



Hellenic Cadastre - Case studies or requests from big users

Panos Lolonis

Rural and Surveying Engineer-Geographer, Ph.D.
Head of the Geospatial Information Department

HELLENIC CADASTRE

288 Mesogion Ave.
155 62 Cholargos – Athens
Tel. +30 (210) 6505-636

e-mail: plolonis@ktimatologio.gr



Co-funded by
the European Union

Digital Europe Programme
Grant Agreement No 101100625

Major case studies and user requests in Greece



Βορειαοραφικό της Βόρειας Αχαΐας όπου φαίνεται η χρήση της γεωγραφικής πληροφορίας στη Γεωπούλη έχει υποβοηθητικό και μετρήσιμο αντίκτυπο, την γεωρεπληροφορία των κτηματολογικών διατάξεων που είναι συγκεκριμένη βάσει των τεχνικών προδιαγραφών.

Cadastral map of a coastal area in Greece, INSPIRE Geoportal.

Mostly governmental agencies:

- Independent Authority of Public Revenue (Taxation)
- General Secretariat of Information Systems and Digital Governance (mass land valuation)
- Greek Payment Authority of Common Agricultural Policy (C.A.P.) Aid Schemes (Agricultural subsidies)
- Ministry of Environment and Energy (Local urban plans)
- Ministry of Infrastructure and Transportation (Network management)
- The National Committee of Telecommunications and Postal Services (assess legitimacy of telecommunication company petitions to increase fees)
- Utilities (mainly Gas companies)
- Regional Government (floods, wildfires, forest protection)
- Municipalities (taxation, property)



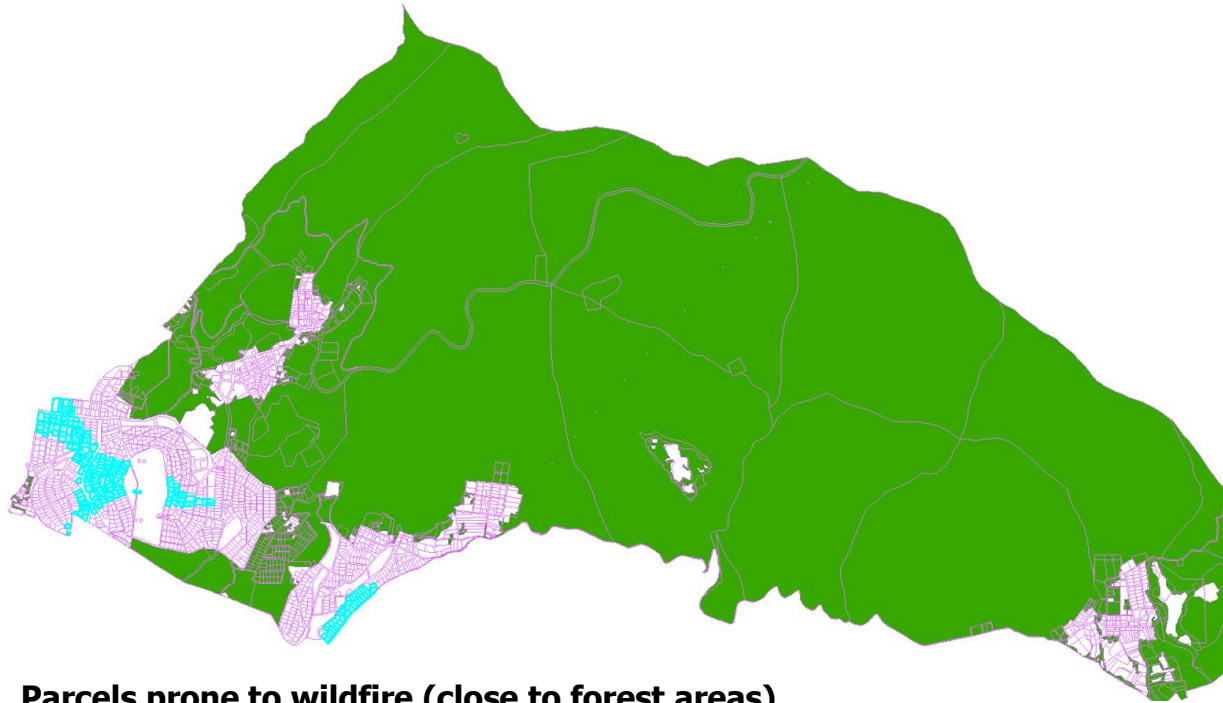
Digital Europe Programme
Grant Agreement No 101100625



Open Cadastral Maps Use in Public Policy

Taking preventive measures to reduce wildfire risk

Municipality of Penteli in Athens suburbs, Greece






Parcels prone to wildfire (close to forest areas)

