FRIDAY, 25 AUGUST 2017

Nationa Spata Panning Data Repository



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NSPDR Ecosystem the problem statement

- South Africa does not have a central repository that utilises data for spatial planning, monitoring and evaluation, and/or coordinating purposes.
- Currently, most departments have **standalone databases** and tools that are being used for planning and reporting purposes.
- Many of these **do not** have **integrated spatial referencing** and some departments rely only on spreadsheets to manage their planning and business processes.
- Information is not readily accessible to the relevant users and planning is often done in isolation, without taking cognisance of associated needs and impacts from other services.



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NSPDR Ecosystem the ever increasing urgency

- SPLUMA implementation requires that national, provincial and local spheres of government are required to **develop spatial plans every five years**.
- Also, there is a requirement that municipalities must develop wall to wall land use schemes within 5 years of SPLUMA being implemented.
- SPLUMA came into operation on **01 July 2015**.
- So, by 31 June 2020 all municipalities must have wall to wall land use schemes.







NSPDR Ecosystem the ecosystem in a nutshell

A digital ecosystem for national spatial planning that will enable sharing of spatial planning information and data across all spheres of government and will support key objectives of the SPLUMA and the NDP...



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NSPDR Ecosystem enabling SPLUMA

- The system will facilitate access to spatial information such as demographic, environmental, general infrastructure, cadastre data that is required for integrated spatial planning when developing SDFs and land use schemes.
- E-Lodgement capability to assist with development applications process.
- Enable horizontal and vertical alignment of spatial plans.
- o Enable spatial budgeting and spending.
- Access to offline spatial information for remote municipalities.



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NSPDR Ecosystem project objectives

- Improve integrated planning by creating an ecosystem for real-time sharing of spatial data among various spheres of government, state owned entities and the private sector.
- Remove subjectivity from the planning functions, and move towards an evidence-based approach.
- To develop mechanisms that will facilitate effective and efficient collaboration amongst government/sector departments to foster alignment of their programs, budgets and processes.







NSPDR Ecosystem the portal for ArcGIS



Home Gallery Map Stane Groups MyContent MyOrganization



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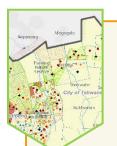
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NSPDR Ecosystem features of the ecosystem



Reference Web Map

- Interactive with Print function
- Add data from Portal / external sources
- Online Analytical Tools and Queries
- Flexible to meet departmental and user needs
- Capacity enhancement to core DRDLR GIS team



Geoprocessing Tools - Ability to extract location-specific data

- Various formats to suit user needs
- Download extracted data (avail. offline)
- Data automatically emailed as compressed file
- Expose additional geoprocessing tools to meet department and user needs



- Upload spatial data
- Acts, Bylaws and other Documents
- LUMS Applications



Dashboards

- Reporting
- Status of Provinces
- Accessible online
- SPLUMA implementation & compliance
- Interactive Web app



Live Traffic Feed

- Interactive
- Transport Planners
- Impact of traffic
- Add traffic data to reference map or other Web mapping applications

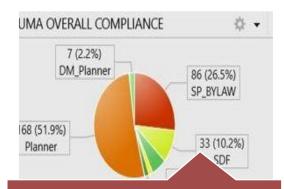








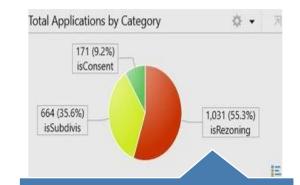
NSPDR Ecosystem dashboards for M&E



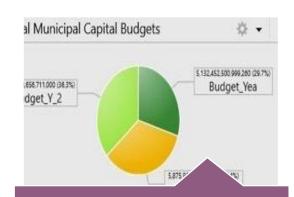
Data from the E-Lodgement tool will provide meaningful information around the development applications



Will help evaluate the efficiency of development application process



Will help track the different types of development applications in specific municipalities



Treasury dashboard monitors key SPLUMA principle related to spatial justice, budgetary spending spatially







NSPDR Ecosystem datasets available (custodians/vendors)









NSPDR Ecosystem challenges regarding spatial data

- Establishing who are the data custodians of required datasets
- Getting the data in the **appropriate format**
- Lack of data **standards** or adherence of set standards
- o Lack of metadata
- Lack of **cooperation** from data custodian
- Assumption that identified data custodians have the data
- The lack of **availability of data** or suitable data from smaller municipalities without sufficient capacity



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NSPDR Ecosystem data sharing partnerships

- The spirit of the Ecosystem, facilitated by the Spatial Data Partnership <u>Protocol</u>, is one of data sharing and intergovernmental cooperation in support of improved spatial planning and service delivery.
- Partnerships with the Ecosystem will result in data custodians/vendors having access to key national datasets and information contributions from multiple participants.
- Roles and responsibilities of data custodians/vendors in managing and maintaining datasets are articulated in the *Protocol*.
- The *Protocol* is **anchored in** terms of section 35(1) of the **Intergovernmental Relations Framework** Act, and is guided by the PAIA and SDI Act respectively.









