

Ministry of Forests

Understanding Key Applications:
An overview of
application inter-connections

Corporate IT Training Strategy Group
*Sponsored by the
Information Management Group*

Summer 2004 (*updated Feb 2005*)



Understanding Key Applications

Introduction & Objectives

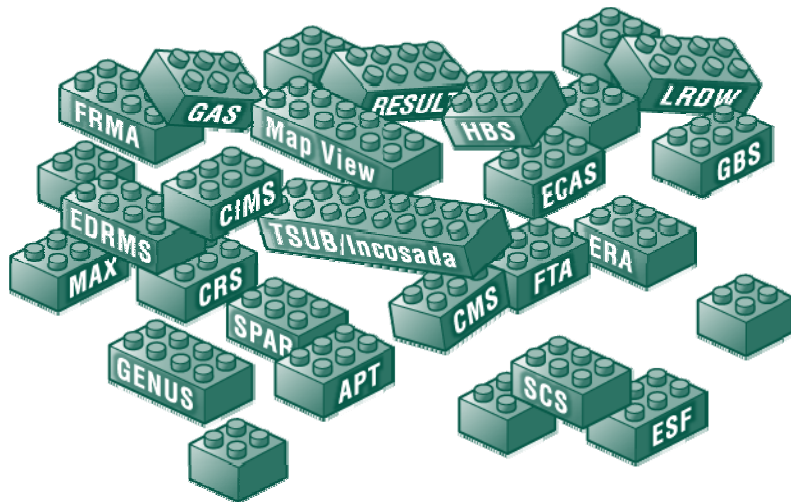


- ❁ Provide a high-level understanding of the 20 “key” MOF applications
- ❁ For each application:
 - ➔ Basic business process
 - ➔ Linkages
 - ➔ data flows in & out
 - ➔ Target user groups
 - ➔ Critical data elements
 - ➔ Key data dependencies between applications

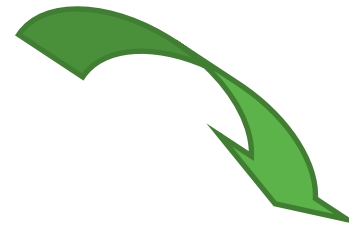
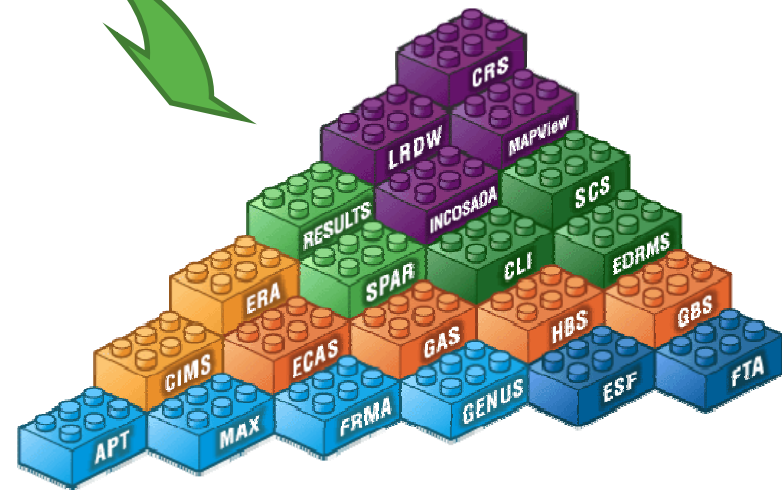
Note: **application = computer system (e.g. FTA, RESULTS, SPAR, etc.)**

Understanding Key Applications

Understanding the Applications



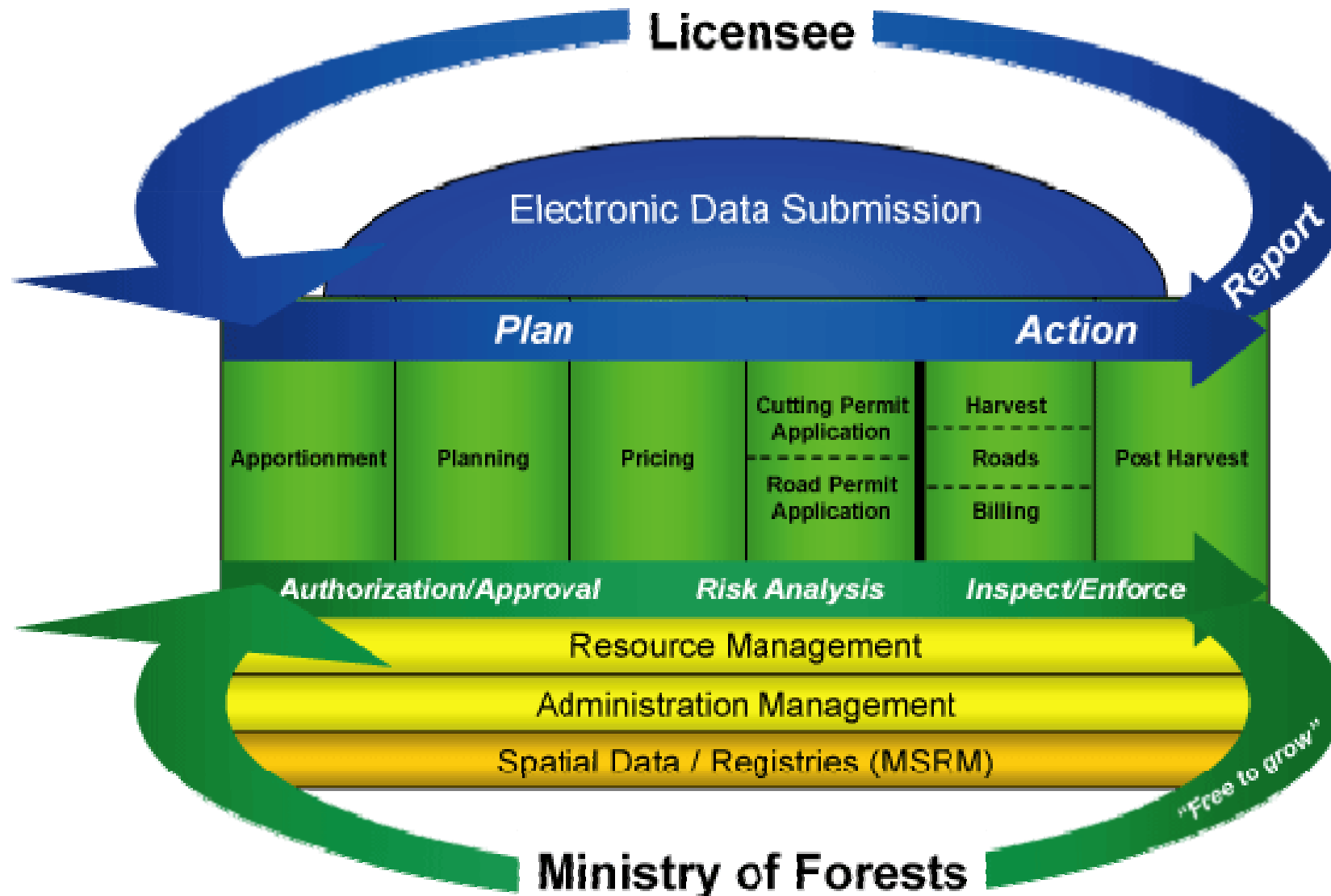
Confused about how the applications fit together?



This presentation will help you understand how these key applications are the building blocks for the Ministry of Forests business!

Understanding Key Applications

Understanding the Business Flow



Understanding Key Applications

Understanding the Applications

Planning Applications

APT FRMA
MAX GENUS

Resource Management Applications

ESF
FTA

Resource Monitoring Applications

CIMS
ERA

Pricing and Billing Applications

ECAS HBS
GAS GBS

Forest Regeneration Applications

RESULTS
SPAR

Administrative Applications

CLI EDRMS
SCS

Outputs from Applications

Reporting - CRS

Spatial - Incosada (TSUB),
LRDW, MAPView, etc.

Other Applications (non-key applications)

NSA	CHECKS 3	L-Track	ILRR	CRM	CAS
CONSEP	BCTS Admin	EMS		ARM	CHIPS

Understanding Key Applications

Understanding Critical Data Elements



- ❁ What are critical data elements?
 - ➔ Pieces of information that you **must** enter, update, & maintain correctly and in a timely manner
- ❁ Why are critical data elements important?
 - ➔ They affect other applications
 - ➔ Critical for improved, accurate, & reliable business decisions
 - ➔ Imperative for government to meet legal requirements
- ❁ Critical data elements are highlighted in the flow graphics

Understanding Key Applications

A Summary of Critical Data Elements



Actual Harvest Start Date & Completion Date

Appraisal Data

Area

Business Key Identifier

Case Id

Client # & Client Location

Dates

Forest Cover Land Status (Attributes & Location)

Harvest History

Invoices

Location of Planted Seedlots

Management Unit Id

Opening Location

Understanding Key Applications

A Summary of Critical Data Elements (cont.)



