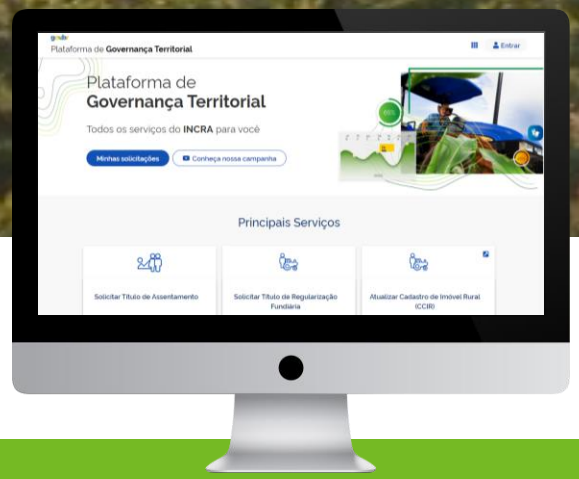
INCRA'S DIGITAL TRANSFORMATION



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Organização das Nações Unidas para a Alimentação e a Agricultura

INCRA

ABC AGÊNCIA BRASILEIRA DE COOPERAÇÃO
MINISTÉRIO DAS RELAÇÕES EXTERIORES

MINISTÉRIO DA AGRICULTURA, PECUÁRIA E ABASTECIMENTO

Territorial Governance Platform

Digital Transformation in 2 minutes.

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Digital Transformation **Impact**

+140.000.000
Hectares under Incra's management

973.500
Families settled in agrarian reform projects

300.000
potential families for land regularization

41
Advanced Units

886.635
certified parcels (SIGEF*)

3.555.983,72 km²
.

6.638.462
private and public rural properties registered(SNCR**)

29
Regional Superintendencies

*SIGEF – Land Management System – Certifies the boundaries of rural properties with precision of up to 50 cm

**SNCR – National Rural Cadastre System – promotes the systematization of the collection and treatment of data and information on land use and possession

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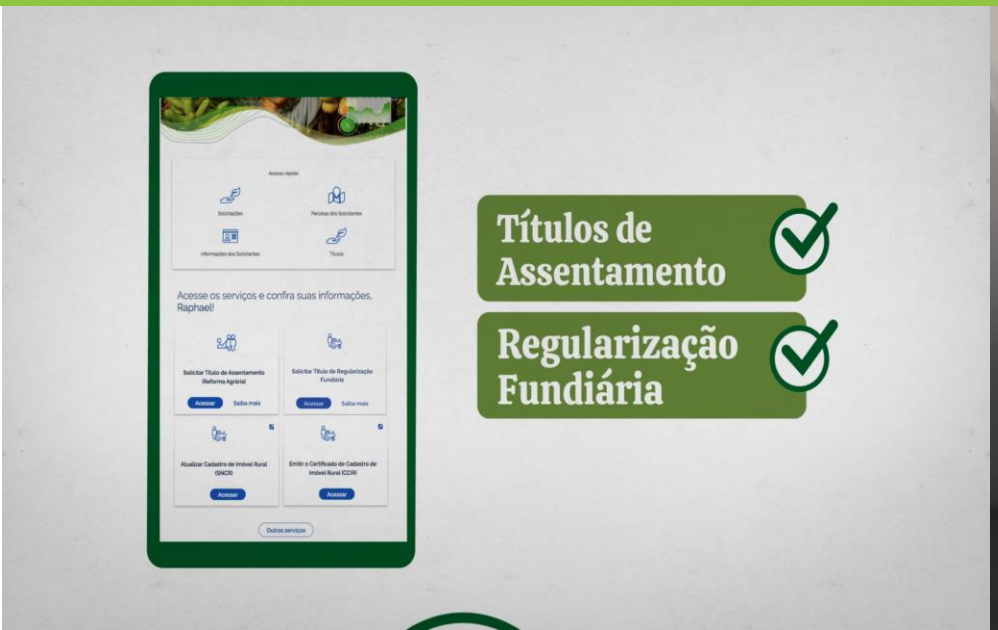
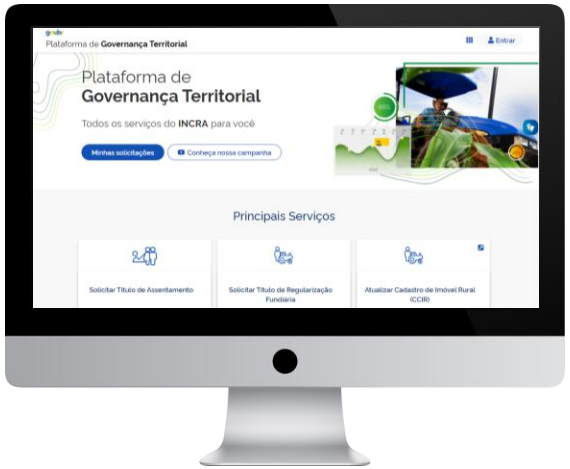
Brazilian Rural Cadastre Digital Transformation





