





Collaboration, Innovation and Resilience: Championing a Digital Generation

Brisbane, Ast a 6-10 April

EVOLUTION TOWARDS REAL-TIME INFORMATIC UPDATING IN THE CADASTRAL FIELD

Geom. Pasquale GIOVANNELLI

Italy



Consiglio Nazionale Geometri e Geometri Laureati

















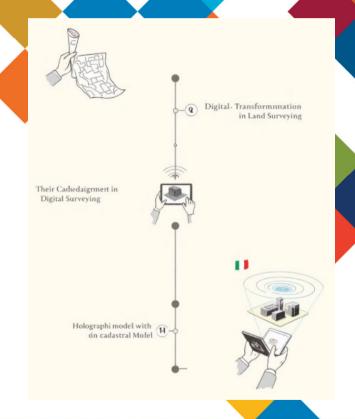


Digital Transformation of the Italian Land Registra



The digital transformation of Italy's Land Registry began in the 1980s. Key regulatory regulatory measures in 1999 and 2010 established the Integrated Real Estate Registry. Estate Registry.

This transformation improved data quality, simplified procedures, and territorial monitoring.













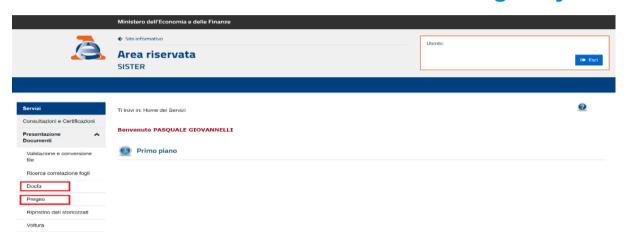








The Revenue Agency's IT System



Advanced Digital System

The Italian Revenue Agency implemented an advanced digital for managing cadastral system procedures.

SISTER Portal

The system is supported by the SISTER portal portal (Interchange System for Territory). Territory).

Efficient Interaction

This enables professionals to interact efficiently with the land registry.





















Features of the IT System







Automation

The system uses validation automatic algorithms to verify formal the and technical accuracy of submitted applications.

Integration

SISTER portal serves the main as interface for accessing cadastral cartographic and services.

Compliance

automation The complies procedures current regulations regulations and ensures ensures process transparency, making all approval stages accessible to users.



















The SISTER Portal: Interchange System for Territory

Cadastral Data Consultation

Access to properties, surveys, map, and historical documents related to parcels and real estate units.

Cadastral Procedures

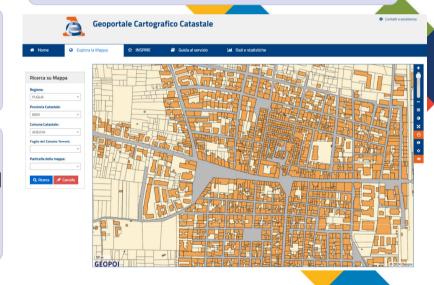
Submission of DOCFA for property changes and PREGEO for cartographic updates and land parceling.

Digital Cartography

The portal provides visual representation of territory with map extracts and cartographic data for geographic analysis, viewing cadastral boundaries and verifying property locations.

Professional Access

Dedicated tools for surveyors, architects, engineers, and notaries.





















Cadastral Update Procedures

Property Owner Responsibility

While the state formed the land registry, updates are the of property owners.

Digital Submission

Digitization has enabled online submission of cadastral change change requests.

Real-time Registration 3

These procedures aim to enable real-time registration of databases.





















PREGEO and DOCFA Procedures

PREGEO

Used for Land Cadastre updates including subdivision plans and map types.

DOCFA

Used for Urban Building Cadastre updates for new constructions or modifications.

Digital Processing

Both allow creation of digital digital files with technical and and graphic information.





















