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National Land Cadastre in Mozambique

SiGIT as a lever to success

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ORDEM
DOS
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FIG COMISSÃO 7 ANNUAL MEETING

GEOCONFERENCE ON CADASTRE 4.0
TRANSPARENCY, PARTICIPATION, COLLABORATION

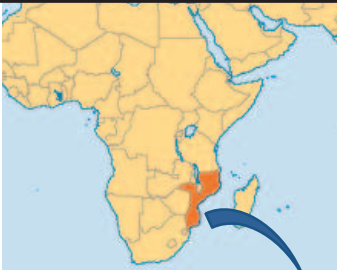


24-28 OCTOBER 2016 | COIMBRA, PORTUGAL



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MOZAMBIQUE

- Mozambique is located on the south eastern part of the African Continent
- Territory > than 800 000 km² in 11 provinces
- Population of about 24 million
- Different cultures, languages and customary practices throughout the country



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Mozambique Land Context

- **Pressure** on the **land** is increasing considerably;
- 90% of the land is estimated to be used under unregistered **good-faith occupations** and **customary tenure arrangements**;
- Government defined **appropriate legislation**, promoting **land tenure regularization** and **gender equity**;
- For the past 4 years, Government invested in the implementation of a LIMS – **SiGIT** that promotes LTR and community delimitations;
- Currently defined “**Terra Segura**” program aimed at registering **5 million parcels** and delimitating **4 thousand communities**, and creating the **Land National Cadastre**.



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National Land Cadastre Purpose

The **National Land Cadastre** was legislated in the Land Law as comprising all of the necessary data to allow:



- a) knowing the economic and legal situation of the land;
- b) knowing the types of occupation and land uses;
- c) assess soil fertility, existing forestry, water, fauna and flora, mining, and tourism resources;
- d) effectively manage the land: its uses, its protection and conservation;
- e) determine the proper regions for specialized productions.



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National Land Cadastre

Current Constraints

Mineral Resources



Forestry and Fauna






Land Cadastre



Conservation Areas




Property Registration



- Proliferation of Databases;
- Conflicts, overlapping of concessions and rights;
- Higher costs of data collection and management;
- Data redundancy, ambiguity, vulnerability and risk of loss;
- No sharing and no update of information;
- No integration of planning and decision making processes.

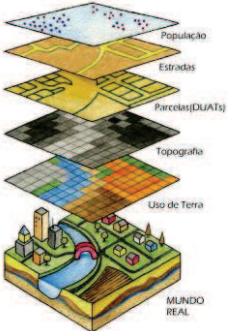





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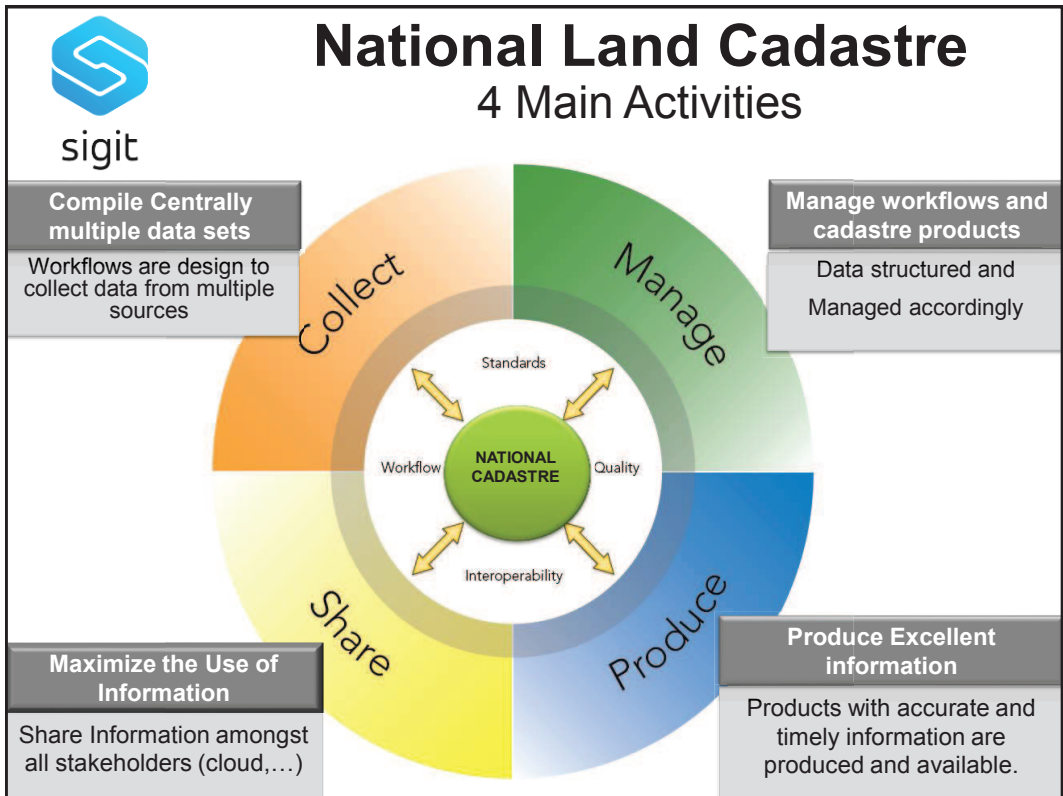
National Land Cadastre

