SPOTTED

Satellite oPen data fOr smarT ciTy sErvices Development

Napoli use case

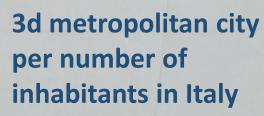
Presenter: Francesca Pignataro Organisation: Comune di Napoli (Napoli) SPOTTED Kick-Off Meeting Remote, 22 September 2021



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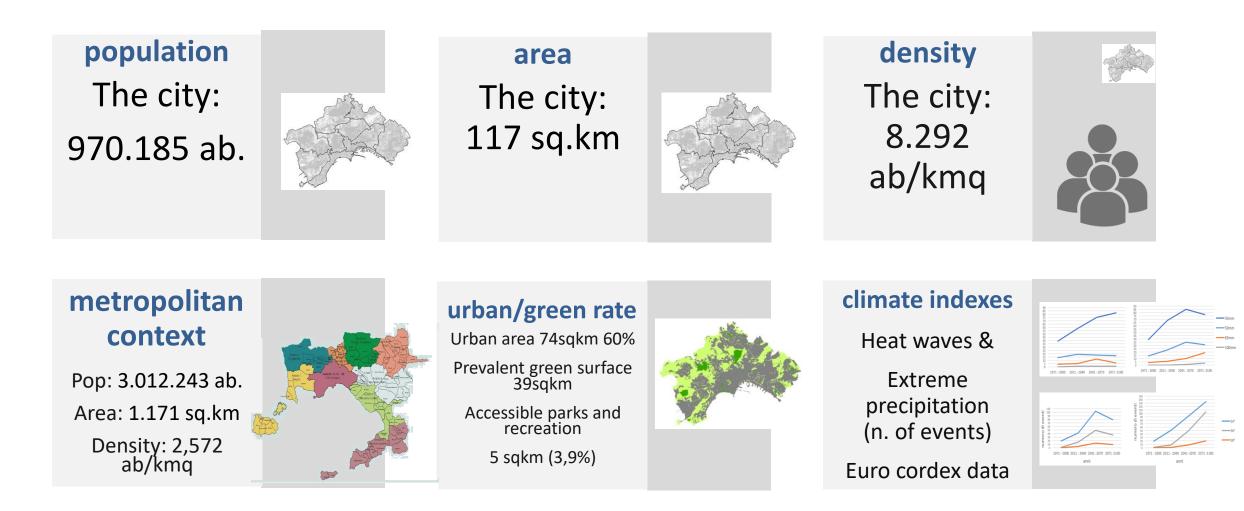
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1st for housing density

AP ----



The city in numbers





The city problems

Digital transition





lack of economic resources and political uncertainty

occupation

social strain

school dropout



green infrastructure

irregular

urban

distress factors



Hydrogeological Earthquake **Climate change** Volcano

RISK



green asset management issues

Preserve urban agricultural persistence

Prevent diseases, monitor and plan for trees and green space protection



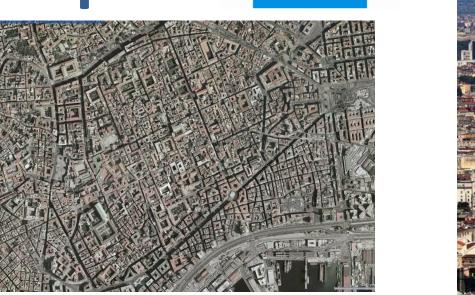
and monitor implementation actions











UNESCO city center







public space management and implementation in a dense, compact cityscape



Planning issues

regeneration of ex industrial areas



re-use of natural resources





Fragile coastal landscape and change detection - unused spaces

Redesign a relationship city/coastline









contemporary urban landscapes affected by flood events when extreme precipitations strike the city



Climate change issues

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Roles/Napoli what we are expected to do in the consortium

. . .

...provide the **requirements** for the services, related to green transition and sustainable urban planning, to be developed during the project execution;

...provide **local data** to leverage on (e.g. open data, IoT data, urban plans, cartographies).

...support the **validation** of the defined/implemented services in their territory and provide proof of service replicability and cross-border capability.

- User requirements definition & cocreation for research tasks
- involvement of local actors: other offices
 of the municipality, other local
 government actors and authorities, the
 citizens ...
- Local data retrieval and organization
- Briefing and reports on Urban and metropolitan planning activities and regeneration projects
- Validation for change detection results



NAPOLI expectations

What we expect to gain from the project?

- Knowledge data and tools to detect change in urban and natural environment
- Tools to monitor the effects of climate adaptation strategies
- Strengthening cooperation with other EU end-users, exchange of best practices
- Improved user-friendliness of landscape and climate information data
- Information and guidelines for urban planning and regeneration projects for the Municipality and metropolitan area planning services and environmental monitoring
- tools to be extended to private planners, designers and consultants involved into urban and neighboorhood scale projects

Climate change awareness is growing* and the city decision makers need to finalize it and implement actions -Urban regeneration policies and adaptation strategies need a monitoring system and cost-benefit evaluation

*See urban planning strategy integrates results from EU H2020 project Clarity - Integrated Climate Adaptation Service Tools for Improving Resilience Measure Efficiency

SPOTTED will support planners to produce and use High Value Geospatial Datasets for public decisions



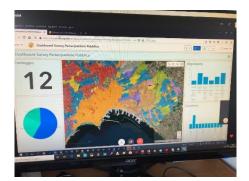
CITTÀ, AMBIENTE, DIRITTI E BENI COMUNI

Some detail on objectives

- define digital geo-datasets for green areas management with dashboards and tools for easy modification/implementation – integrate information
- Detect change, produce statistics and maps to monitor strategies in adaptation
- Spot episodes of soil consumption 'realtime' and help planners to prevent it
- Define criteria and select susceptible areas for urban reforestation
- Produce maps to support actions (i.e. green area indexes in neighborhood contexts)
- Evaluate impacts on people (climate perception – equity on public space quality)
- Use and produce new open datasets, implement new contents in the city administration tools

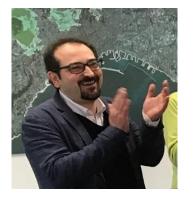
Setting up Napoli pilot - data, tools and plans

- Clarity previsional framework and datasets (landuse, tree coverage, climate indexes in a 30 yrs prevision)
- PON Metro projects, digital transition tools (Environment&urban digital geospatial management tools – PPAT) - tool integration
- PUC piano urbanistico comunale city masterplan – to be approved in a short time
- PUMS urban sustainable mobility plan, rece approved, complex monitoring system
- PAESC sustainable energy & climate adaptation actions developing



PPAT - AMBIENTE E TERRITORIO COMPONENTI APPLICATIVE DELLA SOLUZIONE Currente a statucio Cur

Expertise required for SPOTTED – people involved



Andrea Ceudech: architect, Chief of the Planning department, City of Naples. He deals with planning issues and urban regeneration strategies



Luigi Volpe: engineer, Digital Transition manager, in charge of the digital services & digital Agenda of the Municipality

Francesca Pignataro: architect, data management and Geographical Information System for the city

of Naples



Comune di Napoli - Naples Municipality Other Local entities involved Assessorato all'Urbanistica e Area Urbanistica Assessorato Sviluppo Sistemi Informativi

other local actors will be involved , following the research activities





Thank you for your attention

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