Review Process

Conceptual and Normative Review (infralegal), based on LADM, since 2015

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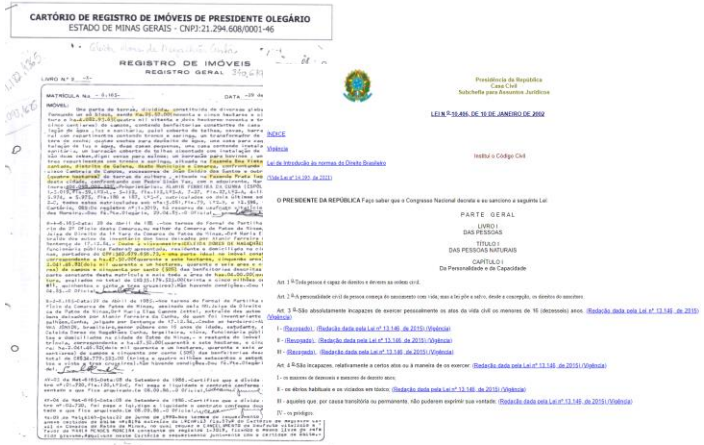
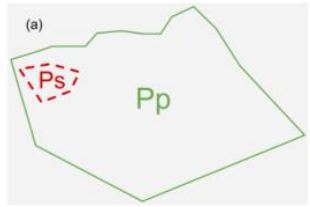
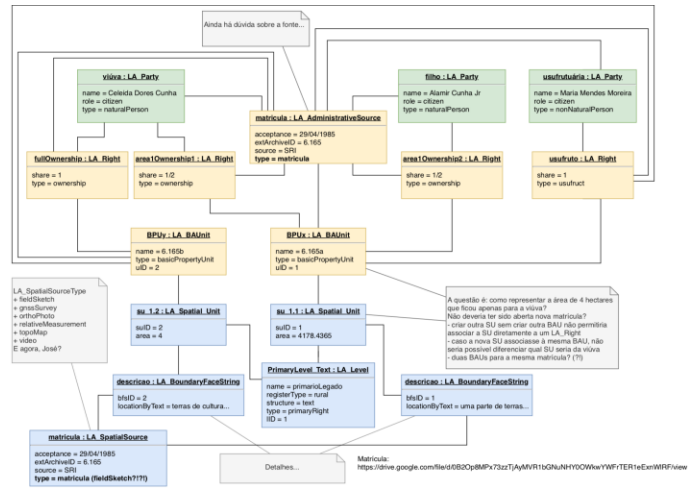
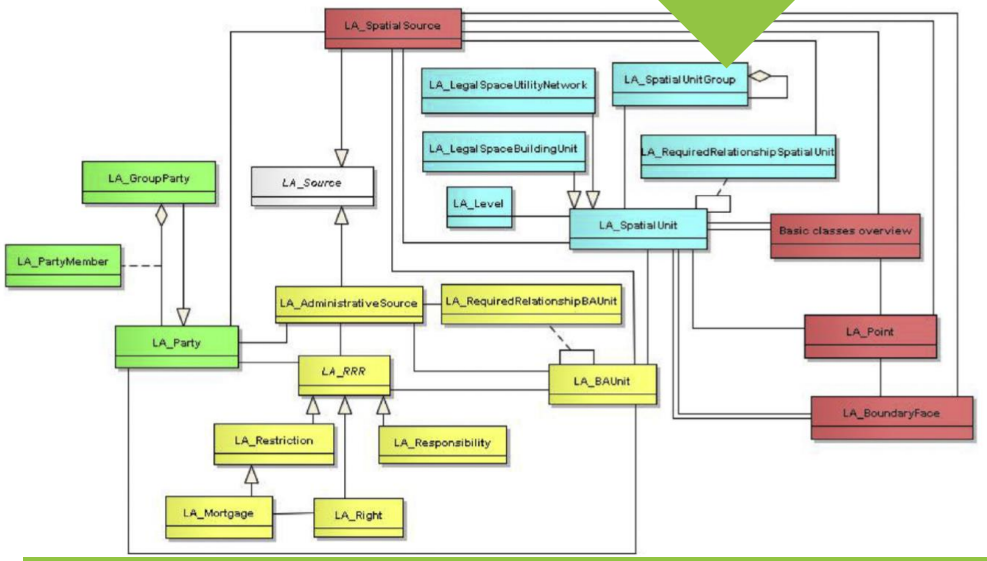