Organizational Unit

Reforestation Milestone Obligations

Road Length & Road Section

Seed Test Results

Seedling Requests

Seedlot & Vegetative Lot Id

Scale Site

Scale Site Inspections

Scaler

Spatial Location of Cut Block

Stocking Standards (Attributes & Location)

Timber Mark

Values, Volume, & Stumpage Rate

Understanding Key Applications

Planning Applications

- 🌲 Planning Applications include:
 - ➔ Apportionment (APT)
 - ➔ Maximizing Performance (MAX)
 - ➔ Forest Roads Management Application (FRMA)
 - ➔ GENUS

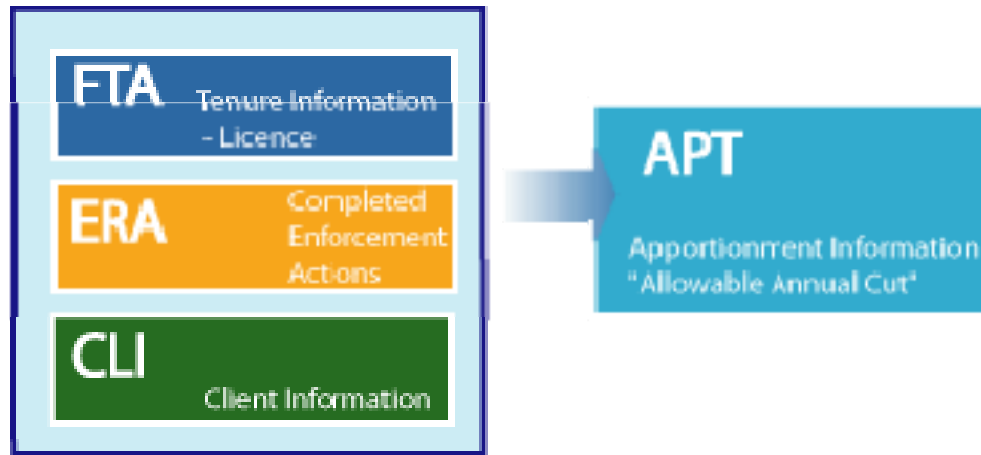
Planning Applications

APT
MAX

FRMA
GENUS

Understanding Key Applications

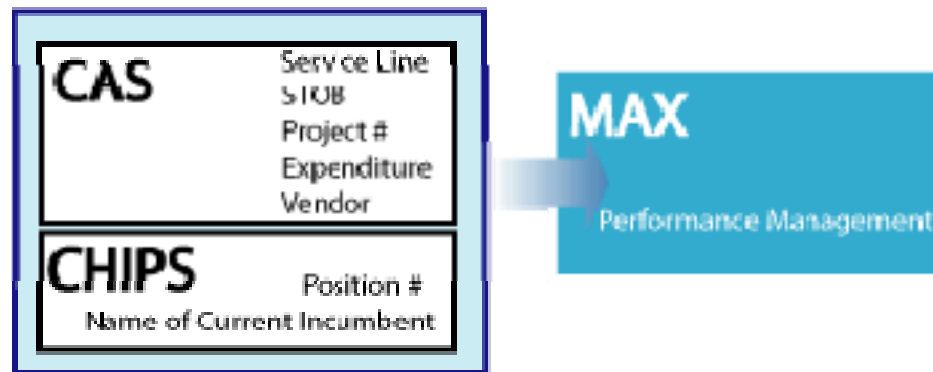
Apportionment Application (APT)



**Approximately
3 users**

Understanding Key Applications

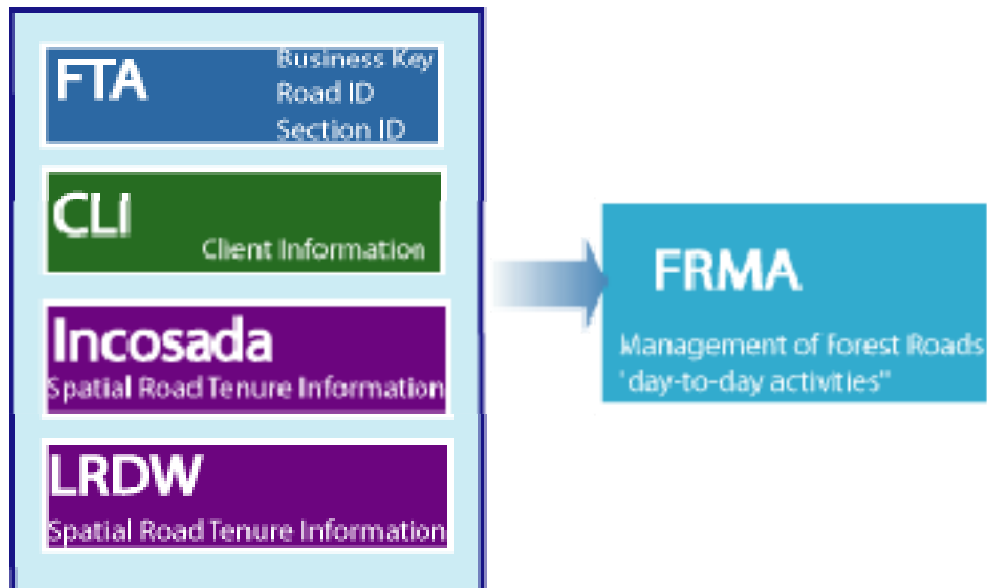
Maximizing Performance (MAX)



**Approximately
1000 users**

Understanding Key Applications

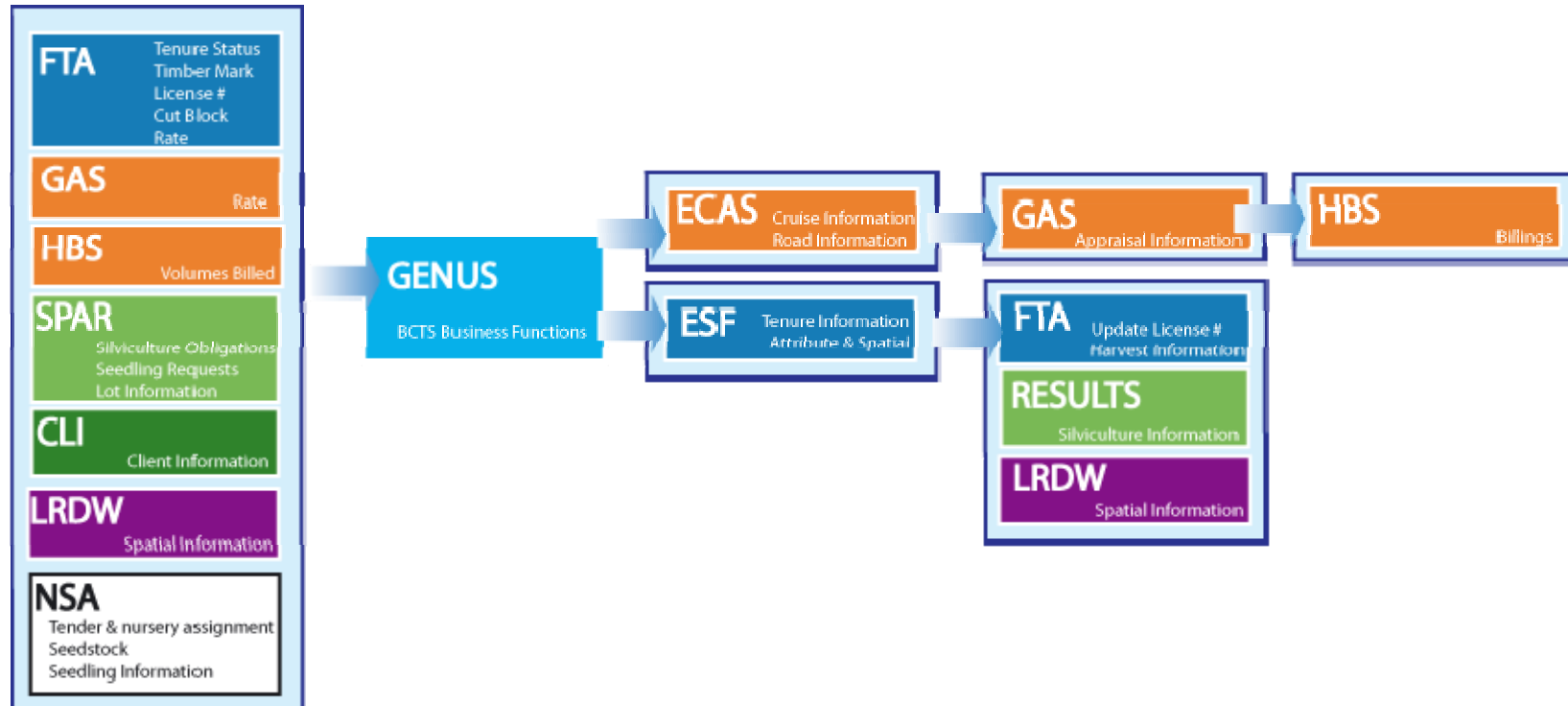
Forest Roads Management Application (FRMA)



