



International Federation of Surveyors  
Fédération Internationale des Géomètres  
Internationale Vereinigung der Vermessungsingenieure  
**FIG COMMISSION 7**  
Cadastre & Land Management

**Peter Rabley, ILS**

**Using ICT to drive Business Process  
Change within Land Registry Offices**

# **Symposium on Innovative Technology for Land Administration**

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# Presentation Overview

- § Real Property Context,
- § ICT Enabling Framework,
- § Integrating Cadastre and Registry,
- § Case Studies – National Land Agency, Jamaica and Spotsylvania County, VA.

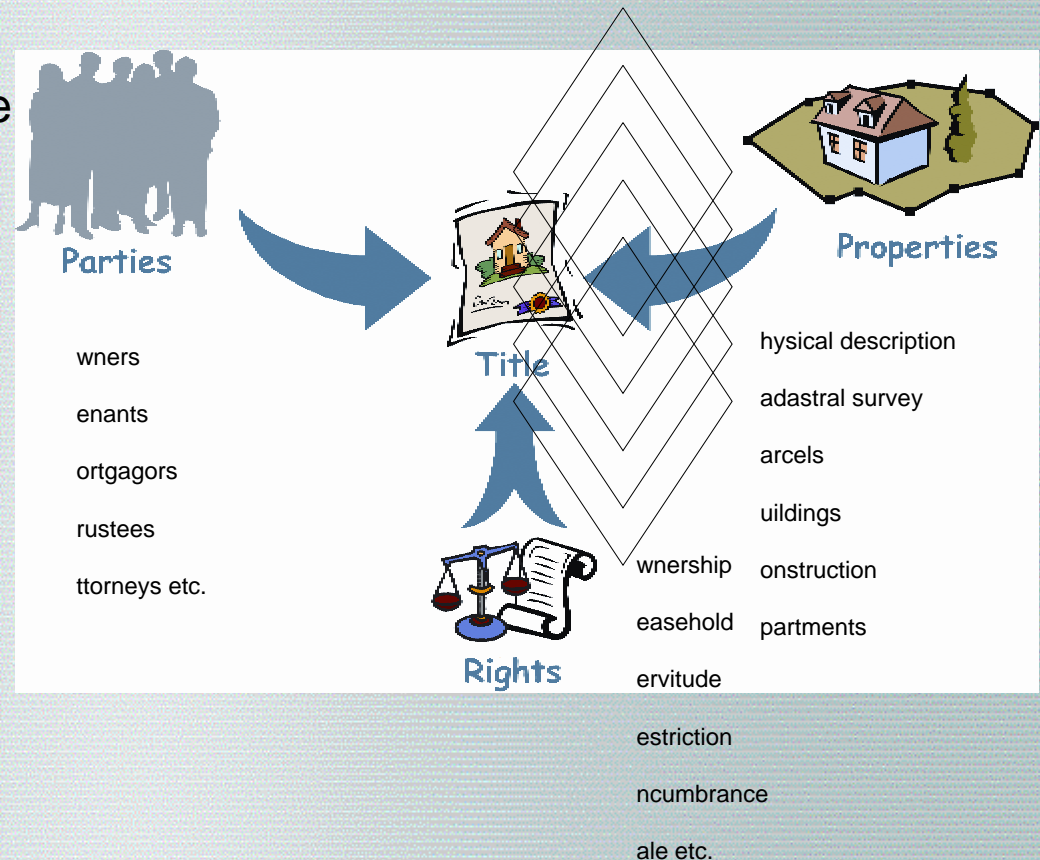
# Context – Real Property

- § Real Property is a principal source of wealth and wealth generation in a society,
- § Real Property rights that provide secure tenure and facilitate broad private ownership enable society to develop dynamic land trading practices and the formation of land markets,
- § Property is a cultural concept of the relationship between people and objects,
- § People can gain the right to process, use, enjoy and dispose of “objects”, and
- § The Concept of a “Bundle of Rights” - the rights related to the ability to possess, use, enjoy and dispose of real property.

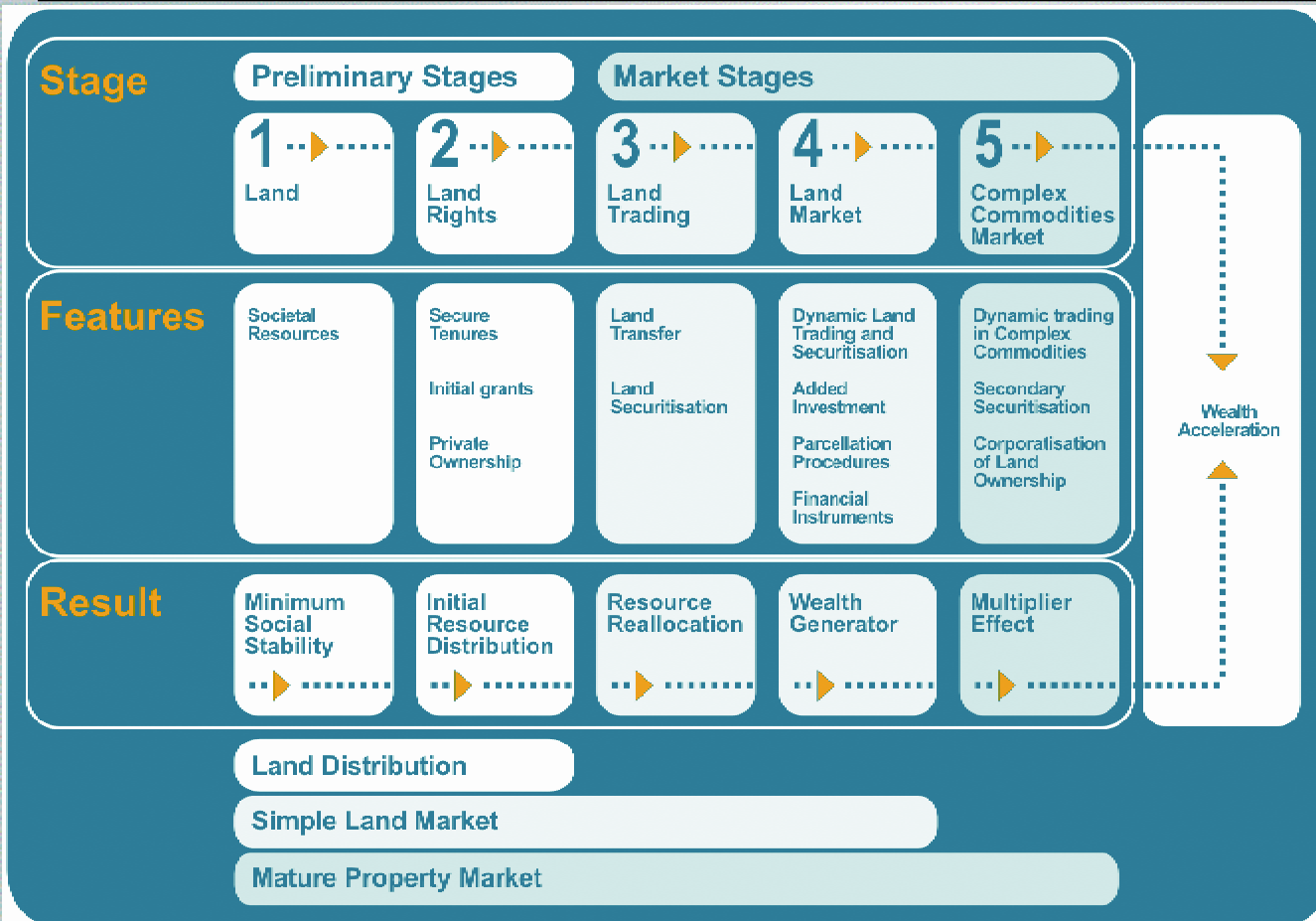
# Context – Real Property (Cont).

## § “Bundle of Rights”

- § Government’s role is to define real property rights and to protect those rights.
- § Real property has a legal dimension.
- § Real property has a physical dimension; the things we can gain rights over may be tangible or intangible.
- § Real property has an economic dimension; real property is a store of value, an element of wealth - a safe “harbor”.



