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Spatial Data Analysis of COVID-19 in Makassar

Devisari Tunas

Scenario Coordinator for Archipelago Cities

Future Cities Laboratory Singapore

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Spatial Data Analysis of COVID-19 in Makassar

Aims:

- Identify potential spatial pattern of the pandemic
- Identify potential vulnerable areas and communities
- Identify areas that need to be monitored/controlled

How:

- Using cross analysis of Multisectoral thematic data, Spatial data, and Social and economic indicators
- Data collection through the use of tablets and mobile devices by field-based medical front-line teams in Makassar



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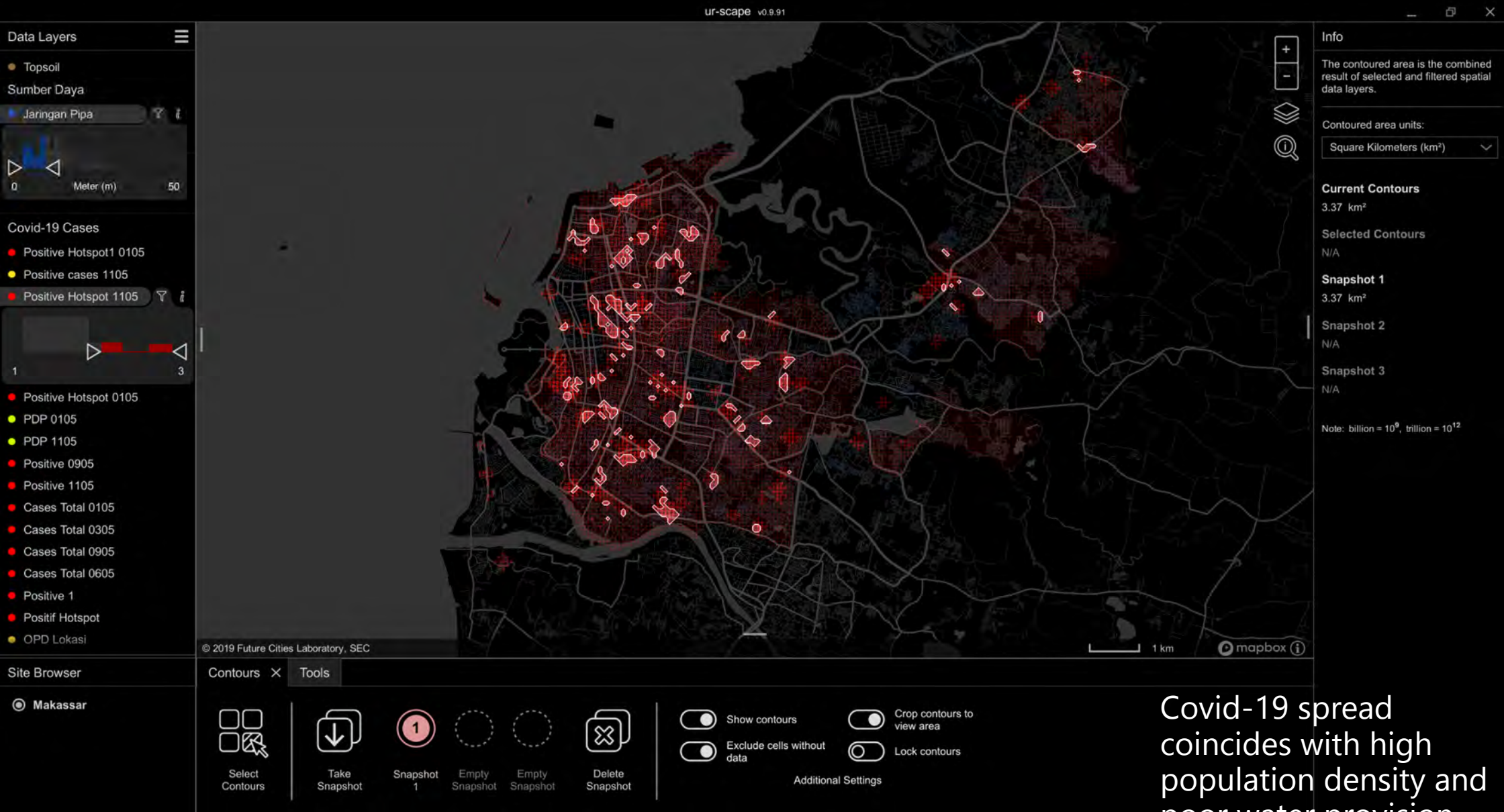


