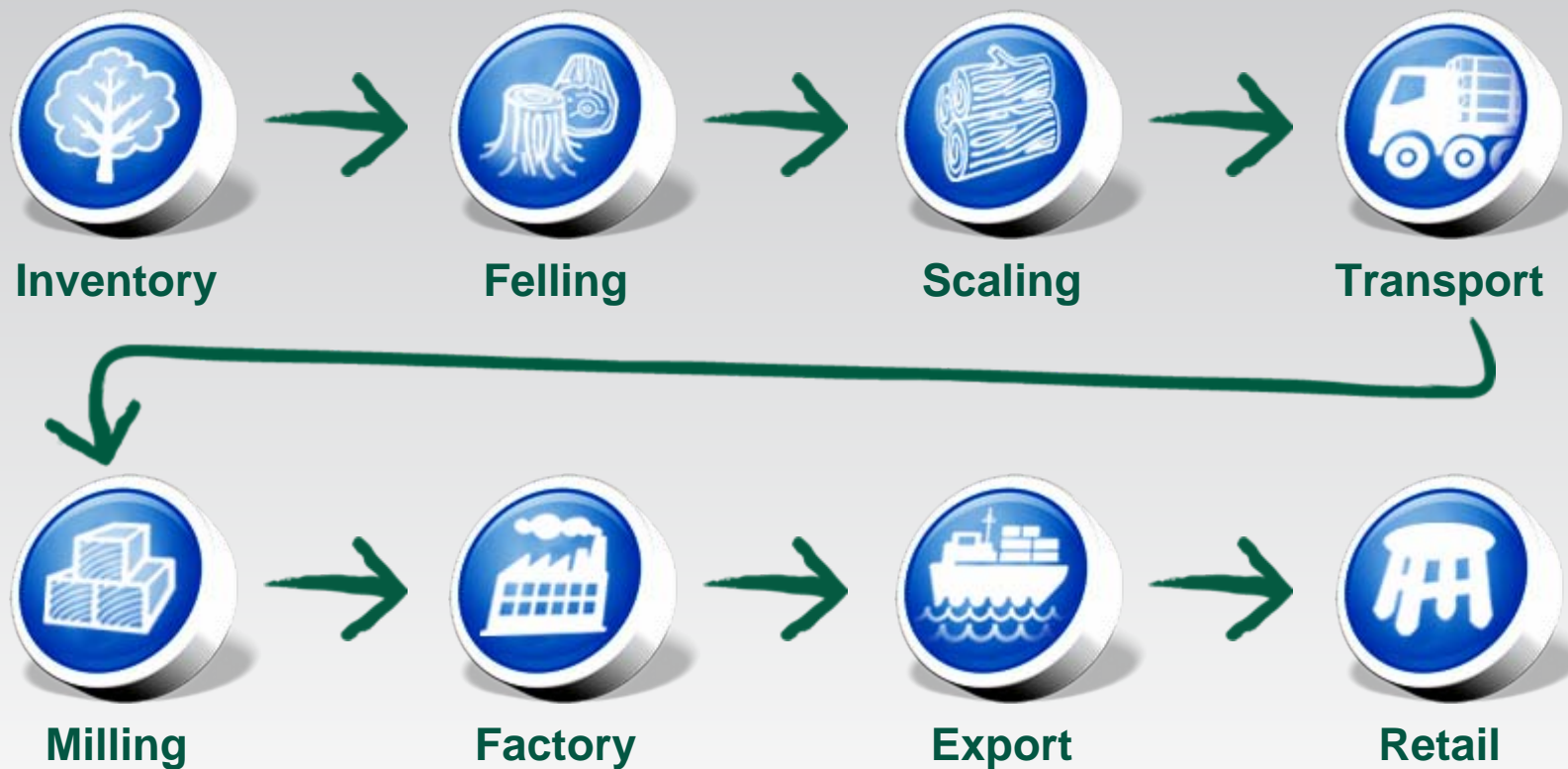
- Facilitate all administrative processes related to the review, approval and management of concessions, licenses, permits, etc...
- Host and analyse, in near real time, all the data on the forestry sector
- Generate reports and controlled official documents
- Provide information management and sharing capabilities
- Assist in enforcing and auditing adherence to the Forest Law and in assessing Verification of Legal Origin (VLO) through “back to stump” traceability
- Facilitate the Forest Revenue System
- Assist in managing and controlling the export of wood resources

Companies Involved in Forestry

- Optimize corporate operational procedures
- Facilitate audit and management control
- Provide real time feedback on all operations

Customised Logical Chain of Custody

The Forest Operations Management Information Systems replicates existing processes where timber is being processed or changes ownership



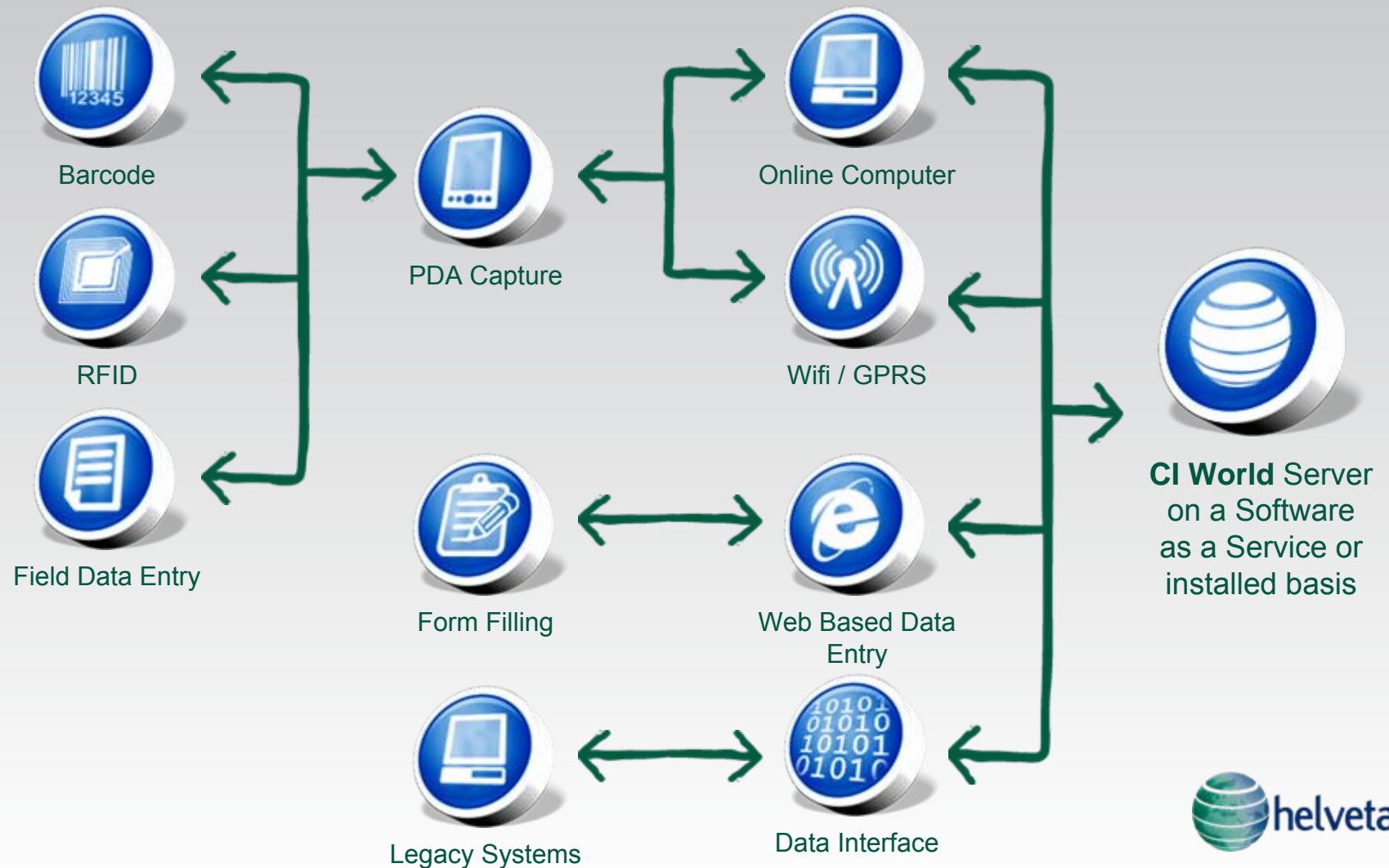
Control Point Data Flow

Data Source

Data Capture

Data Sync

Data Hosting



Features and Capture Mode

CI Mobile is the field data capturing interface of CI World and can be installed on PDAs running Microsoft Windows Mobile.