# Context Real Property (Cont.)



§ Markets Mature,

§ Land transactions more complex,

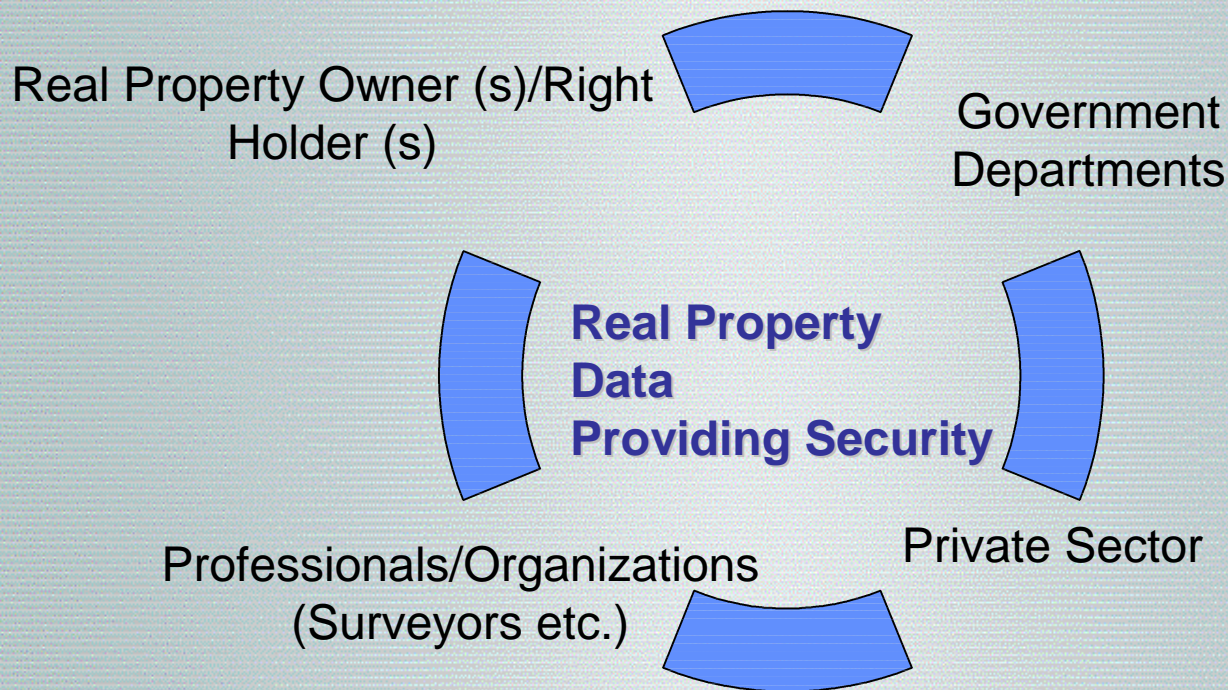
§ Demand on Government increases,

§ Cost Increase,

§ Maintenance.

# Context Real Property (Cont.)

## Land Market Interaction



# ICT Enabling Framework

**Consists of:**

**§ Drivers,**

**§ Enablers, and**

**§ Constraints.**

# ICT Enabling Framework (Cont.)

## Drivers:

### §External:

§Commercial Demand for Rapid Filing,

§Commercial Demand for Rapid Access,

§Public – Better Service and Access,

§Investment Demand – Emerging Economies – Second homes, Diaspora etc.

### §Internal

§Government Drive for Efficiency and Increased productivity



# ICT Enabling Framework (Cont.)

## Enablers:

- § Spatial data as the integrating layer,
- § Internet and Web Services,
- § PKI,
- § Modernized legislation i.e. digital signatures etc.,
- § Data Standards such as MISMO, LandXML etc.,
- § Data Models,

# ICT Enabling Framework (Cont.)

## Enablers (cont):

- § N-Tier environments – J2EE and .NET,
- § Business Logic and Workflow,
- § Data Replication tools,
- § Disconnected environments,
- § History and archive,
- § Lower cost hardware, and
- § Database Management Systems (lower cost, more choice).

# ICT Enabling Framework (Cont.)

## Constraints:

§Lack of funding,

§ICT not viewed as infrastructure i.e. roads, power etc.,

§Lack of skilled personnel,

§Institutional complexity and inertia,

§Poor data quality,

§Outdated Legislation,

§Lack of adoption of data standards – SDTS/FGDC e.g.,

§Resistance to change, and

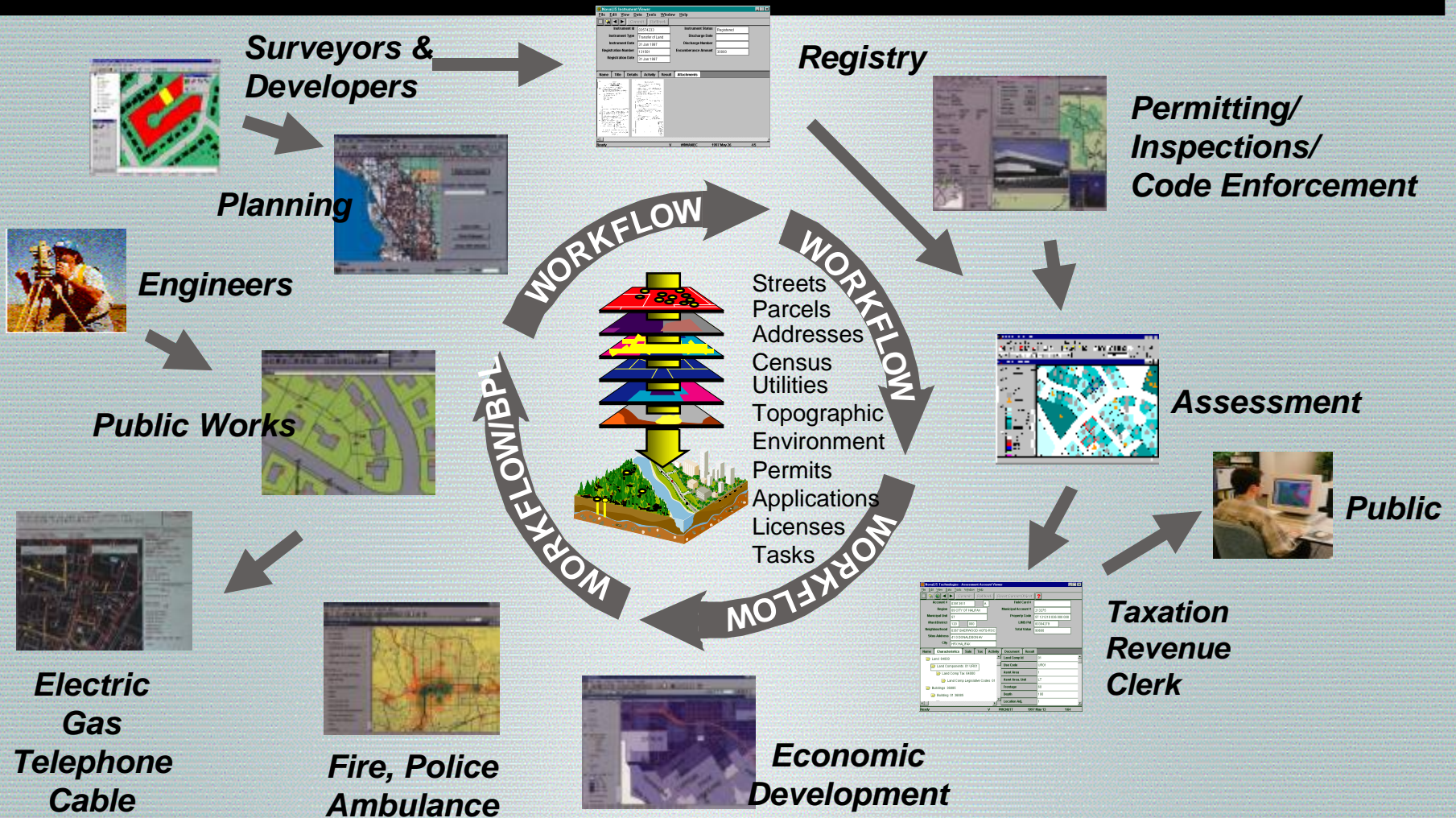
§Costs of maintenance.

# ICT Enabling Framework (Cont.)

## New Models:

- § Executive Agencies, i.e. HMLR, OS, and NLA in Jamaica (charge for services and data for recovery),
- § Public/private i.e. web hosting, royalty schemes,
- § Concession models,
- § Technology Funds i.e. TTF in Virginia, Ga, Ia, etc.

