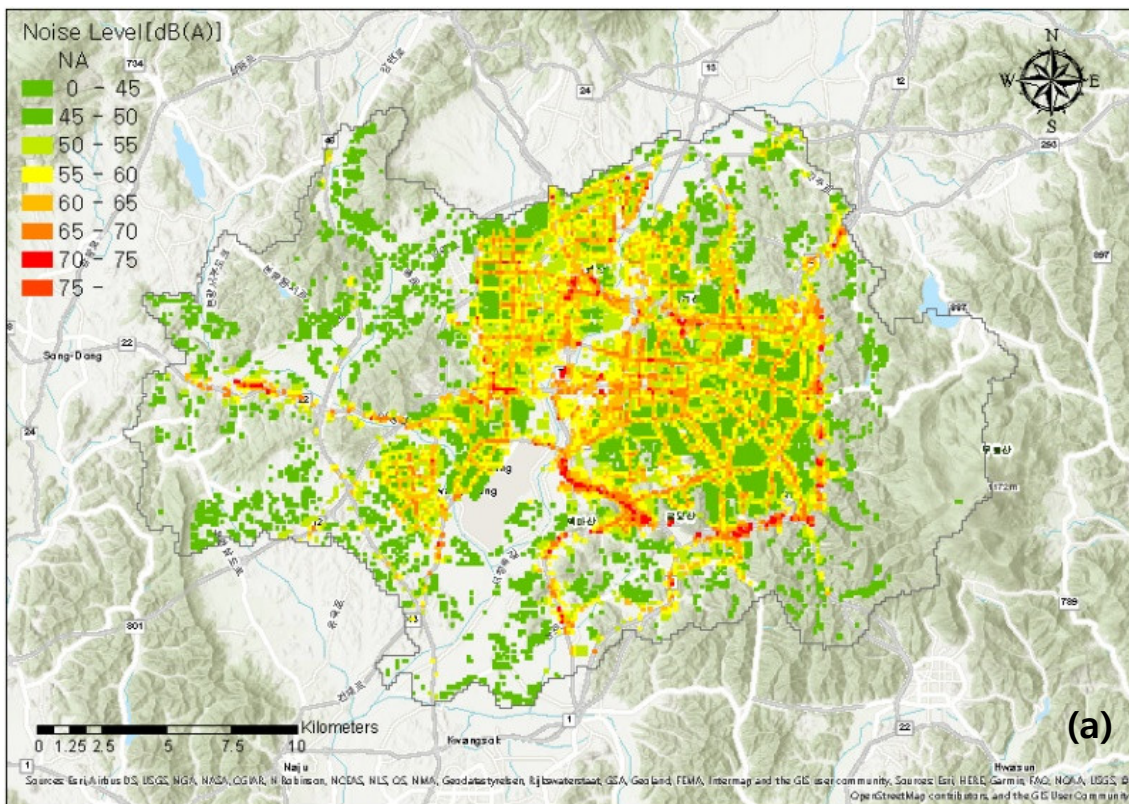
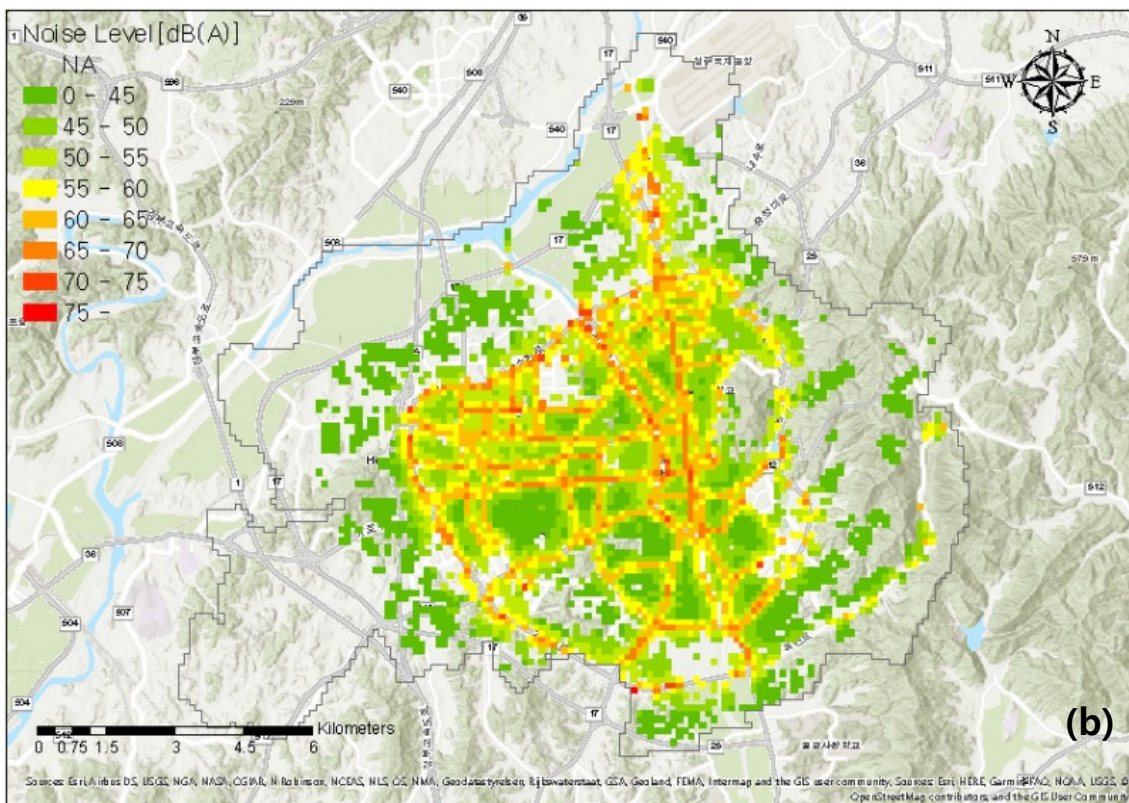


Supplement A

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