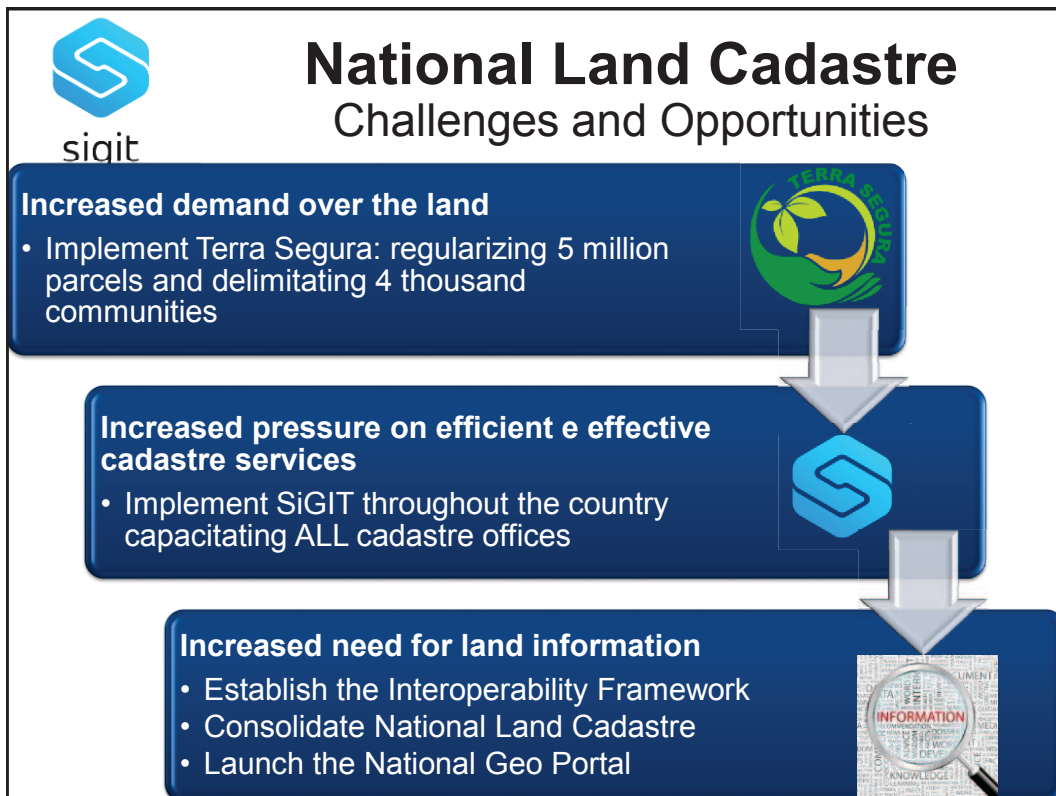
Vision



- A **Centralized Repository** of all land related data that coordinates activities of collecting, producing, managing and sharing **information**;
- a **Systemic View** of the land resource, its use and administration, amongst all stakeholders;
- A **Platform of Land Governance**, promoting integrated approaches from all intervenients in the land administration and land management processes.