Features of CI Mobile include

- Fully customizable *capture modes*
- Interface can be tailored to be *icon* driven
- Capture field descriptions easily translated into any language
- User ID and password protected interface
- Variable access to *capture modes* depending on operator User ID (more than one role can be available to one operator)
- All stored information updated upon synchronization of the PDA

Capture Mode

CI Mobile
Battery: 25% v: 1.24
Select Language: EN
Select Timezone: (GMT)
HRC ID: uat
Unsent Records: 1
Username: uat
Password:
123 1 2 3 4 5 6 7 8 9 0 = +
Tab q w e r t y u i o p []
CAP a s d f g h j k l ; '
Shift z x c v b n m , . / ←
Ctl ã ü * \ →

LOG-IN SCREEN

CI Mobile
Battery: 25% v: 1.24
HRC ID: uat
Unsent Records: 0
Capture Mode
YS Stumping
YS Felling
YS Panggong
YS PangKalan
YS Pre Harvest Planning

CAPTURE MODE
SELECTION

CI Mobile
Battery: 25% R: 0
YS Felling
Contr/Block/Sub-Block: br-ys3/04-
Feller: Tony
Tree #: T0001
Species: CR (Kapur)
Reject: CR (Kapur)
Remarks: KR (Keruing)
MER (Merbau)
MP (Melapi)
NT (Nayatoh)
RS (Red Seraya)
SB (Selangan Batu)
123 1 2
Tab q w
CAP a s d f g h j k l ; '
Shift z x c v b n m , . / ←
Ctl ã ü * \ →

DATA ENTRY

PDA Models

The TDS Nomad

- Rugged, Waterproof, Sand and Dust Proof
- Integrated GPS, Barcode Scanner and Camera Option
- 3rd party RFID extension module available
- 480 x 640 Pixels (VGA), 16 bit color TFT with LED backlight
- 128 MB DDR SDRAM, 30 MB reserved

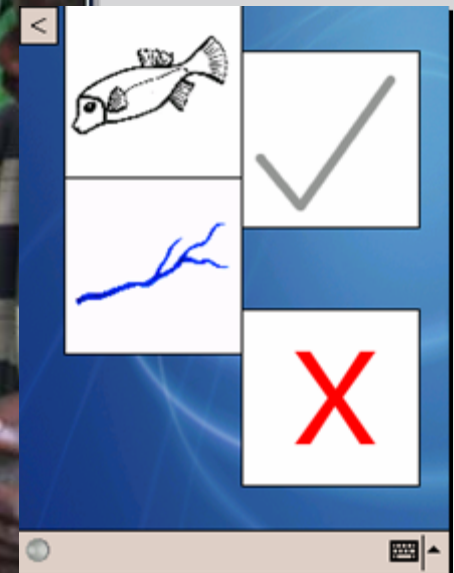


The Psion WorkaboutPro

- Integrated RFID Module (HF Module 13.56 MHz)
- 480 x 640 Pixels (VGA), 16 bit color TFT with LED backlight
- 128 MB flash, 30 MB RAM
- Optional Barcode Scanner
- Rain and Dust Proof



PDA Models



ICON BASED
CAPTURE MODE

MBENDJELE PYGMIES IN THE CONGO
USING THE ICON DRIVEN INTERFACE

Platform Overview

CI Earth™ MAPPING MODULE

.....

Community Land Use and
Planning Monitoring
Forest Inventory and
Data Visualization

Trac Elite™ CHAIN OF CUSTODY MODULE

.....

Verification of Legal Origin (VLO)
Chain of Custody Monitoring
(CoC) in Near Real Time
Product Composition and
Ownership Determination
Automation and Process
Optimization



DOCUMENT MANAGEMENT MODULE

.....

Storing, Management and Issuance
of Reports and Documents
Creation, Issuance and Monitoring
of Licenses, Permits
Export Monitoring & Facilitation
Forest Revenue System
Management
Reporting

PROCESS CONTROL MODULE

.....

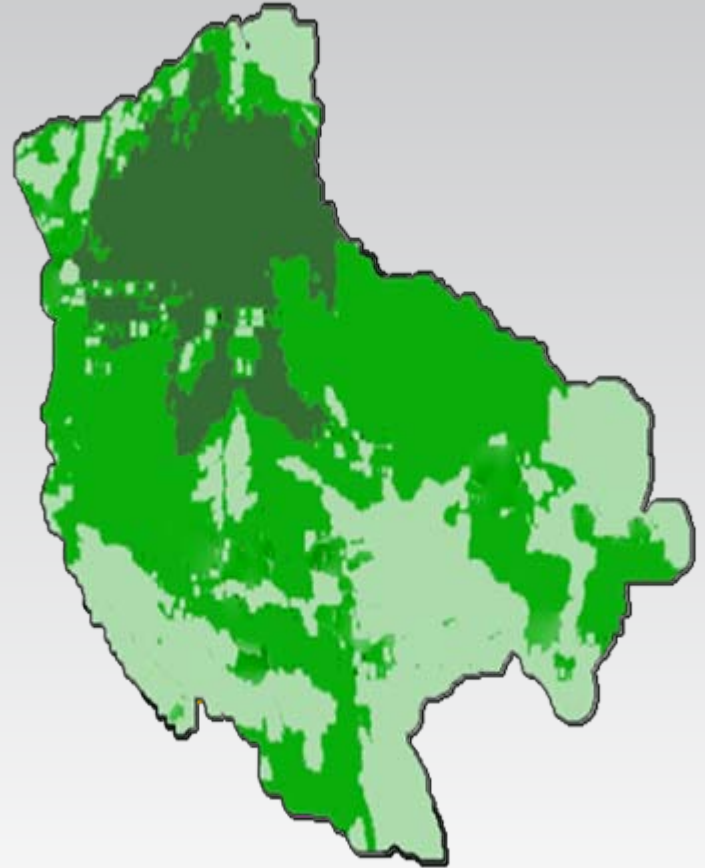
Alarm Generation and
Intervention Tracking
Third Party Audit Facilitation
Process and Quality Monitoring
Data Verification and Reconciliation

CI Earth - Mapping Module

CI Earth is a geographical resource mapping module that also allows for visualization of the data.

The module facilitates:

- Pre-felling inventory of the cutting block. This involves recording of geographical information such as locations boundaries of the area, access roads, rivers, etc... and associated GPS coordinates
- Display of captured information using either ARC-GIS or Google Earth
- Creation of standing inventory report, map of logging license area and the production of harvesting plans
- Assist in mapping community resources and usage of the forest to assist in managing the impact of logging on local communities



CI Earth - Mapping Module



Tree ID : XXK67XR5-9X1H

Species : GUI

Site Reference : TSC/A2/Block 4

Line Number : 1

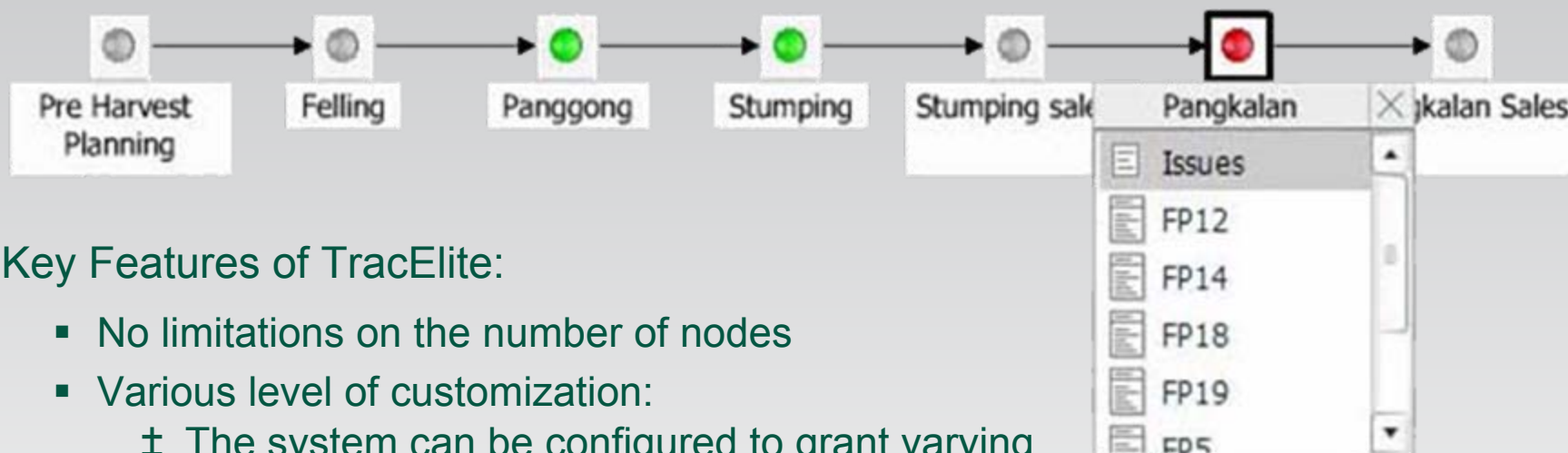
Distance Number : 5

Diameter : 0.4

Directions: [To here](#) - [From here](#)