**Approximately
200 Users**

Understanding Key Applications

GENUS



Approximately
450 Users

Understanding Key Applications

Review of Critical Data Elements

- 🌲 The Planning Applications do not establish any critical data elements
 - ➔ These applications use critical data elements established by other applications

Planning Applications

APT
MAX

FRMA
GENUS

Understanding Key Applications

Sample Data Dependencies

Planning Applications

APT
MAX

FRMA
GENUS

🌲 FRMA & FTA

- ➔ FRMA may show 2 roads for the same location if a road is deleted in FTA & information not communicated

🌲 GENUS

- ➔ If ESF submission fails data never enters FTA/RESULTS
- ➔ If ESF submission passes, but contains erroneous data, then poor data in FTA/RESULTS

Understanding Key Applications

Resource Management Applications

🌲 Resource Management Applications include:

- ➔ Electronic Submission Framework (ESF)
- ➔ Forest Tenures Administration (FTA)

Resource Management
Applications
ESF
FTA

Understanding Key Applications

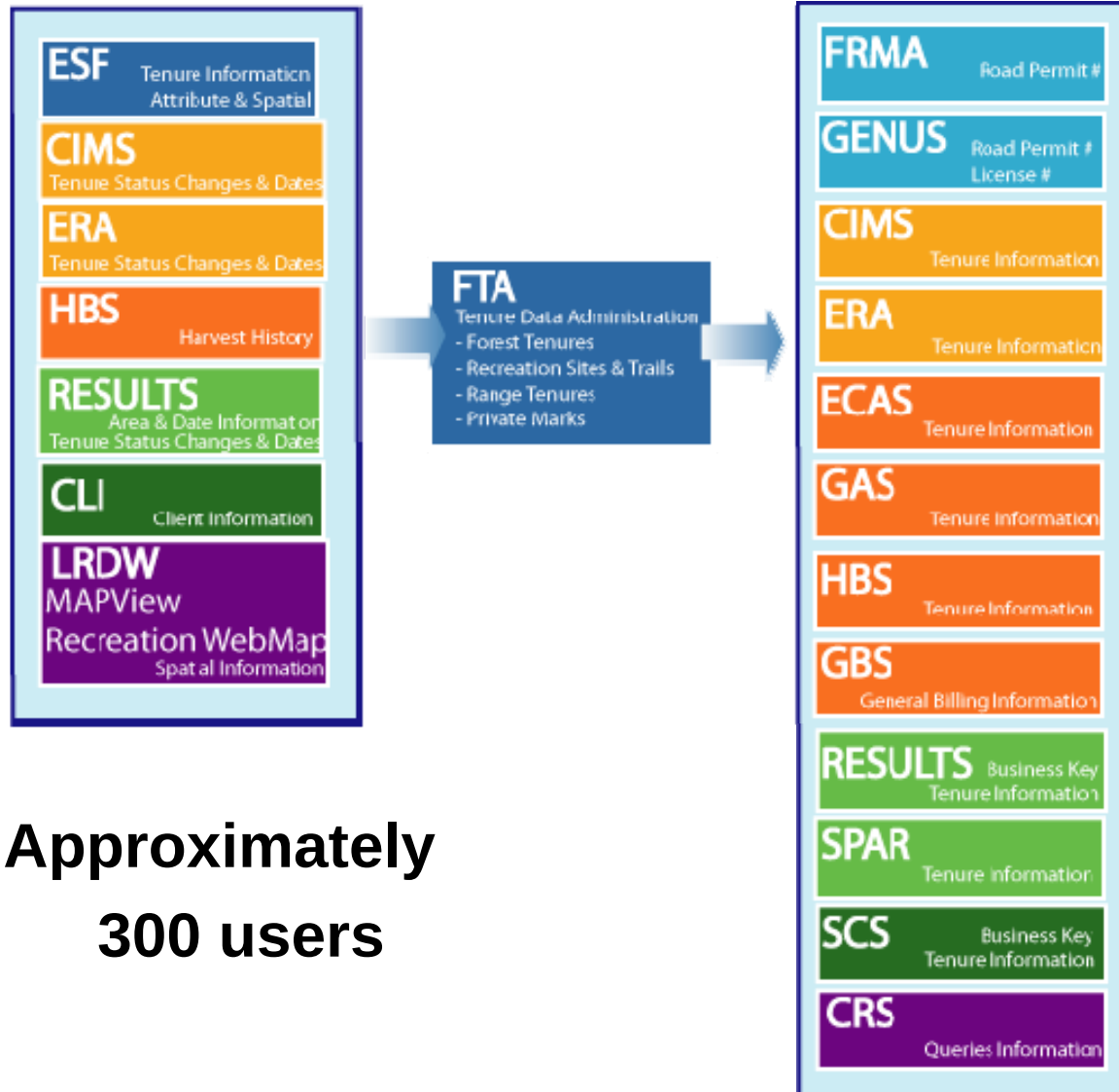
Electronic Submission Framework (ESF)



**Approximately
1000+ Users**

Understanding Key Applications

Forest Tenures Administration (FTA)



Understanding Key Applications

Review of Critical Data Elements

Resource Management
Applications
ESF
FTA

- ❁ Critical data elements established in the Resource Management Applications:
 - ➔ Timber Mark
 - ➔ Unique Business Key Identifier(s): Licence, Cutting Permit, Cut Block, Road Permit Id, etc.
 - ➔ Area
 - ➔ Road Length & Road Section
 - ➔ Organizational Unit
 - ➔ Management Unit Id
- ❁ Remember, dates of data entry are also important! These must be entered in a timely manner & are often used during calculations

Understanding Key Applications

Sample Data Dependencies



Resource Management
Applications
ESF
FTA

ESF & FTA

- FTA is dependent on the successful submission of licensee data via ESF
- FTA data is used by many other applications, and therefore, must be accurate at all times

Understanding Key Applications

Resource Monitoring Applications

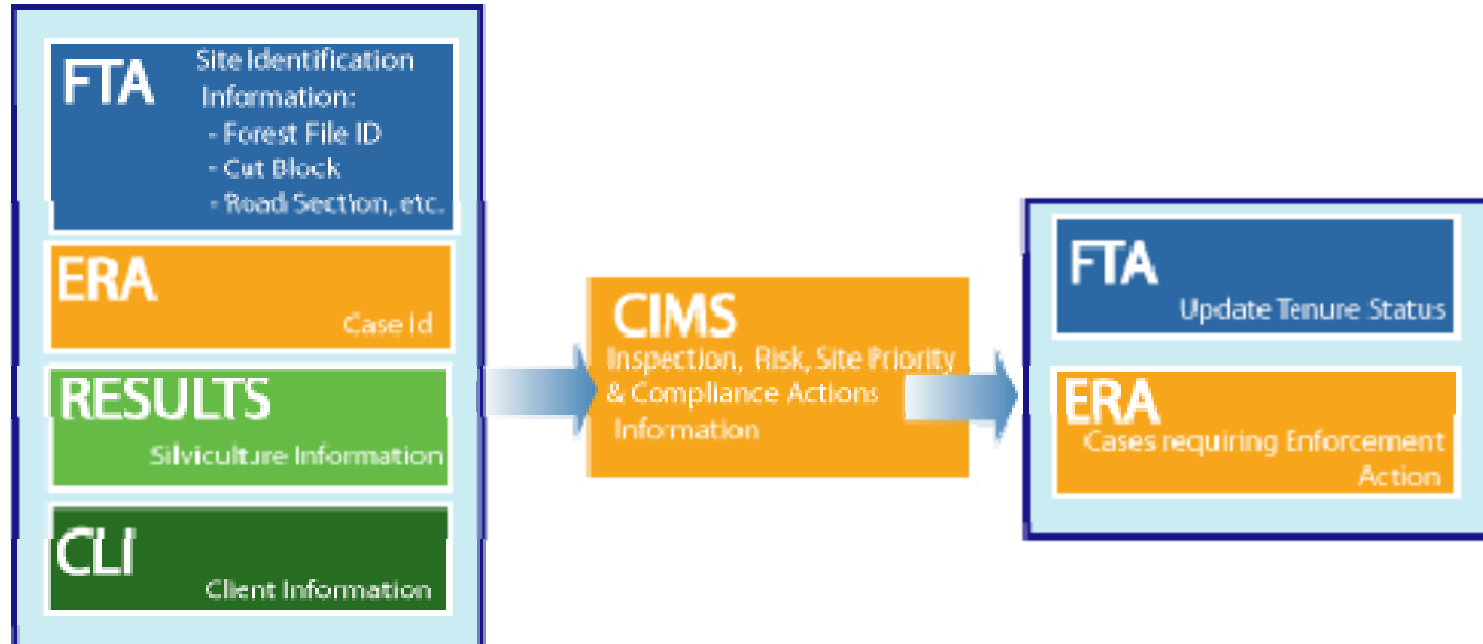
Resource Monitoring
Applications

CIMS
ERA

- ❁ Resource Monitoring Applications include:
 - ➔ Compliance Information Management System (CIMS)
 - ➔ Enforcement Action, Administrative Review and Appeal Tracking System (ERA)