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National Land Cadastre Can SiGIT be a lever?

- SiGIT application was designed and built between 2012 and 2013 under a Government program “Acesso Seguro à Terra”. LADM based.
- The implementation of SiGIT included 19 sites: DINAT in Maputo, 10 SPGC (one per province) and 8 (+2) municipalities of the northern part of Mozambique.
- In 2013 more than 170,000 land titles were issued in the 4 northern provinces of Mozambique.
- With the “Terra Segura” program, circa 300.000 parcels were collected into SiGIT in 2015/2016. Could have done so much more!

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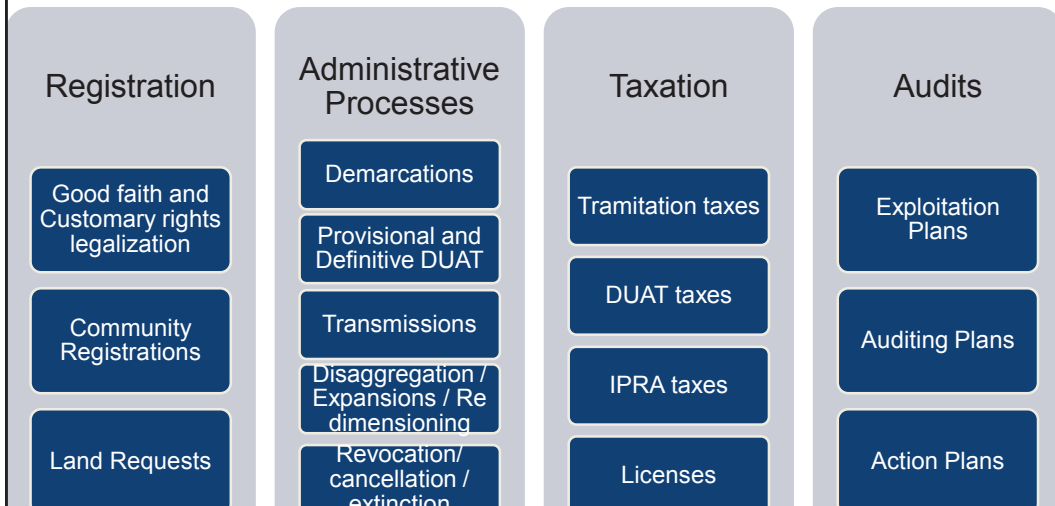


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National Land Cadastre

Can SiGIT be a lever?

- **Harmonised Working Processes:** All land administration working processes; Urban and Rural Land Administration; Based on land law and related procedures.

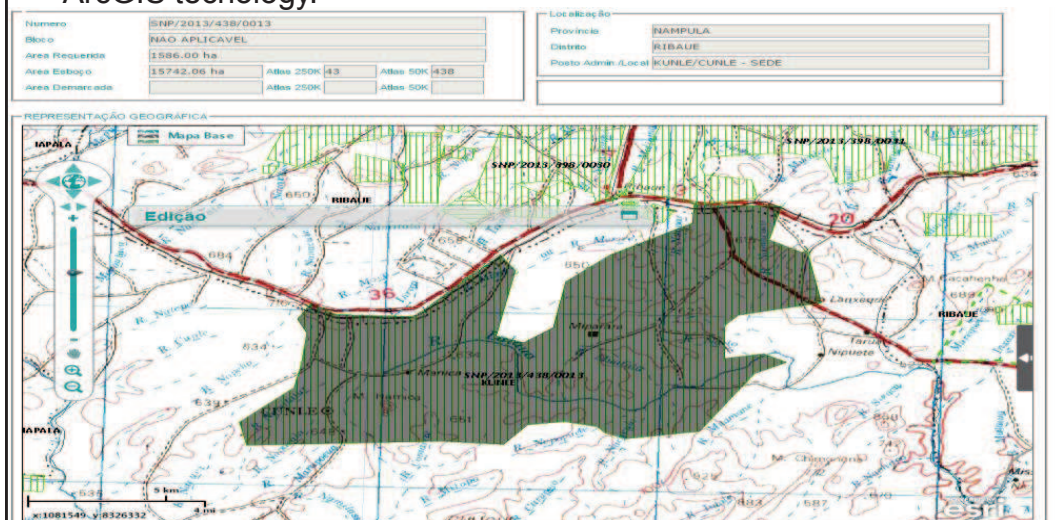


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National Land Cadastre

Can SiGIT be a lever?