TracElite - Chain of Custody Module

The physical chain of custody is logically mapped onto CI World through the TracElite™ module



Key Features of TracElite:

- No limitations on the number of nodes
- Various level of customization:
 - ‡ The system can be configured to grant varying level of access on a per user basis
 - ‡ At each node, a drop down menu provides access to reports, documents, and data
- The Chain of Custody can be defined at a very high level, or can be made very granular
- All processes related to the local Forest Law can be configured into TracElite

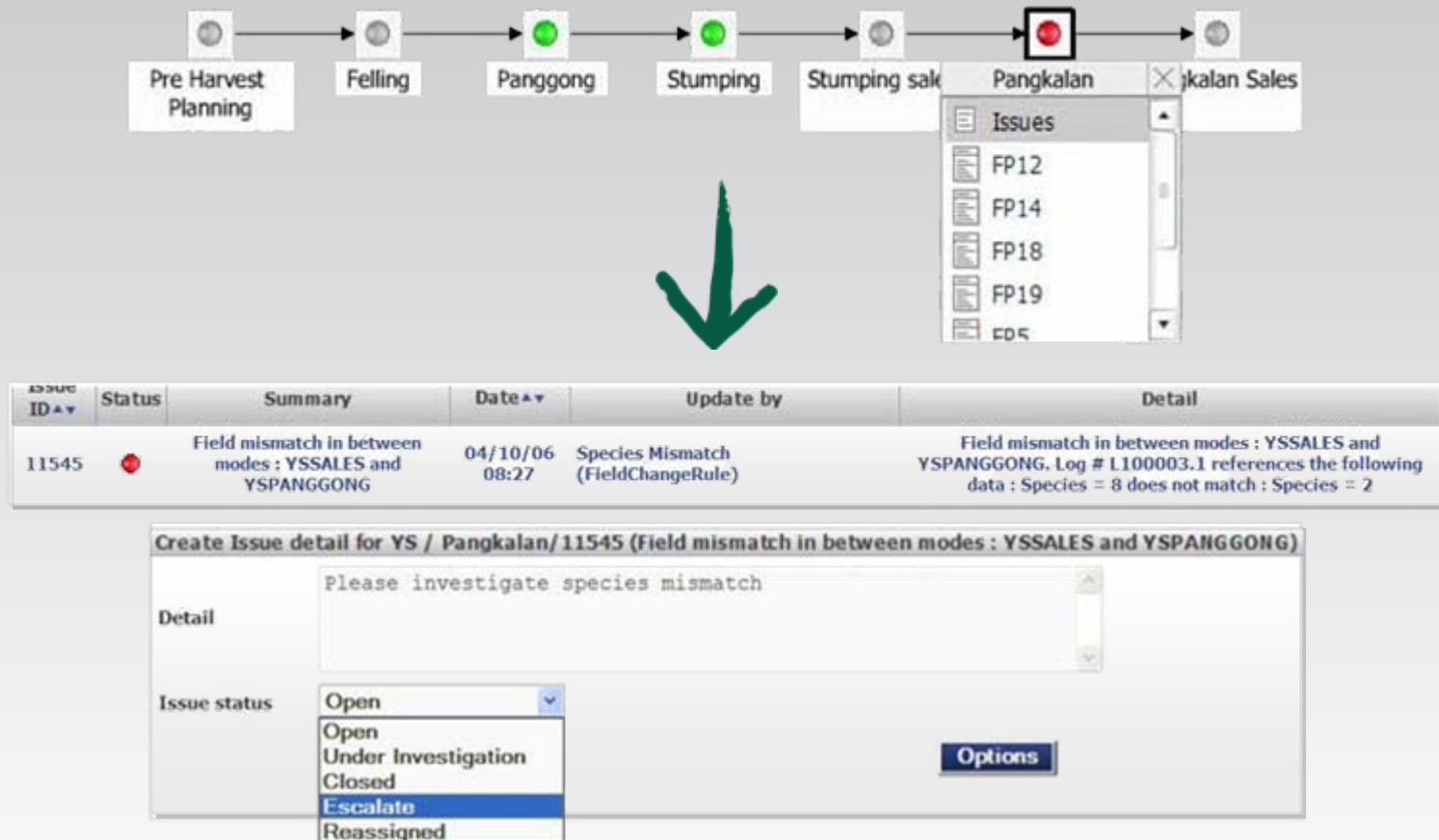
The process control module processes data reconciliation algorithms as well as triggers alarms

For every new set of data entered into the system, one can configure:

- Data input monitoring rules for unexpected entries or inconsistencies
- Reconciliation of data across various nodes
- Application of bespoke rules such as:
 - Logging outside cutting block
 - Log not moved
 - Change in species
 - Change of volume
 - Change in process efficiency
- Trigger and dispatch of alerts should discrepancies be identified
- Alarm management system related to verification activities & audits
- Alerts can be triggered on persistent rules breaches past a certain threshold

Process Control Module

The process control module processes data reconciliation algorithms as well as triggers alarms



Document Management Module

The document management module allows to generate and share official and procedural documentation and reports

For every new set of data entered into the system, one can configure:

- Storing & Management of Documents
- Review / Issue / Monitoring of Permits
- Waybill Issue
- Invoice Control
- Import / Export Monitoring
- Barcode Cataloguing & Issue

INVOICE

Block Reference: TSC/A2/U2 Owner TIN: 487024007
Company: Targuh Timber Co.

Enumeration: Sen Date Surveyed: 10/11/2008
Supervisor: Date: CoGIS Entry Date: 10/29/2008
HQ Data Entry Clerk: shales

Check performed	Pass/Fail	Reason
TSC/FMC reference matches TIN	Pass	
All 4 corners and the entire area of the Block Map fall within the gross area of the Concession	Pass	
All Barcodes are correct	Fail	See list below
No Barcode duplicates on Block Survey	Fail	See list below

TREE BARCODES IN ERROR

Barcode	Cell	Barcode Allocation		Barcode Type	Barcode Expired
		TIN	Concession		
04J9XJUR-4RLE	2.6	Unknown	Unknown	Unknown	Unknown
05034E06-22CP	4.8	Unknown	Unknown	Unknown	Unknown
05074E0C-F3PM	10.8	Unknown	Unknown	Unknown	Unknown

Advanced Features – Road Map

Other advanced features supported by the system include:

- Real Time Field Monitoring & Inspection:
 - ‡ Allows to download database information on the handheld and perform data reconciliation in the field
 - ‡ Re-entering of data as a “cross check” validating previous entries
- Field printing of “Removal Passes”
- Barcode / RFID management and audit
- RFID locking
- PDA lockdown
- Off line data entry with background synchronization
- Wizard report assistant
- PDA data preview

Key Benefits of the Platform

Key benefits of the platform:

- Off the shelf platform configurable to local Forest Legal Standard and Forest Revenue System
- Quality Assurance (QA)
- Longevity of the application and availability of upgrades, new features and bespoke developments
- Availability of product technical documentation and user manuals
- Availability of warranties, support and maintenance
- Support of third party interfaces
- Backward compatibility and migration path to future technical standard
- Deployable as a “hosted” or “deployed” service or both... !!!
- Can be implemented to reflect any Forest Legal Standard or Industry practices
- Full system administration features

Forest Solutions

- Liberfor Liberia
- Ivory Coast
- Cameroun



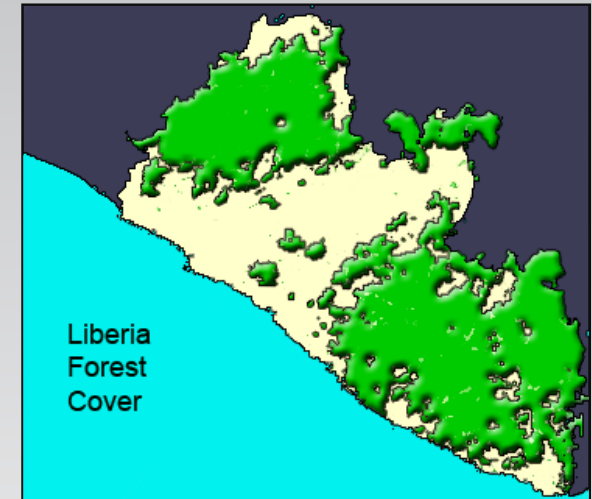
Liberia Case Study

The Importance of Liberia's Forests...

