"GIS is a language that helps us understand and manage our world."

- Jack Dangermond -

Geoconference on Cadastre 4.0

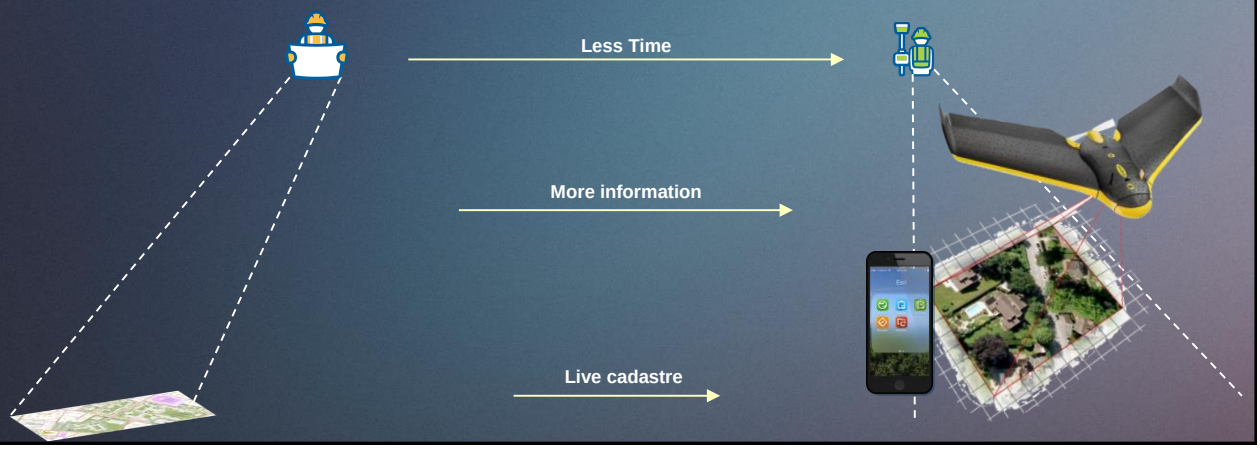
The Digital Transformation of Cadastre

"Changing the landscape of Cadastre through technology"

Rui Sabino – CEO Esri Portugal

Digital Transformation

GNSS are transforming the surveying industries and GIS technology is following this trend with platforms that support this evolution