Understanding Key Applications

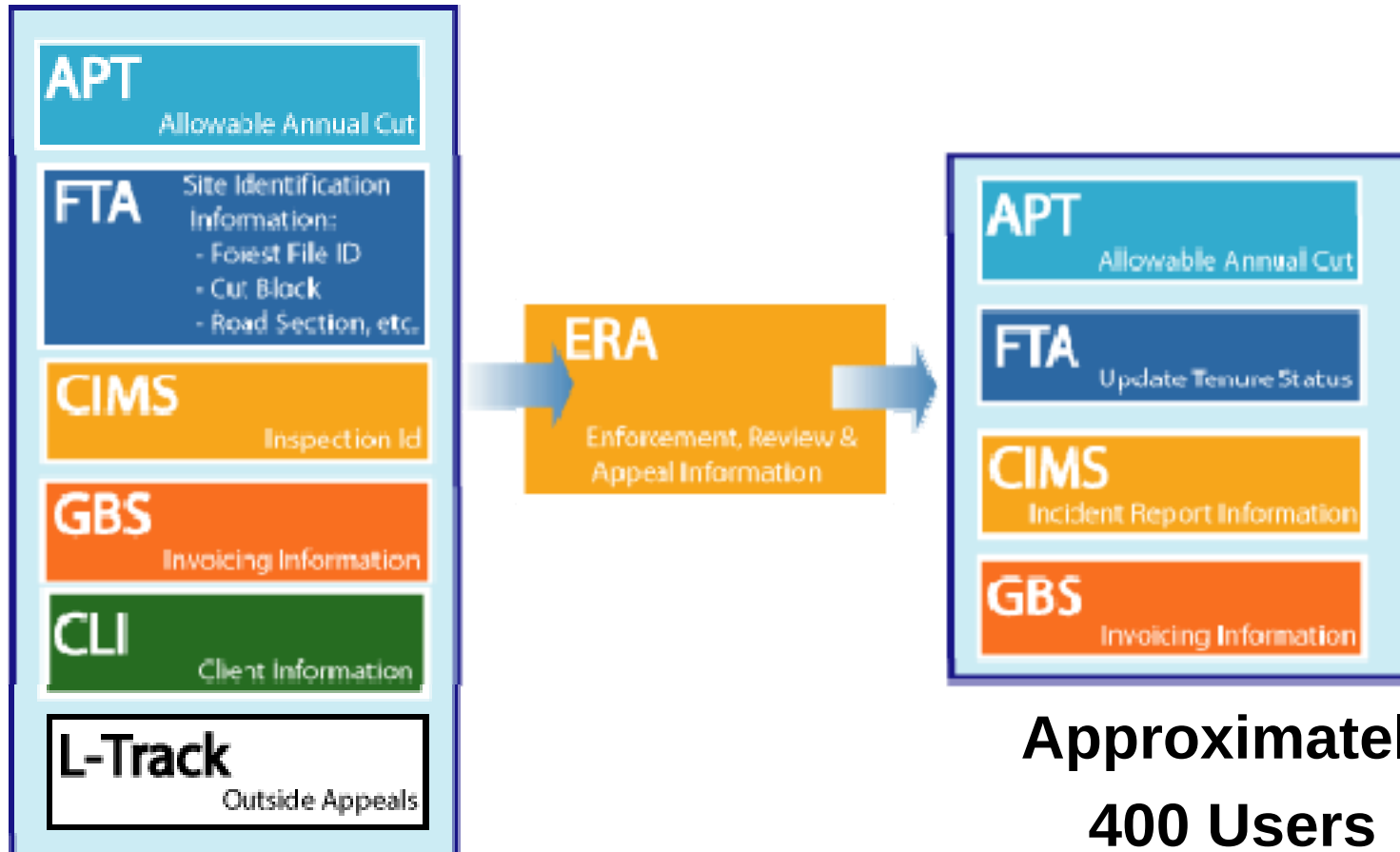
Compliance Information Management System



**Approximately
1000 Users**

Understanding Key Applications

Enforcement, Review & Appeal Information (ERA)



Understanding Key Applications

Review of Critical Data Elements



Resource Monitoring
Applications
CIMS
ERA

- ❖ Critical data elements established in the Resource Monitoring Applications:
 - ➔ **Case ID** – this links the CIMS case to ERA & visa-versa

Understanding Key Applications

Sample Data Dependencies

Resource Monitoring
Applications
CIMS
ERA

CIMS & ERA

- ➔ Incorrect Tenure or Client data can lead to:
 - ➔ the inspection being thrown out of court
 - ➔ duplicate efforts for inspectors
- ➔ Incorrect data may mean high risk sites are not inspected or penalties not invoiced

Understanding Key Applications

Pricing & Billing Applications

- ❧ Pricing & Billing Applications include:
 - ➔ Electronic Commerce Appraisal System (ECAS)
 - ➔ General Appraisal System (GAS)
 - ➔ Harvest Billing System (HBS)
 - ➔ General Billing System (GBS)

Pricing and Billing Applications

ECAS	HBS
GAS	GBS

Understanding Key Applications

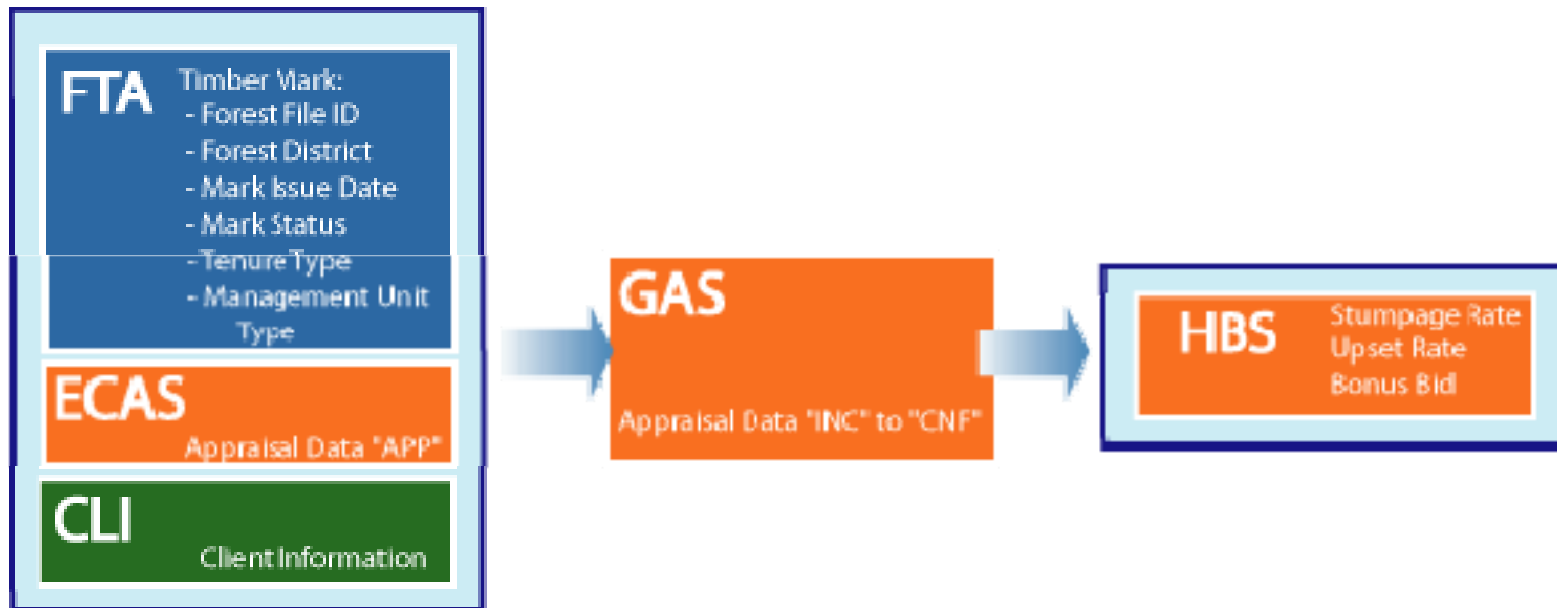
Electronic Commerce Appraisal System (ECAS)