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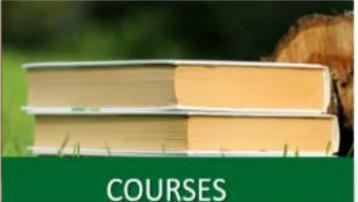
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NSPDR Ecosystem the e-learning platform

- The NSPDR E-Learning Web Portal is a friendly online learning tool within everyone's reach.
- The portal is **dedicated to help** create and achieve a learning environment that **appeals to all learning levels** where the learner can **confidently understand** the training material presented on the platform.
- It allows the learner to acquire skills faster, retain knowledge longer and apply their newly gained skills to the real world.
- Below are some of the **key features** of the E-Learning training platform:
 - *MI Dashboard* graphical representation of training performance
 - Courses access to interactive courses with multimedia support
 - Assessment test your knowledge with the assessment module
 - E-Survey give feedback on your training experience



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NSPDR Ecosystem targeted end-users

- Municipal senior management
- Municipal spatial **planning professionals**
- Municipal land use management professionals
- National, provincial and municipal GIS professionals
- National and provincial senior management responsible for **M&E**
- Contributors and users within the public, private and academic sectors







NSPDR Ecosystem next steps for the project

Continue to engage and onboard stakeholders Nationwide marketing campaign to maximise data custodian participation User acceptance testing of the Ecosystem and E-Leaming portal

Complete deployment of the NSPDR Ecosystem for the DRDLR Postdevelopment maintenance, support and training



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ELECTRONIC LODGEMENT OF LAND DEVELOPMENT APPLICATIONS

E-Lodgement



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NSPDR E-Lodgement the problem statement

- Currently many municipalities utilise **manual methods** to process land developments applications.
- These systems are often **not integrated** with broader land use management issues as to yield optimal results.
- These lead to **undue delays** regarding processing time, **haphazard approvals** or dismissals and **incorrect land uses** being allocated to a particular piece of land.



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NSPDR E-Lodgement electronic lodgement of dev. applications

- NSPDR will include a facility that enables municipalities to receive, consider and process land development applications:-E-Lodgement
- E-Lodgement seeks to address the absence of automated system that can assist municipalities with processing of land development applications.
- The intention is to develop and deliver a facility for the electronic lodgement, assessment and consideration of applications through a secure portal with an automated internal workflow.





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NSPDR E-Lodgement top seven benefits of e-lodgement

- 1. Application is fully **SPLUMA compliant**
- 2. Moving away from paper-based systems
- 3. Tracking application progress and status
- 4. Stores all documentation in a **central repository**
- 5. **Displays GIS-based location** and status of applications
- 6. Available on multiple platforms (PC, tablet, mobile)
- 7. Monitoring and evaluation of data in dashboards







NSPDR E-Lodgement the ultimate objective

THE APPLICATION'S MAIN OBJECTIVE

 Is to honour the DRDLR's responsibility in terms of SPLUMA and fully automate the land development application process.



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NSPDR E-Lodgement development application phases

