maps and apps for quality of life

Supporting SDGs monitoring and impact measurement using AI on Satellite Imagery

Angela Corbari - Cofounder and COO
Studiomapp srl

maps and apps for quality of life

Location Intelligence
Satellite & Drone Imagery
Artificial Intelligence































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Leonardo Alberto Dal Zovo CTO – COFOUNDER Artificial Intelligence



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Prima pagina > Economia

Intelligenza artificiale. La startup ravennate Studiomapp premiata dal Pentagono











La start-up innovativa Studiomapp si è aggiudicata il quarto posto nel concorso internazionale "DIUx xView 2018 Detection Challenge", organizzato dal Dipartimento di Difesa degli Stati Uniti in collaborazione con la National Geospatial Intelligence Agency per sviluppare nuove soluzioni per la sicurezza nazionale con un'attenzione specifica alla gestione dei disastri usando l'intelligenza artificiale

La sfida è stata lanciata dalla Defence Innovation Unit (DIU), l'organizzazione statunitense che ha l'obiettivo di mettere in contatto il Dipartimento di Difesa con aziende tecnologiche innovative e start-up per risolvere problemi di sicurezza nazionale.



When the Challenge concluded in September 2018, DIU identified the top five performing algorithms:

xVIEW Challenge Winners (Rank. Name (Team))

- 1. Nick Sergievskiy
- 2. Victor Stamatescu (University of Adelaide)
- 3. Sudeep Sarkar (University of South Florida)
- 4. Leonardo Dal Zovo (Studio Mapp)
- 5. Ritwik Gupta (Software Engineering Institute / ETC)

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STUDIOMAPP - START UP ITALIANA - PREMIATA DALLA NATO COMMUNICATION AND INFORMATION AGENCY NELL'AMBITO DELLA 4a EDIZIONE DELLA DEFENSE INNOVATION **CHALLENGE**

Data: 17/04/2019

Studiomapp, start-up italiana, è stata premiata dalla NATO Communications and Information Agency (NO edizione della "Defense Innovation Challenge", competizione finalizzata a implementare soluzioni tecnolo parte di start-up, piccole imprese e università a supporto della NATO e delle sue capacità informatiche.