**Approximately
3000 Users**

Understanding Key Applications

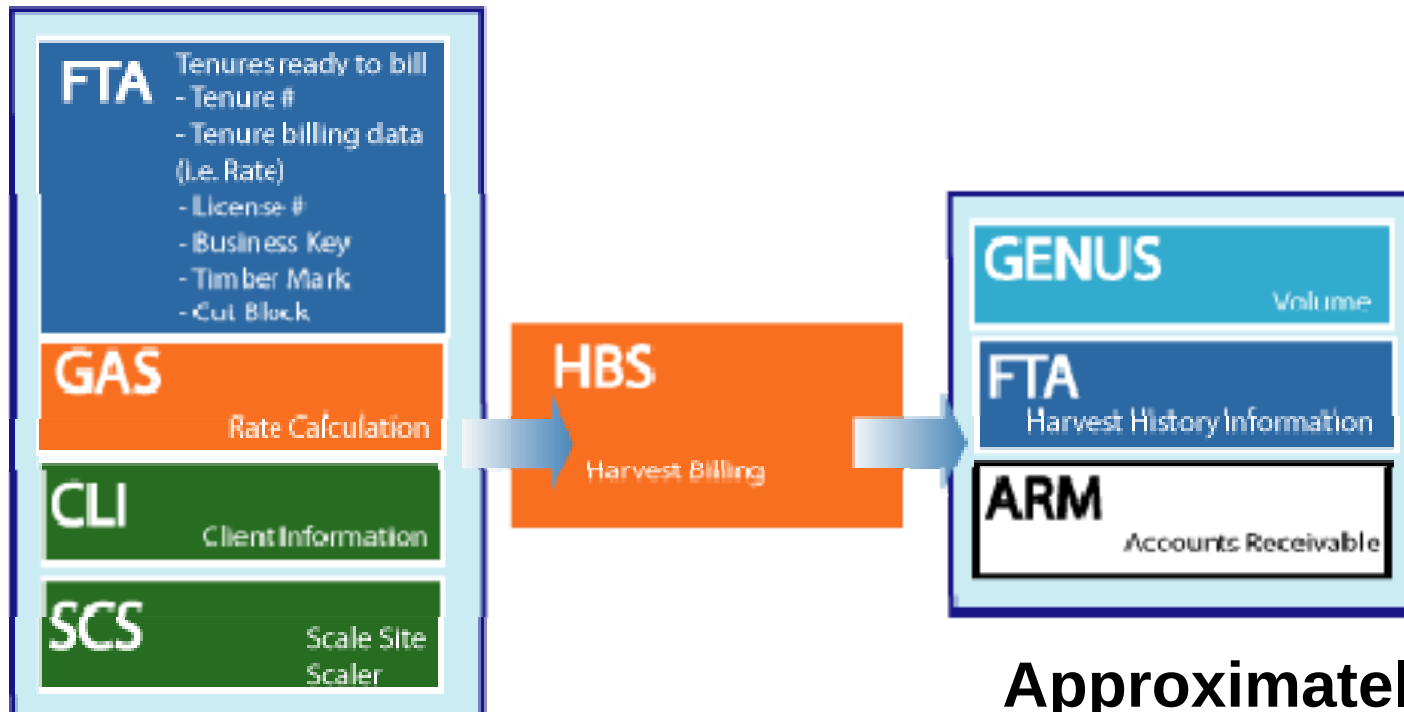
General Appraisal System (GAS)



**Approximately
20 Users
conducting
core functions**

Understanding Key Applications

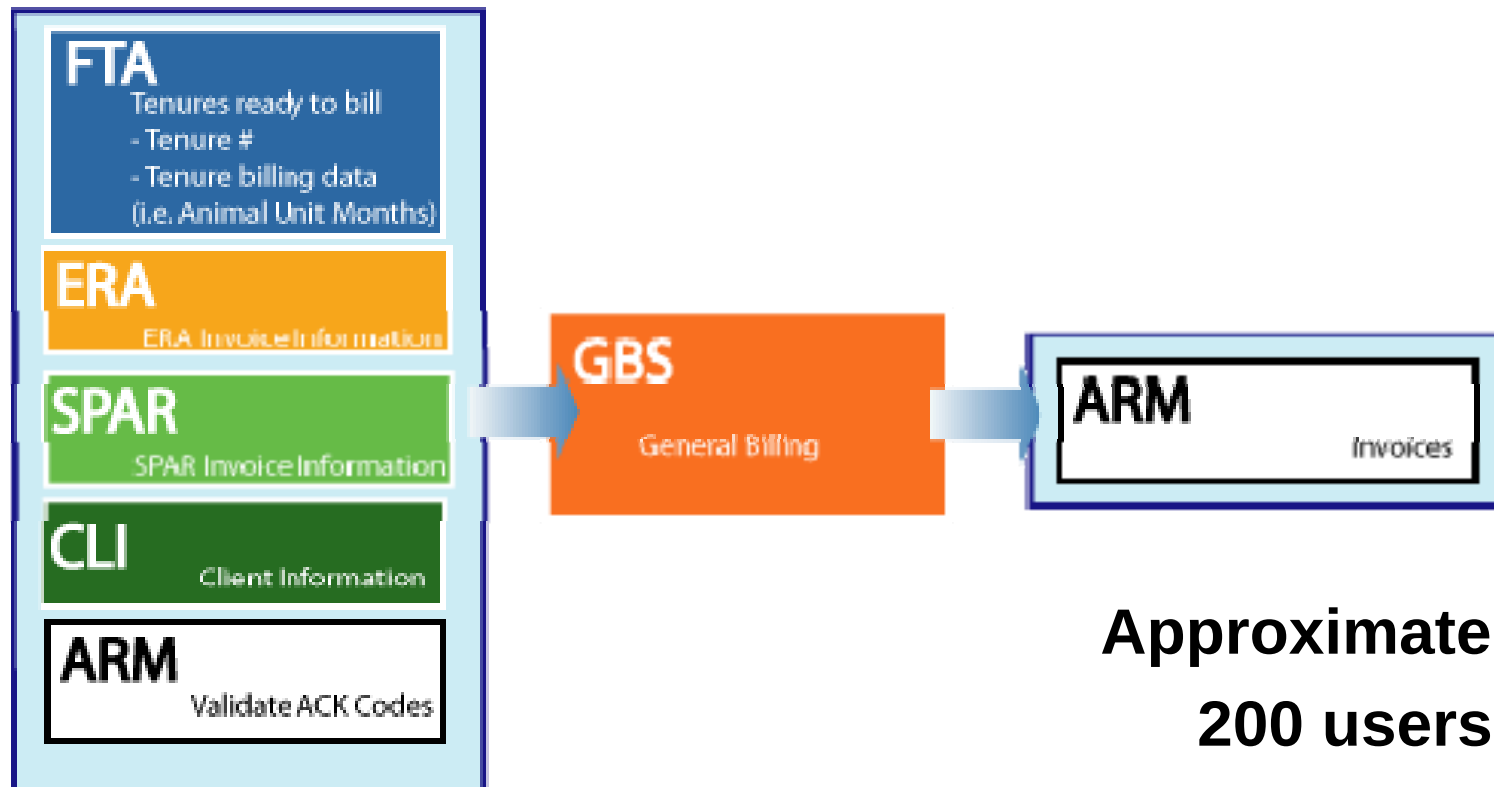
Harvest Billing System (HBS)



**Approximately
1600- 5000
users**

Understanding Key Applications

General Billing System (GBS)



Understanding Key Applications

Review of Critical Data Elements

Pricing and Billing Applications

ECAS HBS
GAS GBS

❧ The critical data elements are established in the Pricing & Billing Applications:

- ➔ Harvest Volume X Stumpage Rate = \$ billed
- ➔ Values
- ➔ Invoices
- ➔ Harvest History Information
- ➔ Appraisal Data

Understanding Key Applications

Importance of accurate & timely data

Pricing and Billing Applications

ECAS	HBS
GAS	GBS

🌲 HBS & GBS

- ➔ HBS is dependent on accurate and timely data in other systems otherwise scale is unbilled. These are:
 - ➔ CMS - for matching and correct client number
 - ➔ FTA - for valid and accurate tenure info.
 - ➔ ECAS and GAS - for the processing of appraisal data and stumpage
- ➔ Poor data in GBS & HBS impacts billing & collections

Understanding Key Applications

Sample Data Dependencies



Sample Data Dependency – CMS, ECAS, FTA, & GAS, HBS:

- ➔ At the initial stages of an appraisal submission, licensee submits appraisal data (including timber mark-tm) into ECAS without the Timber Mark existing in FTA;
- ➔ However, the Timber Mark must exist in FTA when the district sends the appraisal onto the region in ECAS;
- ➔ If the Timber Mark in ECAS & FTA do not match, the appraisal data will not load into GAS;
- ➔ If the data does not load into GAS, stumpage cannot be determined and HBS cannot produce an invoice for the tm.
- ➔ When the wood for the tm is scaled, HBS is unable to bill, hence creating liability and lost interest revenue for Crown.