- Forests cover 30% of Liberia
- Largest remaining forests in West Africa
- \$20 million of annual revenue for the Liberian Government

Liberfor - project timeline

- 2003
End of civil war
UN Security Council ban on timber export
- 2006
All former forest concessions cancelled
Enactment of new forestry law
UN sanctions in the export of timber lifted
- 2007
Contract for implementation of national chain of custody monitoring system for Liberian timber flows awarded to SGS & Helveta
- 2008
Commencement of 5-year implementation project
\$1.64m US Government grant
February: system online 2008
October: commencement of legal timber operations



LiberFor – Contract Mandate

The provision of a technology system that will:

- Manage a chain of custody providing traceability of forest
- Products from stump to export
- Continuously monitor timber flows in Liberia including
- Log/timber tracking system
- Monitoring of regulatory document
- Monitoring of sampled field checks
- Release timber exports on behalf of the Government of Liberia
- Invoice and monitor payments by logging companies to the GoL

Liberia Case Study



Forest Operation



Transport



Transformation



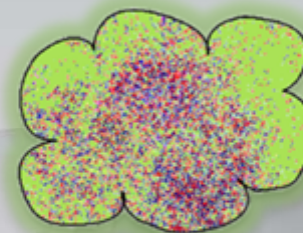
Export



 **LiberFor**
monitoring the Liberian Forest sector
CI World Server



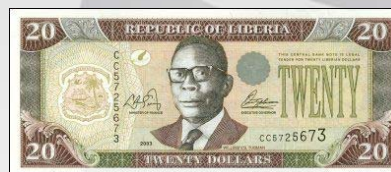
Liberia Case Study



Public Network



INVOICE					
Block Reference: TSCA3J2		Order TIN: 407034007			
		Company: Tappan Timber Co.			
Enumeration: Sun	Date Sampled: 10/11/2008				
Supervisor:	Date:				
HQ Data Entry Clerk: status	CoCB Entry Date: 10/29/2008				
Check performed	Pass/Fail	Reason			
TSCFMC reference matches TIN	Pass				
All 4 corners and the entire area of the Block Map fall within the gross area of the Concession	Pass				
All Barcodes are correct	Fail	See list below			
No Barcode duplicates on Block Survey	Fail	See list below			
TREE BARCODES IN ERROR					
Barcode	Cell	Barcode Allocation		Barcode Type	Barcode Expired
		TIN	Concession		
0A010A00-40LE	2.8	Unknown	Unknown	Unknown	Unknown
0B040B-00CP	4.8	Unknown	Unknown	Unknown	Unknown
0B040C-00PW	10.8	Unknown	Unknown	Unknown	Unknown



Liberia Case Study

Forest Operation



Transformation



Export



Transport



Communities



Central Bank of Liberia



Enforcement Authorities



Liberia Case Study – Core System

CI Earth – Mapping

- Block maps
- Stock surveys
- Plantation compartment maps

TracElite – Chain of Custody

- Tree felling
- Cross-cutting, dressing & log registration
- Transport of logs & wood products

Performance Management

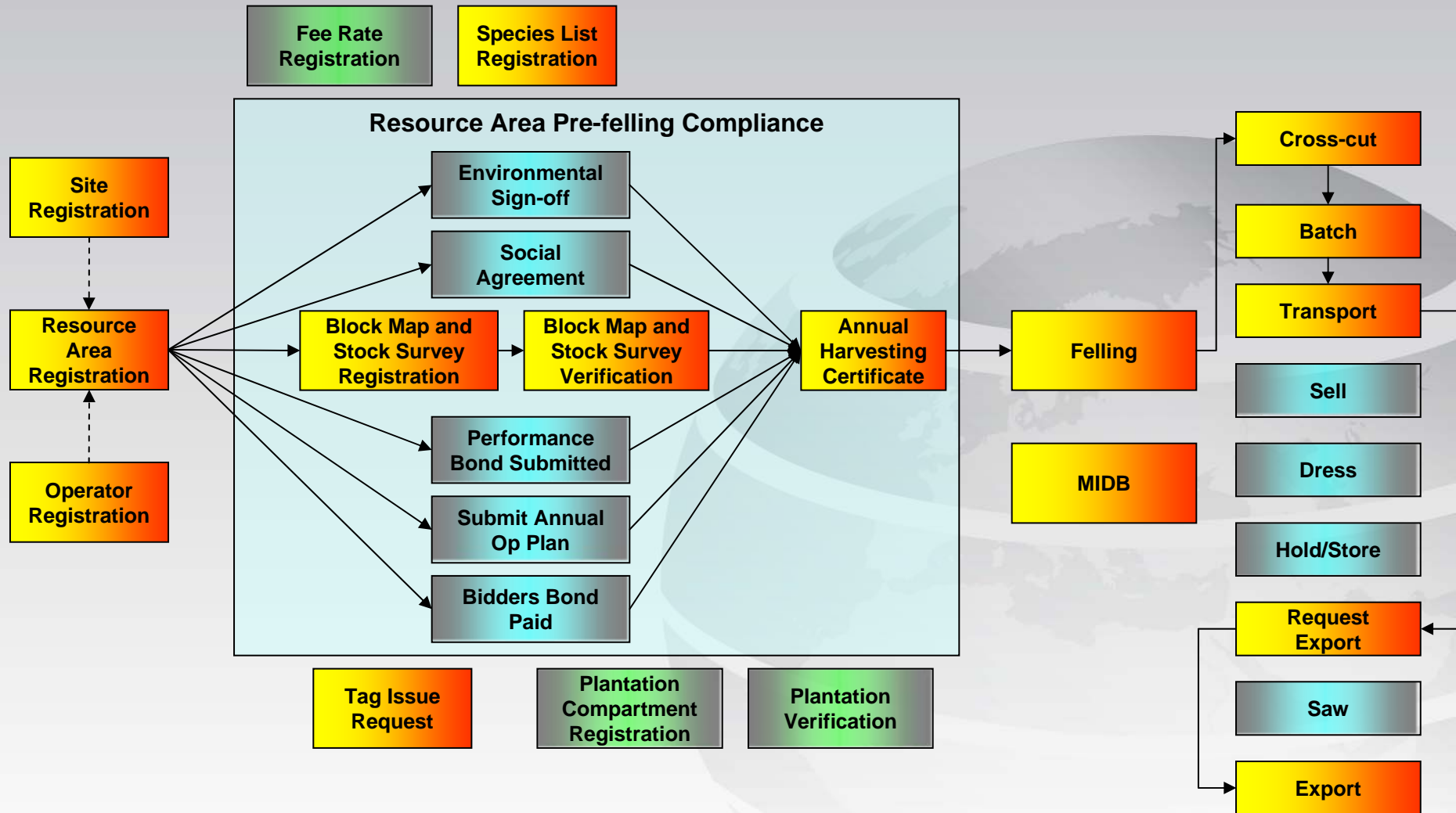
- Data reconciliations
- Data verifications
- Random samplings & inspections

Document Management

- Concession registrations
- Invoicing & regulatory document
- Management tag control