# Integrating Registry and Cadastral Systems



# Case Studies (Jamaica and Spotsylvania County, Va)

## Common Overview

- § Disparate definition of a cadastre
  - § Lack of a common parcel identifier
  - § Various Numbering Systems
- § Large Volume of Paper Records,
- § Low level of records integration in previous computer systems,
- § The requirement to have minimal negative effect on normal business operations during implementation,
- § Limited previous experience of senior staff in large system implementations,
- § Low level of computer knowledge in general staff,
- § Legislative framework
  - § Need to implement initially in current outdated system
  - § flexibility required for future changes

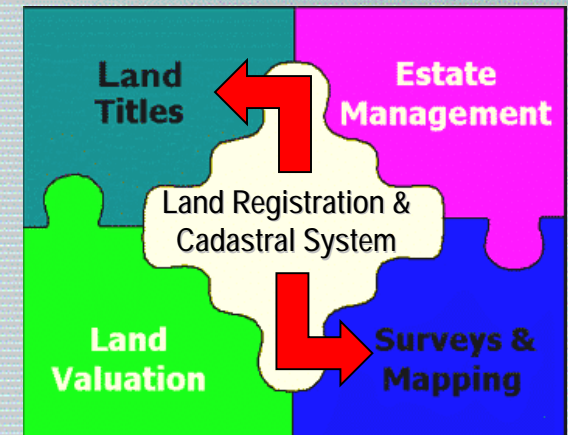
# Case Studies - Jamaica

- § Registration of Titles Act established in 1889 –  
Torrens Based Registry
- § Registration of Titles in one central office
  - § Approximately 500,000 registered Titles
  - § 50,000 transactions per annum
  - § 6,000 new certificates of title
- § Land Surveyors Act
  - § 15,000 survey plans per annum
- § Land Valuation Act for Property Taxation
  - § 690,000 taxation parcels of Land
- § Deeds System of common law titles also exists
- § Spatial Fabric – CADINDEX and CADMAP

# Case Studies - Jamaica

## Government Recognized

- § Inability of current title registration system to effectively handling current volumes and forecasted demands,
- § The need for a National Spatial Data Infrastructure to provide a foundation for economic development,
- § The need to accelerate the regularization of land ownership in Jamaica, and
- § The need for a modern institutional framework.





# Case Studies - Jamaica

## § National Land Policy

§ “July 1996. Policy recognizes the finite nature of Jamaica’s land resources and the need to correct decades of indiscriminate use and poor development practices. The policy aims to complement socio-economic development plans and programmes including poverty eradication, whilst challenging and seeking to remove inefficient, onerous and outdated legal, administrative, management and other barriers.”

## § Public Sector Modernisation

§ “In 1999 under a Public Sector Modernisation Project government moved to establish Executive Agencies that were more customer focused and performance based on terms of management. Guided by the National Land Policy, one of the agencies created in 2001 was the National Land Agency (NLA) under the Ministry of Land and Environment. The NLA brought together the core land functions of Government under one roof, and includes: Land Titles; Survey & Mapping; Land Valuation & Estate (Crown Land) Management. “

§ Modernization of Information Technology – Use Enterprise solution to drive Business Process Change.

§ Establish Customer Service Office, Business Development Office, and IT Office – all with their own business plans and strategies.

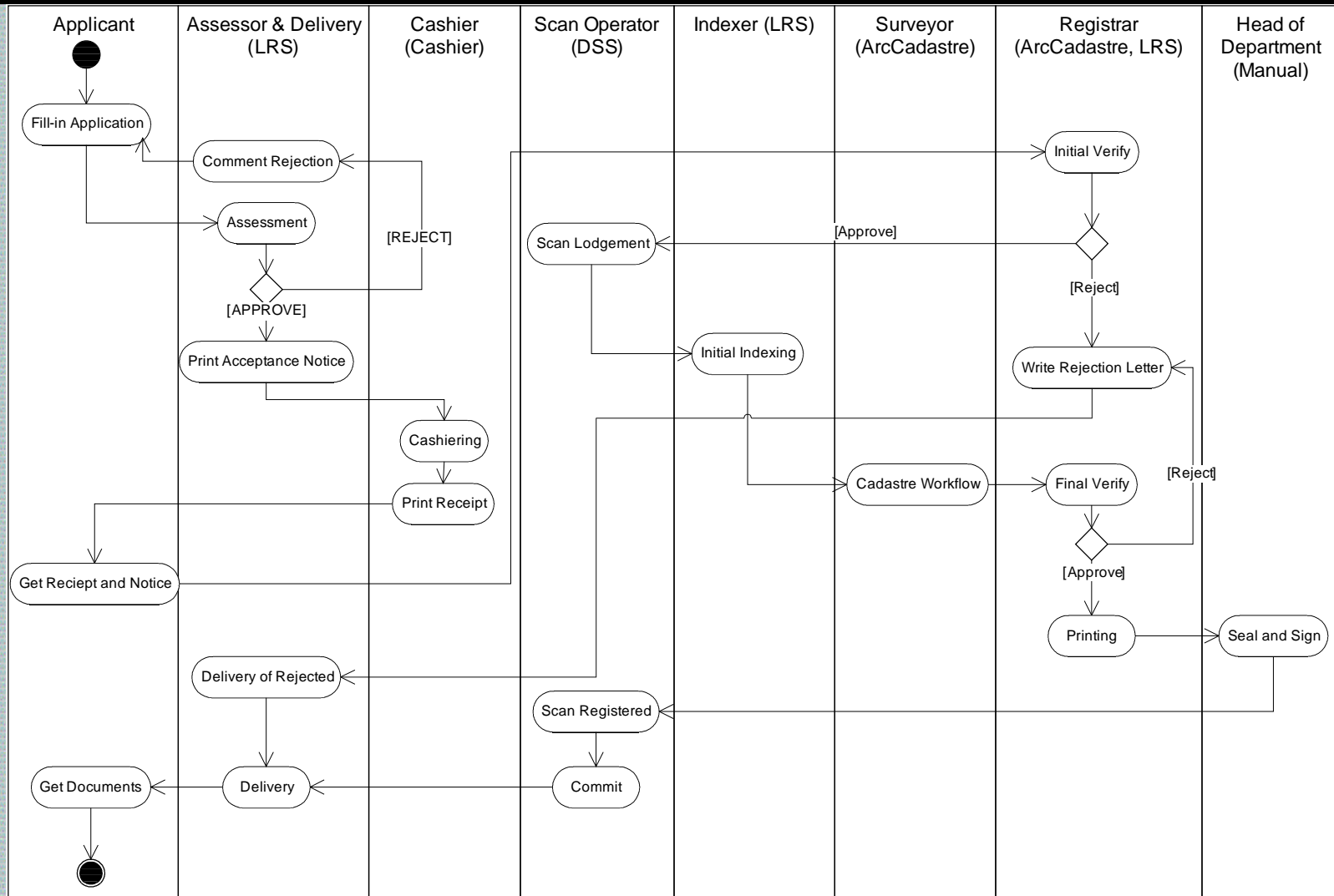
# Jamaica - Workflow and Business Rules Concept

- § The registration procedure is workflow-driven and specified by business rules,
- § Workflow is a scenario for performing daily operations under predefined procedures and strict security rules,
- § Business rules define how the workflow should proceed,
- § Each type of transaction may have its own workflow with necessary number of steps and links between them, and
- § Workflows are configurable through definable business rules logic.