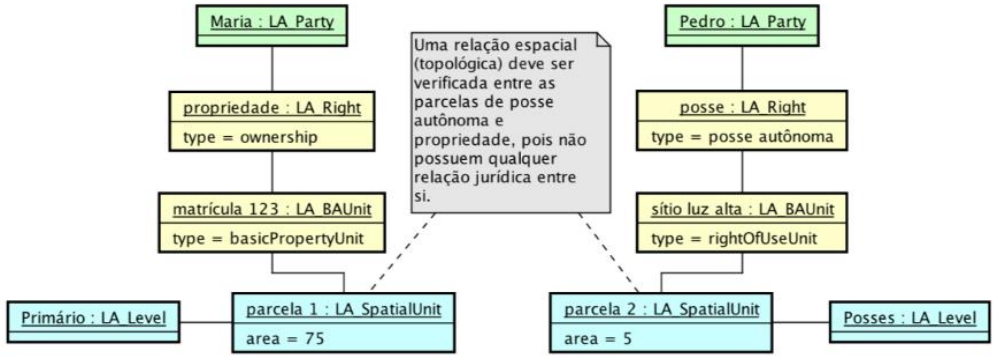
2) Brazilian Normatives







1) Conceptual Model and Standardized Language

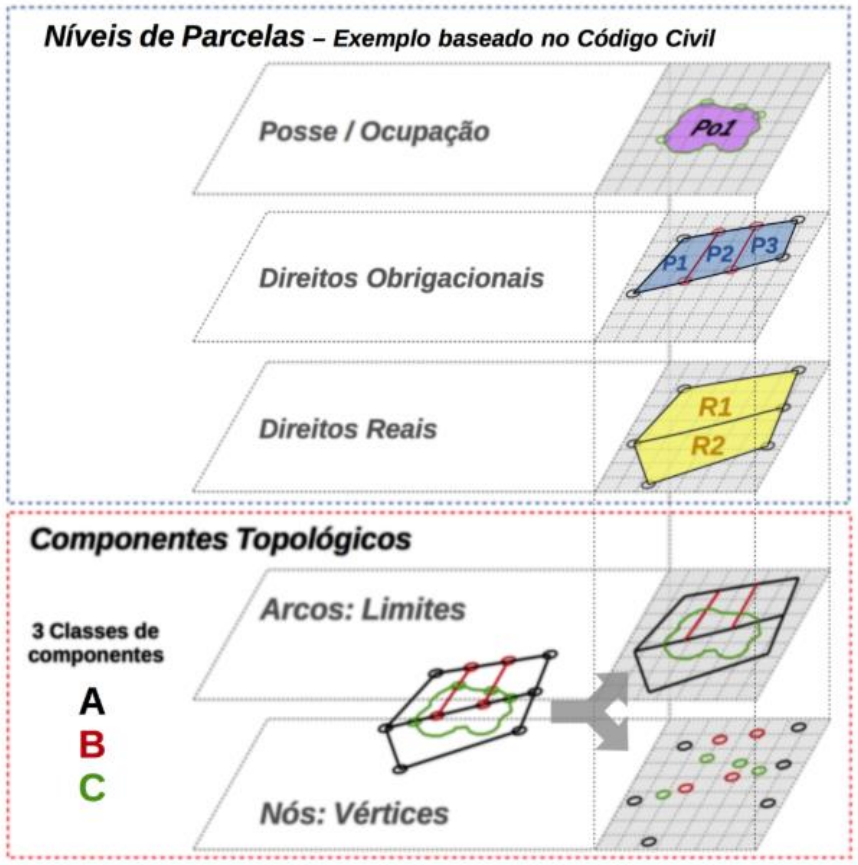


3) Model Application: (LADM_BR profile) -> Standardized Representation Capacity of Any Situation

Organization in Levels (LA_Level)

Data of different legal natures are grouped using levels (LA_Level class) allowing different interests over the same land.

