

# OVERVIEW OF TRANSMISSION LINE INTEGRATED WITH LAND CADASTRE IN BRAZIL

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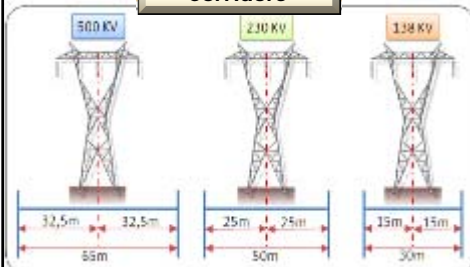
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## TLs BRAZIL

89.000 Km TLs  
Long Distances  
Rural and Urban Areas →  
Private and Public Facilities



## Corridors



No Land Records  
No Cartography - > 1:25.000

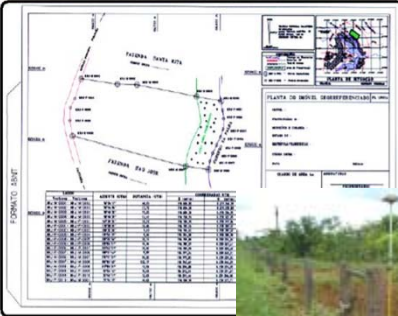

## Problematic



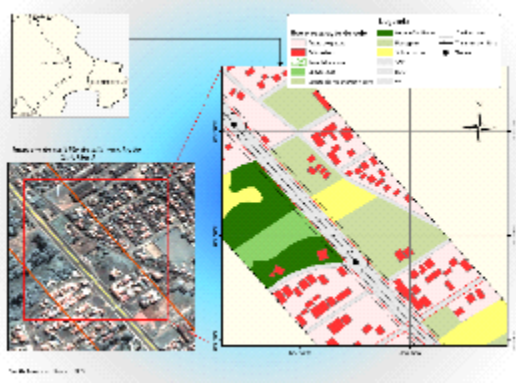
### Rural Areas- (Lei 10.267)

Since 2005


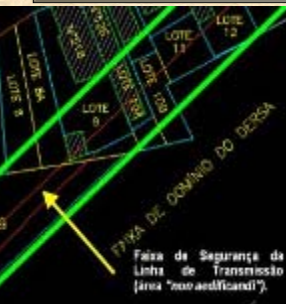
- Parcel Identification
- Land Record
- Georeferencing
- National Database
- 50cm parcel vertex precision

### Urban Areas



**Cadastre - No Standardizations  
According to Facilities Needs  
Difficult to Manage/Plan  
High Costs  
Duplicated Mapping Areas**

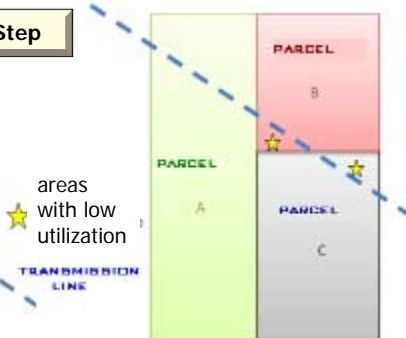



### Expropriation and Compensation Process

- The responsibility of the Concessionaire of Electric Energy is to define the boundaries between the parcels;
- It is necessary that the owners of the parcels be present at the time of the survey` s defining the limits;
- Inconsistency between the registered areas (legal) and raised (real);
- Identification of the right Proprietor or of the lease holding proprietor.

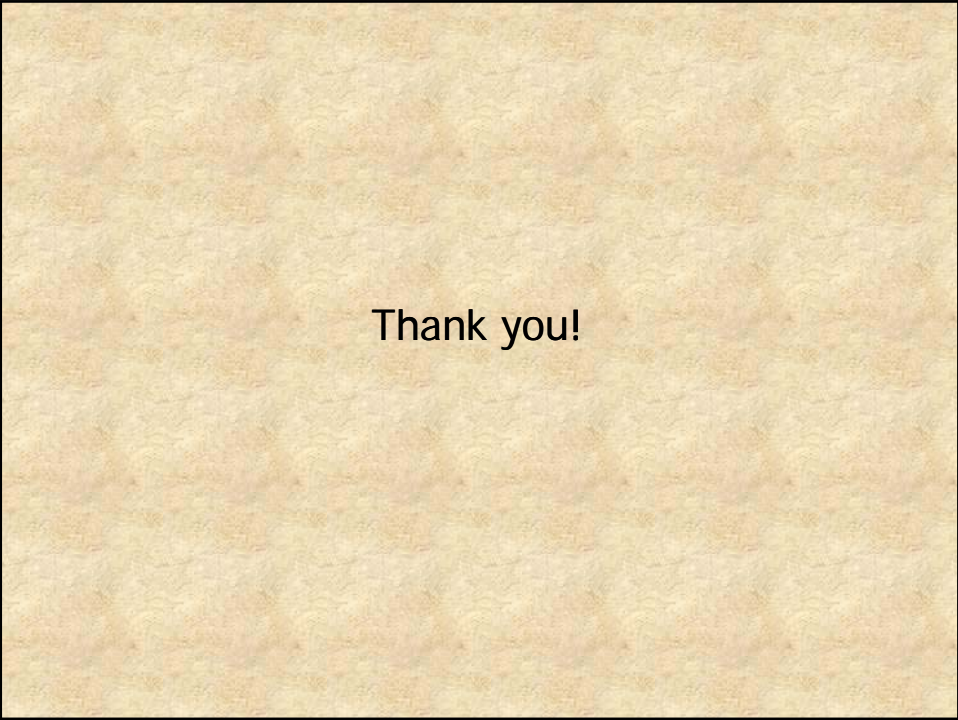
### Brazil`s Next Step

- Compensatory calculations;
- Appraisal efficient total cost of the project;
- Satisfaction of agreements for use and occupation of the territory between the company and owners;
- Possibility of territorial (Re)ordering, following the principles of planning and land management;
- Reducing costs with teams of topography/geodesy, optimization of survey work;
- Efficient Asset Management by utilities in the electricity sector;
- Compliance with the laws of environmental protection;



areas with low utilization

TRANSMISSION LINE



Thank you!