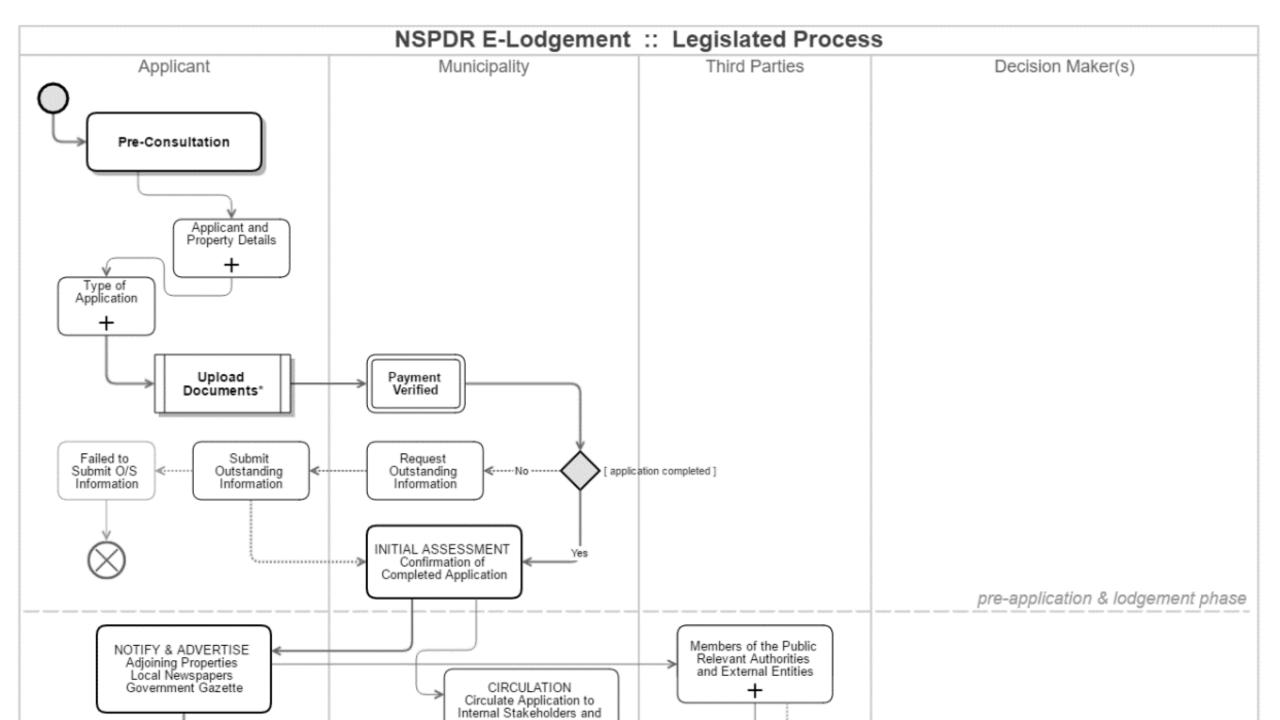
In terms of section 16(2) of the SPLUMA Regulations, a land development application will be subjected to what is termed –

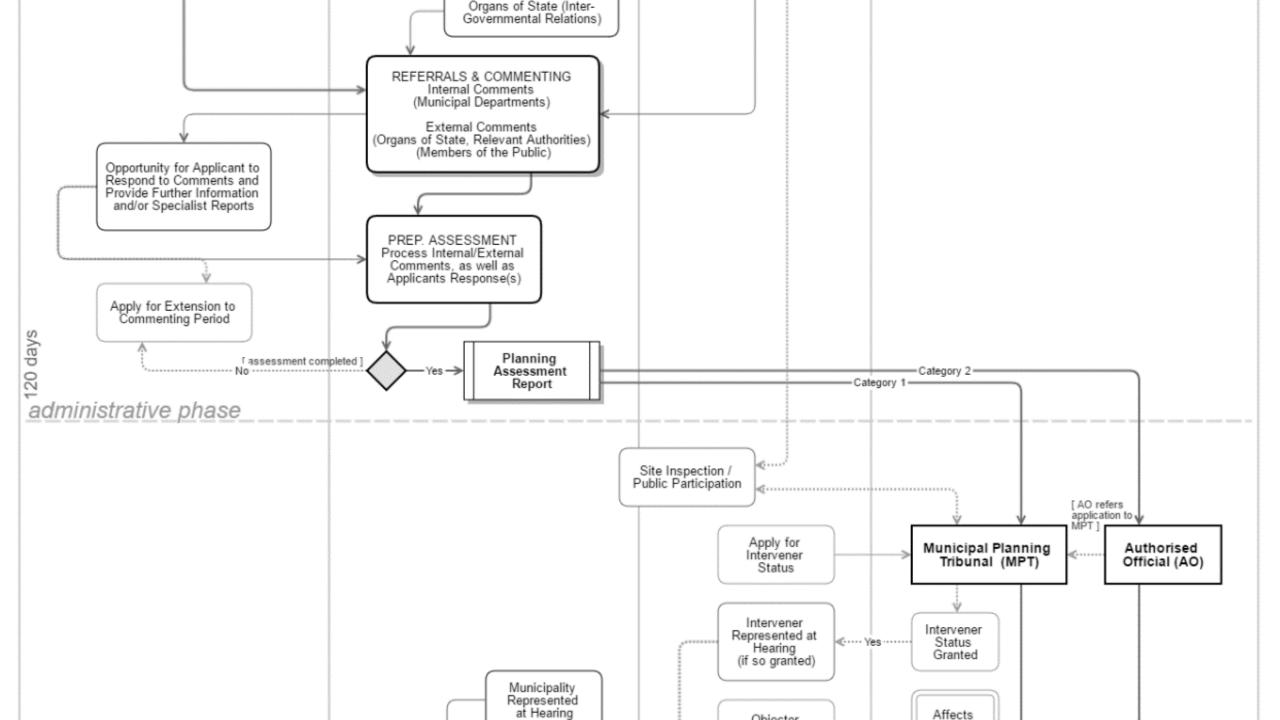
- an **administrative** phase;
- a **consideration** phase; and
- a decision phase.