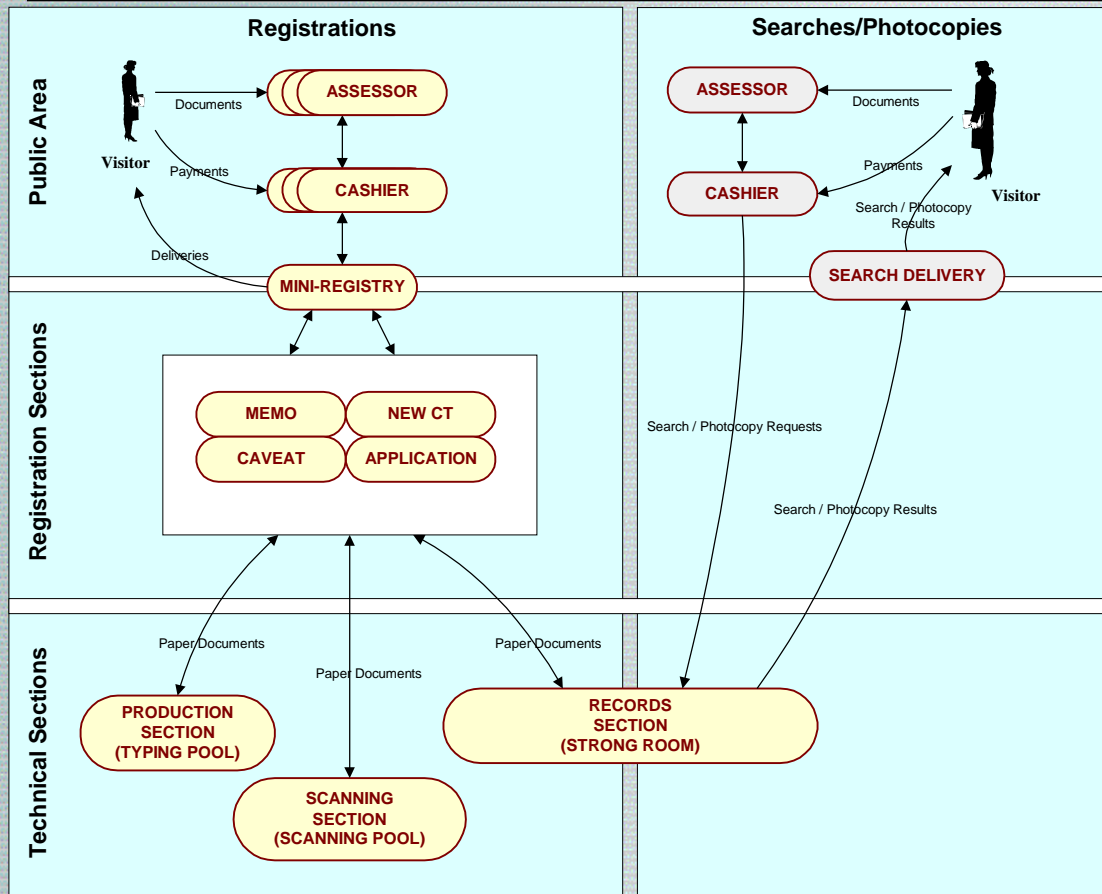
# Jamaica – Workflow Defined

- § *Assessment* – get, review documents from party and create new lodgment,
- § *Cashiering* – accept payment for registration,
- § *Initial Verify* – conduct legal review of documents,
- § *Scan* – scanning of incoming documents,
- § *Index* – enter information about transaction into property register,
- § *Cadastral* – perform cadastral operation i.e. subdivide, union, create parcel diagram etc.,
- § *Final verify and Sign and Seal* - check, print and sign deed document,
- § *Final Scan* – scanning of outgoing documents, and
- § *Delivery* – deliver new documents to the applicant.

# Jamaica - Registration Scenario



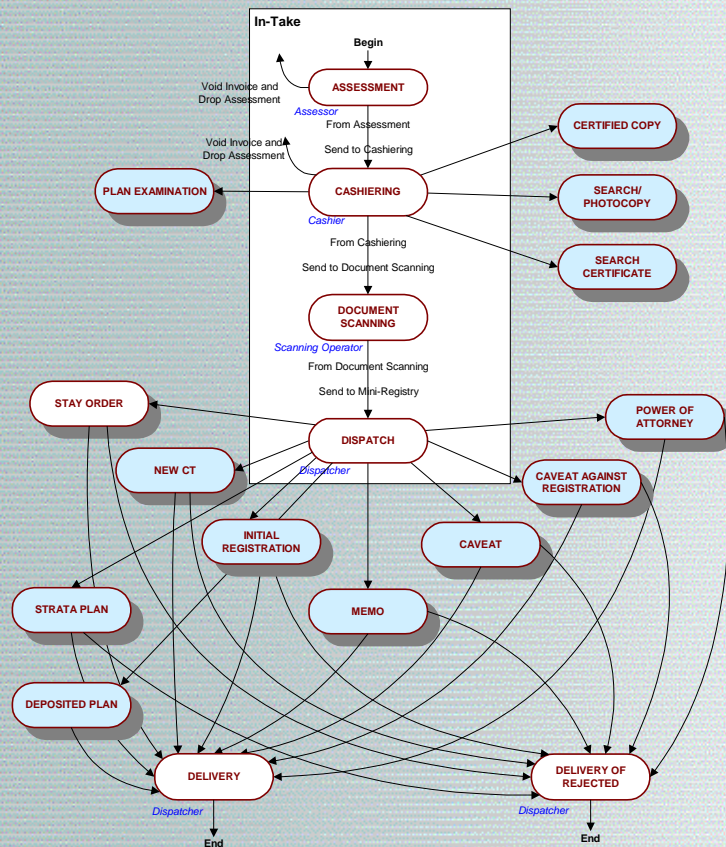
# Jamaica – Enterprise Solution



## Enterprise Solution (LRS) Enables enabling:

- Job and staff tracking,
- Concurrent processing,
- Fully controlled access to field level,
- Backfile Integration (digital archives), and
- Full Automation of ALL office registration activities.

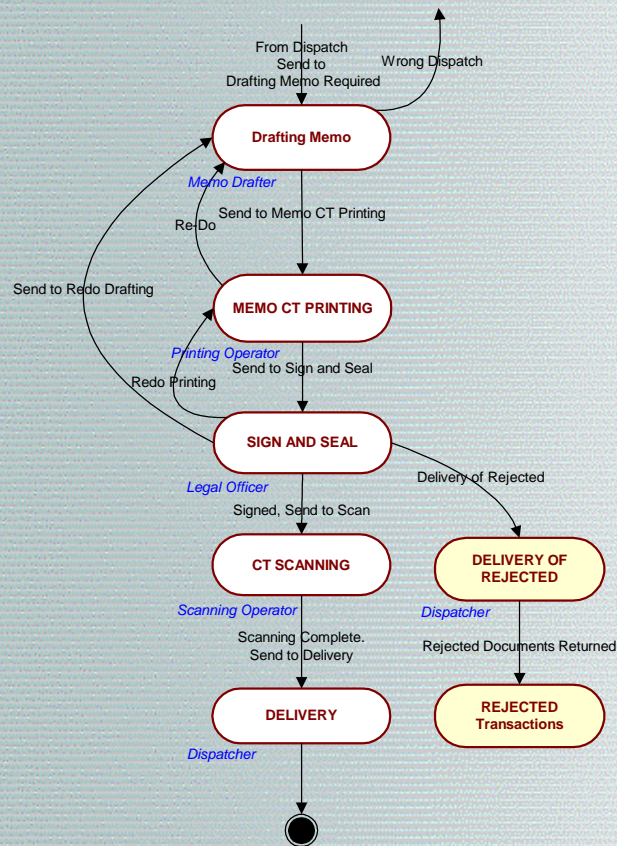
# Jamaica Workflows (Transaction Types)



## LRS Workflows

- § New Certificate
- § Primary Registration
- § Encumbrances
- § Caveat
- § Power of Attorney
- § Deposit of Plan
- § Plan Examination
- § Search
- § Search Certificate
- § Certified Copy
- § Manual Processing (for transition period)

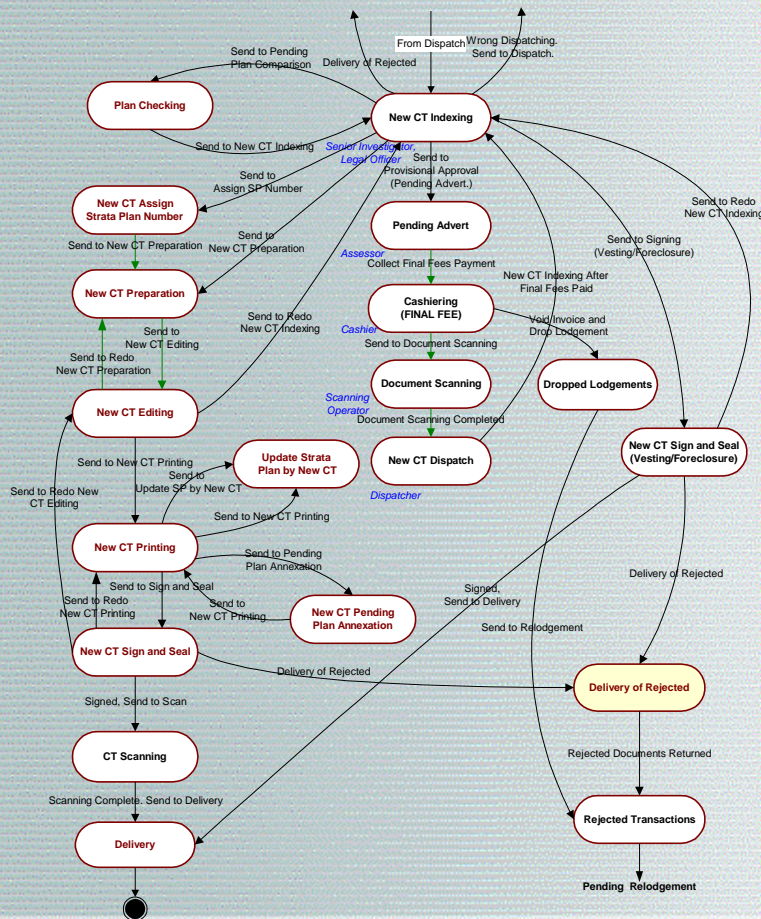
# Jamaica Simple Workflow



## Encumbrances Workflow

- § Drafting Memo
- § Printing Memo
- § Sign and Seal
- § Scan Certificate
- § Delivery

# Jamaica Complex Workflow



## New Certificate

- § New CT Indexing
- § Plan Checking
- § Newspaper Advertisement
- § Final Fees Payment
- § New CT Preparation
- § New CT Editing
- § New CT Printing
- § Sign and Seal
- § Scan New CT
- § Delivery



# Jamaica – Control

The screenshot displays the 'I.L.S. Land Register - Index' application window. The main window contains a table with the following columns: Instrument No., Instrument, Invoice No., Applicant, Stage, Message, RID, Date Paid, Flight Beginning Date, Scenario, and Locked By. Below the table, a 'History' window is open for instrument 0010015, showing a list of processing steps with columns for Date/Time, User, and Stage. The history window also includes a 'Comments' section.