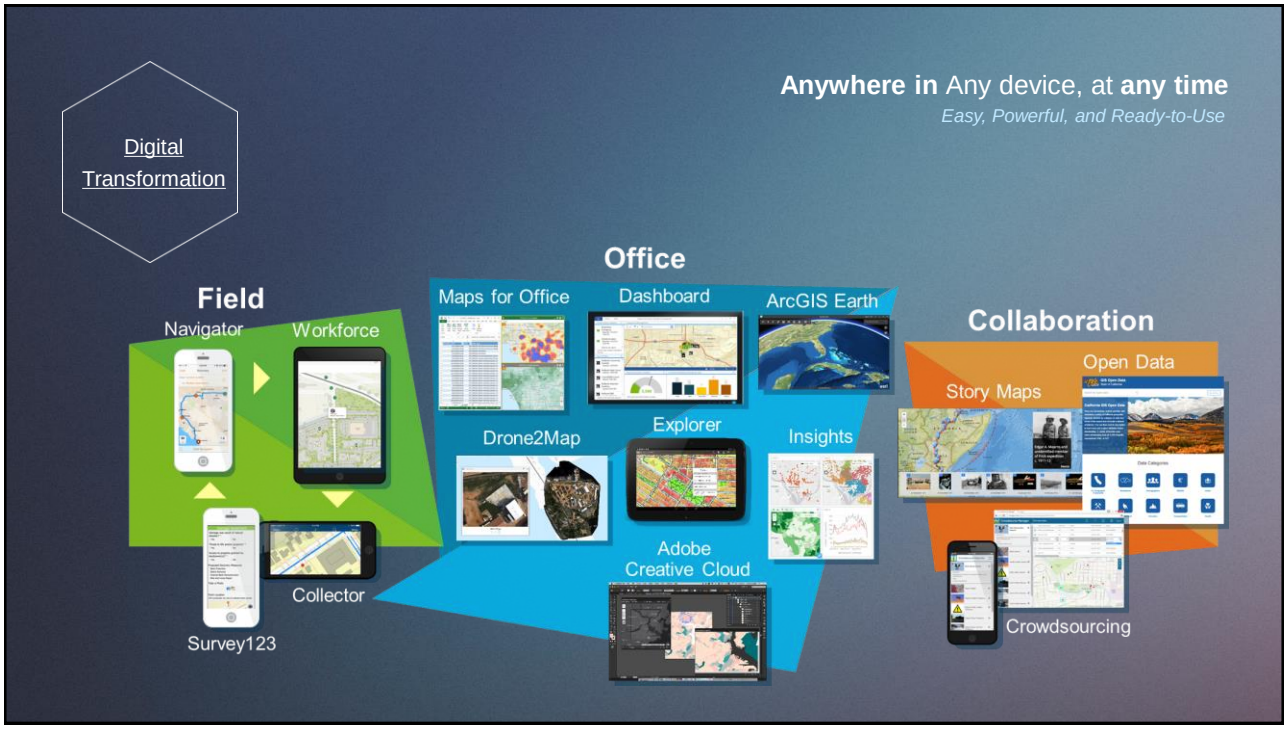


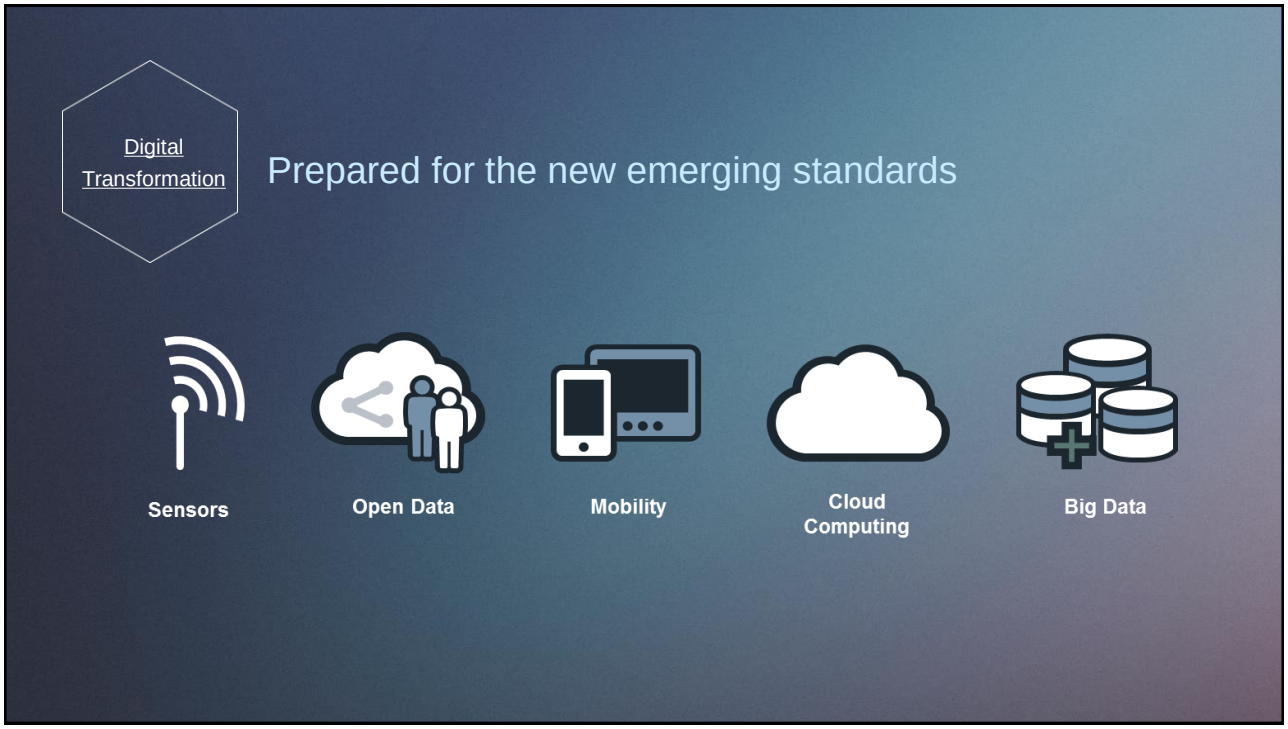
Digital Transformation

The GNSS are following the GIS technology, with Android interfaces and technology integrations.