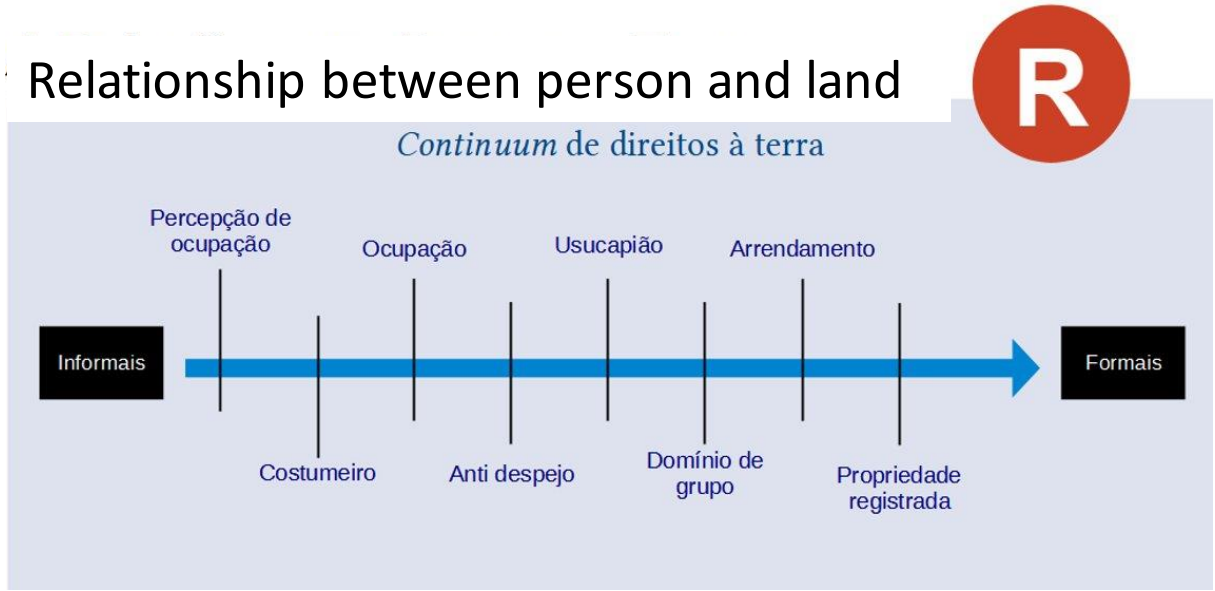
- e.g levels of simple possessions, property rights, contracts...



Scope expansion of legal relationships representation

- e.g. simple possession (spatialized)

Relationship between person and land



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Quality classes -> Fit for purpose

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Using geospatial representation quality classes

- eg: simple methods, like smartphone positioning; citizens themselves produce the information

Class	Who	How	Level 1 e.g.: Property Rights (> 100 ha)	Level 2 e.g: concession contracts	Level 3 possession/ occupation
A	Accredited Professional	Traditional: Classical Topography GNSS	X	X	X
B	Professional With Technical Responsibility	Traditional + Handheld GPS + Smartphone...		X	X
C	Citizen NGOs Unions	Web Interface OpenStreetMap Google Maps...			X

