

Lao Package: An integrated data system

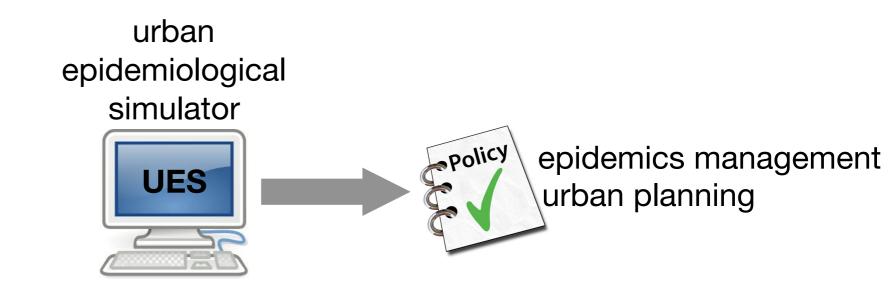
National Stakeholder Meeting 29 November 2019, Vientiane, Lao PDR

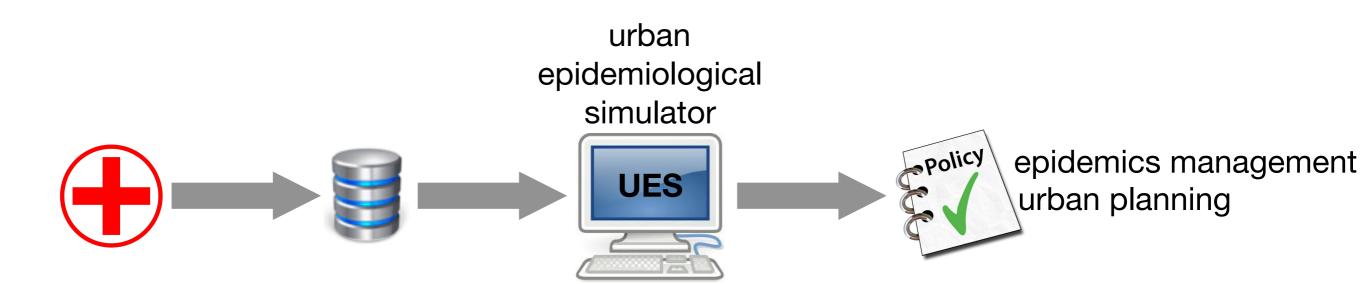
Marc Choisy IRD Hanoi, Vietnam

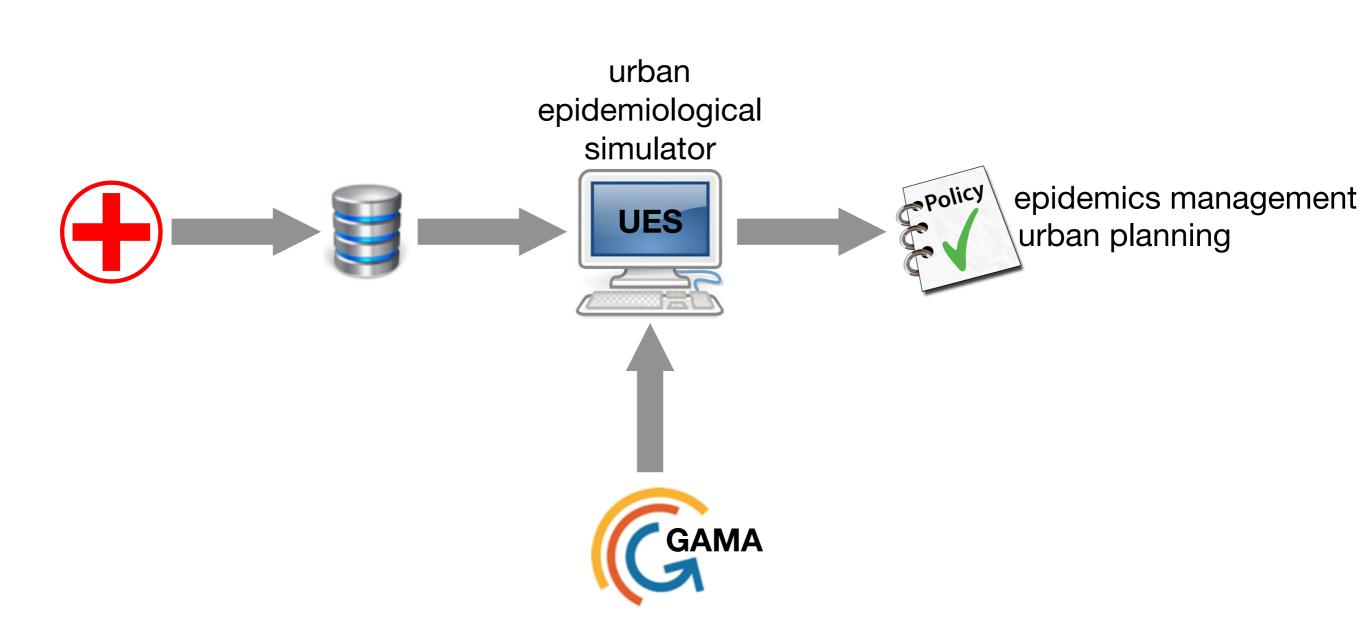


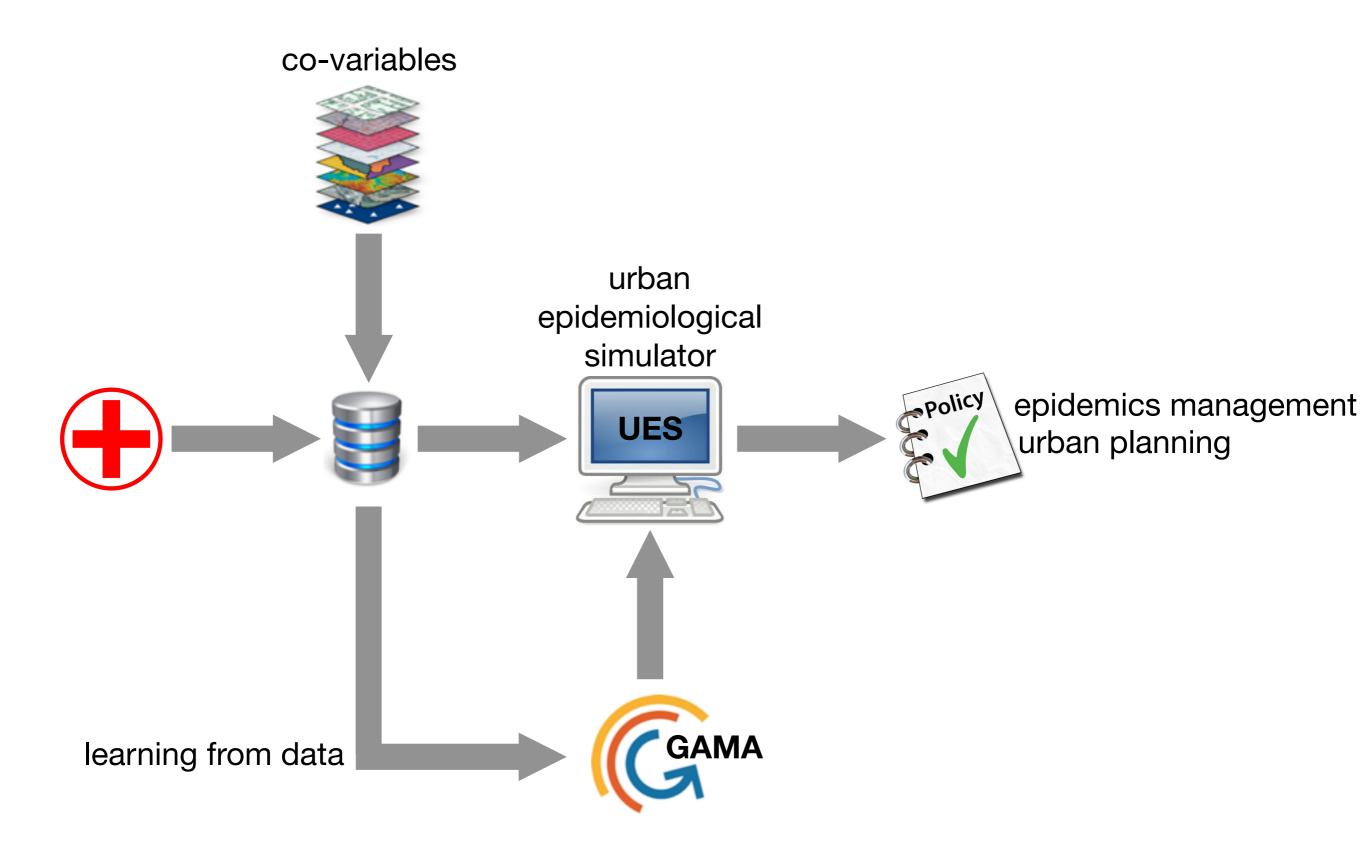
urban epidemiological simulator