Understanding Key Applications

Forest Regeneration Applications



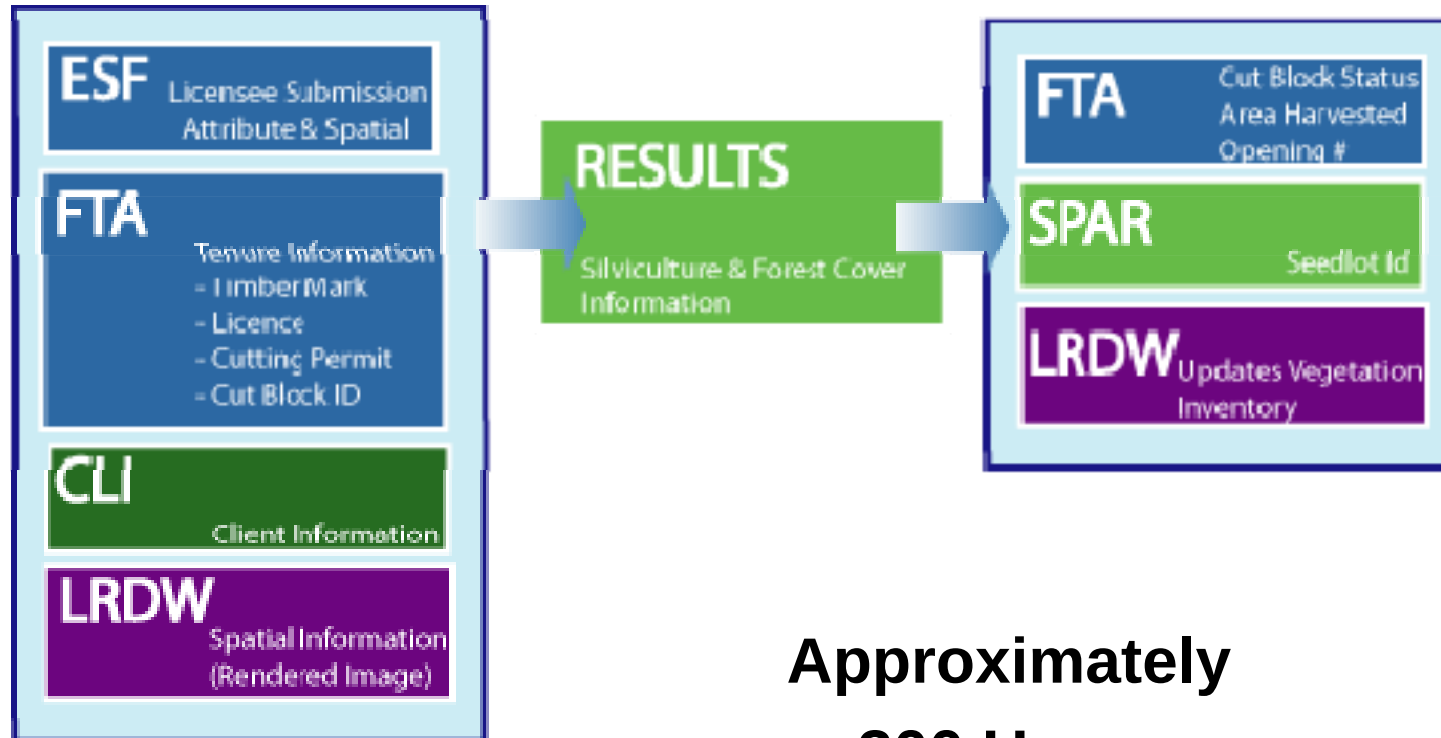
Forest Regeneration
Applications
RESULTS
SPAR

🌲 Forest Regeneration Applications include:

- ➔ Reporting Silviculture and Land Status Tracking System (RESULTS)
- ➔ Seed Planning and Registry (SPAR)

Understanding Key Applications

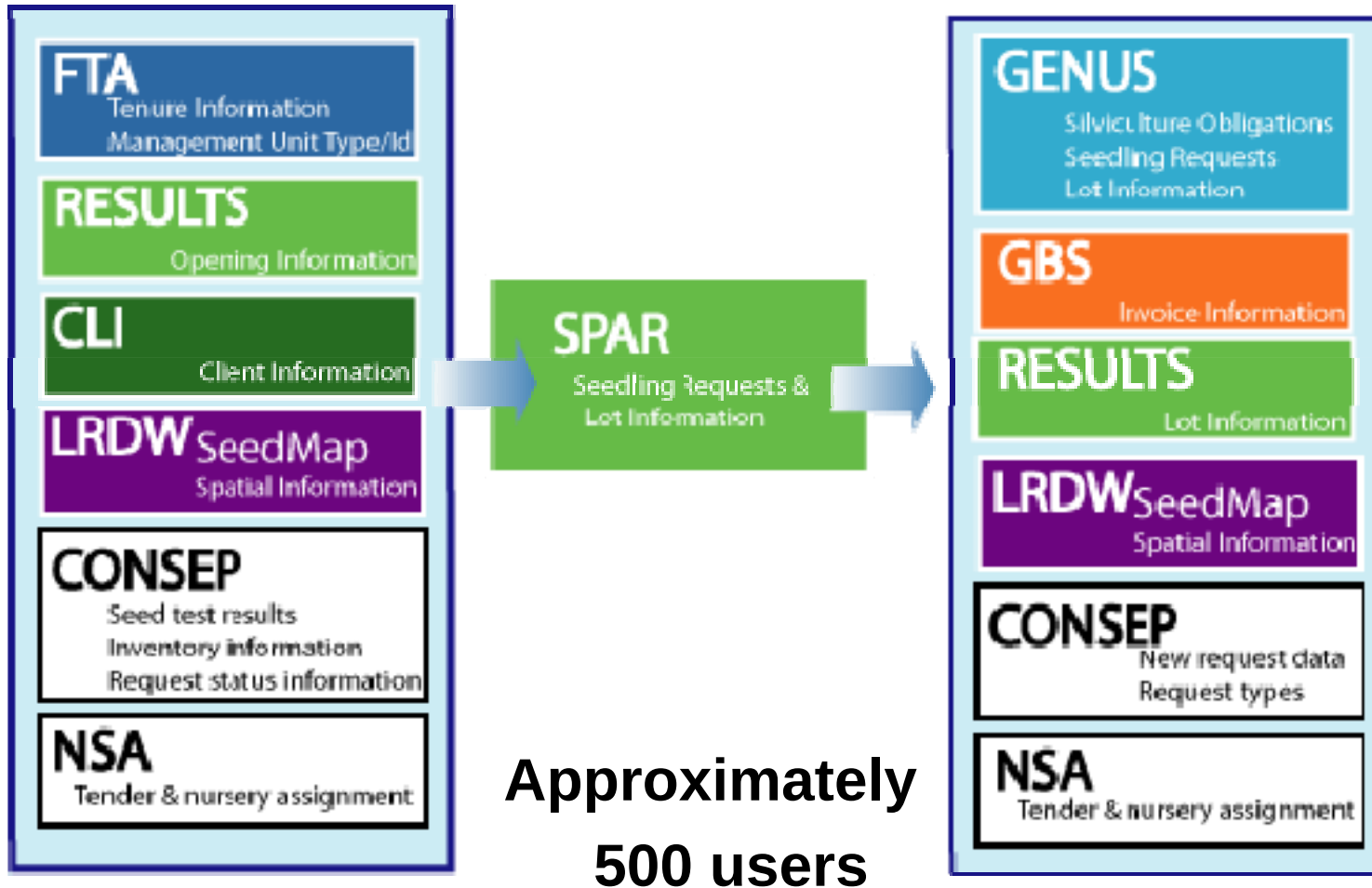
Reporting Silviculture and Land Status Tracking System



**Approximately
300 Users**

Understanding Key Applications

Seed Planning and Registry (SPAR)



Understanding Key Applications

Review of Critical Data Elements

Forest Regeneration
Applications
RESULTS
SPAR

- ❁ Critical data elements established in the Forest Regeneration Applications:
 - ➔ Seedlot & Vegetative Lot Id
 - ➔ Seed Test Results
 - ➔ Seedling Requests
 - ➔ Opening Location
 - ➔ Stocking Standards (Attributes & Location)
 - ➔ Actual Harvest Start Date & Completion Date
 - ➔ Location of Planted Seedlots
 - ➔ Reforestation Milestone Obligations
 - ➔ Forest Cover Land Status Attributes & Location (e.g. NSR, Stocked, Free Growing Stands).