PREGEO: Land Cadastre Procedure

Subdivision Plan

Divides parcels into new geometrically distinct areas

Map Type

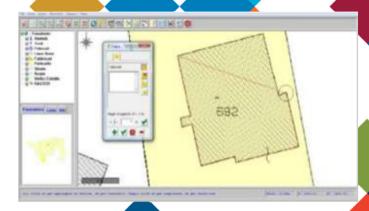
Required for new buildings or expansions

Digital Processing

Updates both cartographic and census archives

Automatic Processing

No manual intervention required

















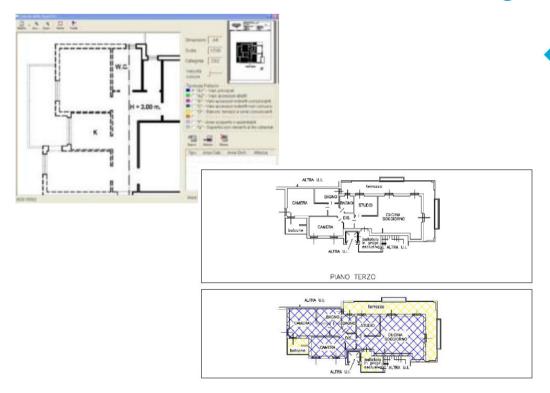








DOCFA: Building Cadastre Procedure



New Constructions

Registration of new buildings or structures

Modifications

Updates for structural an unctional changes

Digital Files

Contains floor plans and technical drawings





















Old vs. New Approval System

Aspect	Old System	New System
Processing	Manual review by staff	Automated algorithms
Time	Days or weeks	Minutes or hours
Accuracy	Variable, risk of human error	Standardized, consistent checks
Interaction	Direct with staff	Digital portal (SISTER)
Cost	High operational costs	Cost-efficient, optimized optimized





















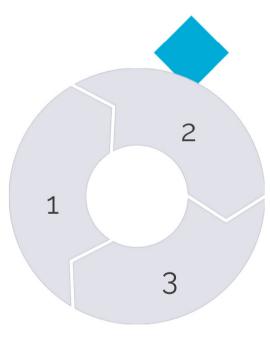




Automatic Approval Operation

Submission

A licensed professional fills out the DOCFA/PREGEO application and submits it electronically to the Revenue Agency.



Verification

The system checks the declaration by comparing entered data with existing database records.

Decision

is correct appl consistent, it is approved automatically within minutes. Otherwise, the system flags errors or inconsistencies, requiring corrections from the professional...























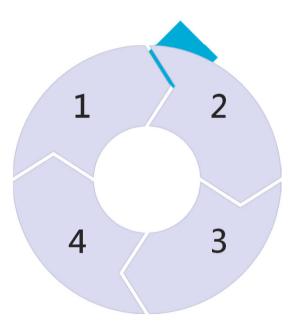
Benefits and Limitations

Simplified Procedures

Significantly shorter processing times

Professional Efficiency

Immediate results accelerate projects



Reduced Errors

Algorithms follow strict rules

Greater Transparency

Improved tracking for citizens

Not all applications can be automatically approved. Complex cases still require manual review.





















Future Developments and Conclusion

Expanded Procedures

The system will extend to additional additional types of cadastral applications.

System Integration

Linking with municipal databases improve efficiency.

New Features

Future tools may include simulation and and automatic property valuation.



Italy's digital transformation under the National Recovery and Resilience Plan aims to modernize public services and With strategic planning, the cadastral sector can successfully navigate these challenges and fully benefit from digital























Thanks for your attention

REFERENCES CONTACTS

GIOVANNELLI Pasquale Via Isonzo, 34 - 70010 Adelfia (BA) Italy

Tel. +39 349 2742100

Email: geogiov.pas@gmail.com















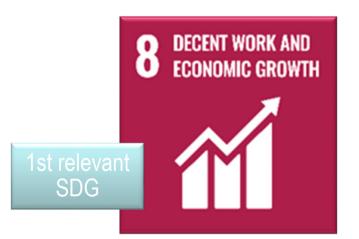








The most relevant SDGs related to the presentation and them. **ession**





PARTNERSHIPS FOR THE GOALS SDG



International Federation of Surveyors supports the Sustainable Development Goals



