Instrument No.	Instrument	Invoice No.	Applicant	Stage	Message	RID	Date Paid	Flight Beginning Date	Scenario	Locked By
0010002	PRL Privatization of Land	2	Digo Int.	Delivery	Define Documents	NR1100001	2/16/2005 11:35 AM	8/25/1977 1:00 AM	Primary Registration	ILRS Administrator
0010003	TRL Transfer of Land	3	Digo & Co.	Scan Output Documents	Scan Output Documents	NR1100001	2/17/2005 11:04 AM	2/17/2005 12:00 AM	Secondary Registration wit...	
0010004	MO Mortgage	4	Bank of Nova	Scan Output Documents	Scan Output Documents	NR0000101	2/17/2005 11:51 AM	2/14/2005 12:00 AM	Secondary Registration	
0010005	CSA Change State Act	5	Alex Isa Anarov	Scan Output Documents	Scan Output Documents	NR0000101	2/17/2005 11:57 AM	2/15/2005 12:00 AM	Secondary Registration wit...	
0010006	CSA Change State Act	9	Digo & Co.	Scan Output Documents	Scan Output Documents	NR1100001	2/17/2005 1:33 PM	1/3/2005 12:00 AM	Secondary Registration wit...	
0010007	PREP Property Report	10	Digo Int.	Scan Output Documents	Scan Output Documents	NR0000101	2/17/2005 1:45 PM	1/3/2005 12:00 AM	Property Report	
0010009	PREP Property Report	11	Digo & Co.	Sign and Seal	Sign and Seal	NR1100001	2/17/2005 2:04 PM	1/5/2005 12:00 AM	Property Report	ILRS Administrator
0010010	CSA Change State Act	12	Digo Int.	Printing	Printing	NR0000102	2/17/2005 5:31 PM	1/3/2005 12:00 AM	Secondary Registration wit...	ILRS Administrator
0010012	TRL Transfer of Land	15	Bajamov Enil Arzu	Verification	Final Verification	NR0000104	2/19/2005 12:56 PM	12/12/2004 12:00 AM	Secondary Registration wit...	
0010013	MO Mortgage	17	Bajamov Enil Arzu	Initial Verification	Initial Verification	NR0000108	2/19/2005 3:23 PM		Lodgement Form	ILRS Administrator
0010014	PR6 Privatization of App...	18	Digo Int.	Scan Output Documents	Scan Output Documents		3/1/2005 3:28 PM	3/2/2005 12:00 AM	Appointment Primary Regist...	
0010015	PRH Property Formation	19	IT	Property Verification	Property Verification		3/4/2005 12:07 PM		Property Formation	

Date/Time	User	Stage
3/4/2005 12:07 PM	Admin	Assessment
3/4/2005 12:07 PM	Admin	Cashiering
3/4/2005 12:07 PM	Admin	Initial Verification
3/4/2005 12:07 PM	Admin	Scan Documents
3/4/2005 12:07 PM	Admin	Dispatching
3/4/2005 12:17 PM	Admin	Property Initial Indexing
3/4/2005 12:17 PM	Admin	Cadastral Operation

Applications queue at different stages

Application Processing History

# Jamaica – Security

The screenshot displays the ILS Cashier software interface. On the left, there is a list of transactions with columns for Name, Short Name, and Code. The 'Application' transaction is highlighted. In the center, a 'Parameters' table lists various fields like Doc\_Number, old\_vol\_folio, Consideration, NumNewTitles, ReRegistrationByPlan, Patent, and AttachPlan. An 'Edit Account Fee' dialog box is open, showing a formula for calculating fees based on these parameters. The formula includes a condition: 'If ReRegistrationByPlan then IF consideration <= 20000 then Fee = 120'. The dialog also has fields for 'Instrument No.', 'Volume/Folio', 'Value of Land', and 'Number of New Certificates', along with checkboxes for 'Re-Registration by Plan' and 'Patent by Plan'.

Name	Short Name	Code	Name	Type	Default	Display Name
Addition of Covenant	Addition of	AC	Doc_Number	Text		Instrument No.
Adjusting Entry Cash			old_vol_folio	Text		Volume/Folio
Adjusting Entry Check			Consideration	Currency		Value of Land
Adverse Possession	Adverse P.	ADVP	NumNewTitles	Integer	1	Number of New Certificates
Amendment	Amendme	AM	ReRegistrationByPlan	Logic	No	Re-Registration by Plan
Application	Applicat	APP	Patent	Logic	No	Registration by Patent
Appointing Receiver	Appointing	AR	AttachPlan	Logic	No	Submitted with Plan
Assurance Fund	Assurance	AF				
By Laws	By Laws	BLA				
Caveat	Caveat	CA				
Caveat Against Registration	Caveat Ag	CAR				
Certified Copy	Certified C	CC				
Change of Name	Change N	CN				
Court Order	Court Order	CO				
Customer Account Withdraw	Withdraw	WCA				
Customer Withdrawal	Customer	CW				
Death	Death	DE				
Declaration of Trust	Declaration	DT				
Deposit	Deposit	DEP				
Deposit of Plan	Deposit of	DP				
Discharge of Bankruptcy	Discharge	DB				
Discharge of Covenant	Discharge	DC				
Discharge of Mortgage or Charge	Discharge	DI				
Dispensation	Dispensat	DIS				
E-Land Deposit	E-Land De	ELD				
Examination of Document	Exam of D	EMD				
Exchange of Land	Exchange	EXL				
Final Fee	Final Fee	FF				
Foreclosure	Foreclosure	FD				
Foreclosure Order	Foreclosure	FORD				
General Search	General S	GS				
Grant of Easement	Grant of E	GO				

§ Functions: fee calculation, receipting, and accounting of fee transactions at the Land Registry.  
 § Increased security, and  
 § Increased Fee Generation.

# Jamaica - Access

The screenshot shows the 'Registry Browser' application window. The search criteria are set to 'Certificate of Title'. The search results table is as follows:

Misc No.	Volume	Folio	Registration Date	Archive Date
1102	117	13.05.1987		
1102	122	28.04.2004		
1102	148	19.12.2003		
1102	199	24.03.1999		
1102	201	18.10.1985		
1102	203	01.08.1998		
1102	212	26.03.2004		
1102	217	05.09.2003		
1102	243	22.07.2003		
1102	274	27.08.2003		

The selected record (Volume 1102, Folio 217) is displayed in the main window. The details are:

**Certificate of Title**  
 Volume: 1102 Folio: 217  
 Status: Active  
 Registration Date: 05-Sep-2003

**Property**

PID	Type	Status	Name	Lot No.	Postal Location
<a href="#">10384441</a>	parcel	active	ENSOM CITY	678	SPANISH TOWN P O

**Ownership**

Instrument	Owner	Address
<a href="#">1247161</a>	GRAY, ALANA	225 SOUTH 12TH AVENUE, MT. VERNON, NEW YORK 10550
<a href="#">1247161</a>	LAMONTH, GERTRUDE	32 FOURTH STREET, KINGSTON 13
<a href="#">1247162</a>	JAMAICA NATIONAL BUILDING SOCIETY	10 GRENADA CRESCENT NEW KINGSTON KINGSTON 5

**Instruments**

Instrument	Type	Registration Date
<a href="#">1247161</a>	TR - Transfer	05-Sep-2003
<a href="#">1247162</a>	MO - Mortgage	05-Sep-2003

§ Easy access to information, and  
 § Up to date Title data.

# Jamaica - Reporting

The screenshot shows the ILS Reports Task Manager interface. The main window displays a table of tasks with columns for Task Name, Report, Start Date, End Date, Last Run, Next Run, and an Enable checkbox. A 'Task Properties' dialog box is open, showing the 'Schedule' tab. The dialog has four tabs: General, Schedule, Parameters, and Subscribers. Under the 'Occurs' section, 'Daily' is selected. The 'Daily' frequency is set to 'Every 1 day(s)'. Under the 'Daily frequency' section, 'Occurs once at' is selected with a time of 3:07:00 PM. There are also fields for 'Starting at' and 'Ending at', both set to 3:40:33 PM. 'OK' and 'Cancel' buttons are at the bottom.