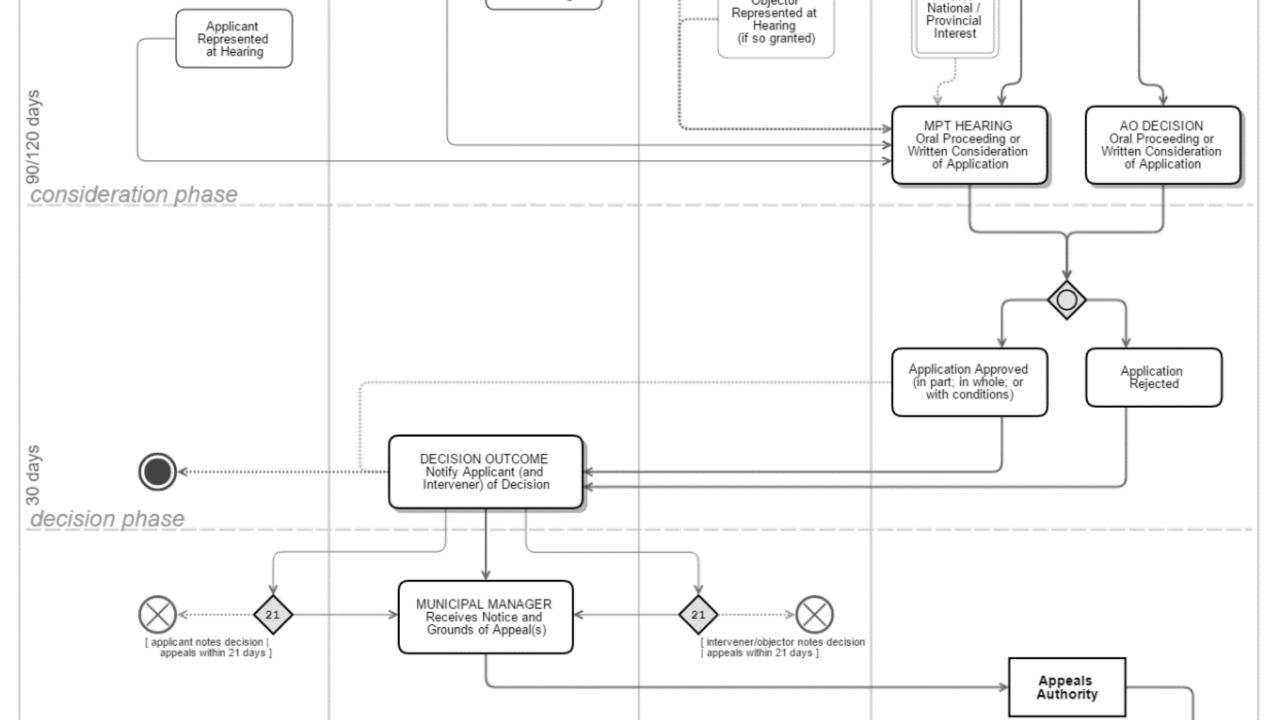


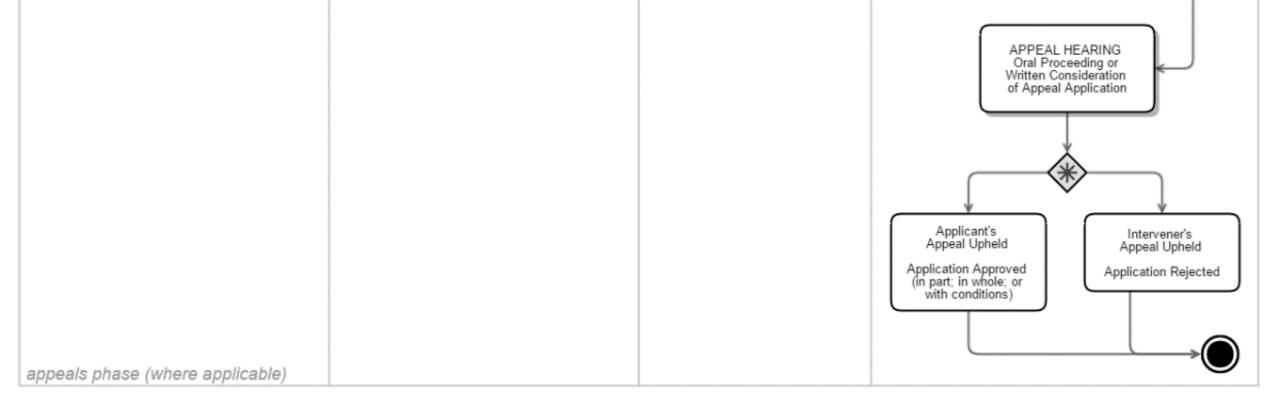
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NSPDR E-Lodgement pre-consultation / account setup

- This will be a public facing portal where applicants can register as users.
- This is an action taken by applicants ahead of E-Lodgement.
- Users will have access to municipal-specific documents.
- Municipal officials will manage their public profile (notify recipients of new applications, manage documents and so on.)



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NSPDR E-Lodgement create application – applicant details

Create Application (Ap	oplication ID: 1)	Type of Appli	icant: 🗹 Individua	al 📋 Legal Entity	C Othe
Description of applicati	On This application is a rezo	ning application			
		Applicant Details			
First Name(s)		Surname			
ID Number		Company Registration Number			
Company Name		Representative			
Street Address		Postal Address			
Email					
Contact Details					
Land Line		Home Tel.			
Cell		Fax			
Cancel			Save	Back	Next







NSPDR E-Lodgement property details

Duration of the second s						
Property 1 Property 2						
Select Additiona	l Property					
ErfNo						
SG Code			Allotment	i È		
SG Code			Allothent	2		
Farm Name			Farm No			
Street Address			Ward Number			
			Zoning			
		ingle Residentia	I Zones	>		
		-	ang sakar pang a		2	