Understanding Key Applications

Sample Data Dependencies

Forest Regeneration
Applications

RESULTS
SPAR

RESULTS

- ➔ Poor data causes post harvest information to be incorrect in FTA & CIMS
- ➔ C&E staff may have difficulties completing silviculture inspections if opening information (e.g. area of NAR, amendments) are not properly added to RESULTS
- ➔ Affects on Licensees who depend on Vegetative Inventory information
- ➔ Missing Standard Units & Actual Harvest Dates causes issues within RESULTS

Understanding Key Applications

Sample Data Dependencies (cont.)

Forest Regeneration
Applications

RESULTS
SPAR

SPAR

- ➔ Poor client data causes incorrect invoicing information & billings for the wrong client
- ➔ NSA relies heavily on SPAR data. If data is incorrect in SPAR, this has significant effects on NSA

Understanding Key Applications

Administration Applications

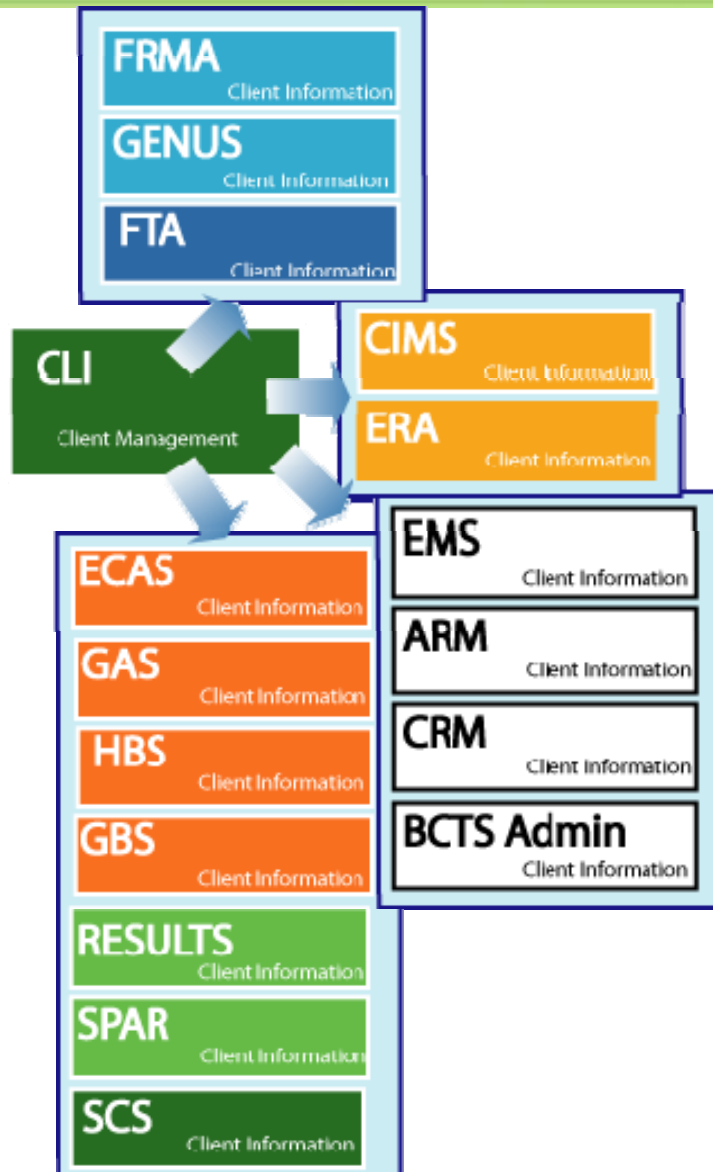
- 🌲 Administration Applications include:
 - ➔ Client Management System (CLI)
 - ➔ Scaling Control System (SCS)
 - ➔ Enterprise Documents Records Management System (EDRMS)

Administrative
Applications

CLI EDRMS
SCS

Understanding Key Applications

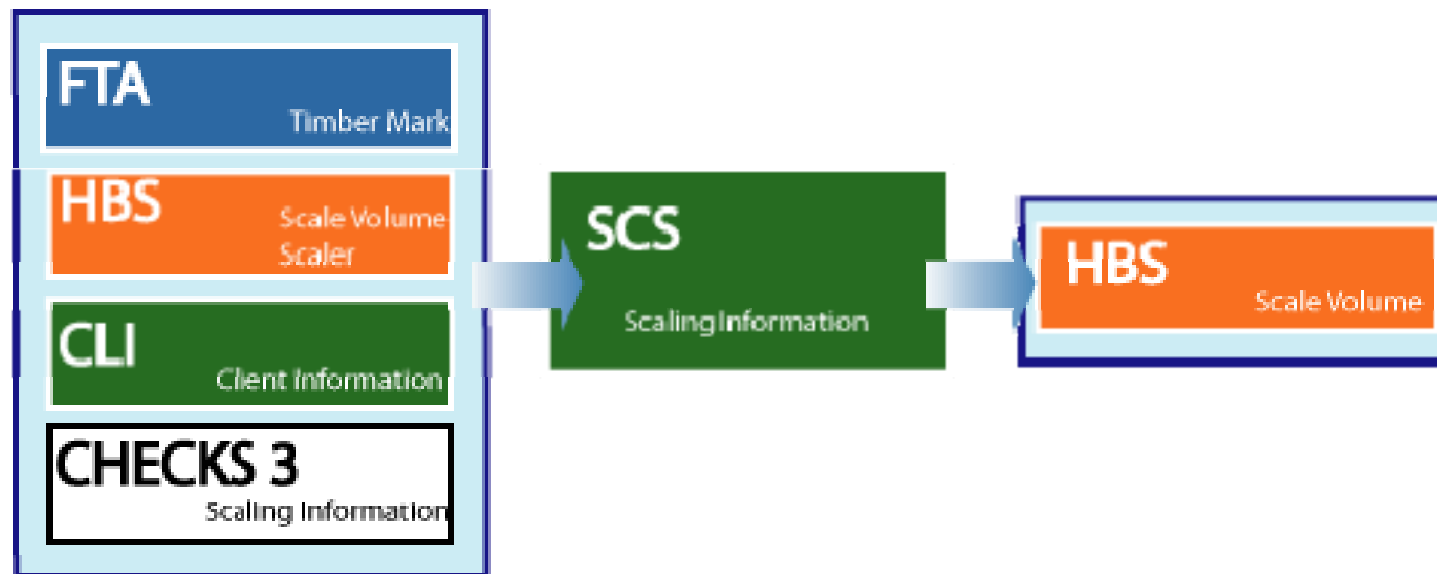
Client Management System (CLI)



**Approximately
400 users – update
access
1600 users –view only
access**

Understanding Key Applications

Scaling Control System (SCS)



**Approximately
250 users**

Understanding Key Applications

Enterprise Document Records Management System



All employees will have access

Understanding Key Applications

Review of Critical Data Elements

Administrative
Applications

CLI EDRMS
SCS

❧ The critical data elements are established in the Administration Applications:

- ➔ Client # & Client Location
- ➔ Scale Site
- ➔ Scaler
- ➔ Scale Site Inspections

Understanding Key Applications

Sample Data Dependencies

Administrative
Applications

CLI EDRMS
SCS

🌲 CLI

- ➔ An error in CLI data can have numerous repercussions (i.e. invoicing, enforcement actions)

🌲 SCS

- ➔ Poor data in SCS will impact invoicing in HBS

Understanding Key Applications

Understanding Outputs from Other Applications



Outputs from Applications

Reporting - CRS

Spatial - Incosada (TSUB),
LRDW, MAPView, etc.

🌲 Outputs from Applications include:

- ➔ Corporate Reporting System (CRS)
 - ➔ Non-revenue related reporting
- ➔ Spatial Systems
 - ➔ Incosada (TSUB)
 - ➔ LRDW
 - ➔ MapView, etc.