Task Name	Report	Start Date	End Date	Last Run	Next Run	En.
Staff List	Staff List	3/6/2005		6/5/2005 5:19 PM	6/6/2005 5:19 PM	<input checked="" type="checkbox"/>
► Instruments Ageing	Instruments Ageing	6/3/2005		6/5/2005 3:07 PM	6/7/2005 3:07 PM	<input checked="" type="checkbox"/>
Staff Productivity (Monthly)	Staff Productivity Summary	6/3/2005		6/5/2005 3:04 PM	6/7/2005 3:04 PM	<input checked="" type="checkbox"/>
Memo Pending Details	Memo Pending Details	6/3/2005			6/12/2005 6:06 PM	<input checked="" type="checkbox"/>

- § Staff productivity,
- § Financial Statistics, and
- § Performance Statistics.

# Jamaica - Integration

Instrument 0010003

**Property Initial Indexing**

Source Property(s)

RID	Property Type	Property Name			
NR0000108	Private property				
Type of Part	Cadastral No.	Area	Address	City	Name of Part
land	103-126	1458.97 sq. met.		Sikirtabat	

New Property(s)

RID	Property Type	Property Name			
NR1100001	Private property				
Type of Part	Cadastral No.	Area	Address	City	Name of Part
land		400.00 sq. met.		Sikirtabat	

All Available Property Objects

Type of Part	Cadastral No.	RID	Area	Address
land	103-126	NR0000108	1458.97 sq. met.	
land			400.00 sq. met.	

ToDo List for Cadaastre

Instrument ID	Instrument	Instrument Create Date	RID	Unit Type	Create Date	Cadastral No.	Cadastral
0010003	Subdivision	04.04.2005 14:09:32	NR0000108	Parent		103-126	Subdivision
0010003	Subdivision	04.04.2005 14:09:32	NR1100001	Child			Subdivision

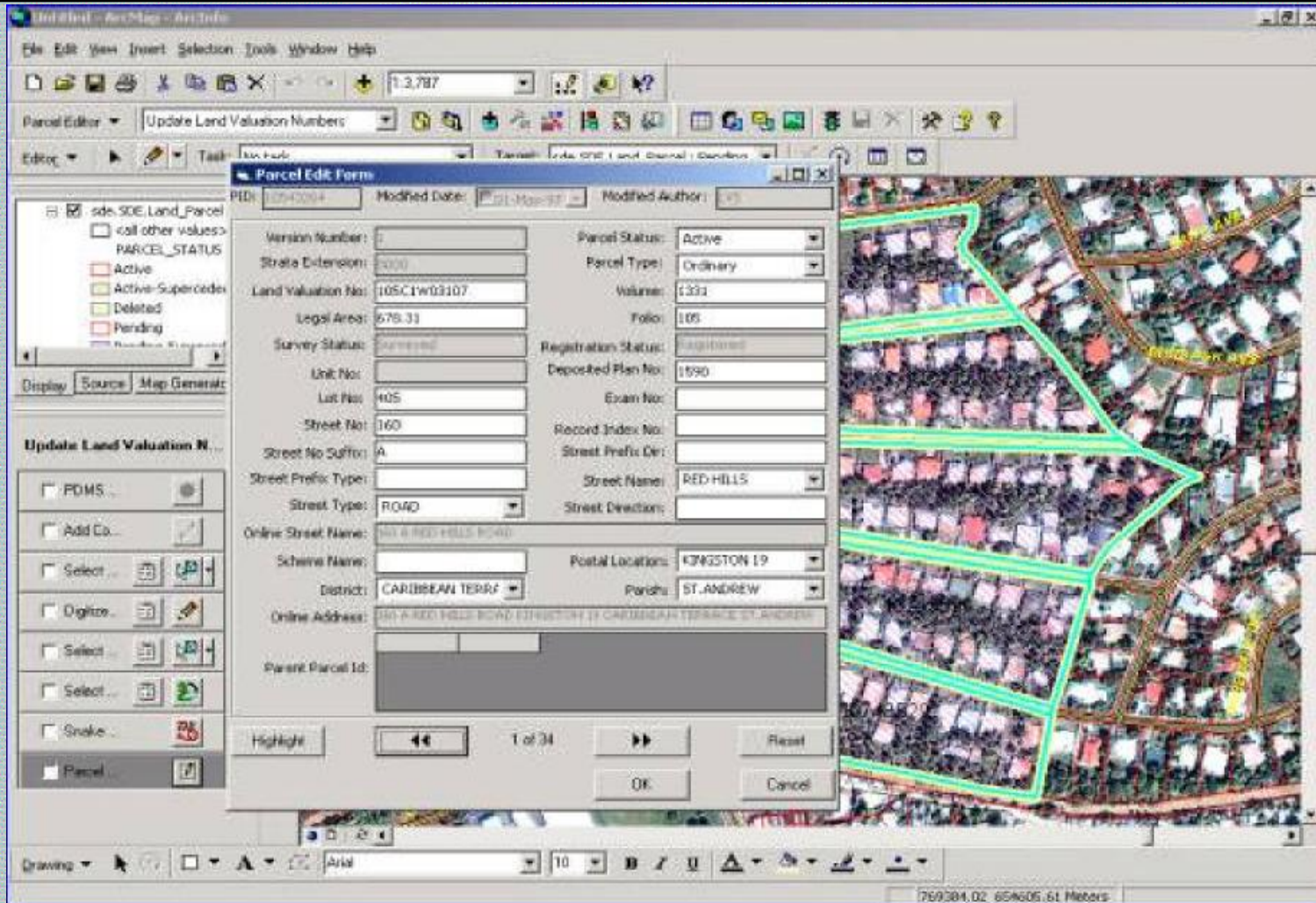
Back Finish Cancel

Esc - Cancel F2 - Finish F3 - Back F4 - Add Property F5 - Add Property Object F6 - Delete Record F7 - View/Edit Record F8 - Copy Property Object F9 - Delete Property Object

Ready 1 record(s), 1 selected admin Connected

Subdivision of a property invokes operations to be performed in the cadastre office

# Jamaica – Integration (Cont.)



# Jamaica – Results

- § Transaction times cut from 60 days on average to 15 – goal is 3 days turn around by 2006,
- § Business processes reduced from more than 100+ to less than 50 in daily use,
- § Customers know exactly where their application is,
- § Much closer to creating a ‘one stop shop’, and
- § Fee Collections are up 250%.

# Case Studies - Spotsylvania County, VA

## Problem Set:

- § Population 110,000,
- § 35,000 land parcels,
- § Growing rapidly - dormitory of metro Washington DC
- § Records office was 4 months behind,
- § Older technology – not flexible,
- § Low level of technology skill and awareness in staff,
- § Deed legacy system data not integrated,
- § Not integrated with rest of County land processes, and
- § Public and commercial sector increasingly frustrated.



# Case Studies - Spotsylvania County, VA

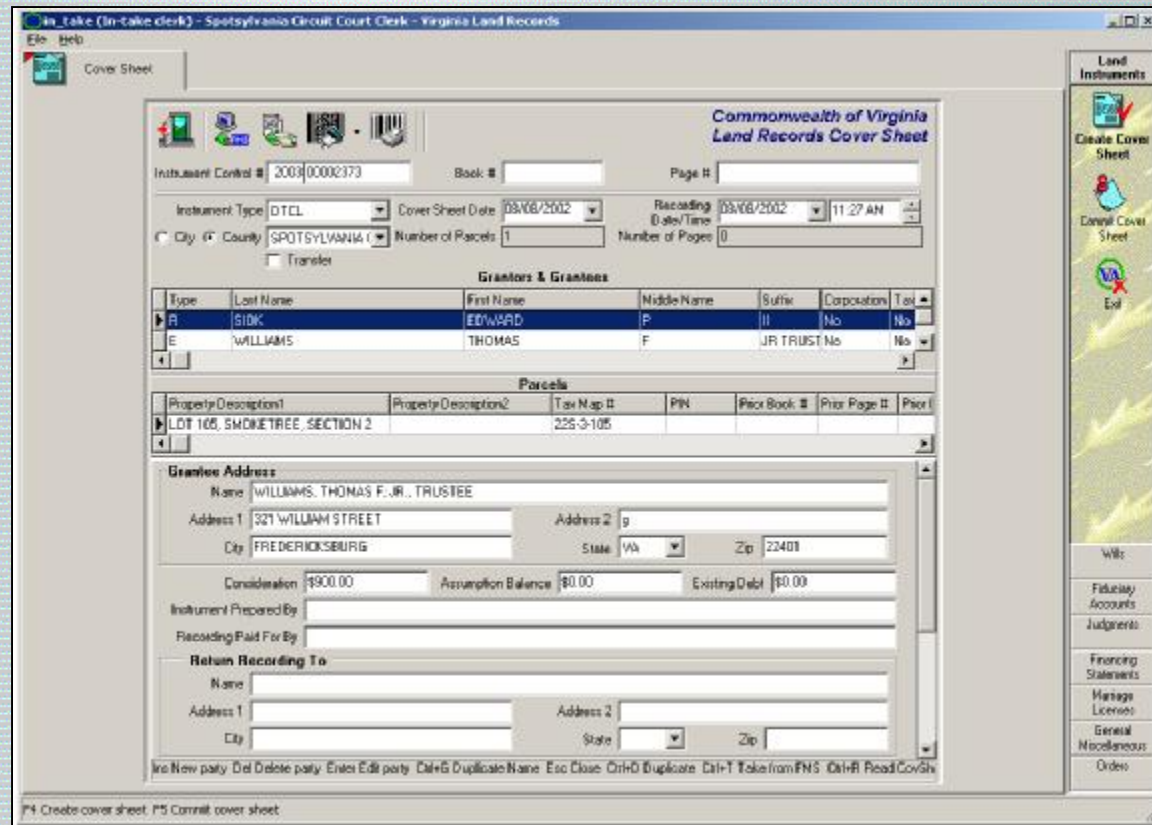
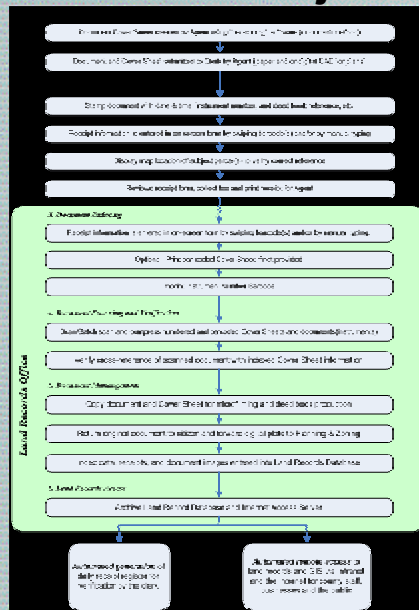
## Solution:

- § Use TTF,
- § Replace older legacy system more flexible open system,
- § Force use of the VA Cover Sheet Agent – level 1 E-filing,
- § Integrate backfile legacy data,
- § Integrate with Assessors and planning office through Novalis LRF,
- § Use Web Delivery,
- § Use E-Filing (ERX – ILS and ACS),
- § Provide extensive training,
- § Recordings – now live – no backlog,
- § Legacy data converted back 40+ years and work ongoing, and
- § Staff productivity greatly increased.

# Case Studies - Spotsylvania County, VA

## Workflow

§ User roles,  
§ Flexible workflow,  
§ Controlled 'jobs'.



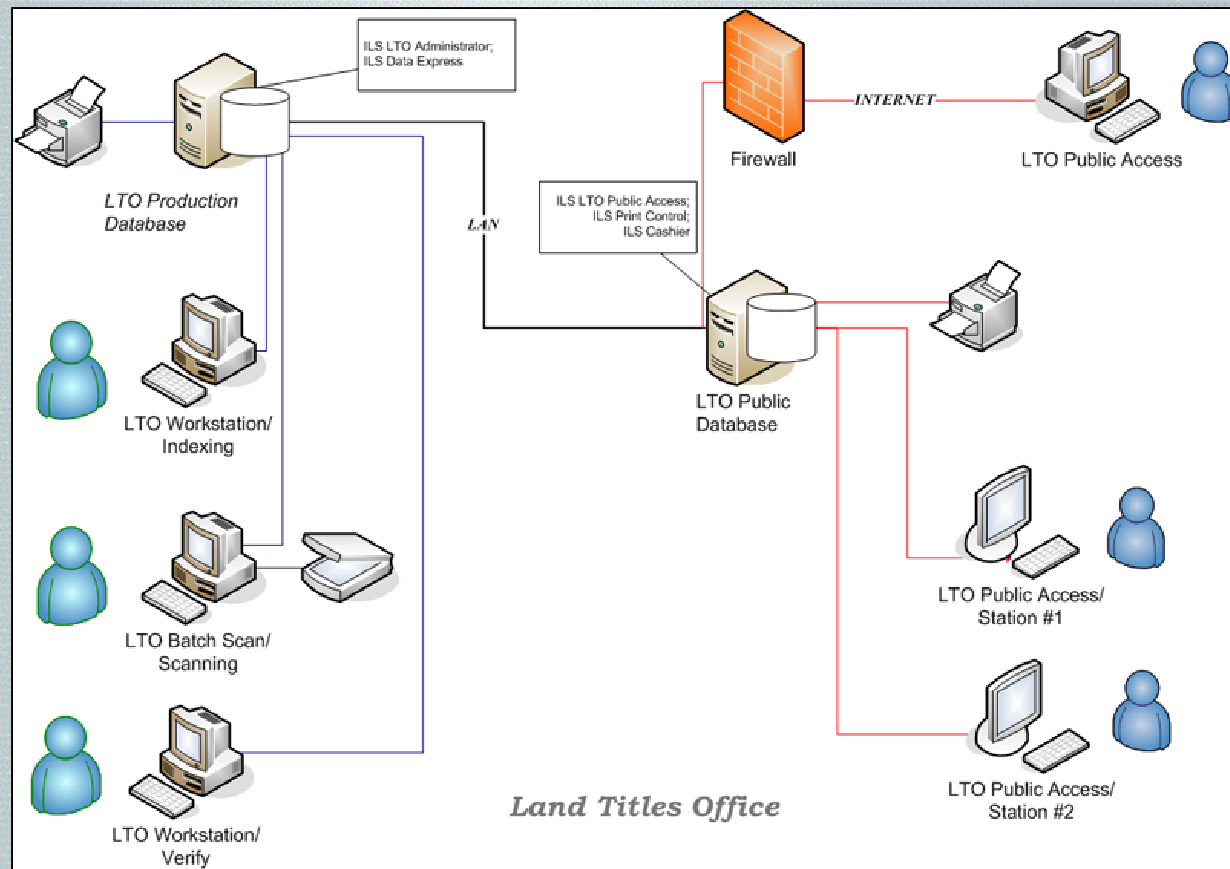
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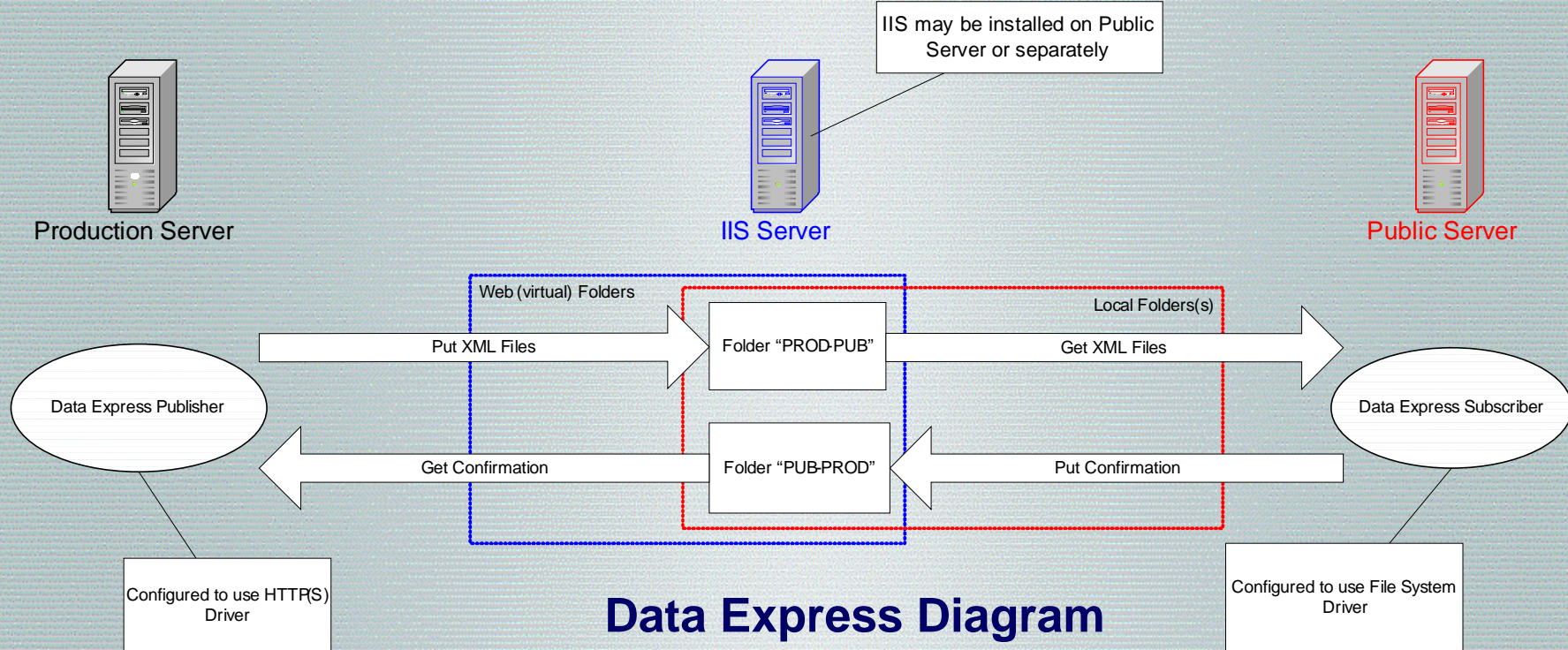
# Case Studies - Spotsylvania County, VA

## Architecture



# Case Studies - Spotsylvania County, VA

- § Remote Backup and/or “Mirror” Storage
- § Microfilm production shop (Archive)
- § Clearinghouses for bulk data redistribution (portals) and data mining
- § ERX – E-Filing – 30 second recording.