mer 1 Owner 2						
			Owners Details			
			Owners Details			
Title	[Select]		~	Initial		
First Name(s)			Su	urname		
ID Number			Company Registration Nu			
Company Name			Represe	ntative		
						Add Owner



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NSPDR E-Lodgement view application status

View Appl	ication		
Applicant Details Att	adments Property Details		
Type of Applicant:	🗌 Individual 🛛 🗹 Legal Entity 🔲 Other		
		Applicant Details	
Application status	Creating		
First Name(s)	John	Surname	Soup
ID Number	6505081155082	Company Registration Number	3365 / 365 / 225 / 25
Company Name	AA Development	Representative	Propert Developer
Street Address	4 Crus	Postal Address	P.O. Box 123, Midrand, 0000
Email	johnsoutp@aadevelopment.com		
Work	011 555 8899	Home	012 356 9889
Cell	087 985 6565	Fax	012 356 9845
Cancel			Save
Calico			



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NSPDR

NSPDR E-Lodgement managing the application process

- This will be a public-facing portal.
- The steps followed here are completed by municipal officials.
- Each municipality will deal with applications lodged for their region.
- Applicants can view the status of their application based on the process.

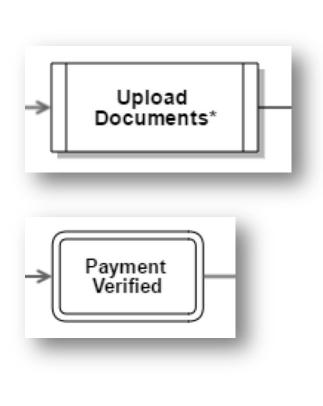


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NSPDR E-Lodgement upload documents (from the public viewer)