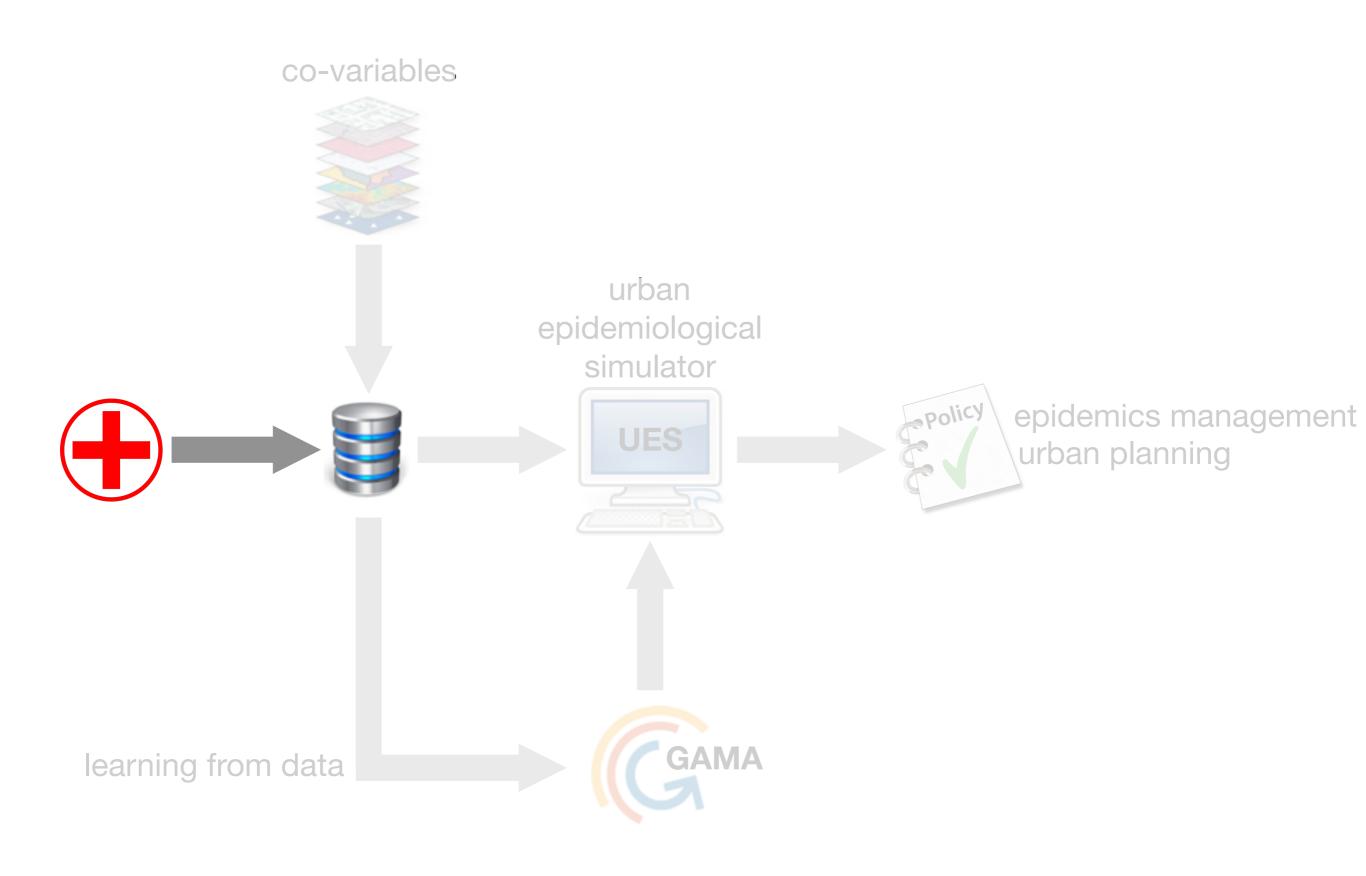


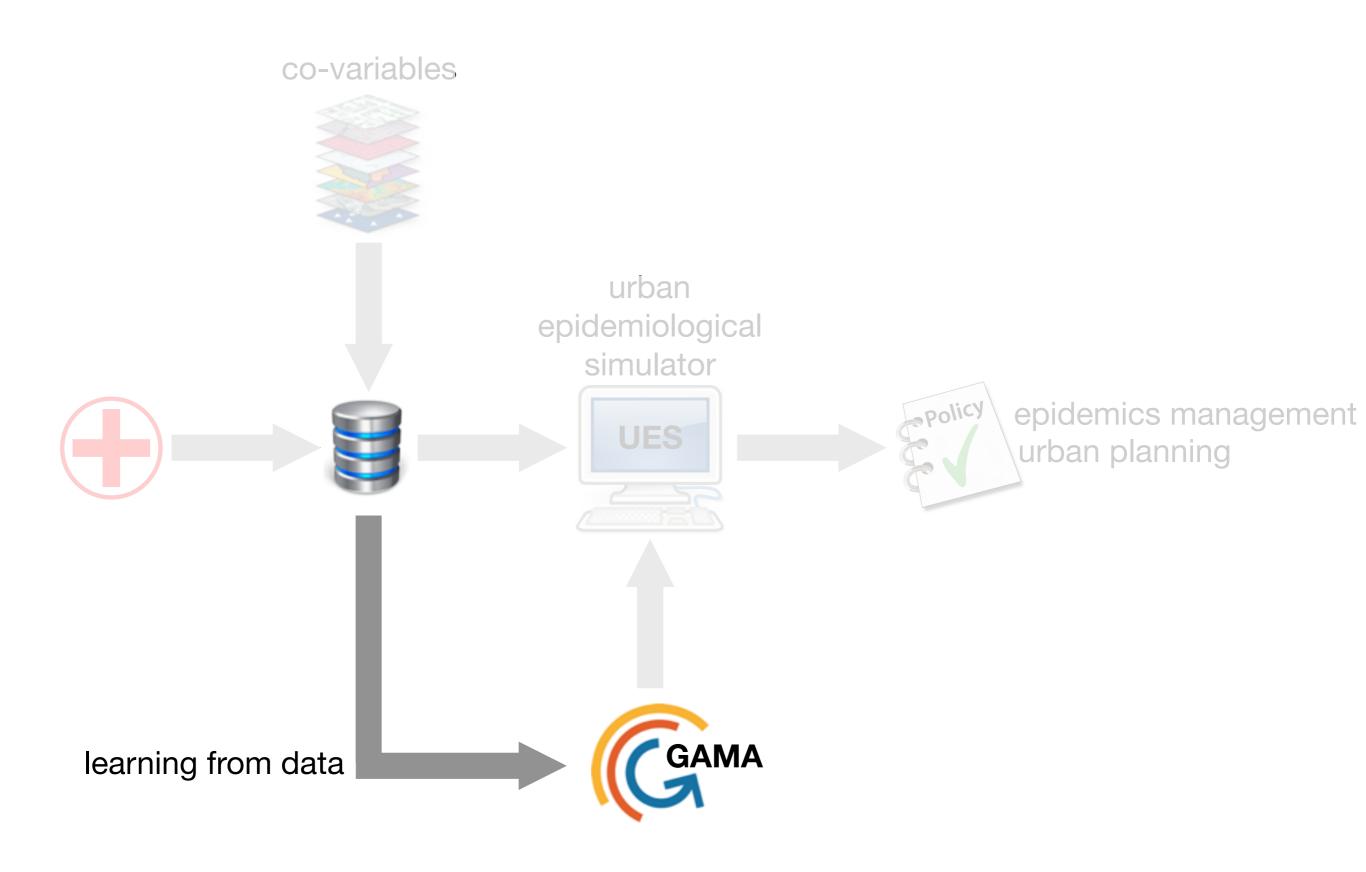


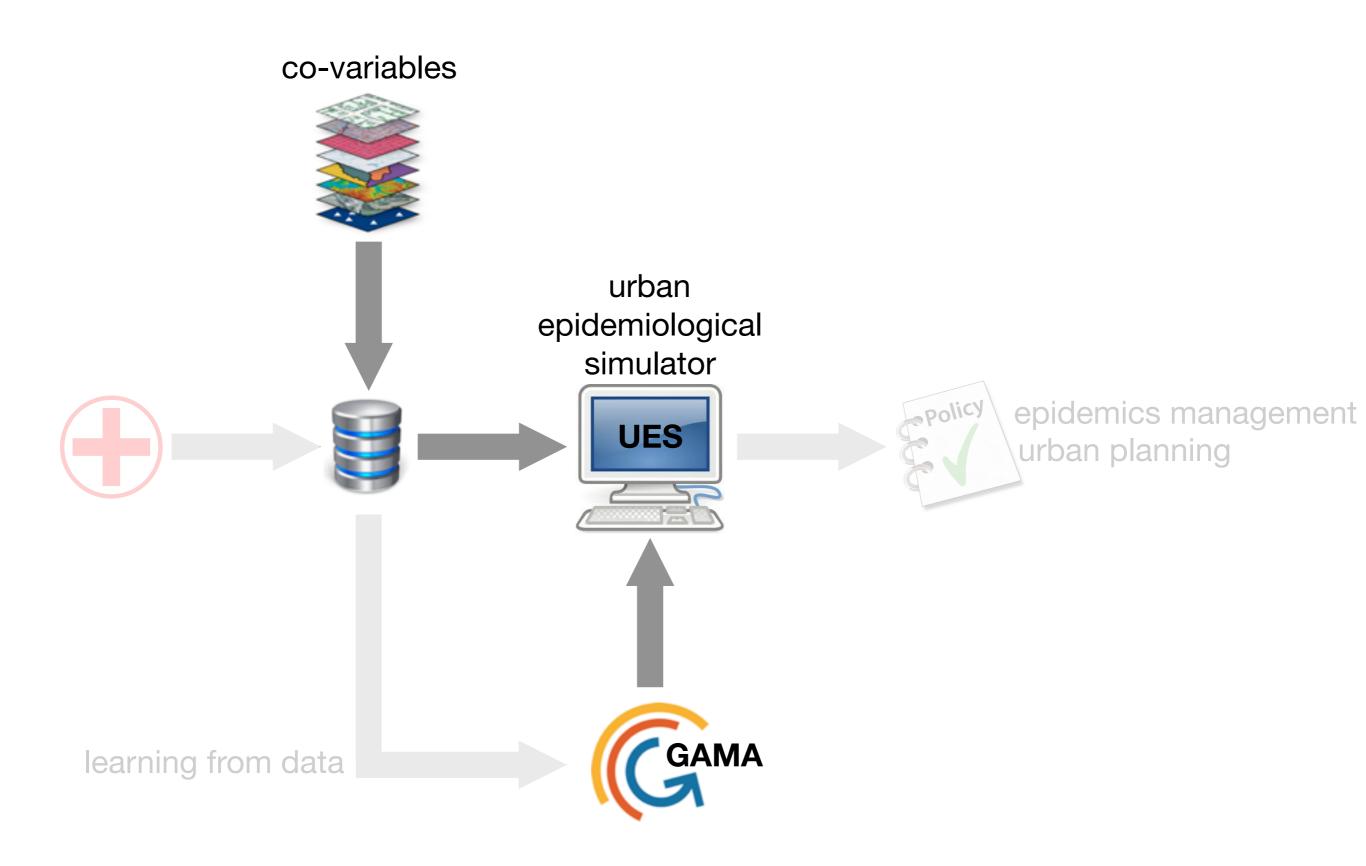


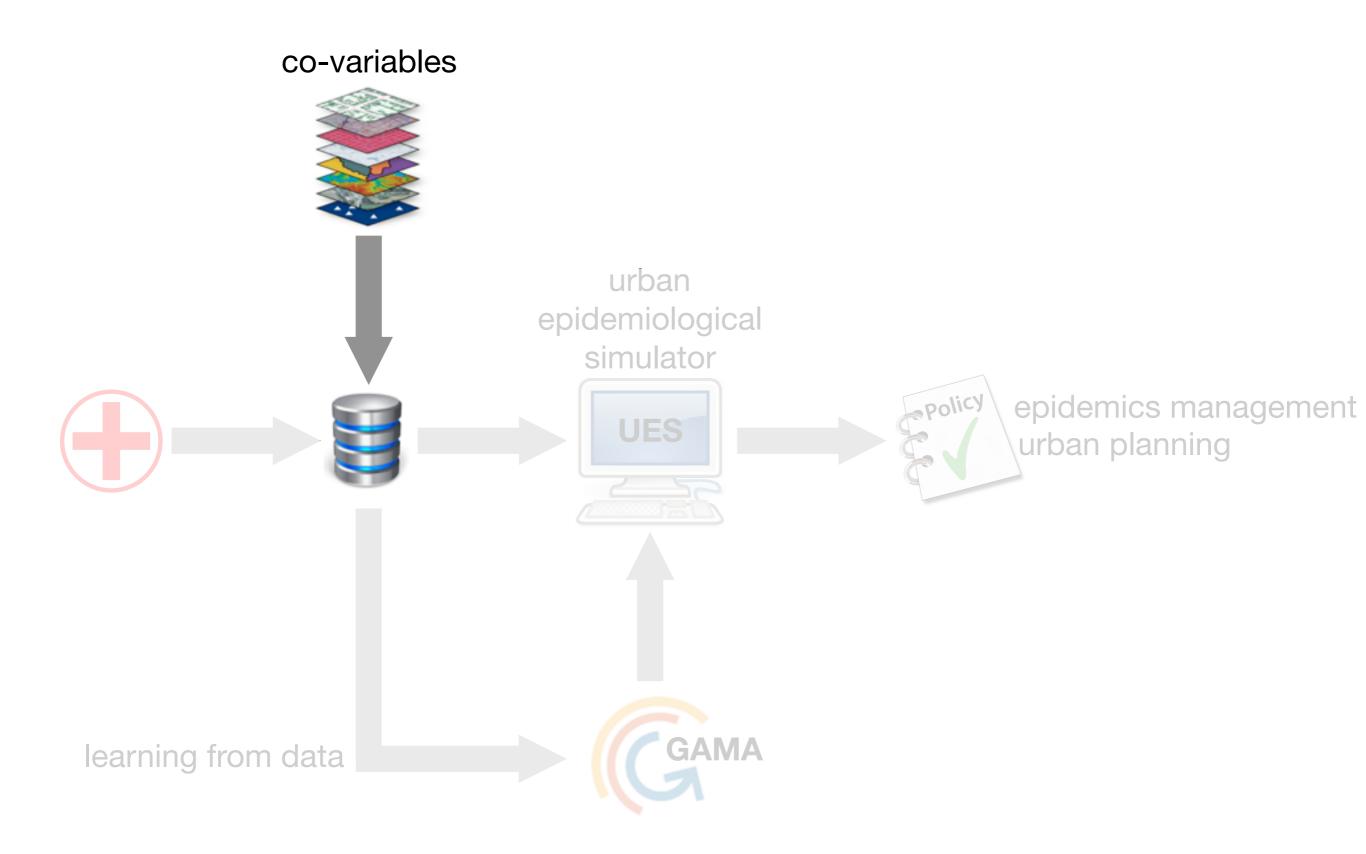














Ecomore2-generated:

- entomology: density and resistance of mosquitoes (2019)
- •seroprevalence: population immunity (2019)
- cases localities: home GPS coordinates



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available data:



census 2015 shapefiles 2005, 2015



daily and seasonal population movements



mobile phone data



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daily and seasonal population movements



GLOBAL + OPEN ACCESS

	variables	spatial resolutions	temporal resolutions
GHSL European Commission	building density	38 m	1990, 2000, 2014
World To The Market State of the Control of the Con	population density	100 m	2000 → present
GLOBCOVER	land cover	300 m	2005, 2009
LANDSAT Data Continuity Mission NASA · USGS	surface temperatures	38 m	2018, monthly
SENTINEL 2	water bodies	polygons	2019
OpenStreetMap	indexes of centrality	GPS coordinates	real time