Parcels ≤ 300 m. from forest: 2.199 (91%)

Parcels farther than 300 m. : 217 (9%)

Legend

-  Forest area
-  Built area within a 300 m. buffer from forest
-  Built area beyond the 300 m. buffer from a forest

- Wildfires have become a major issue in Mediterranean countries
- In Greece, legislation has been adopted to minimize risk of wildfire spreading
- That legislation, however, requires property owners to take extensive and costly measures
- The legislation has proven to be burdensome to implement
- Significant public opposition was raised
- Certain provisions of the legislation have been voided.
- Cadastral map data could have helped policy makers assess better the situation and develop better plans



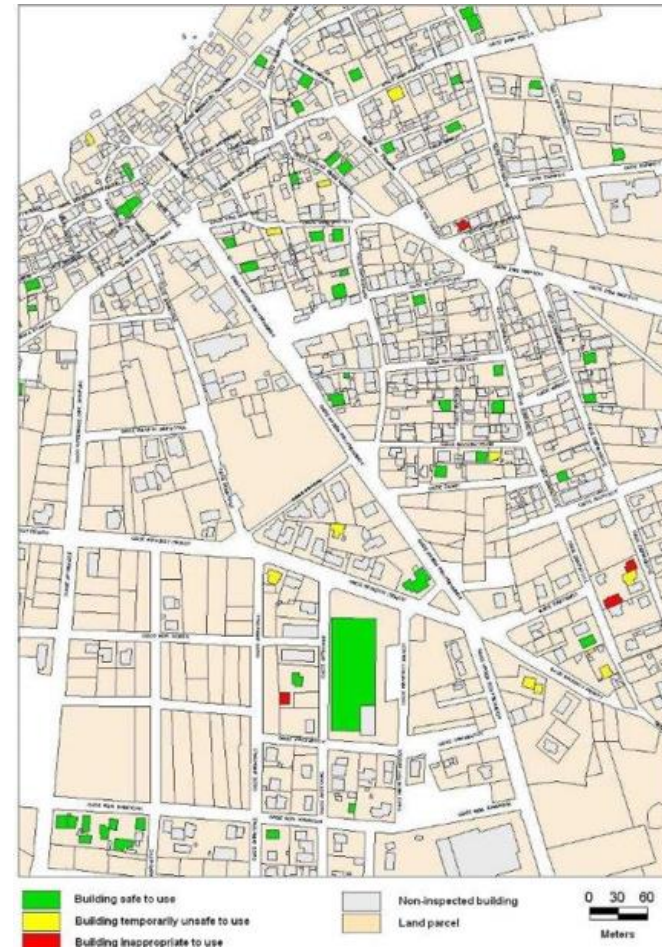
Digital Europe Programme
Grant Agreement No 101100625

Domains for Potential Use of Open Cadastral Maps

Handling earthquake impacts



Depicting the results of first instance inspection crews in the municipality of Magoula, Attica, GREECE



Depicting dangerous zones around earthquake damaged buildings in Magoula, Attica, GREECE



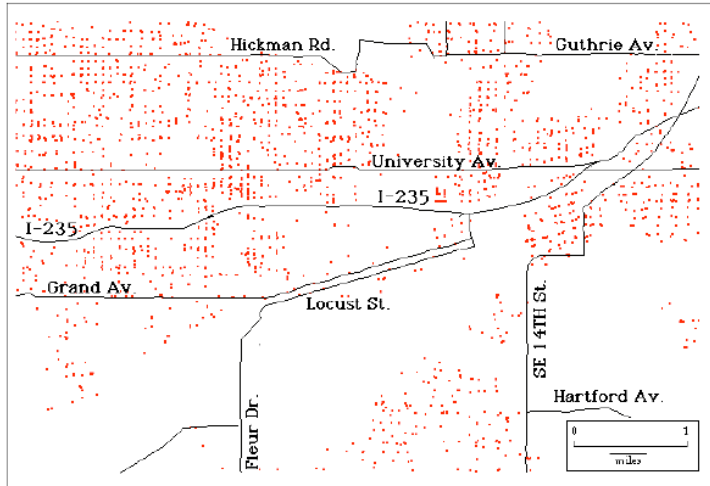
Digital Europe Programme
Grant Agreement No 101100625

Adopted from Q Lolonis P, Rokos D-K, Maragou M, 2002, "Use of cadastral data for the development of spatial decision support systems for coping with the consequences of natural disasters" *Proceedings, 6th International Conference on Design and Decision Support Systems in Urban Planning*, (Ellecom, The Netherlands) 145-157