- **Embedded GIS functionality within the workflow** allowing for these two aspects to coexist and facilitating the cadastre work. ESRI ArcGIS tecnologia.



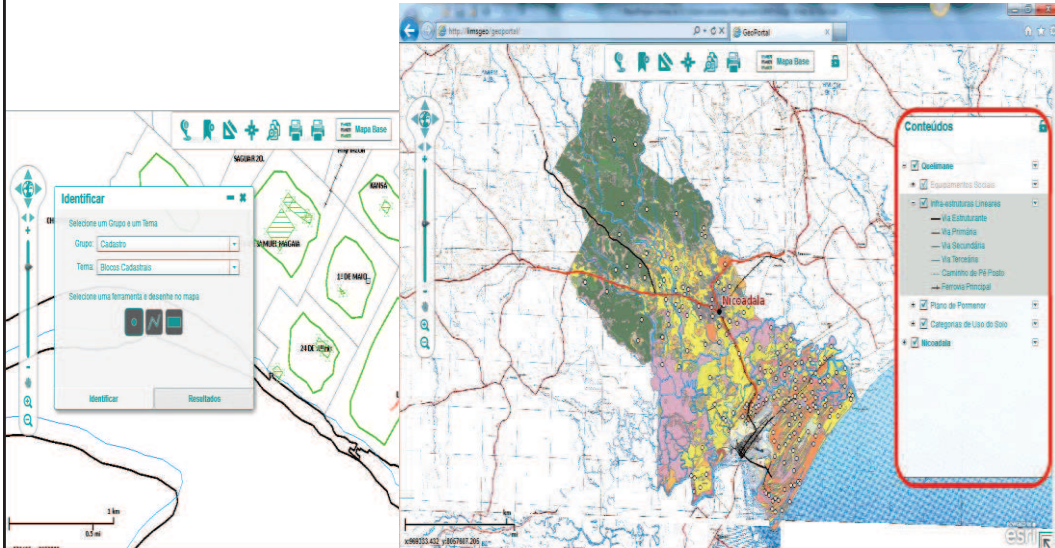


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National Land Cadastre

Can SiGIT be a lever?

- Land GeoPortal (both Public and Private portal), promoting more transparency and making available critical information.

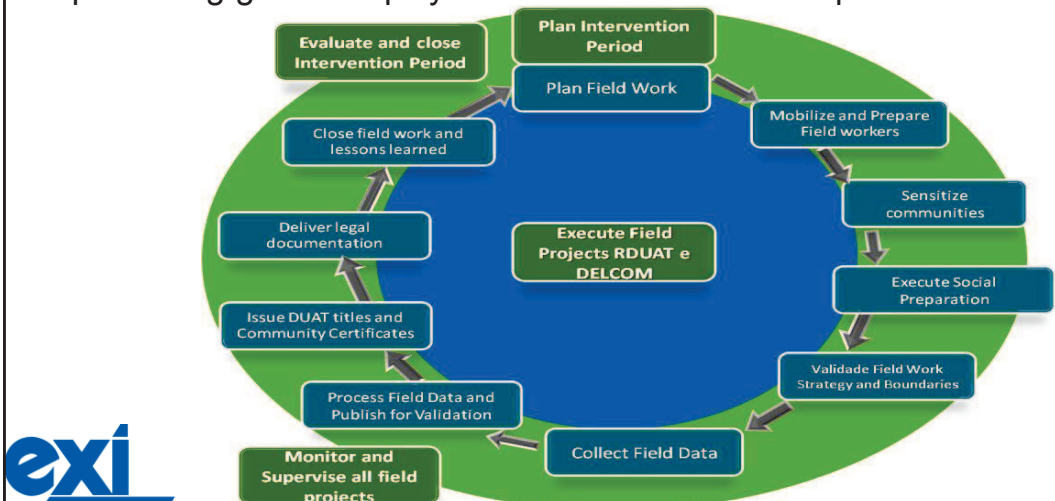


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Can SiGIT be a lever?