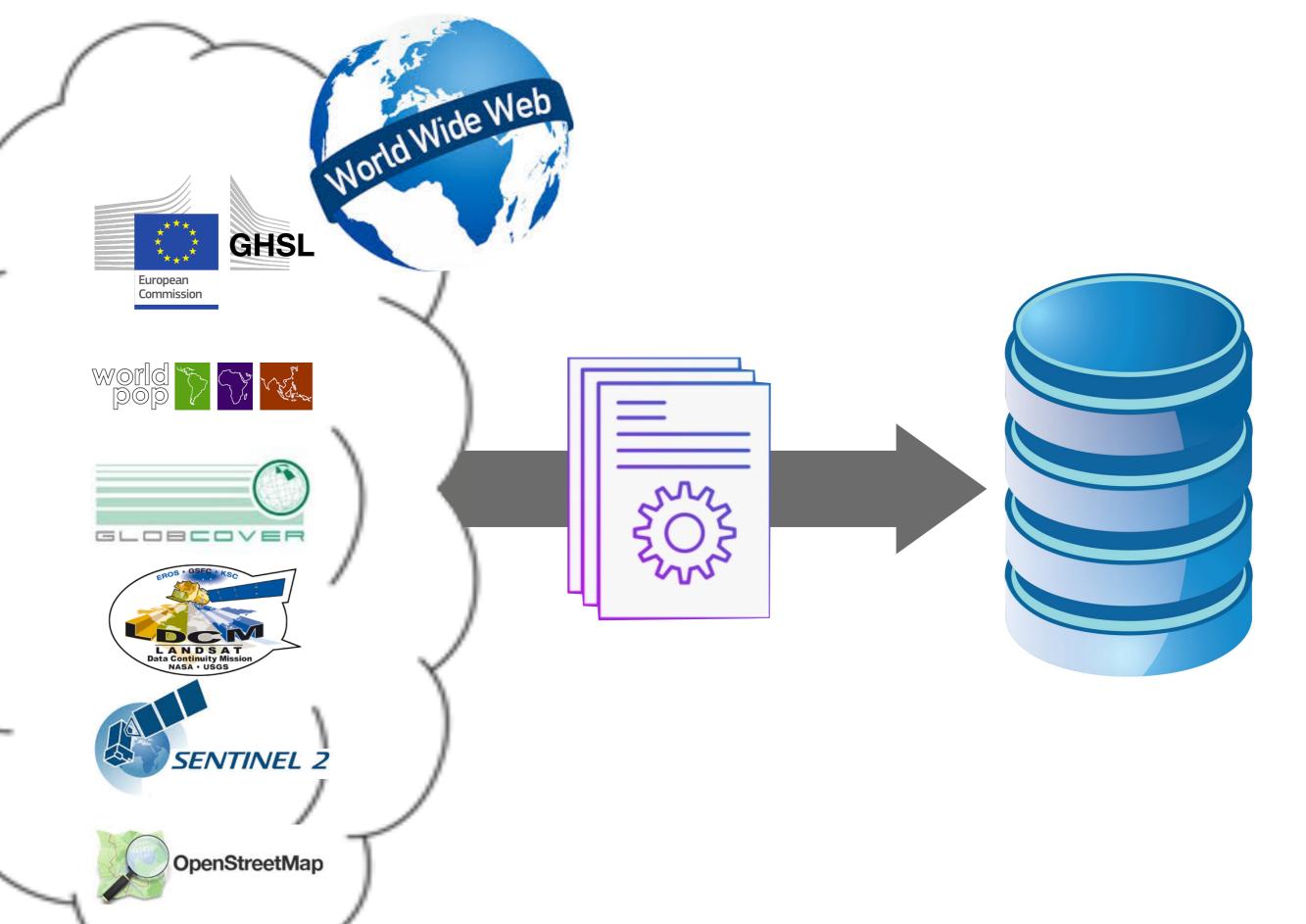




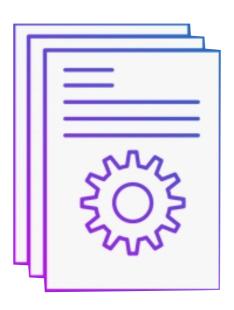




OpenStreetMap

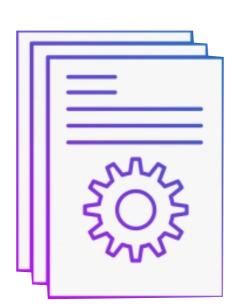