9 May 2020



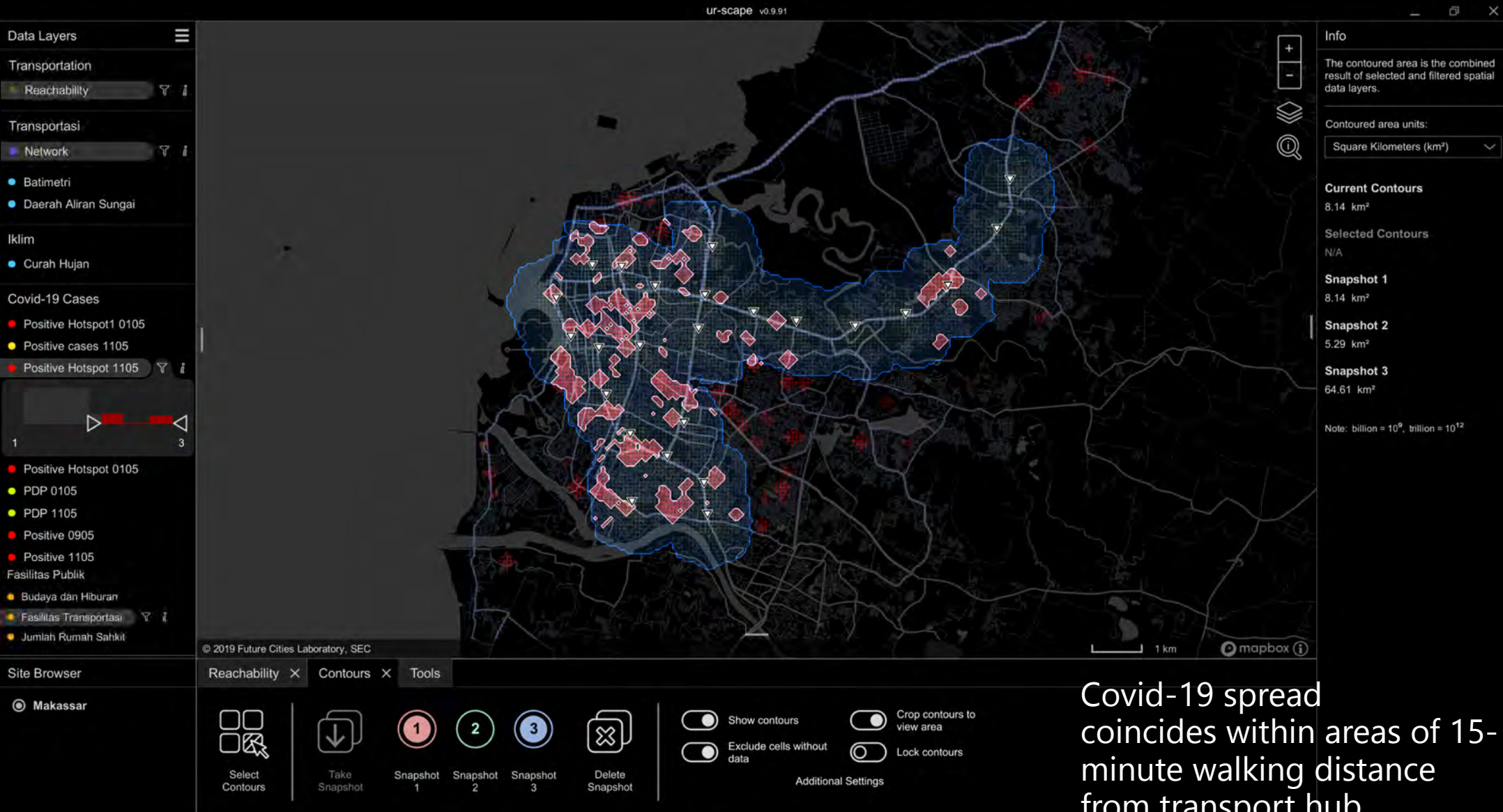
Covid-19 spread
coincides with high
population density

9 May 2020



Covid-19 spread coincides with high population density and poor water provision

9 May 2020



Results and recommendations

Results:

The result indicates relationships between COVID-19 transmission patterns and:

- Population density
- Land-use (i.e. centres of commerce, education facilities, student and worker dormitories, industrial areas)
- Main transport hubs and city main arteries
- Access to water
- Social-economic indicators (income level)

Recommendations:

- Post-COVID-19 planning requires a new paradigm and guidelines
- A need for multisectoral planning for future resilient cities





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Thank you!

Devisari Tunas

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devisari.tunas@arch.ethz.ch