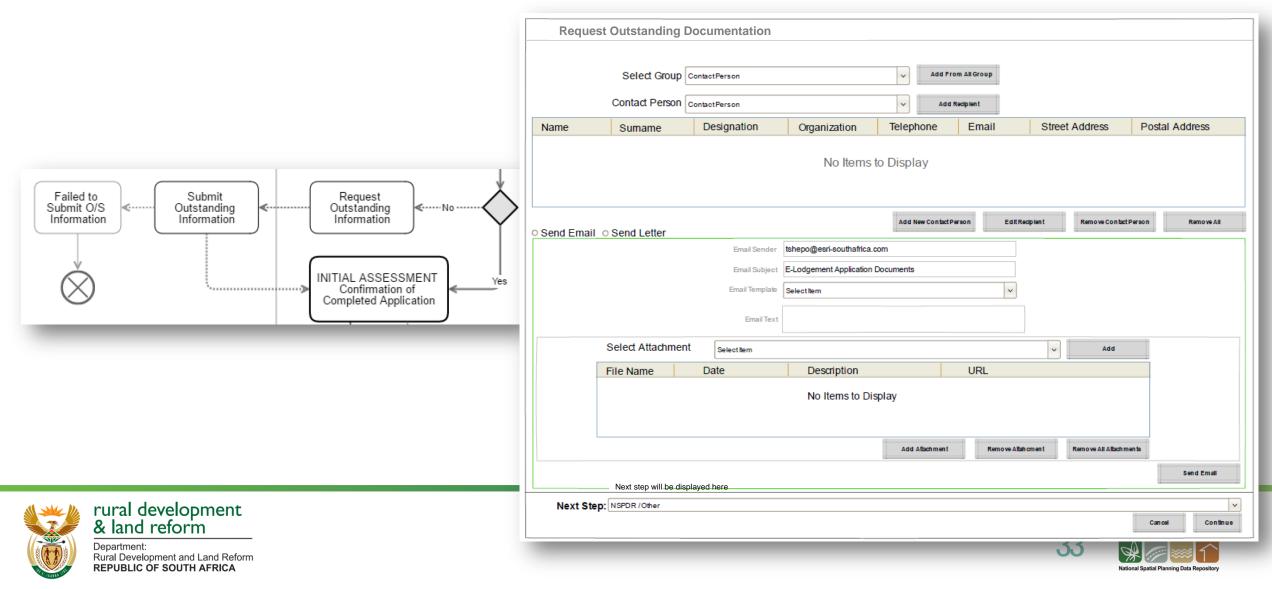
le Name	Date	Description	URL	Required Documents
ceipt of Payment	18/07/2017	Proof Payment	Link	Receipt of Payment
				Power of Attorney
				EIA executive
				🗆 Site Plan
				List of Adjoining Owners



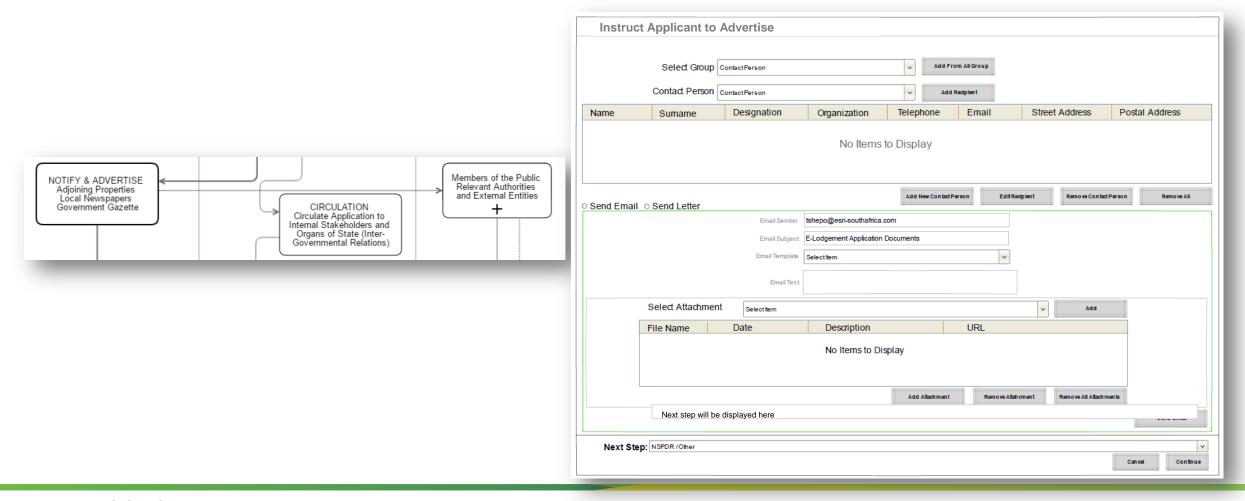
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NSPDR E-Lodgement request outstanding documentation