- With Terra Segura, specific modules for RDUAT and DELCOM were developed, aligned with the defined methodology and promoting gender equity: Mozambican Fit For Purpose



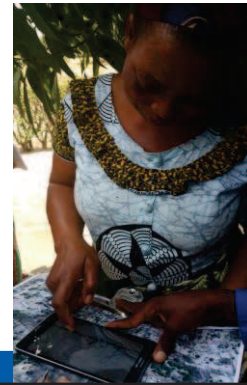
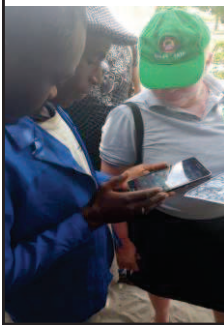


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Can SiGIT be a lever?

- A mobile application was developed
 - RDUAT and DELCOM forms (quality and time improvements)
 - GIS functionality: map drawing, coordinates acquisition
 - Can be held by community paralegals and utilized for future cadastre updates
 - Gender issues, citizen identification, minors



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National Land Cadastre

Can SiGIT be a lever?

- SiGIT creates **Community Land Dossiers** to allow communities to keep track and update all land transactions performed under customary practices.
 - Needs reforms in Legislation
 - Can benefit from Mobile application

Map showing land parcels and boundaries, with labels for various areas like SAHIBINHA, MANGABEIRA, and others. A scale bar indicates 1:10,000.

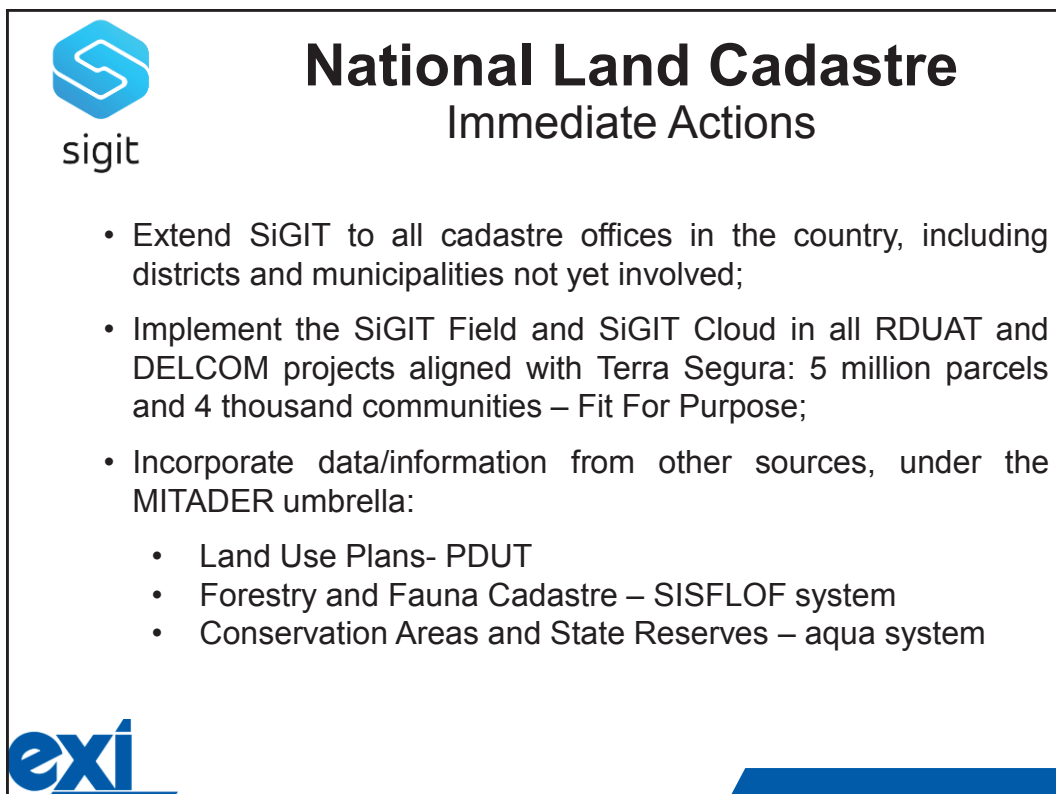
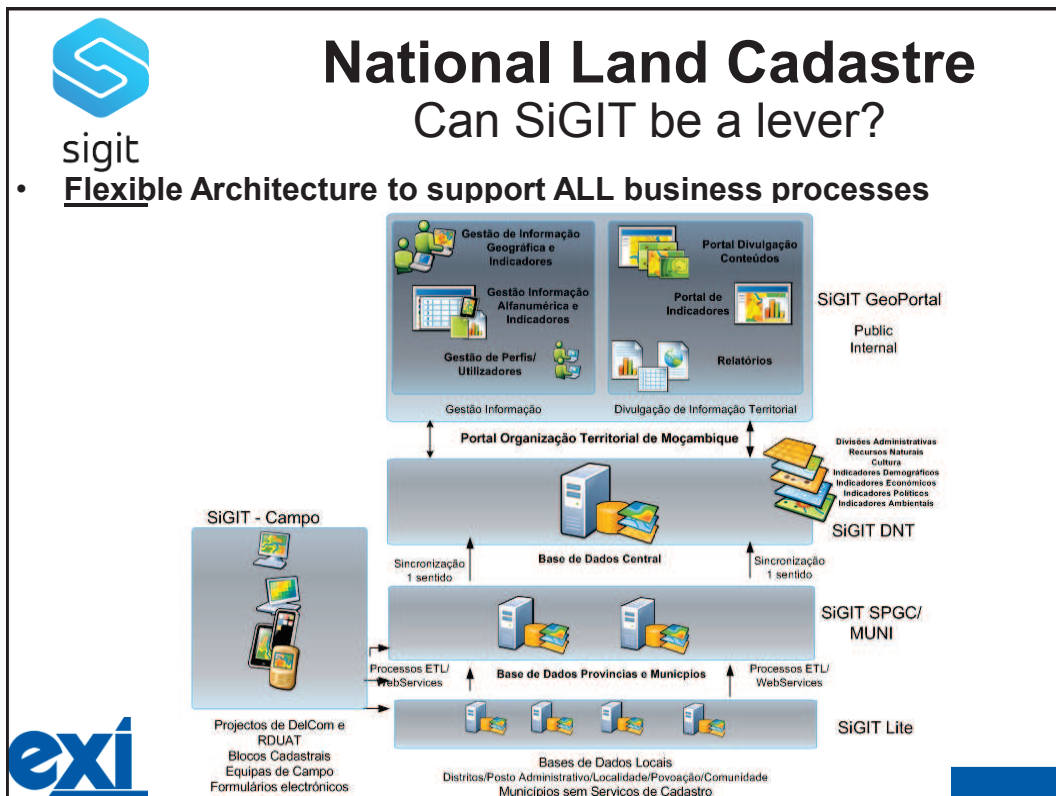
Occupações Associadas