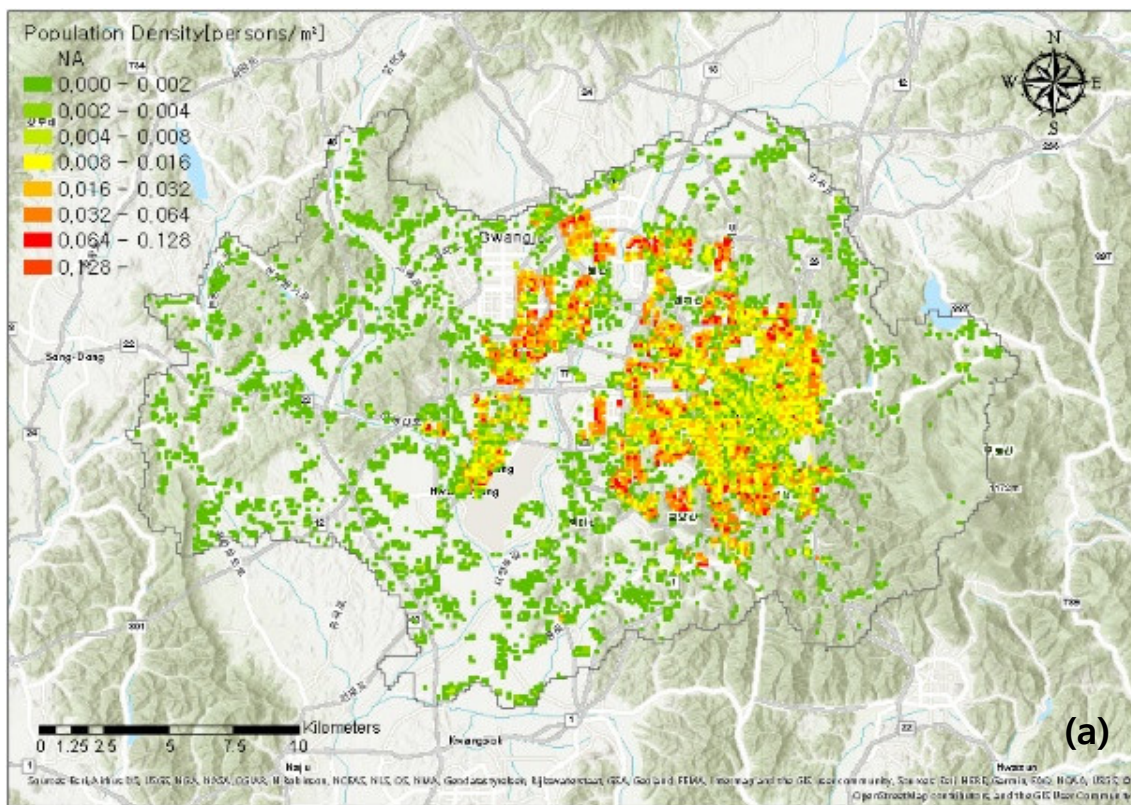


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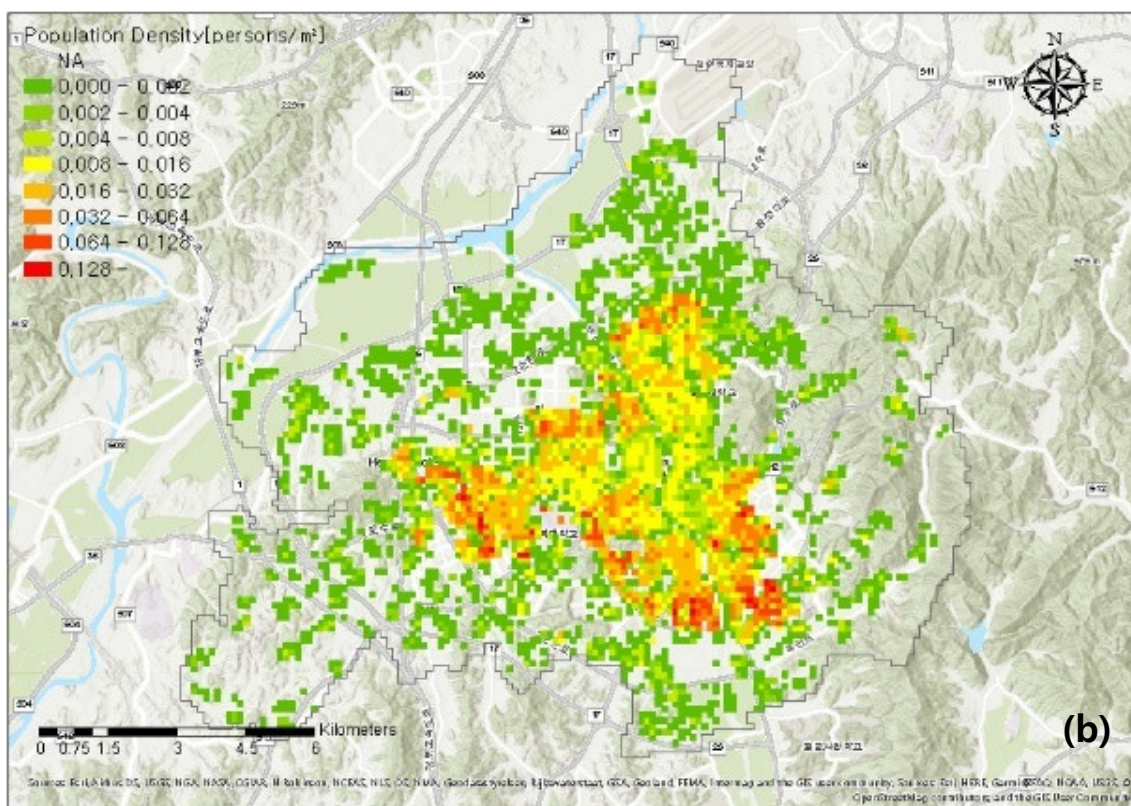
Figure S1. Grid maps of representative values for road-traffic noise level in: (a) Gwangju; (b) Cheongju [44-45].