NSPDR E-Lodgement instruct applicant to advertise



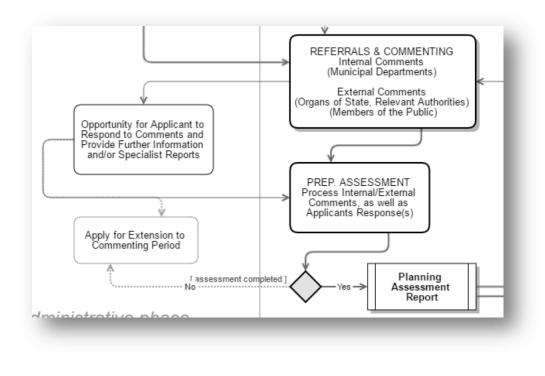


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NSPDR E-Lodgement referrals and commenting: receive internal comments



	ContactPerson		~		
Selea Gloup	Comactrerson		•		
Related Contacts	ContactPerson		~ AI	dd Recipient	
Name	Tshepo	S	umame	Bambi	
Telephone	0322232020		Email	tshepobambi@org.com	
Street Address	34 Thapelo Avenue, Earth		Address	P.O Box 123, 0000	
Organization	Tshepo Org	Desig	nation	Centurion	
ttachments:					
File Name	Date	Description	1	URL	
		No Items to Displ	ay		
			-		
			A	Add Attachment Remove Attachment	Remove All Attachments

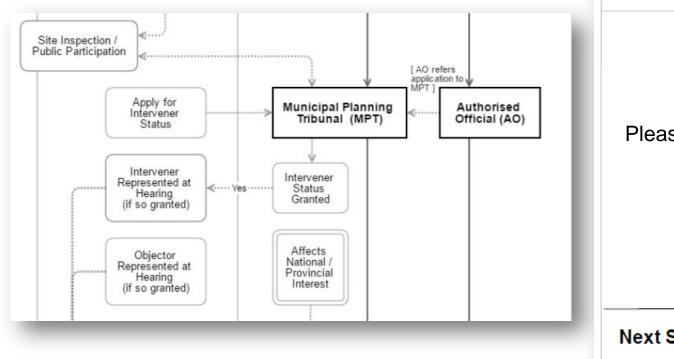




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NSPDR E-Lodgement has the intervener status been granted?



Has the Intervener Status been granted?

Please select your next step based on whether intervener status has been granted

Next Step:	Yes	~
	No	
	Cancer Contaile	

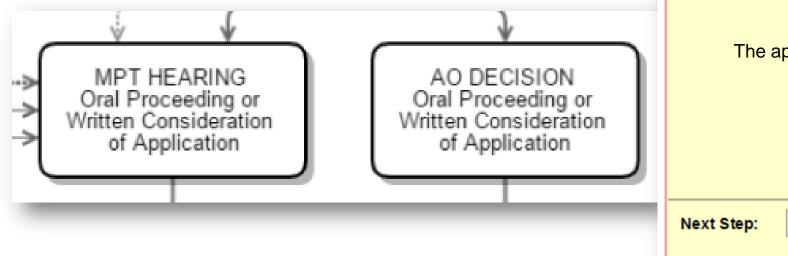


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NSPDR E-Lodgement MPT hearing or, oral proceedings or, written consideration of the application



MPT Hearing, or, Oral Proceedings, or, Written **Consideration of the application** The application is under consideration Next step will be displayed here Contine Can cel

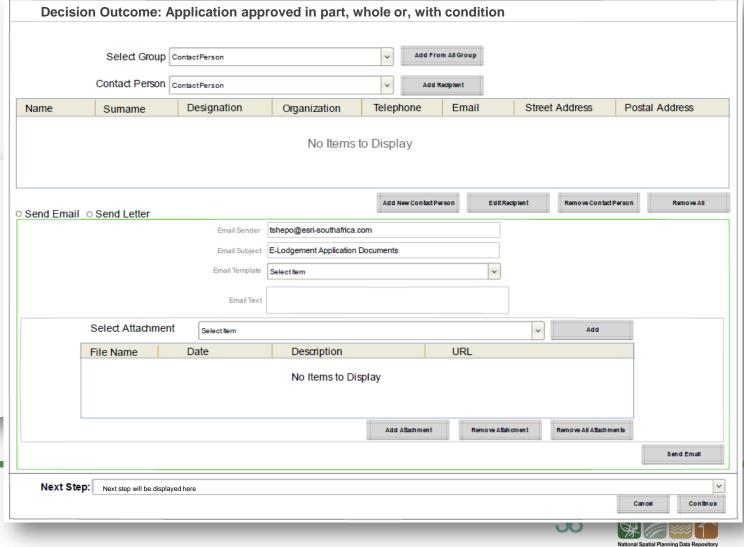




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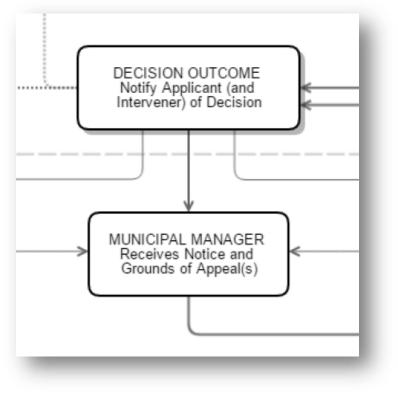
NSPDR E-Lodgement decision outcome: application approved in part, in whole or with conditions



Application Approved (in part; in whole; or with conditions) Application Rejected



NSPDR E-Lodgement decision outcome: decision of application?