Liberia Case Study – Liberfor Workflow



Liberia Case Study – Liberfor Online Interface

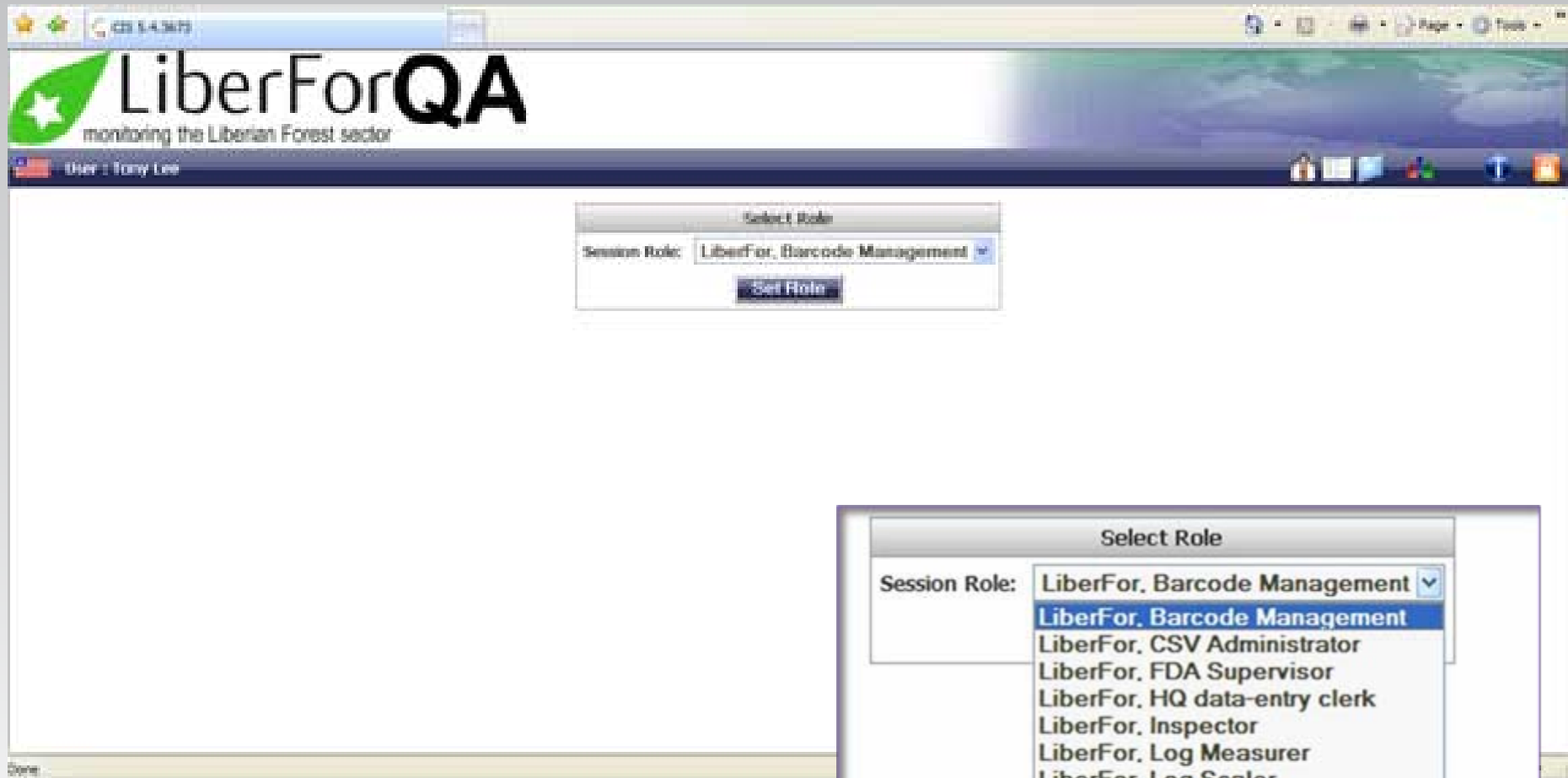
The screenshot displays the LiberForQA web application interface. The top banner features the LiberForQA logo with the tagline "monitoring the Liberian Forest sector" and a "powered by helveta" logo. Below the banner, a user bar indicates the user is "Tony Lee" with the role "Liberfor, HQ data-entry clerk".

On the left, an "Asset Browser" sidebar lists various modules: Master Issue List (0/0), Liberfor, Liberfor (CoC), Liberfor Registries, Species List, List of Fees and Rates, s, sL, UTreeDataVerification, c, Administration, and Blocks. The "Blocks" section is expanded, showing sub-items: Block Map/Stock, Resource Area Site, List Social Agreements, List Bidders Bonds, and List Forest Managers.

The main content area is titled "Chain of Custody for Liberfor (CoC)". It contains a flowchart diagram illustrating the process from "Sites" and "Operators" through "Resource areas", "Block maps", "Inspections", "Harvest certificates", "Tree felling", "Log registration", "Transport", "Request Export", and finally "Export". The "Inspections" node is highlighted with a green circle. A "Show Labels" checkbox is visible in the top left of the diagram area.

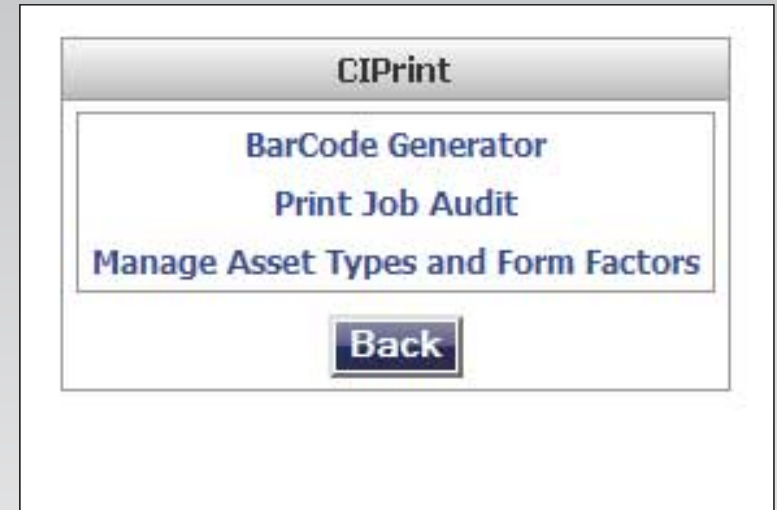
The bottom status bar shows "Done" on the left, a "Trusted sites" icon in the center, and "100%" zoom level on the right.

Liberia Case Study – Role Definition



CI World allows for multiple user roles with viewing restrictions based on user role

Liberia Case Study – Barcode Management



CI Print can also:

- Generate Barcodes for printing
- For security purposes barcodes can be date sensitive
- Catalogue barcode batches
- Allow for creation of tag templates to suit different types of tag

Liberia Case Study – Barcode Management

BarCode Generator

Form Factor **Standing Tree/Latschbacher short prong** ▼

Number of Tags **1000**

Generate **Back**

Branding Images

LiberFor (0 Images)

Asset Icons

Type of Tags

```
% Tag Type: Standing Tree/Latschbacher short prong
% Total barcodes: 1000
% Print Job: 54
% Requested by: Tony Lee
% Role: LiberFor, Barcode Management
% Requested from IP: 86.135.109.205
% Generated at: 30/10/2008 15:46:59 Europe/London, (GMT+00:00)
RYXM452L-6J6X
8N8A4YP9-5R85
9F9N4NFR-416E
ALE349KM-FJXP
6CPJ567J-163Y
2X5K53M8-WWCP
C92C5WL0-6WF2
76CP51E5-67N6
X3785J8E-3105
1XRY52WN-RNXX
F9K6L03C-L813
J6H1LK56-2835
L3F0LEAH-H5AK
```

Range of Tags

Liberia Case Study – Barcode Audit

```
% Tag Type: Standing Tree/Latschbacher short prong
% Total barcodes: 1000
% Print Job: 54
% Requested by: Tony Lee
% Role: LiberFor, Barcode Management
% Requested from IP: 86.135.109.205
% Generated at: 30/10/2008 15:46:59 Europe/London, (GMT+00:00)
RYXM452L-6J6X
8N8A4YP9-5R85
9F9N4NFR-416E
ALE349KM-FJXP
6CPJ567J-163Y
2X5K53M8-WWCP
C92C5WL0-6WF2
76CP51E5-67N6
X3785J8E-3105
1XRY52WN-RNXX
F9K6L03C-L813
J6H1LK56-2835
L3FOLEAH-H5AK
```

Print Job Number

Number of Tags

Form Factor	TotalTags	Action
/Latschbacher short prong	1000	Download
/Latschbacher short prong	1000	Download
/Latschbacher short prong	1000	Download
/Latschbacher short prong	1000	Download
/Latschbacher short prong	1000	Download
/Latschbacher short prong	1000	Download
/Latschbacher short prong	1000	Download
/Latschbacher short prong	1000	Download
30/05/2008 10:42:16 sbates Barcode Management LiberFor Standing Tree/Latschbacher short prong	1000	Download
30/05/2008 10:42:37 sbates Barcode Management LiberFor Standing Tree/Latschbacher short prong	1000	Download
30/05/2008 10:45:12 sbates Barcode Management LiberFor Standing Tree/Latschbacher short prong	1000	Download
30/05/2008 10:45:33 sbates Barcode Management LiberFor Standing Tree/Latschbacher short prong	1000	Download
30/05/2008 10:45:59 sbates Barcode Management LiberFor Standing Tree/Latschbacher short prong	1000	Download
29/10/2008 14:13:33 sbates Barcode Management LiberFor Waybill/Five Part Sticker	40	Download
29/10/2008 14:13:51 sbates Barcode Management LiberFor Waybill/Five Part Sticker	40	Download
30/10/2008 15:46:59 tlee Barcode Management LiberFor Standing Tree/Latschbacher short prong	1000	Download

[Back](#)