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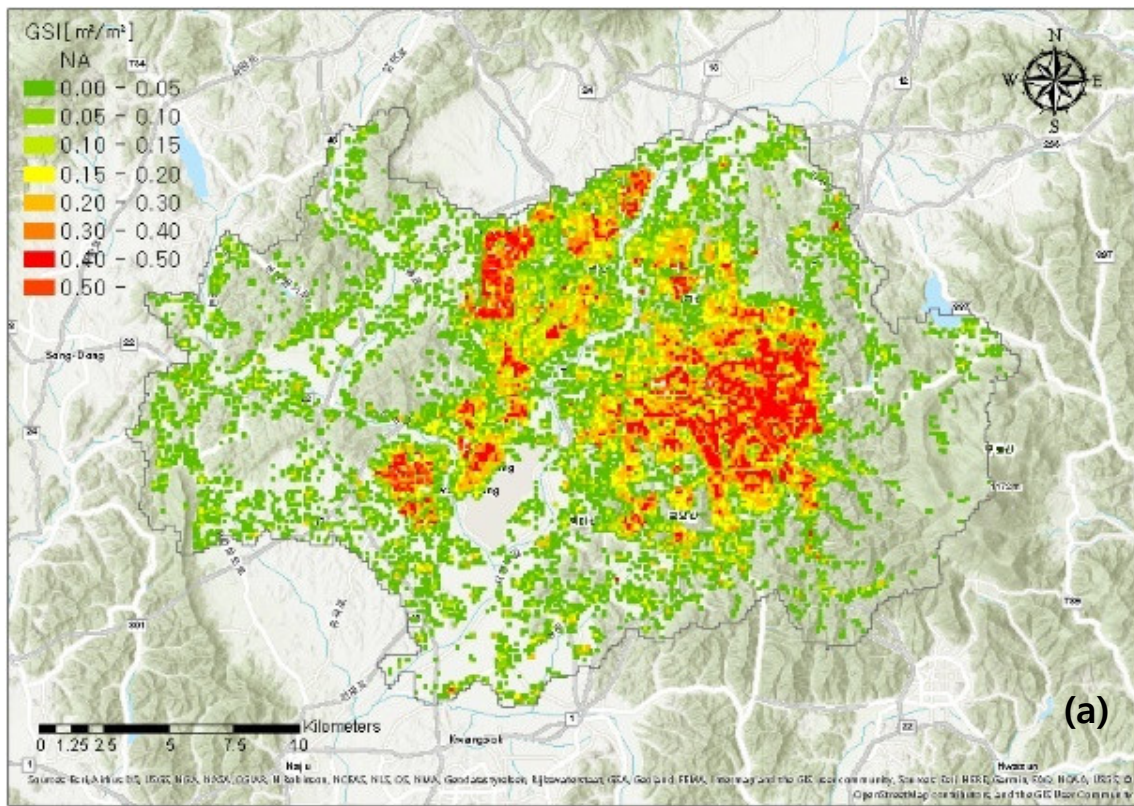
Figure S2. Grid maps of representative values for population density in: (a) Gwangju; (b) Cheongju [44-45].