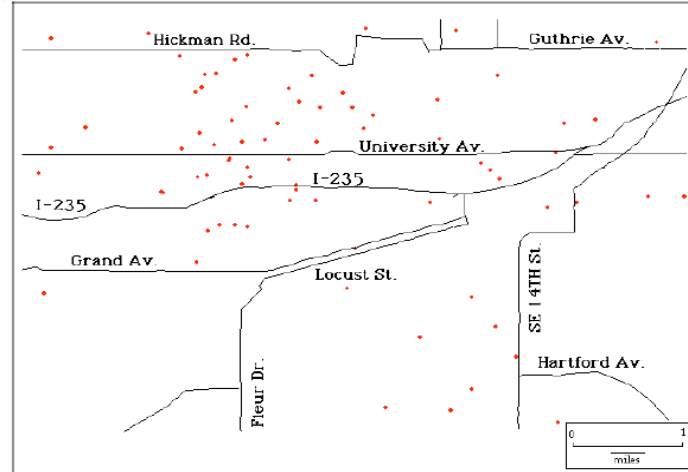


Domains for Potential Use of Open Cadastral Maps

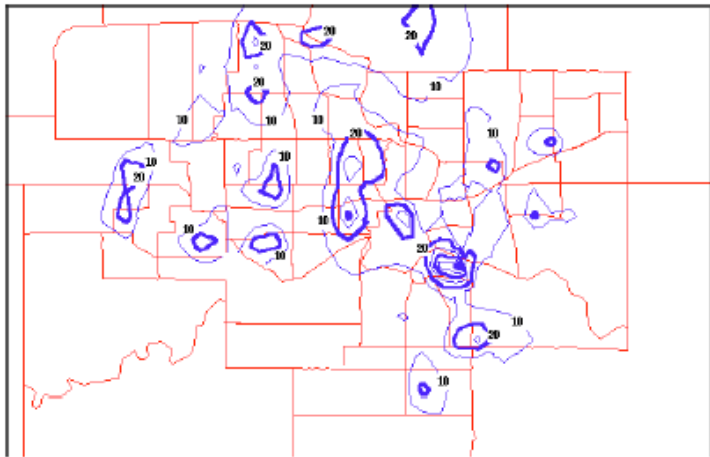
Public Health



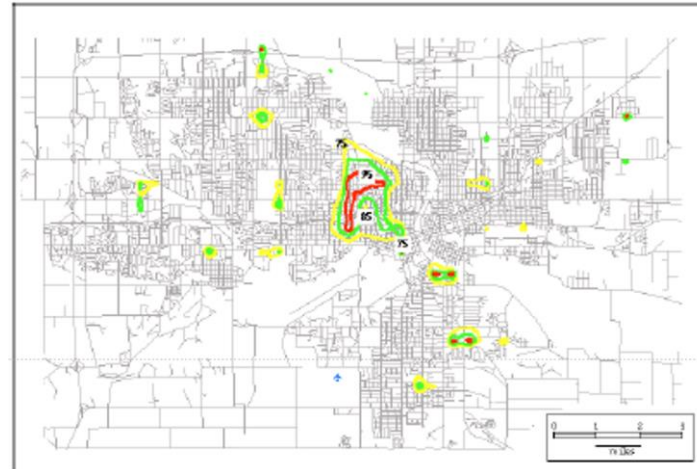
Birth locations, 1989-1992 (Des Moines, IA, HIIA)



Birth defect locations, 1989-1992 (Des Moines, IA, HIIA)



Birth defect rates, (Des Moines, IA, HIIA)



Birth defect statistically significance (Des Moines, IA, HIIA)



Digital Europe Programme
Grant Agreement No 101100625

Maps adopted from Rushton *et al.*, 1995 "Spatial Analysis of Infant Mortality Rates in Des Moines, Iowa, 1989-1992", Public Health Records and Statistics and the National Committee on Vital and Health Statistics



Concluding remarks



Hellenic Cadastre e-services presented to the Prime Minister's Cabinet in April 2021

- Cadastral maps play a valuable role in coping with numerous modern day problems (e.g. public property management, utility planning and regulation, environmental management and civil protection)
- Making them widely available would increase their potential to be used in innovative ways to cope with modern societal problems
- Open Cadastral Maps would act as an enabler towards that direction.



Acknowledgements - Disclaimer

This presentation has benefited greatly from the work of several IT and Geospatial Information Departments colleagues of the Hellenic Cadastre. The accuracy of the information presented here, however, as well as, views expressed are sole responsibility of the presenter and don't necessarily reflect the official views of the "Hellenic Cadastre".



Digital Europe Programme
Grant Agreement No 101100625