Liberia Case Study – Species List

SGS



Species List

FDA Regulation Number : 107-07

Effective Date : 06/01/2008

Date entered into CoCSIS : 06/01/2008

Entered By :

sbates

Date Checked : 06/01/2008

Checked By :

Nuno Chagas

Abbrev	Botanical Name	Local/Trade Names Liberia	Fee Class	
			Stumpage	Forest Product
AFZ	Afzelia spp (bella africana)	Doussie (Afzelia Apa)	A	A
ALS	Alstonia boonei	Emien	C	C
AMP	Amphimas pterocarpoides	Lati (Bokango)	C	C
ANH	Anthonotha fragrans	Anthonotha (Kibokoko)	C	C
ANI	Anigeria robusta	Aningre (Annegre)	A	A
ANO	Anopyxis klaineana	Kokoti	B	B
ANT	Antiaris africana	Ako	B	B

Liberia Case Study – Fee Rate Registration

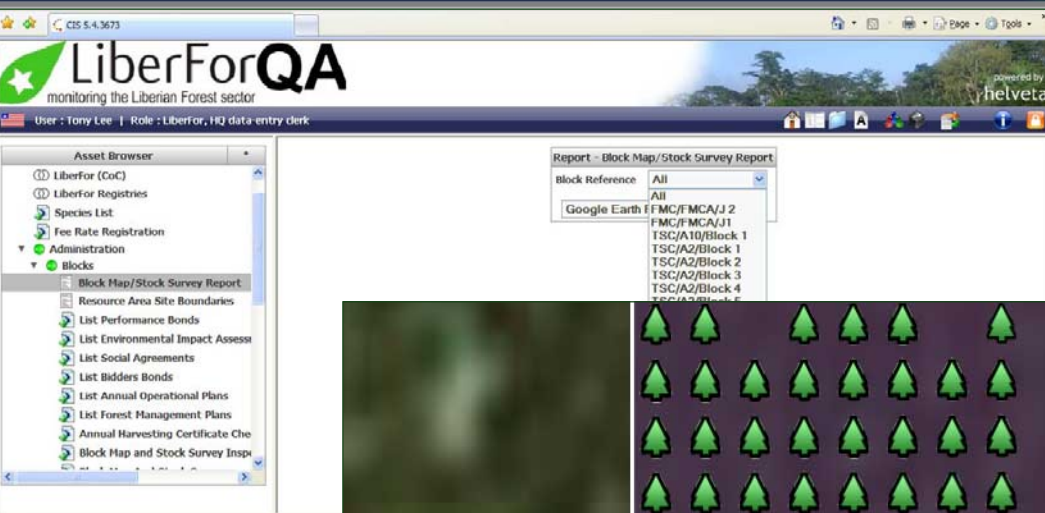
SGS



Fee Rate Registration

A. FROM Regulation	107-07				Valid From			09/26/2008	
1. Stumpage Fees	Class A Species	Class B Species	Class C Species	Class D Species	Class E Species	Class F Species	Class G Species	Class H Species	Class I Species
Percentage of FOB Value	10.00%	5.00%	2.50%	%	%	%	%	%	%
Private Plantation	5.00%	2.50%	1.25%	%	%	%	%	%	%
State Plantation	%	%	%	%	%	%	%	%	%
Community	%	%	%	%	%	%	%	%	%
Terms	30								
2. Contract Admin Fees	US \$ 1,000.00 per year								
3. Areas Fees	FMC's US \$ 2.50 per ha per year TSC's US \$ 1.25 per ha per year								
4. Annual Coupe Inspection Fee	US \$ 50.00 per 100 ha block maps submitted								
5. Way Bill Fees	US \$ 150.00 per 10 waybills								
6. Timber Export Licence	US \$ 150.00 per export shipment								
7. Export Fees	Class A	Class B	Class C	Class D	Class E	Class F	Class G	Class H	Class I

Liberia Case Study – Block Map & Stock Survey



Liberia Case Study – Block Map & Stock Survey



Block Map/Stock Survey Report

Site Type and Reference

TSC/A2/J2

Owner TIN

407034007

Company

Tarpeh Timber Co.

UTM Coordinates		Easting	Northing
	Origin (0 meter, 0 meter)	372279	692563
	Anti-clockwise from origin	373290	692563
	Anti-clockwise from previous	373290	691917
	Anti-clockwise from previous	372279	692180
	Compass Bearing of Baseline	98.00	

Survey Line Number	Distance Line Number	Tree ID	Species	Diameter
1	1	C6N91EHX-1P0C	PAR	0.40
1	1	731W1LX3-CP0H	PAR	0.50

Liberia Case Study – Inspection Reports

Block Map/Stock Survey Inspection Schedule

Block Reference TSC/A2/J2

Owner TIN 407034007

Company Tarpeh Timber Co.

	Northing	Easting
Origin	692,563	372,279
Top Left	692,563	373,290
Top Right	691,917	373,290
Bottom Right	692,180	372,279
Baseline	98 Degrees	

Cell Reference	
Survey Line	Distance Line
8	18
9	15
10	2
12	19
13	4
13	19

Liberia Case Study – Stock Survey Verification

Block Map and Stock Survey Verification

Concession and Block: TSC/A2/J2

Owner TIN: 407034007

Company: Tarpeh Timber Co.

Check on Locations	Pass/ Fail	Qty wrong	Qty checked	% correct	Variance
The starting point of the Base Line is within +/- 5.00m of the starting point given on the block	-				Baseline not verified
The starting point of each and every Survey Line is within +/- 10.00m of the starting point given	-	0	0	0	No survey lines verified
The centre point of each and every Cell is within +/- 10.00m of the cell centre point given on the block map	-	0	0	0	No Cell Centre Points verified
Check on Trees and Barcodes	Pass/ Fail	Qty wrong	Qty checked	% correct	Variance
100% of Tree Barcodes are correct	-	0	0	0	
90% or more of Trees are in the correct cell	-	0	0	0	-
90% or more of Trees above 40cm dbh are tagged and included in Stock Survey	-	0	0	0	No Barcodes
90% or more of Trees have Species correctly identified	-	0	0	0	No Barcodes
90% or more of Trees are in the correct 10 cm Diameter class	No	0	0	0	No Barcodes
No Barcode duplicates on Stock Survey	No	6			No Barcodes
No Barcode duplicates on Stock Survey Verification	No	0			No Barcodes

Liberia Case Study – Stock Survey Error Check

Block Map and Stock Survey Error Check

Block Reference: TSC/A2/J2

Owner TIN:

407034007

Company:

Tarpeh Timber Co.

Enumerator:

Sam

Date Surveyed:

10/11/2008

Supervisor:

Date

HQ Data Entry Clerk:

sbates

CoCIS Entry Date:

10/29/2008

Check performed	Pass/Fail	Reason
TSC/FMC reference matches TIN	Pass	
All 4 corners and the entire area of the Block Map fall within the gross area of the Concession	Pass	
All Barcodes are correct	Fail	See list below
No Barcode duplicates on Stock Survey	Fail	See list below

TREE BARCODES IN ERROR

Barcode	Cell	Barcode Allocation		Barcode Type	Barcode Expired
		TIN	Concession		
04JHXAXR-4RLE	2,6	Unknown	Unknown	Unknown	Unknown
05634E06-22CP	4,8	Unknown	Unknown	Unknown	Unknown
05674E0C-F8PM	10,6	Unknown	Unknown	Unknown	Unknown

Liberia Case Study – Annual Harvesting Certificate

Annual Harvesting Certificate Check

Resource Area

Owner TIN

Contract Signing Date

Company

	Pass/Fail		Pass/Fail
EIA approval by EPA		Signed Social Agreement	
AOP approval by FDA		FMP approved by FDA	
Performance Bond Lodged		Bidders Bond Paid	
Contract Admin Fee Paid		Annual Area Fee Paid	
Land Rental Bid Fee Paid		Annual Coupe Inspection Fee Paid	
Stumpage From Previous Year Paid		Export Fees From Previous Year Paid	
Chain of Custody Fee From Previous Year Paid			

Reason For Failure

CoCIS Accountant

Date Checked

Signature

Date Checked

Ivory Coast Case Study

Pilot project background:

- ITTO funded
- Implemented by SGS
- Utilizing Helveta technology
- Operated by « Ministère de l'Environnement, Eaux et Forêts » (MINEEF)



Pilot project objectives:

- Testing a specific traceability technology
- Allow for tracing of forest products at every stage of the supply chain
- Clear & secure identification of logs & sawn timber during processing operations
- Provision of 'back-to-stump' traceability for logs and sawn timber
- Collection and analysis of data on production of logs and sawn timber