**Data Express Diagram**

# Case Studies - Spotsylvania County, VA

## Intranet Access

§100+ intranet users daily,  
§12 million records,  
§750 transactions daily,  
and  
§40+ years of data.

The screenshot displays the ILS LTO Public Access web application. The main window shows search results for 'Land Records' with a table listing various entities and their suffixes. A secondary window displays a document titled 'Instrument #200100001 (1)' with a 'Not logged in' status. The document content includes a deed recording date of July 1, 1980, and lists parties such as JE JAMERSON & SONS INC, MINI STORAGE LLC, JAMERSON, J E, INC, FOUR SIXTY MINI STORAGE LLC, NUCLEAR POWER FEDERAL CREDIT UNION, HUNTER, E BRETT, HUNTER, E BRETT, CORINTHIAN MORTGAGE CORP, GALLIER, JAMES W, GALLIER, KELLIE E, BANK OF AMERICA NA, HARRIS, JAMES T, HARRIS, JAMES T, and HARRIS, JULIE A. The document also contains a 'WITNESSETH' section and a 'Page 1 of 2' indicator.

Party	Suffix
JE JAMERSON & SONS INC	
MINI STORAGE LLC	
JAMERSON, J E	INC
FOUR SIXTY MINI STORAGE LLC	
NUCLEAR POWER FEDERAL CREDIT UNION	
HUNTER, E BRETT	
HUNTER, E BRETT	
CORINTHIAN MORTGAGE CORP	
GALLIER, JAMES W	
GALLIER, KELLIE E	
BANK OF AMERICA NA	
HARRIS, JAMES T	
HARRIS, JAMES T	
HARRIS, JULIE A	M

# Case Studies - Spotsylvania County, VA

## Data Replication

§ Live to internet  
Every 3 minutes.

The screenshot shows the 'DataExpress Admin Utility' interface. The 'Activity Monitor' window is active, displaying a table of items processed by DE. The table has columns for ID, Entity, Item\_UID, Item\_Desc, ErrorText, Datastorage, and Transport. The first row is highlighted in blue.

ID	Entity	Item_UID	Item_Desc	ErrorText	Datastorage	Transport
1120	164	43148	200400003335	item confirmed by Transport	VLR PRODDataStor	VLR DATA tra
1119	164	43148	200400003335	item confirmed by Transport	VLR PRODDataStor	VLR DATA tra
1118	164	43147	200400003334	item confirmed by Transport	VLR PRODDataStor	VLR DATA tra
1117	164	43147	200400003334	item confirmed by Transport	VLR PRODDataStor	VLR DATA tra
1116	168	13582	200400004281	item confirmed by Transport	VLR PRODDataStor	VLR DATA tra
1115	167	3488	200400001225	item confirmed by Transport	VLR PRODDataStor	VLR DATA tra

Below the table, there is a 'Retry' button and a 'Close' button. The 'Auto Refresh' checkbox is checked. The 'DataExpress Admin Utility' window also shows 'Database Settings' with 'DE Database: LRSNA..DataExpressVLR' and a 'Start' button.

# Case Studies - Spotsylvania County, VA

## Web Access

- § See the parcel on map,
- § Review parcel information,
- § Simple map view functions,
- § See all registry data,
- § Fee based subscription,
- § Royalty Sharing, and
- § 'One stop shop'.

ODE	NAME	ADDRESS	LOCATION	CITY	STATE	ZIP_CODE	CLASS	ACREAGE	LAND_VALUE	VALUE_DEF	BLD
BICKSLER	NANCY L ET ALS	%NANCY TOY	8071 MELBOURNE AVENUE	DEALE	MD	20751	5	37.5000	30830.00	0.00	40

# Case Studies - Spotsylvania County, VA

## Cover Sheet Agent – E –Filing Level 1

§ Authorized Access  
per subscription

§ Set personal profile (save  
processed data and define  
default fields values)

§ Generate Cover Sheet

The screenshot shows a web browser window displaying the 'Personal Page' of the ILS Cover Sheet Agent. The page features a navigation menu on the left with options like 'Home', 'Company Profile', 'Software Downloads', and 'Virginia Cover Sheet'. The main content area includes a welcome message, a 'Launch CSA' button, and user information such as 'User Agent: Mozilla/5.0 (Windows; U; MSIE 3.0; Win16; NT x86; NET CLR: 1.1.4322)' and 'Source IP: 193.47.230.40'. The footer contains copyright information and links to 'Privacy Policy' and 'Terms of Service'.



# Case Studies - Spotsylvania County, VA

## Cover Sheet Agent for Commercial/Public Use

### § Parcel Reference Screen

Coversheet Online [yas] - Microsoft Internet Explorer

Title Grantors Grantees Parcels Database

445983478122, 5435342342, Albemarle County, 0, House, 1-st street, Quebec, 123, 123, 12

New Del

Prior Instr. Recorded At  City  County Albemarle County Perc. in this Juris. (%) 0

Book 123 Page 123 Instrument Number 12

Parcel ID (PID) 445983478122

Tax Map Number 5435342342

Short Property Description 1 House

Short Property Description 2

Address (Address 1) 1-st street

Address (Address 2)

Address (City, State, Zip) Quebec

Retrieved 5 Coversheets

Done Internet

### § Verification Screen

Validate Coversheet

This Coversheet is not filled properly:

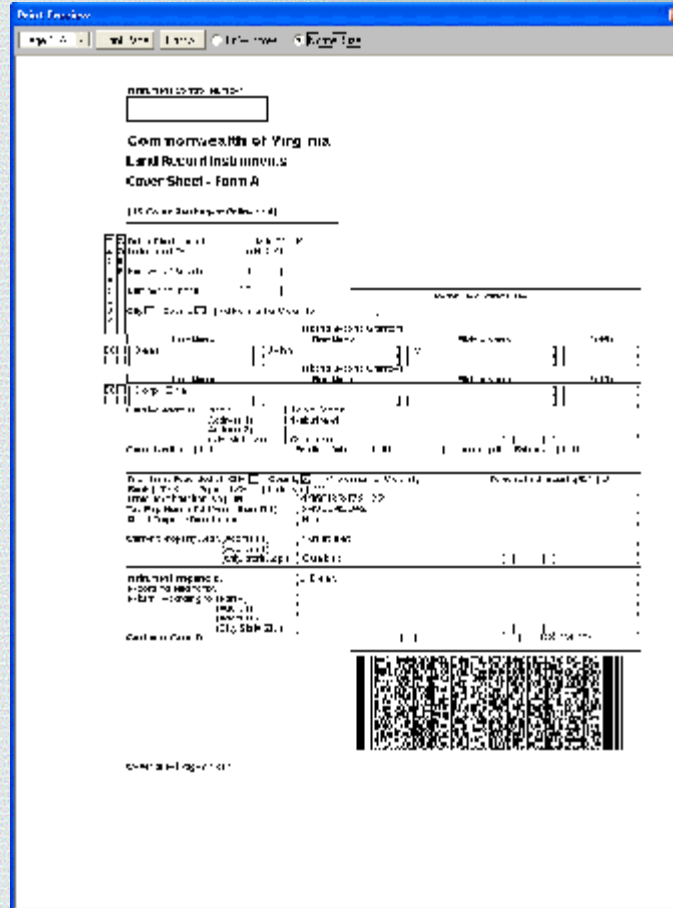
- Grantee State has not been entered (warning)
- Grantee Zip has not been entered (warning)
- Recording Paid For By has not been entered (warning)
- Return Name has not been entered (warning)
- Return Address has not been entered (warning)
- Return City has not been entered (warning)
- Return State has not been entered (warning)
- Return Zip has not been entered (warning)
- Parcel 1: State has not been entered (warning)
- Parcel 1: Zip has not been entered (warning)

Print anyway Cancel

# Case Studies - Spotsylvania County, VA

## Cover Sheet Agent - Output

- § Printout Preview
- § 2D Barcode Data Coding



# Thank you



International Land Systems (ILS), Inc.

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