An enriched disease risk assessment model based on historical blood donors records

E-Rum 2020: R in Life Sciences

HeartInData: Andrea Cappozzo, Edoardo Michielon, Alessandro De Bettin, Chiara D'Ignazio, Luigi Noto, Davide Drago, Alberto Prospero
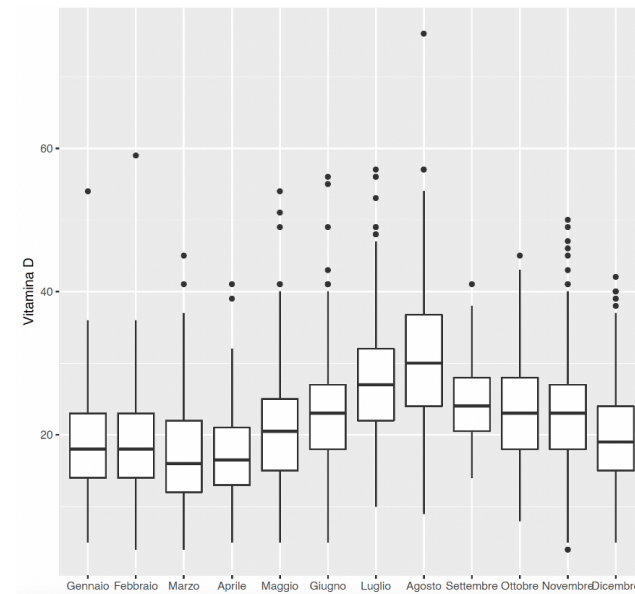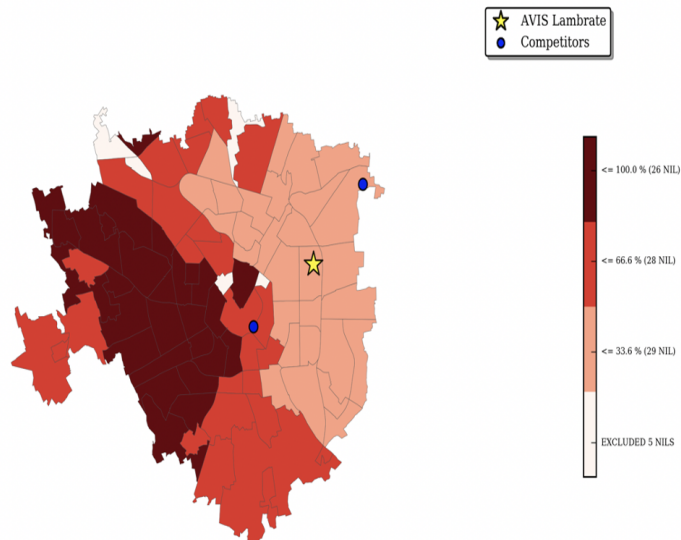**AVIS Milano:** Sergio Casartelli, Francesca De Chiara

Expectation vs reality

What is HeartInData?

- Data science for social good
- Based in Milan (IT), active since May 2016
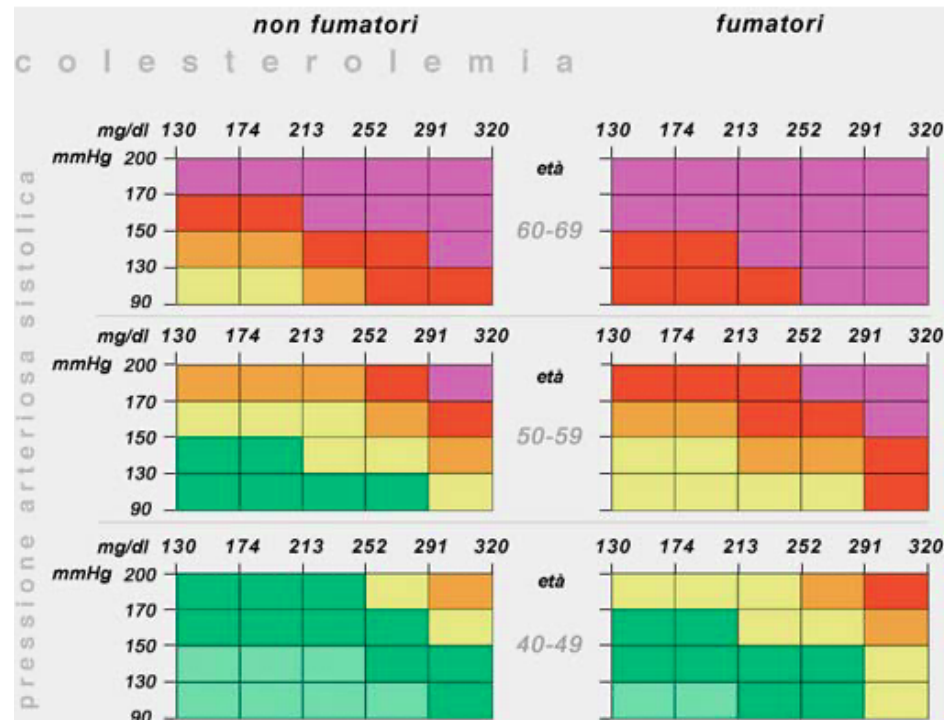- Success stories

- What's next?

Enriched disease risk assessment model

Current scenario

Risk factors are assessed at an illness-specific level

Cardiovascular disease risk

but they may actually cause the appearance of different diseases in different patients (Meijers & De Boer, 2019)!

Beyond the state-of-the-art

AVIS HISTORICAL DATA

- 10-year records of blood donations
- Donor-specific and donation-specific clinical parameters
- Donations drop-out causes

PROJECT AIMS

- Annual report on risk factors in the blood donors population
- Risk factors assessment at a global level
- Prevent not-clinically evident diseases

For the actual model… STAY TUNED!

HeartInData

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www.heartindata.it

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THANK YOU FOR YOUR ATTENTION!