Drones are being better and cheaper. The processing of the images have better algorithms and are easy to share in GIS mobile platforms.





Digital Transformation
Anywhere in Any device, at any time
Easy, Powerful, and Ready-to-Use
Field
Navigator
Workforce
Collector
Survey123
Office
Maps for Office
Dashboard
ArcGIS Earth
Drone2Map
Explorer
Insights
Adobe Creative Cloud
Collaboration
Open Data
Story Maps
Crowdsourcing


Digital Transformation
Prepared for the new emerging standards
Sensors
Open Data
Mobility
Cloud Computing
Big Data

Digital Transformation

The processing of the images have better algorithms and are easy to share in GIS mobile platforms and other platforms.

Production of Imagery

Use Imagery on the field

Digitize cadastre parcels

Methodologies

There is an urgent need to build simple and basic systems using a flexible and affordable approach to identify the way land is occupied and used by all.

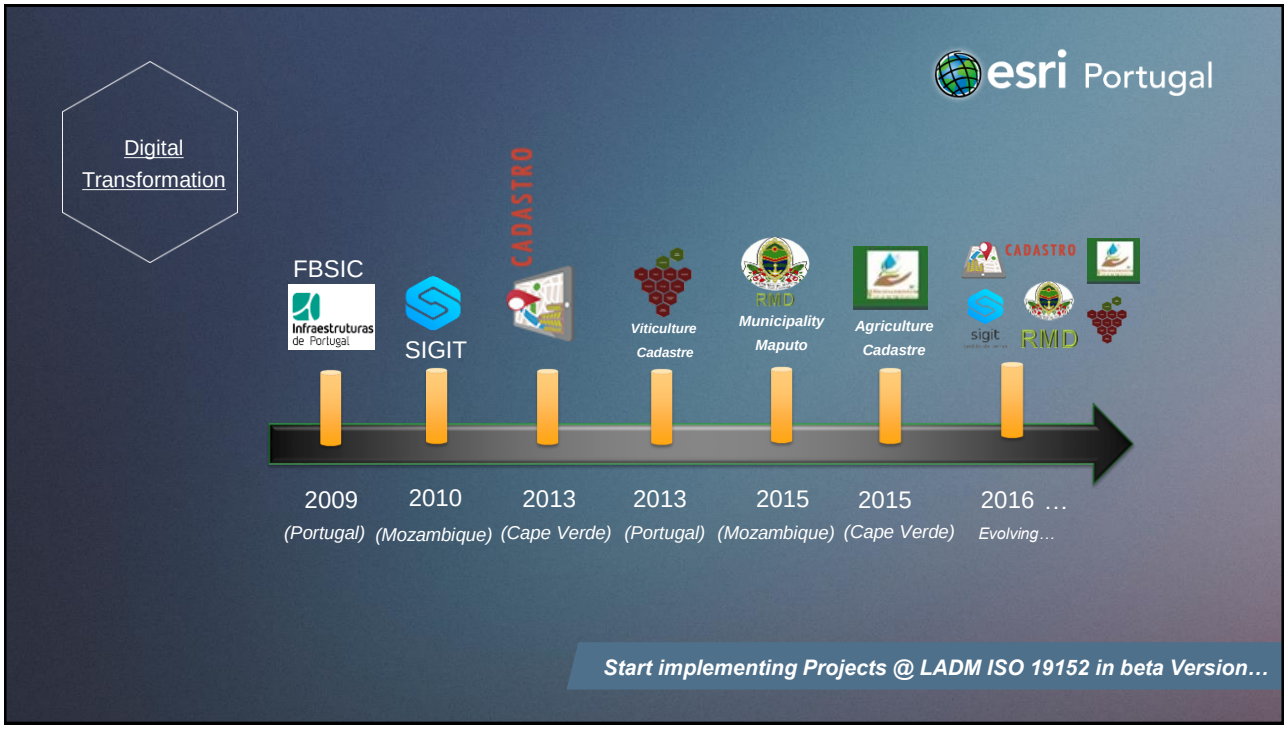
Fit-For-Purpose Land Administration

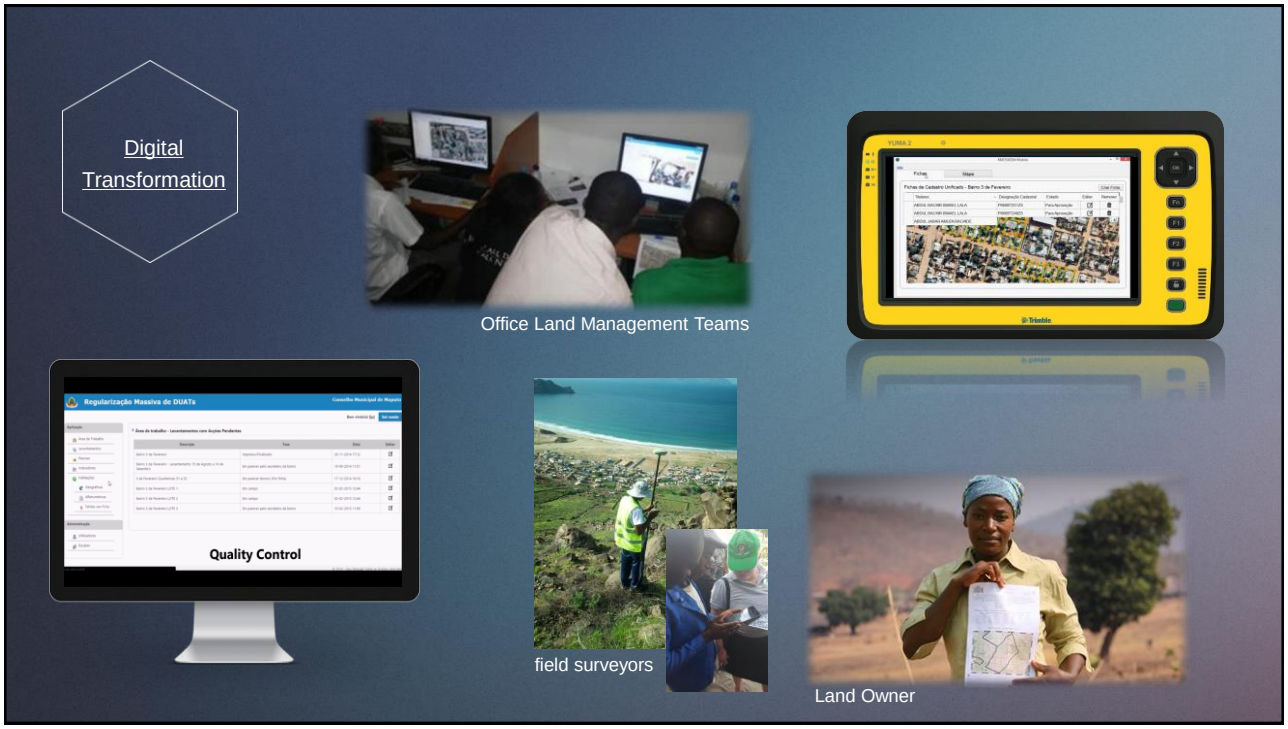
LADM ISO 19152

SDI Open Data Integration

Digital Transformation

A strong GIS community, with a mature digital skills, is highly prepared to do digital transformation of the cadastral processes, with full availability of the technology.


esri Portugal
Digital Transformation
FBSIC
Infraestruturas de Portugal
SIGIT
CADASTRO
Viticulture Cadastre
RMD
Municipality Maputo
Agriculture Cadastre
CADASTRO
sigit
RMD
2009 (Portugal)
2010 (Mozambique)
2013 (Cape Verde)
2013 (Portugal)
2015 (Mozambique)
2015 (Cape Verde)
2016 … Evolving…
Start implementing Projects @ LADM ISO 19152 in beta Version…


Digital Transformation
Office Land Management Teams
Regularização Massiva de DUATs
Quality Control
field surveyors
Land Owner

What´s Next

Technology has full support to disrupt the cadastre, from a 2D cadastre coverage for 3D cadastre models. It will the real multipurpose cadastre for public and private needs.

3D Cadastre enhances **Smart Cities** movement

To 3D

From 2D

LADM ISO 19152

- Level of detail (LoD) instead of scale
- 3D buildings instead of 2D parcels
- Private engagement instead of public exclusive use
- Local government engagement instead of Central government exclusive use

"Technology alone is not enough."

-Steve Jobs -


esri