A united Europe f....jpg ^

News

https://nitec19.com/innovation-challenge-2019/



United Nations General Assembly



Featured in the "Digital with Purpose" report by GESI and Deloitte







Infrastructure monitoring

Battle illegal fishing

Support Disaster Response Management

maps and apps for quality of life



Quality of life - Location intelligence at street level







Location intelligence at street level



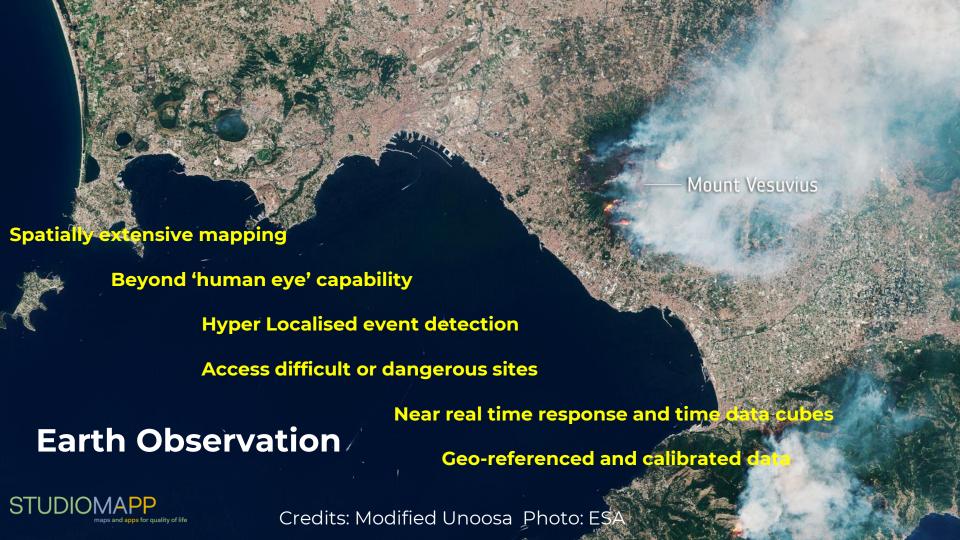


User Web & Mobile





B2B A,PI Widget & Analytic dashboard





Geospatial data added value for Qirate

business incubation centre





Spectral signature analysis



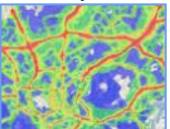


Green and Natural areas mapping

Land Use

Urban structures

Air Quality





Deep Learning Solution

Sat Imagery analysis
Object Detection
Extract insights

Fast and at scale



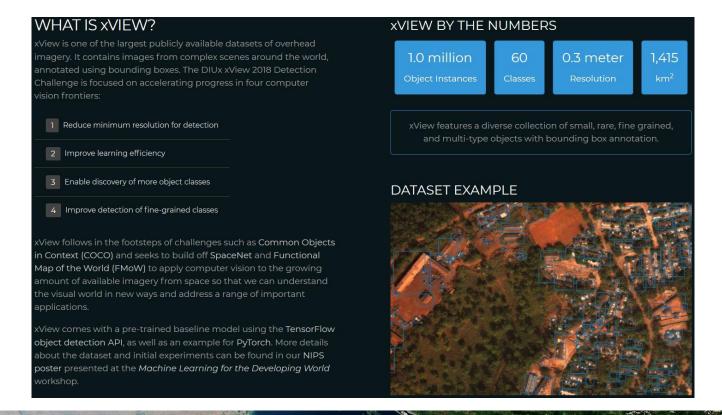






Defense Innovation Unit Experimental (DIUx) and the National Geospatial-Intelligence Agency (NGA) are releasing a new satellite imagery dataset to advance key frontiers in computer vision and develop new solutions for national security and disaster response.

xView Challenge by Defense Innovation Unit





Key advantages of our solutions

<u>Multiscenario</u>: 90+ types of objects - different domains <u>Expandable</u>: more classes and objects can be added <u>Fast</u>: large scale processing of 100km² in minutes <u>Easy Integration</u>: API shipped in a docker container



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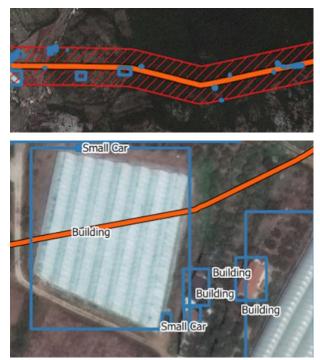


Infrastructure monitoring





Infrastructure monitoring









Construction sites monitoring







Infrastructure and constructions monitoring

Impact:

- Very low carbon footprint
- Reduce survey missions and workers' risks
- Automate interference identification with alerts
- Monitor also remote and inaccessible areas
- Improved security of the infrastructure



Assets monitoring













UN World Conference on Disaster Risk Reduction 2015 Sendai Japan

From Managing disasters to Managing disasters's risk

The outcome the framework is to substantially reduce disaster risk and losses in lives, livelihoods and health, as well as to protect the economic, physical, social, cultural and environmental assets of persons, businesses, communities and countries.

187 countries adopted Sendai Framework for Disaster Risk Reduction 2015-2030 The Sendai Framework promotes the use of space information which has a relevance in all priorities:

- 1. Understanding disaster risk;
- 2. Strengthening disaster risk governance to manage disaster risk;
- 3. Investing in disaster risk reduction and resilience;
- 4. Enhancing disaster preparedness for effective response and to "Build Back Better" in recovery, rehabilitation a reconstruction.





Al in Support of Disaster Response Management







Priority 1: Understanding disaster risk

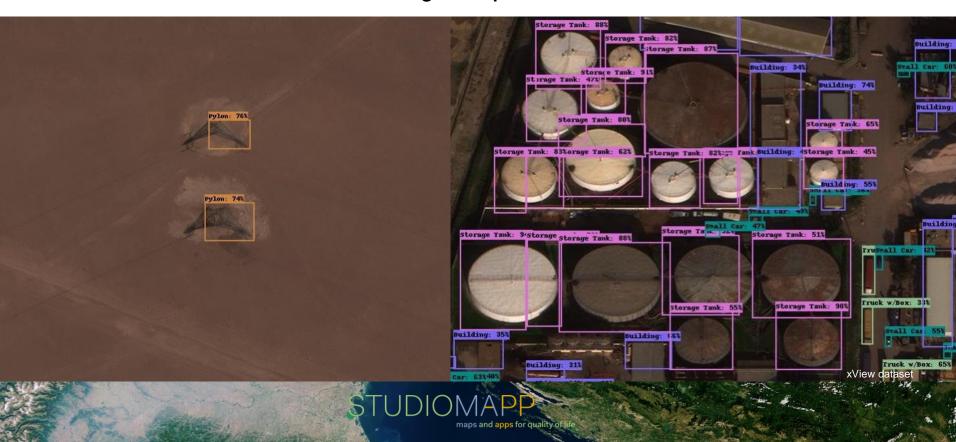
How? Measuring the exposure of people





Priority 1: Understanding disaster risk

How? Measuring the exposure of assets





Priority 2: Strengthening disaster risk governance

How? Supporting planning and prioritisation of disaster response





Priority 3: Investing in disaster risk reduction for resilience

How? Mapping support to identify and value assets for Insurance





Priority 4: Enhancing disaster preparedness for effective response and to "Build Back Better" in recovery, rehabilitation and reconstruction

How? Monitoring capacities in place and reconstruction progresses





Support Disaster Response Management

Impact:

- Support in all the Disaster Risk Management cycle
- Speed up the assessment of large areas
- Very low carbon footprint
- Save lives!

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Thank you!

Ideas or projects?
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