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A new tool

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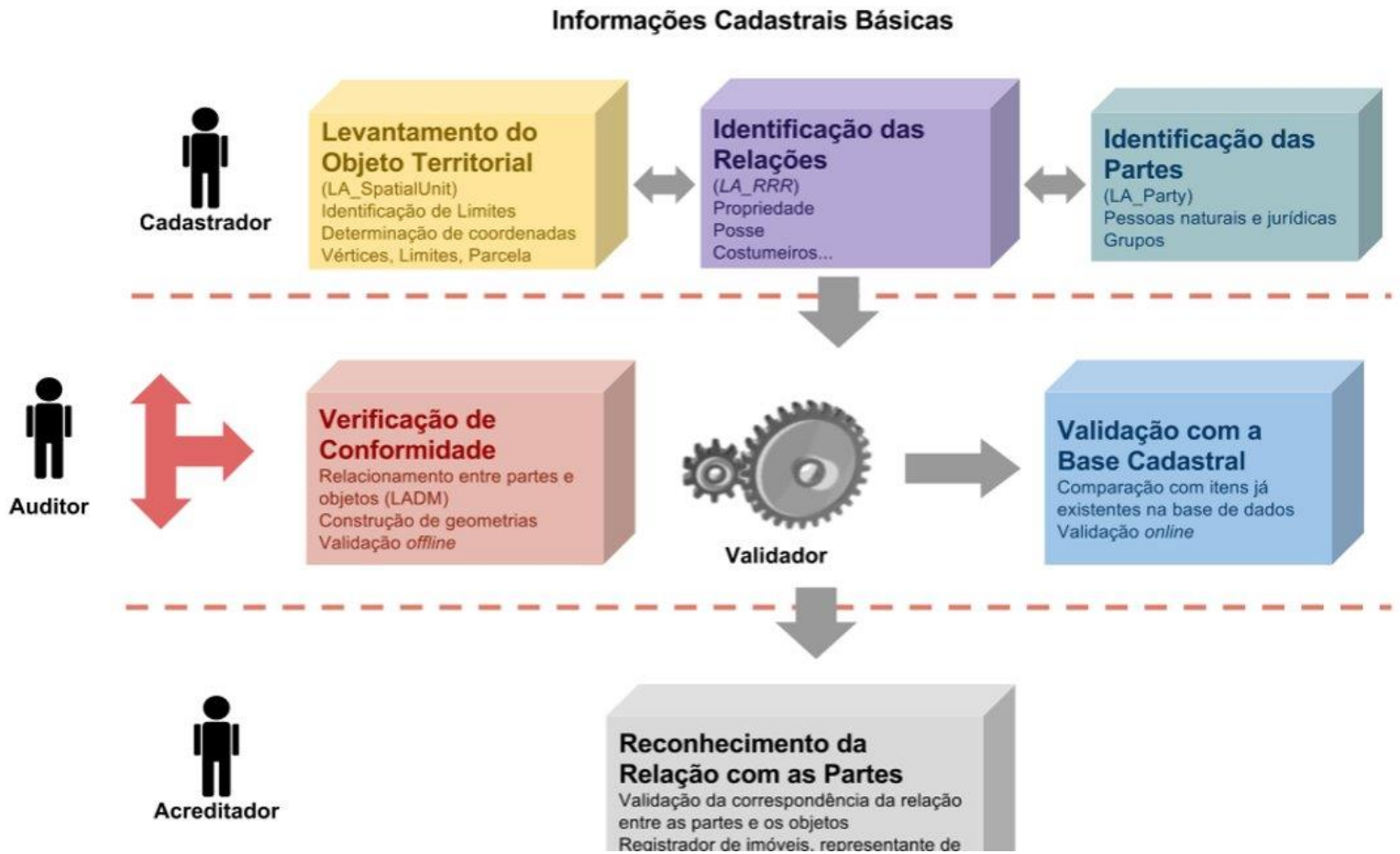
- ✓ Replacement of current cadastral tools by new and more efficient one.
- ✓ Simpler processes
  - 100% digital
  - Maximum automation
  - digital signatures
- ✓ Interoperability



Food and Agriculture Organization of the United Nations

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ABC AGENCY BRAZILIAN OF COOPERATION

MINISTRY OF FOREIGN AFFAIRS

II Cycle of exchanges of experiences

Technological solutions for land administration

Objectives:

- Continue identifying technological tools and solutions for land administration that have the potential for replicability in the various countries of the region.
- Support the generation of new knowledge and technical capacities among officials of land institutes and other strategic partners.

September 28

09 a.m Central America
10 a.m. Colombia and Panama
12 a.m Brazil and Chile

Transmission via zoom

Obrigado!

Carlos Eduardo Sturm

Rural Cadastre General Coordinator

carlos.sturm@incra.gov.br

pgt.incra.gov.br

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