- fixing villages names and definitions
- automating LANDSAT and Sentinel

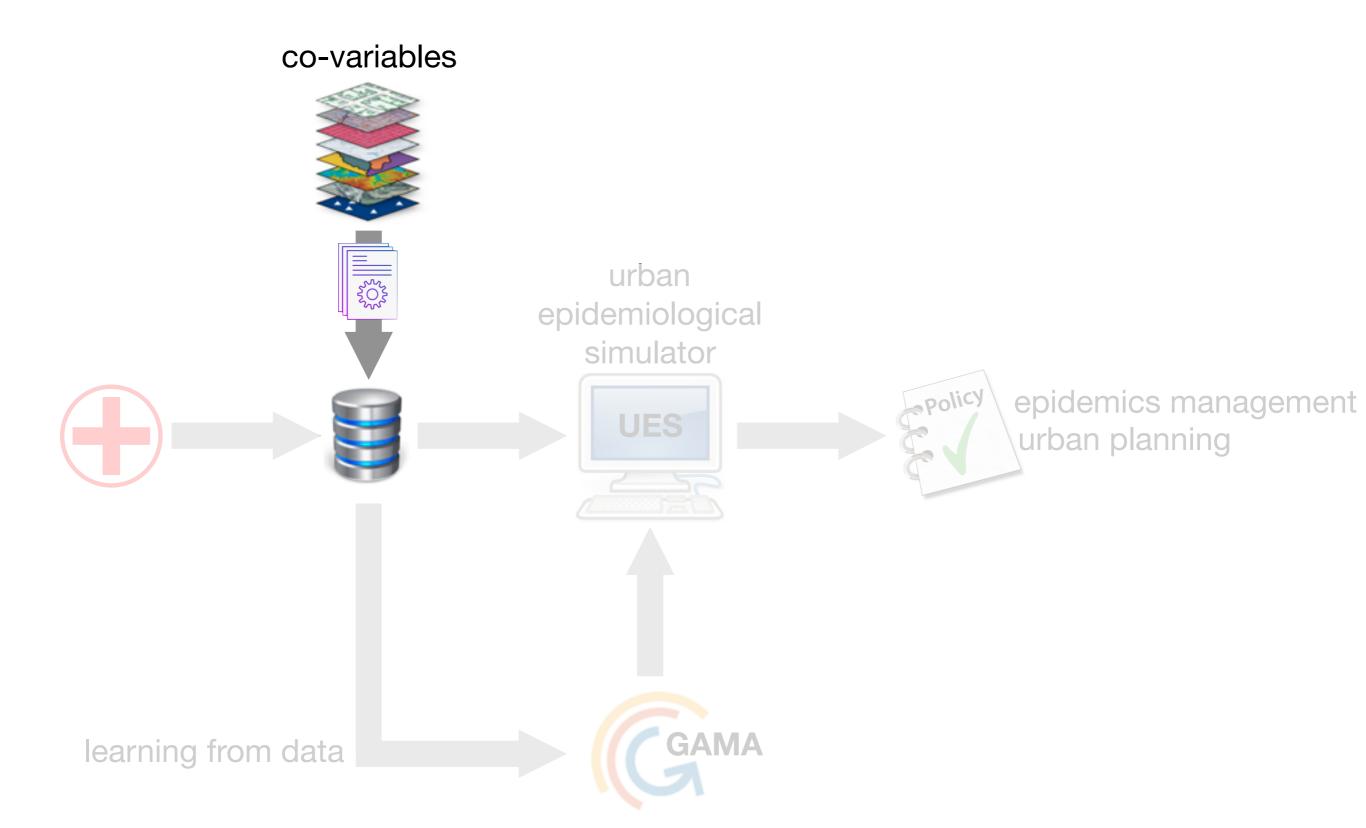




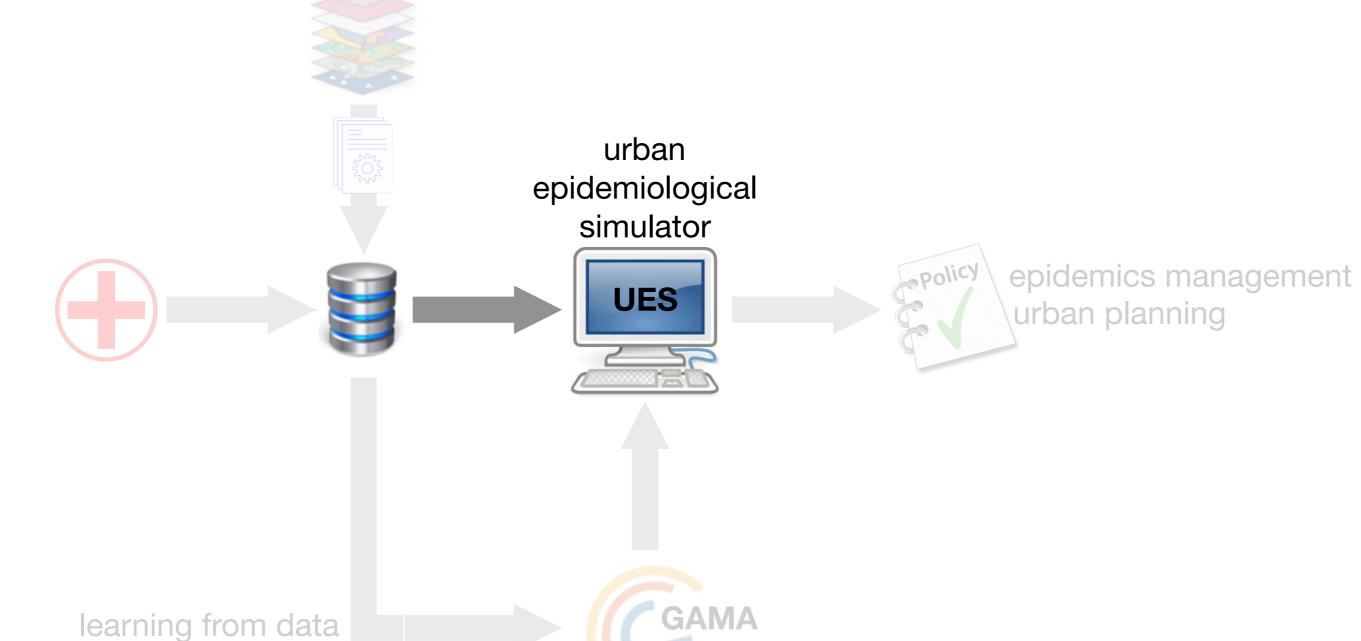
