WHOW HACKATHON 18 🗆 11 🗆 2023

WHOW HACKATHON

water quality & health of farm animals

USE CASE 1:

Data reuse: Design or design and development any type of data reuse of your choice (e.g., data viz, maps, standalone applications). A set of pre-defined SPARQL queries will be made available to allow participants to query the knowledge graph and combine data according to their re-usage idea.

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GOAL

What impact does water quality have on the health of farm animals?

Studying the connection between water quality and the health of farm animals is crucial for ensuring the well-being of livestock and, ultimately, the quality of food products derived from these animals.

Data source





Research method

concept

01

Geolocate each livestock farm > Site (link)

02

Analyse the level of contamination of water of the livestock site > Each livestock farm has to analyse the water quality in its management. How contaminated is it?*

03

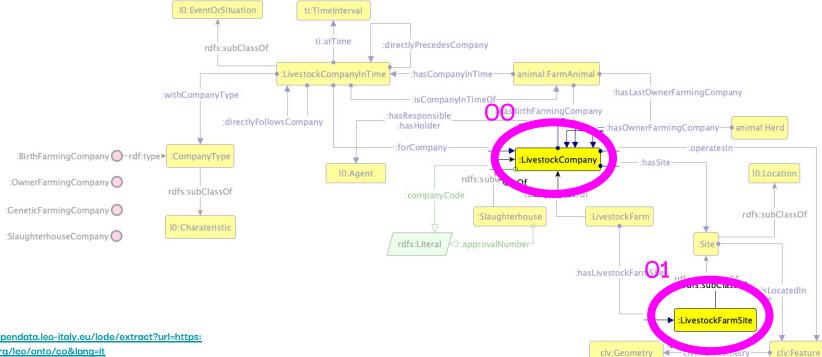
Correlate water quality with the animal well being

 Livestock company does a health assessment on animals, analysing the presence of diseases

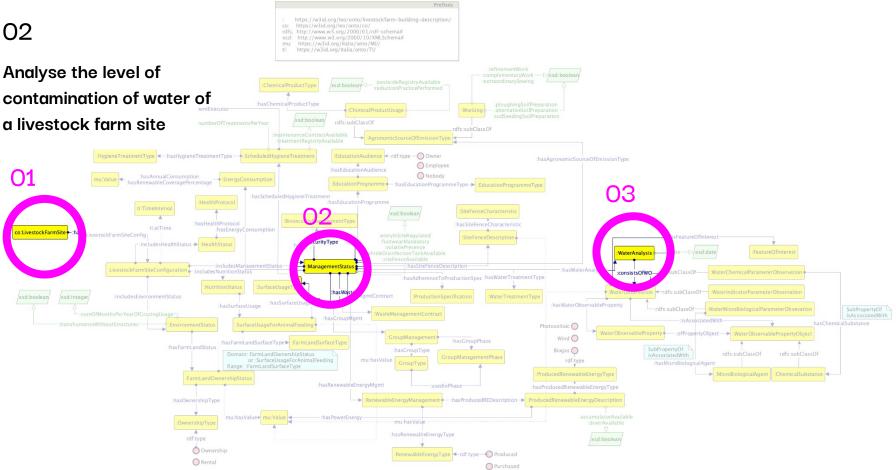
^{*}ISPRA map

Geolocate each livestock farm

Prefixes https://w3id.org/leo/onto/co/ https://wi3id.org/italia/onto/l0/ 10: http://www.w3.org/2000/01/rdf-schema# rdfs: http://www.w3.org/2002/07/owl# owl: http://www.w3.org/1999/02/22-rdf-syntax-ns# rdf: https://w3id.org/italia/onto/CLV/ clv: https://w3id.org/italia/onto/TI/ ti: animal: https://w3id.org/leo/onto/animal/



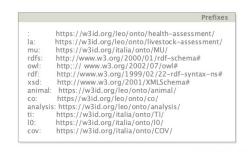
https://opendata.leo-italy.eu/lode/extract?url=https: //w3id.org/leo/onto/co&lang=it

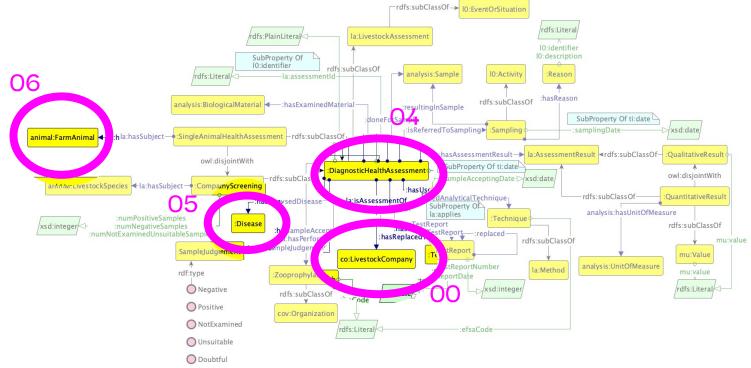


https://opendata.leo-italy.eu/lode/extract?url=https:

//w3id.org/leo/onto/livestockfarm-description

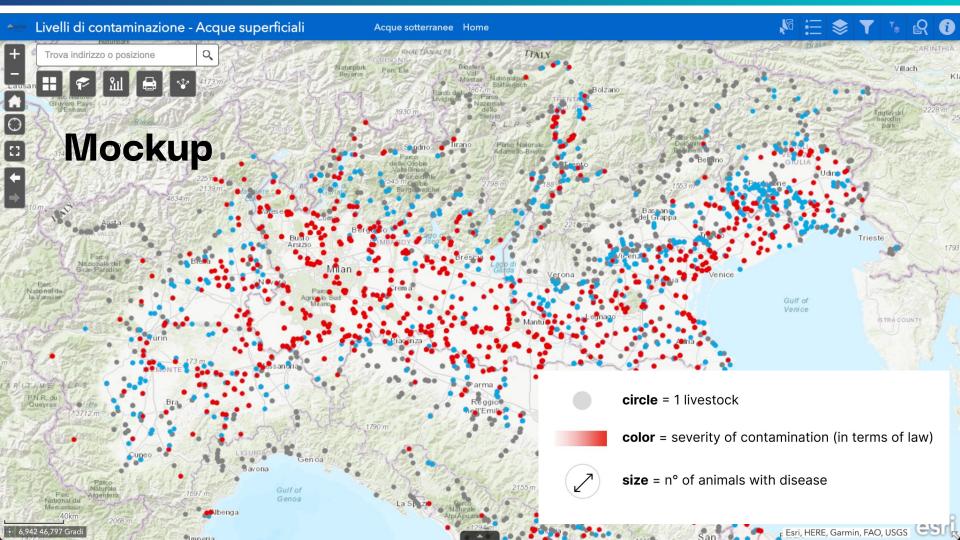
Correlate water quality with the animal well being





Output

Monitor the correlation between water quality and the incidence of diseases among animals, and map this relationship across the territory.



github