Understanding Key Applications

Corporate Reporting System

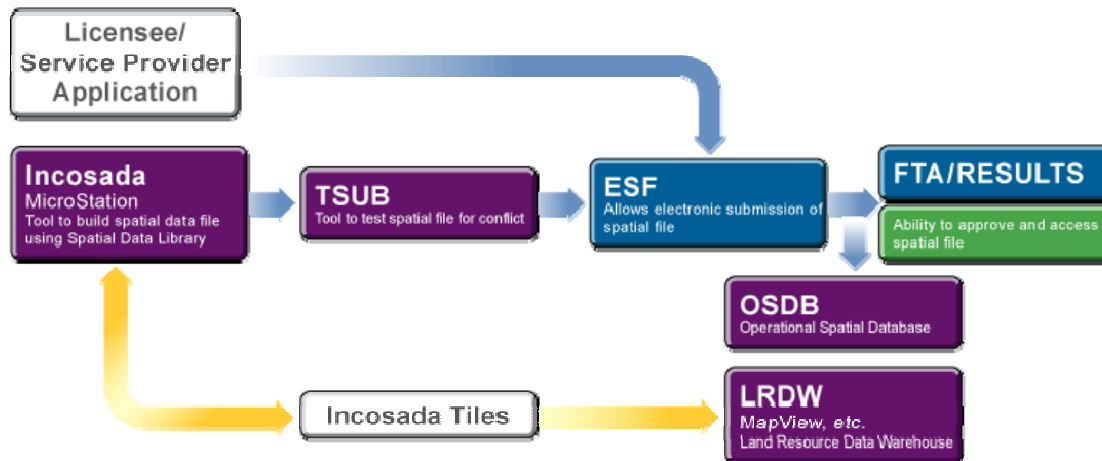


- ❧ CRS allows users to generate reports on FTA, RESULTS, & NSA
- ❧ All MOF employees have access to CRS
- ❧ Licensees have access to RESULTS reports via CRS

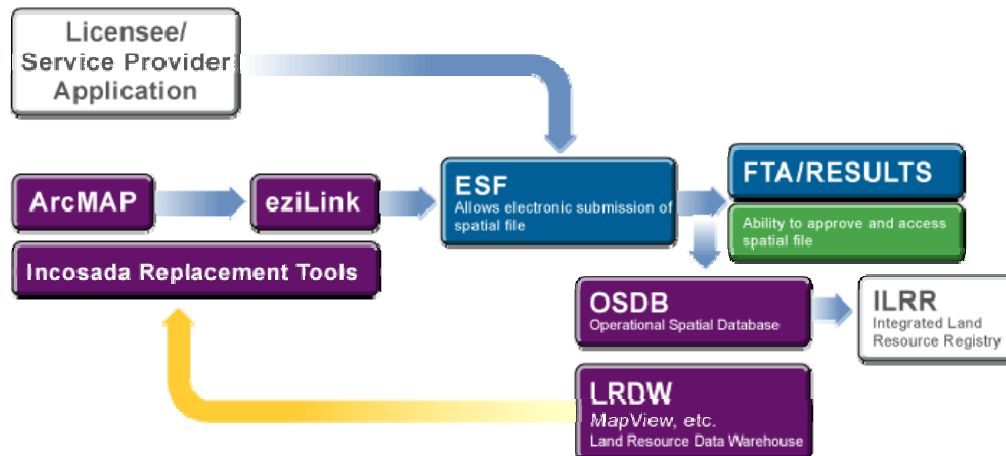
Understanding Key Applications

Understanding the flow of spatial data

Current Spatial Data Flow



Future Spatial Data Flow



Understanding Key Applications

Review of Critical Data Elements

Outputs from Applications

Reporting - CRS

Spatial - Incosada (TSUB),
LRDW, MAPView, etc.

- ❧ Critical data elements established in the Outputs from Applications:
 - ➔ **Spatial location of cut block** – this is established in LRDW

Note: The Outputs from Applications are powerful for the querying & reporting of data (e.g. queries of spatial data).

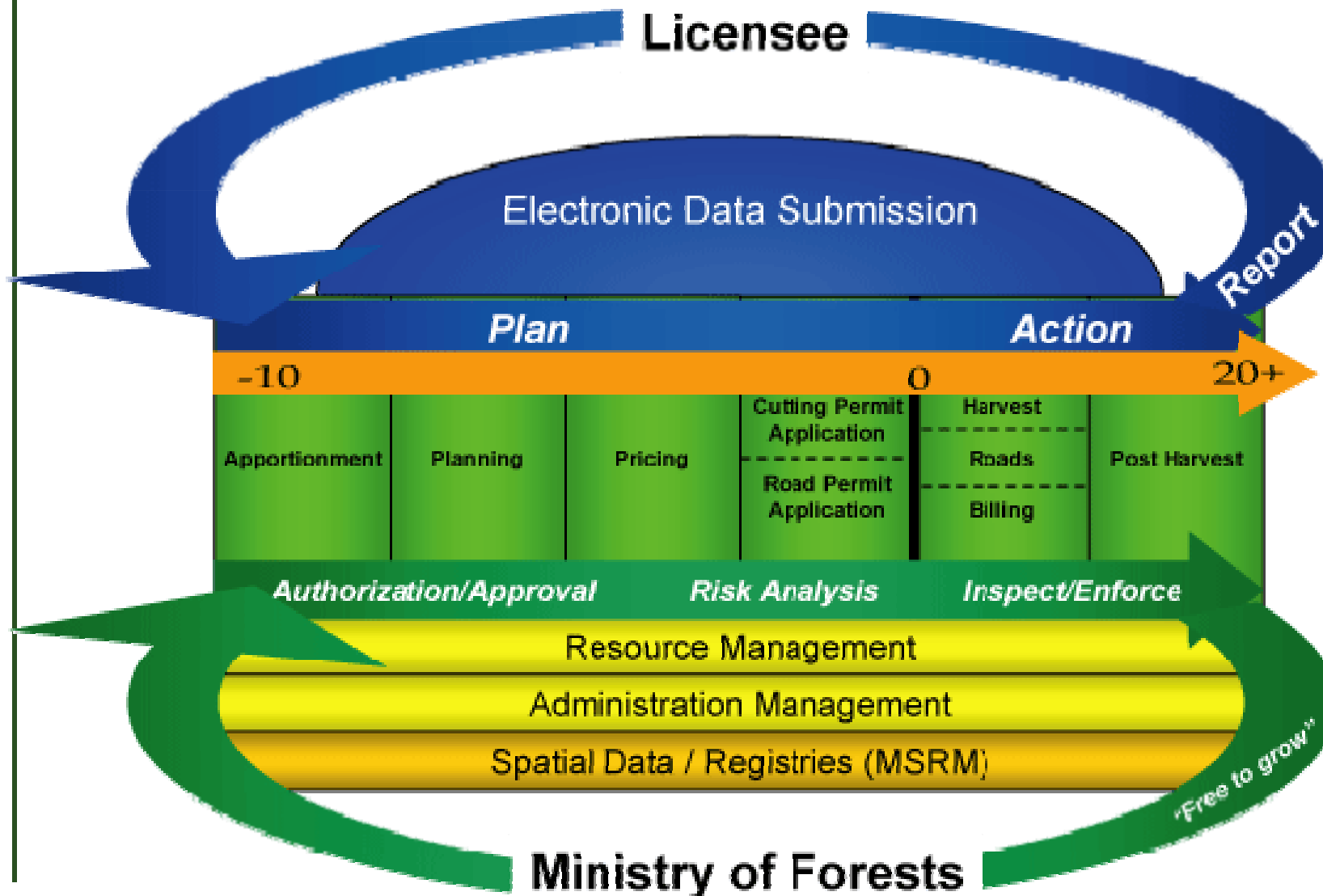
Understanding Key Applications

Summary of Critical Data Elements

Key Applications	Planning Applications	Resource Management Applications	Resource Monitoring Applications	Pricing & Billing Applications	Forest Regeneration Applications	Administrative Applications
	AFT FRMA MAX GENUS	ESF FTA	CIMS ERA	ECAS HBS GAS GBS	RESULTS SPAR	CLI EDRMS SCS
Key Data Elements Established	<ul style="list-style-type: none"> None at this time 	<ul style="list-style-type: none"> Timber Mark (Date, Status, Type) Inique Business Key Identifier: <ul style="list-style-type: none"> Licence Cutting Permit Cut Block Road Permit ID Area Road Length Road Section Organizational Unit Management Unit Id Dates 	<ul style="list-style-type: none"> Case ID 	<ul style="list-style-type: none"> Appraisals Data <ul style="list-style-type: none"> Volume Values Stumpage Rate Invoices Harvest History Information 	<ul style="list-style-type: none"> Seedlot/Vegetative Lot ID Seed Test Results Seedling Requests Opening Location Stocking Standards (Attributes & Location) Actual Harvest Start & Completion Date Location of Planted Seedlots Reforestation Milestone Obligations Forest Cover Land Status (Attributes & Location) 	<ul style="list-style-type: none"> Client number Client Location Scale Site Inspections Scale Site Scaler
Outputs from Applications CRS TSUB/Incosada Map View LRDW						
<ul style="list-style-type: none"> Spatial Location of Cut Block 						

Understanding Key Applications

Planning to Free-Growing



Understanding Key Applications

Next Steps

- 🌲 Future application training will build from this overview
- 🌲 The “Business Information Centre” is currently being created
 - ➔ Resource for 10 key systems
 - ➔ Links to systems documentation
 - ➔ Links to training documentation

Understanding Key Applications

Summary

- ❧ Understanding system inter-dependencies is critical to the success of the business
- ❧ Correctly entering & updating critical data elements is key to the data flow between applications
- ❧ Timely entry of data is just as important as the data entry itself
- ❧ Understanding “The Big Picture” is just as important as knowledge of each application