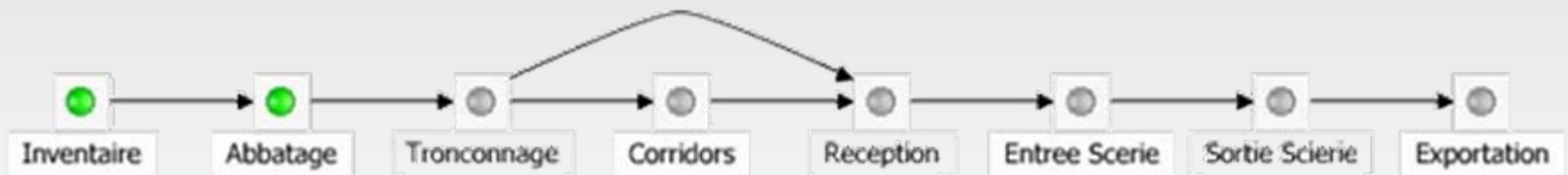
Ivory Coast Case Study

Pilot project scope:

- 3 operators
- 3 separate supply chains
- 8 control points
- 3 rules
 - species comparison
 - diameter comparison
 - barcode comparison
- 12 reports

Control Points

- Inventaire (Inventory)
- Abbatage (Felling)
- Tronçonnage (Log Pond)
- Corridors (Checkpoint)
- Reception (Reception)
- Entrée Scierie (Sawmill Entry)
- Sortie Scierie (Sawmill Exit)
- Exportation (Export)



CI World case study - Côte d'Ivoire



helveta

Logs per Batch

Date: 11/01/2008


Company : Pilot 1

Batch : contract

Log Barcode	Species	Date	Volume sq meters	Length	Max Diameter Top/Bottom	Min Diameter Top/Bottom
H3EJCP80-N 050	Fromager	06/11/2008	4.07	8.10	0.80 0.91	0.80
82N7H7E3-K48L	Fromager	06/11/2008	7.11	5.40	1.29 1.13	1.30
79628XJC-8 0FF	Fromager	06/11/2008	6.87	10.80	0.90 1.06	0.90
8N3YPY99-6H6J	Fromager	06/11/2008	13.38	8.10	1.40 1.24	1.50
C6N0XEXX-HJ9A	Fromager	06/11/2008	10.18	8.10	1.23 1.30	1.30
6YN0J6MJ-CJEP	Fromager	06/11/2008	6.27	10.80	0.89 1.16	0.83
4KEK67XE-RM89	Fromager	06/11/2008	4.41	5.40	1.02 1.11	1.02
24641Y54-M2L2	Fromager	06/11/2008	7.77	8.10	1.15 1.20	1.06

CI World case study - Côte d'Ivoire

★ CIS 5.4.3629

 powered by helveta

🇬🇧 User : Tony Lee | Role : Ivory Coast SGS/MINEEF, Manager

Asset Browser

- Master Issue List (0/0)
- ▼ ● Cote d'Ivoire
 - ▼ ● Helveta
 - Ⓜ Cote d'Ivoire Pilot
 - ▼ ● Pilot 1
 - Ⓜ Pilot 1 CoC
 - 📄 Logs At Felling
 - 📄 Logs at Logpond
 - 📄 Logs Per Batch
 - ▼ ● Pilot 2
 - Ⓜ Pilot 2 CoC
 - ▼ ● Pilot 3
 - Ⓜ Pilot 3 CoC

Inventory → Felling → Log Pond → Checkpoint → Reception → SawMill Entry → SawMill Exit → Export

Report - Logs Per Batch

Company: All
Batch Number: All
Default (HTML) View

Done Internet 100%

CI World case study - Côte d'Ivoire

helveta powered by helveta

User : Tony Lee | Role : Ivory Coast SGS/MINEEF, Manager

Asset Browser

- Master Issue List (0/0)
- ▼ Cote d'Ivoire
 - ▼ Helveta
 - Cote d'Ivoire Pilot
 - ▼ Pilot 1
 - Pilot 1 CoC
 - Logs At Felling
 - Logs at Logpond
 - Logs Per Batch
 - ▼ Pilot 2
 - Pilot 2 CoC
 - ▼ Pilot 3
 - Pilot 3 CoC

Inventory → Felling → Log Pond → Checkpoint → Reception → SawMill Entry → SawMill Exit → Export

Report - Bundle to Tree Report

Bundle Number: All

Google Earth (KML) View

Export

- List Documents
- Bundle to Tree f
- List Invoices

Done Internet 100%

CI World case study - Côte d'Ivoire

Bundle to Tree Report

Batch Number	Tree Barcode	Concession	Block	Species	Longitude	Latitude	Log Barcode	Bundle Number
5998 NSA DLH pilot	15008	15008	15008	Framiré	-3.7127867	6.249045	05L6PE2C-85FH	0HX8F49P-332K
5998 NSA DLH pilot	7LJWJ185-P6EE	15008	15008	Framiré	-3.711895	6.249395	2N15J368-730K	0HX8F49P-332K
5998 NSA DLH pilot	1X4FA23N-FFA6	15008	15008	Framiré	-3.7130733	6.2490616	382K7387-5873	0HX8F49P-332K
5998 NSA DLH pilot	KMHJ9K7W-KEXN	15008	15008	Framiré	-3.7133868	6.24754	4KE867XE-03X9	0HX8F49P-332K
5998 NSA DLH pilot	15008	15008	15008	Framiré	-3.7127867	6.249045	9F0LPNKR-0W51	0HX8F49P-332K
5998 NSA DLH pilot	7LJWJ185-P6EE	15008	15008	Framiré	-3.711895	6.249395	A5RHJ97M-75M0	0HX8F49P-332K
5998 NSA DLH pilot	HRP2EPHO-M06N	15008	15008	Framiré	-3.721745	6.2502465	C2Y65MM1-XW42	0HX8F49P-332K
5998 NSA DLH pilot	AR2821YH-CYX8	15008	15008	Framiré	-3.71292	6.2476583	CFF9JWE0-79Y9	0HX8F49P-332K
5998 NSA DLH pilot	N1X058E2-X6Y1	15008	15008	Framiré	-3.72263	6.25923	EH5JEMX5-5NCX	0HX8F49P-332K
5998 NSA DLH pilot	J6Y2AKA6-6FFM	15008	15008	Framiré	-3.7179	6.255405	F93RA0LC-XPA6	0HX8F49P-332K
5998 NSA DLH pilot	HRP2EPHO-M06N	15008	15008	Framiré	-3.721745	6.2502465	K6JCM11C-A38P	0HX8F49P-332K
5998 NSA DLH pilot	WWW15WLW-FL22	15008	15008	Framiré	-3.7131467	6.246935	L1484HK3-WE70	0HX8F49P-332K
5998 NSA DLH pilot	3EJYP80N-HAJM	15008	15008	Framiré	-3.7126718	6.249212	MXNXA5RW-4WCM	0HX8F49P-332K
5998 NSA DLH pilot	Y98MECC2-LE51	15008	15008	Framiré	-3.7170317	6.2566433	N3ANE9J8-LMJ5	0HX8F49P-332K
5998 NSA DLH pilot	57LJ7LE1-A102	15008	15008	Framiré	-3.7224934	6.2516465	P2J37FLP-22HW	0HX8F49P-332K
5998 NSA DLH pilot	K7R80P5K-KPNE	15008	15008	Framiré	-3.7217484	6.2500434	R40POHCA-57JE	0HX8F49P-332K
5998 NSA DLH pilot	2JMY5P7P-F65C	15008	15008	Framiré	-3.7165017	6.248525	RPK3F0NH-2HH0	0HX8F49P-332K
contract	RPKCF0NH-8PW0	32400		Fromager	-4.251125	6.434427	0HXKF49P-04RY	37339HWL-Y1N7
contract	RPKCF0NH-8PW0	32400		Fromager	-4.251068	6.434523	0HXKF49P-04RY	37339HWL-Y1N7
contract	C04F1NJE-MCMF	32400		Fromager	-4.2379684	6.4198885	24641Y54-M2L2	37339HWL-Y1N7
contract	780LHP39-JH8L	32400		Fromager	-4.2527385	6.442468	37309HWL-MYRL	37339HWL-Y1N7
contract	KMHP9K7W-RJ02	32400		Fromager	-4.2507668	6.4456415	42219R8Y-NF4M	37339HWL-Y1N7
contract	33RX20HA-A877	32400		Fromager	-4.2396016	6.4317966	4P0E24J2-WAP5	37339HWL-Y1N7
contract	38113268-H2BK	32400		Fromager	-4.2328557	6.430705	6W016M1-C1ED	37339HWL-Y1N7