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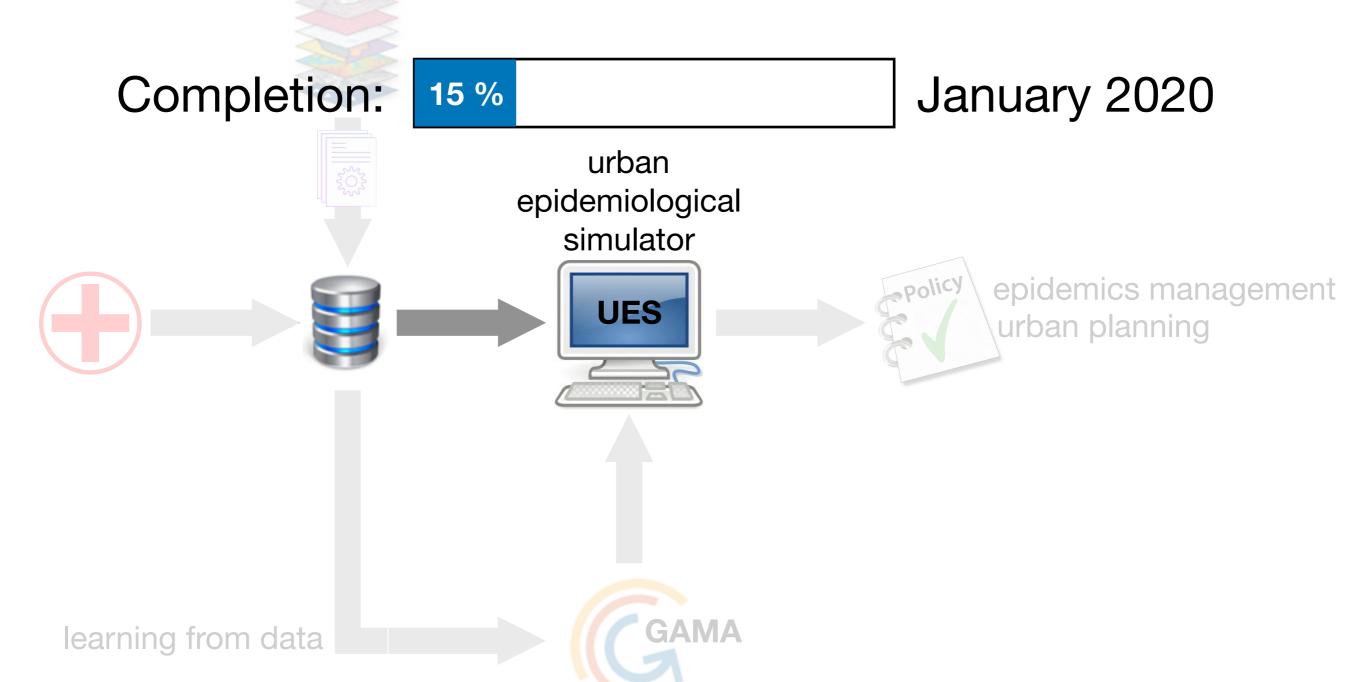
https://github.com/ecomore2 https://ecomore2.github.io