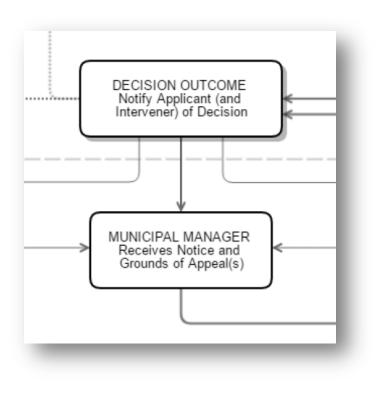




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NSPDR E-Lodgement appeal received: send to municipal manager



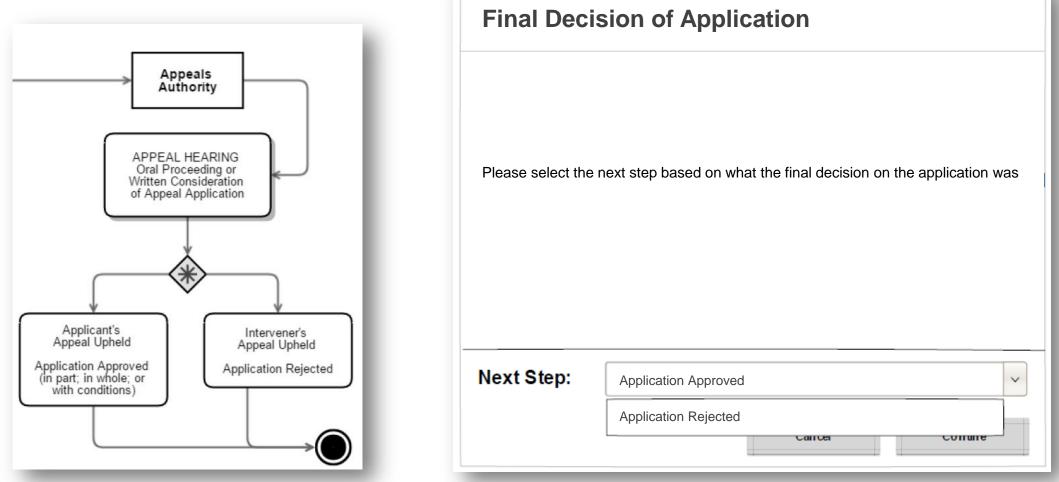
e note that the Docum	nents will be	filled in from E-Lodgeme	ent screens: als	so note the screen na	ame changing		
		nd to Municipal					
			inanagoi				
Select Gro	up Contact	Person		~			
Related Conta	acts Contac	tPerson		~ A	dd Recipient		
Nar	me Tshepo			Sumame	Bambi		
Telepho	one 032223	0322232020		Email	tshepobambi@org.com		
Street Addre	ess ³⁴ Thap	elo Avenue, Earth		Postal Address	P.O Box 123, 0000	I	
Organizatio	ON Tshepo	Org		Designation	Centurion		
Attachments:							
File Name		Date	De	escription		URL	
			No Item:	s to Display			
				1	Add Attachment	Remove Attachment	Remove All Attachments
Next Step: Ne	xt step will be	displayed here					~
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NSPDR E-Lodgement final decision of application









NSPDR E-Lodgement in conclusion and wrapping up

- The NSPDR E-Lodgement is a **web-based application** that handles all land development applications electronically.
- It is built on a **workflow** that **follows** the **application process** of a land use or spatial development application **step-by-step**.
- The workflow **supports** Spatial Planning and Land Use Management Act (**SPLUMA**) compliancy.
- The **electronic management** of applications **enables** the move away from paper-based systems so that **progress** can be easily monitored.
- All documentation that has been attached to an application, is stored in a central repository.
- All modules leverage Esri ArcGIS software which is the industry standard at most





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THANK YOU!

Jonathan Cleary

Project Manager Esri / Agizo JV