Lista das Ocupações

BLOCO	PARCELA	DESENHADA?	Ocupante PRINCIPAL/TITULAR	DOC. IDENTIFICAÇÃO	PROCESSO	ESTADO
01	1	Sim	Mario João Cardoso	BI: 14598223023780	SZB/2013/001729	Título
01	2	Sim	ANA DA GRACA	DT: 040410846012	SZB/2013/001730	Título
01	4	Sim	BENEDITO OLIVEIRA	BI: 0302229515	SZB/2013/001731	Compartilhado

Registos Associados A este Projeto

REF.	DATA FIXAÇÃO	REF. PROPOSTA/DATA	REF. DESPACHO/DATA	REF. AUTORIZAÇÃO/DATA
201000000182	15-11-2013	201000000002 15-11-2013	201000000001 15-11-2013	201000000024 15-11-2013
		201000000003 15-11-2013	201000000002 15-11-2013	201000000025 15-11-2013





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National Land Cadastre Future Actions

- Define Interoperability Framework for all cadastres outside MITADER;
- Incorporate cadastres already in place:
 - Mining Cadastre – mineral resources;
 - Land parcels from Municipalities with a LIMS.
- Incorporate other cadastres still under construction:
 - Roads (ANE/MTC)
 - Electricity (EDM/MIREME)
 - Railways (CFM/MTC)
 - Water (MOPH/MMAIP)
 - Demographics (INE)
 - Tourism (MITUR)
 - Schools (MEC)
 - ...



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