Ivory Coast Case Study

During the pilot CI World:

- Identified and mapped standing trees in the forest
- Recorded details relating to the felling of those trees
- Tracked the trees through the supply chain, identifying & recording
- Their transformations into logs and batches of sawn timber
- Reconciled data between control points and identified errors
- Reconciled batches of sawn timber with original standing trees
- Reconciled goods for export with original standing tree
- Locations/stumps
- “Logs in the Pilot” report



Cameroon Case Study – EU / FLEGT Initiative

Pilot project background:

- British Government funded project
- Community monitoring of forest usage
- Basis for supporting VPA process
- Conflict avoidance mechanism
- Forest products traceability
- Access to markets
- Commenced December 2007
- Partners:

British FCO

Cameroon Ministry of Forestry

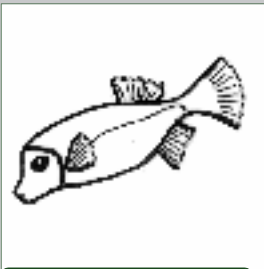
CED



Cameroon Case Study – Icon Based System



Hunting



Fishing



Gathering



Agricultural



Cultural &
Religious



Ground
Dwelling



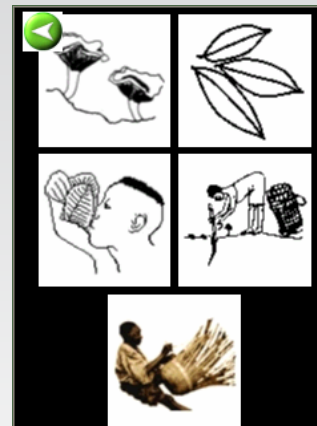
Tree
Dwelling



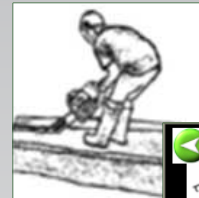
Drinking
Water



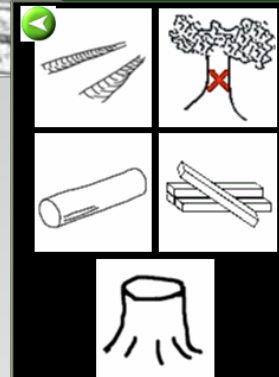
River
Heads



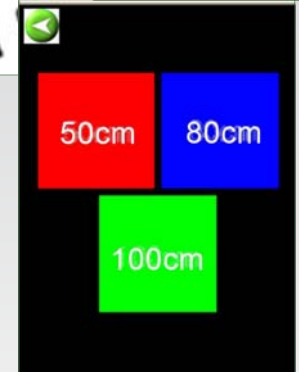
Cameroon Case Study – Community Monitoring



Logging



Stumps



Logs



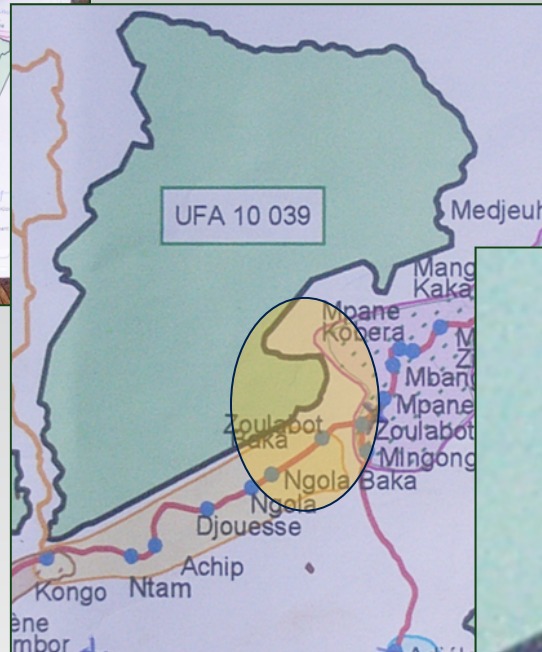
Cameroon Case Study – CI World Benefits

- 100% traceability, 100% online verification
- Compliance with EU FLEGT, US Lacey Act & Free Trade requirements
- Access to premium markets
- Access to governmental procurement channels
- Improved recovery, improved conversion
- Rapid deployment, rapid returns
- Next steps

Cameroon Case Study



Cameroon Case Study – Conflict Resolution

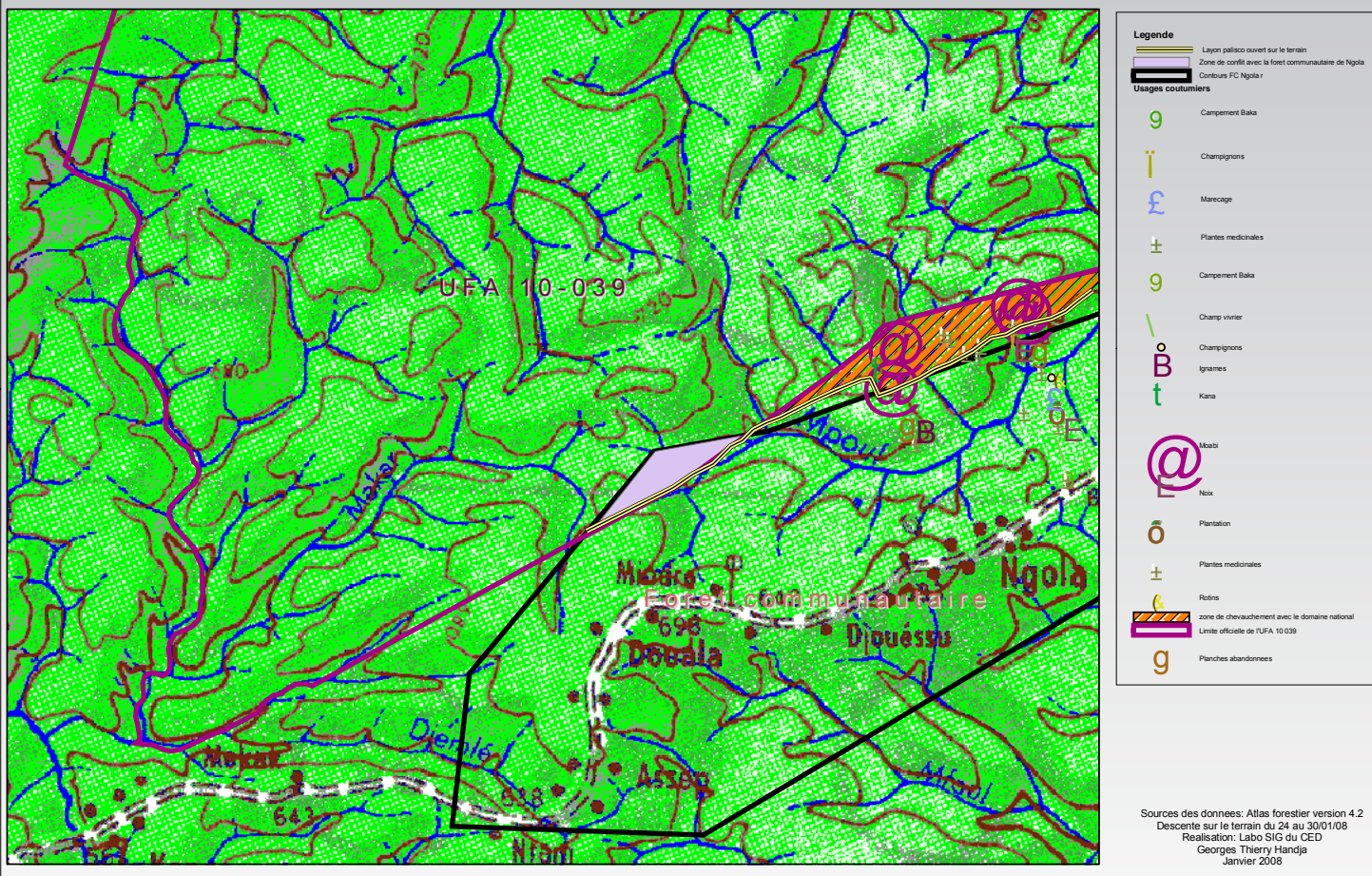


Cameroon Case Study – Conflict Resolution



Cameroon Case Study

CHEVAUCHEMENT DE L'UFA 10 039 AVEC LA FORET COMMUNAUTAIRE DE NGOLA ET LE DOMAINE NATIONAL





Thank You !

Patrick Newton

Chief Executive Officer

patrick.newton@helveta.com

Tel: +44 1235 838 559

www.helveta.com

Michel Trudelle

Business Development Director

michel.trudelle@helveta.com

Tel: +852 9616 5081