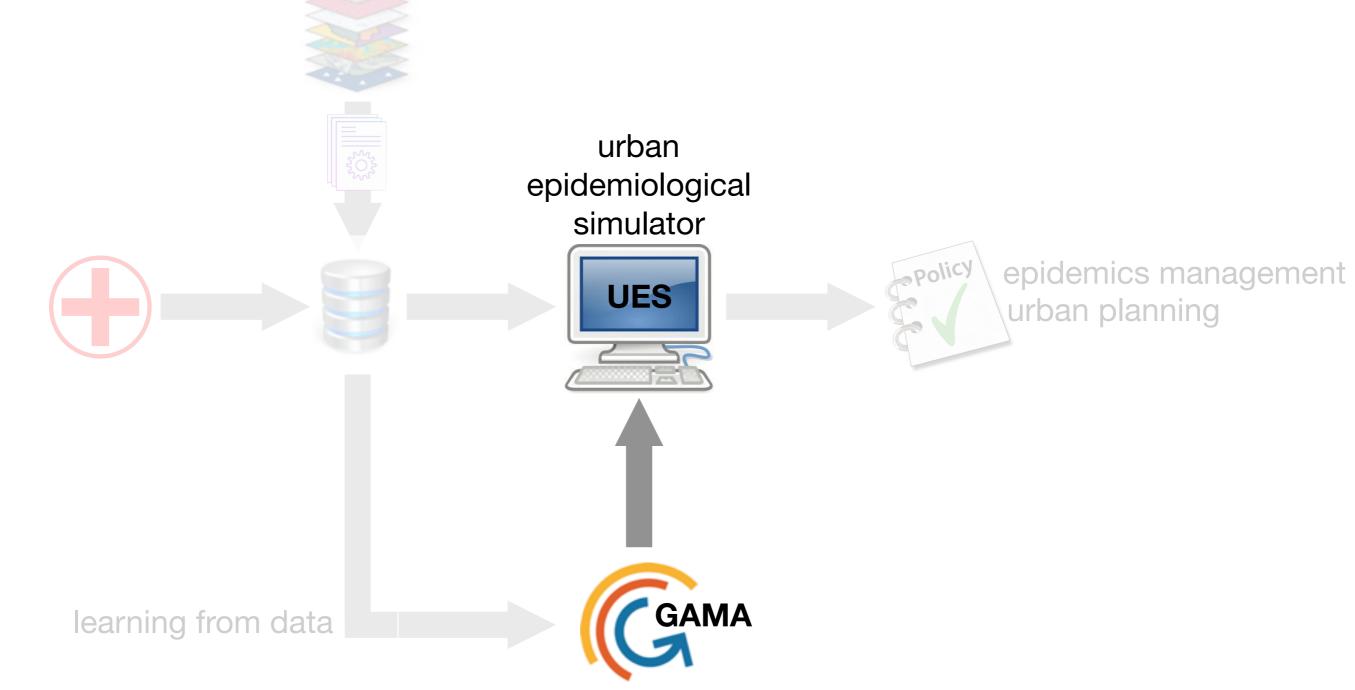
Data visualization dashboard



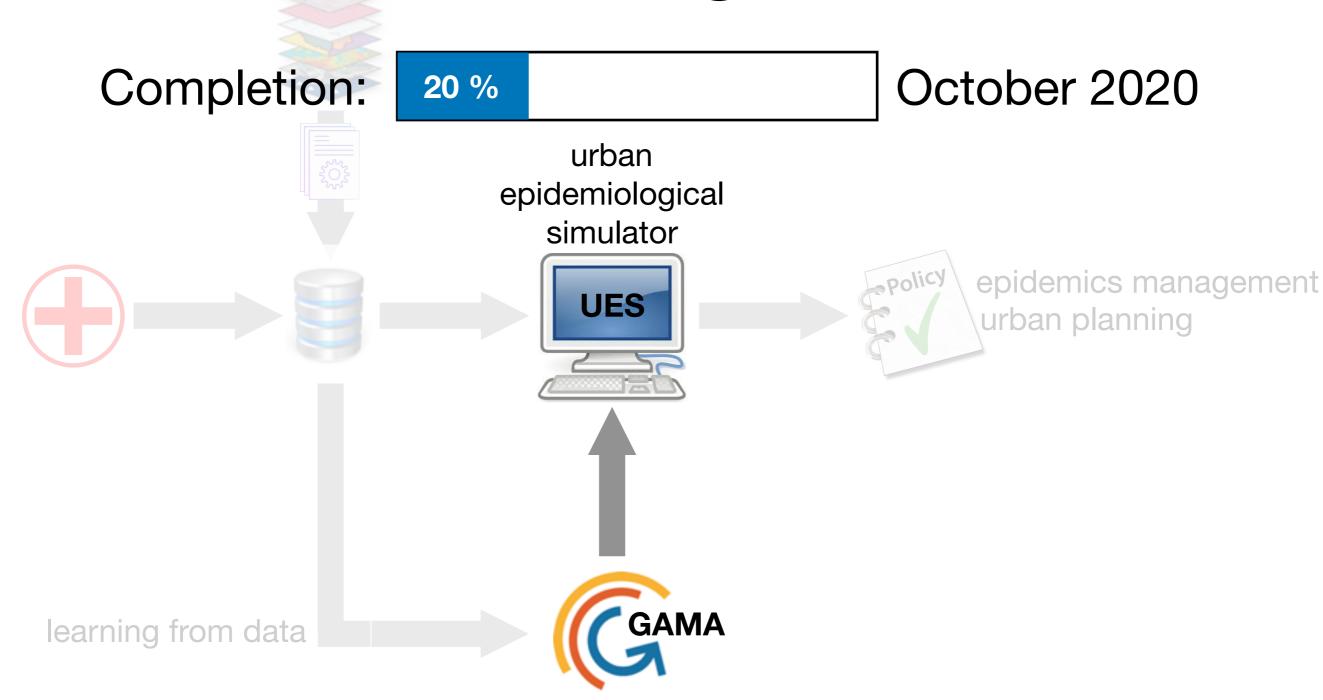
Data visualization dashboard



Urban epidemiological simulator



Urban epidemiological simulator







https://r-and-gama.github.io/gamar



Toulouse, France, July 9-12 2019

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Thank you!

http://bit.ly/ecomore2sc3Lao_data