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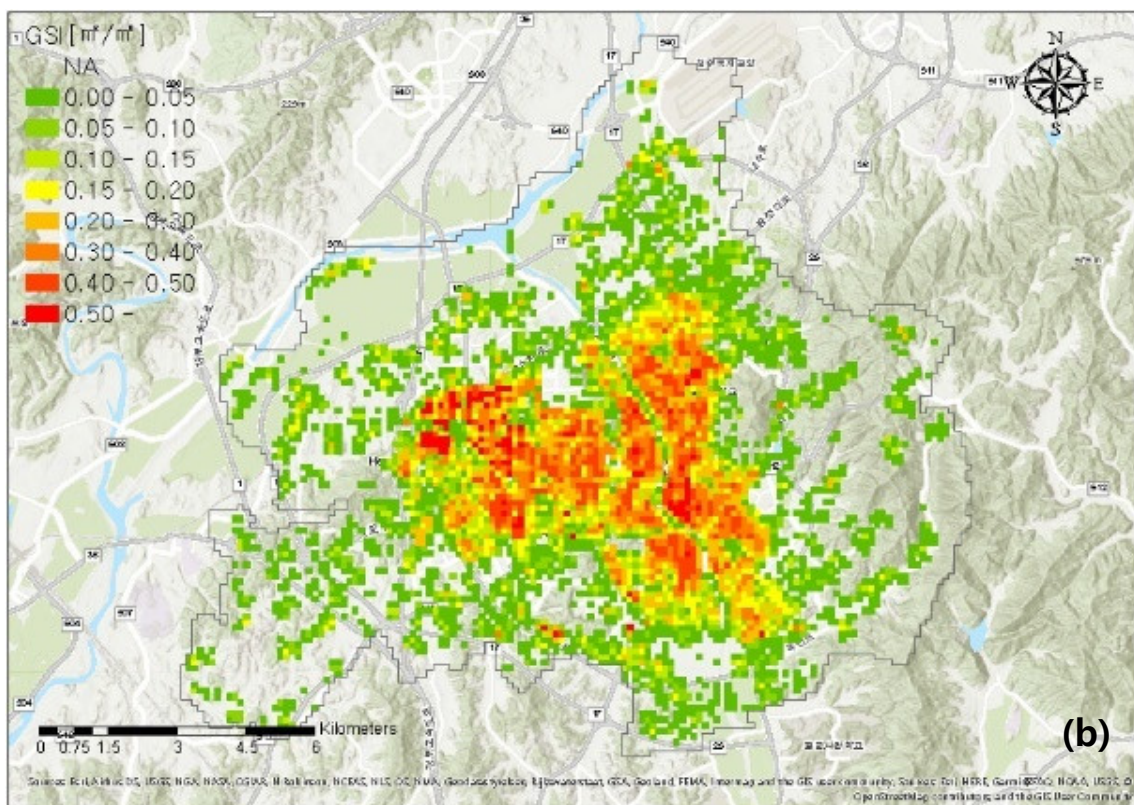
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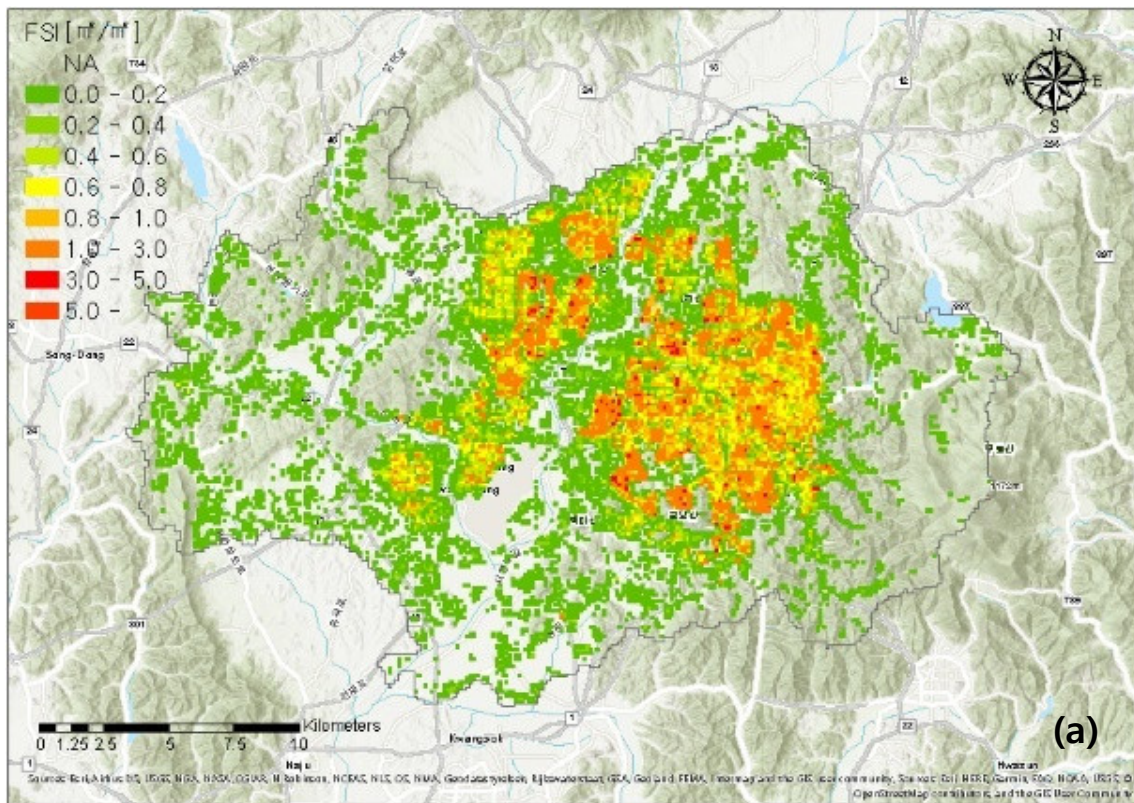
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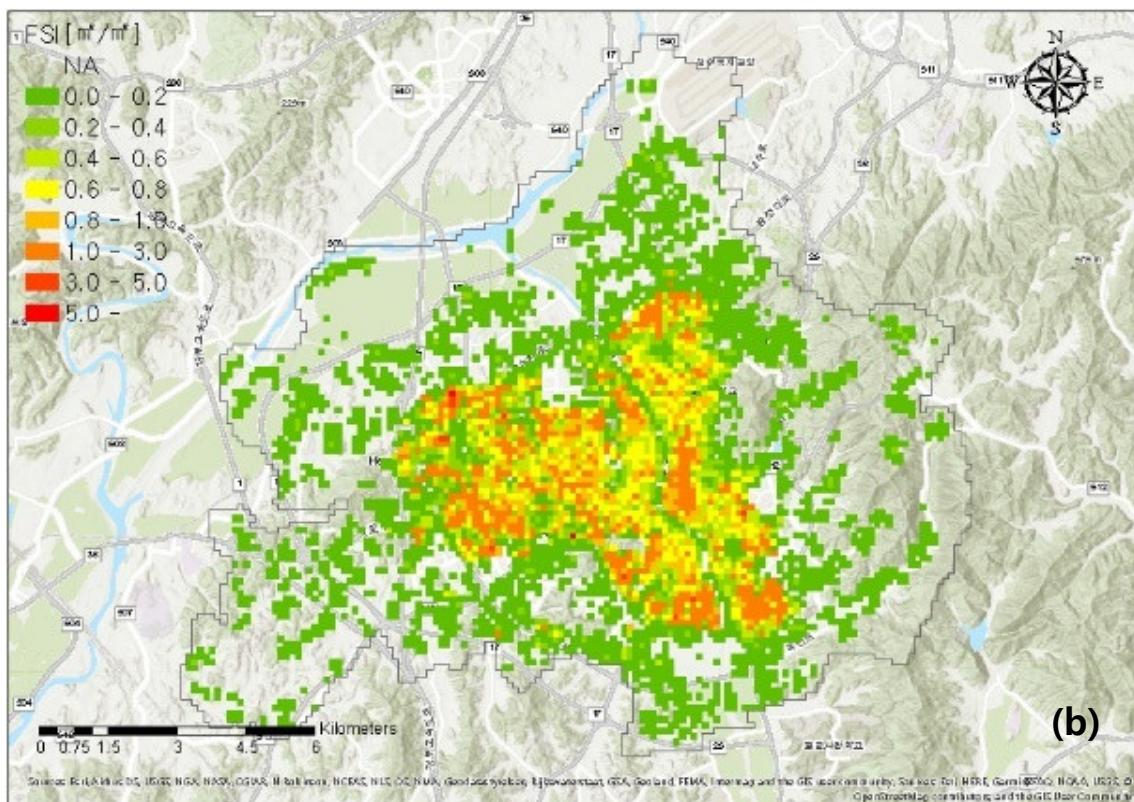
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Figure S3. Grid maps of representative values for ground space index in: (a) Gwangju; (b) Cheongju [44-45].





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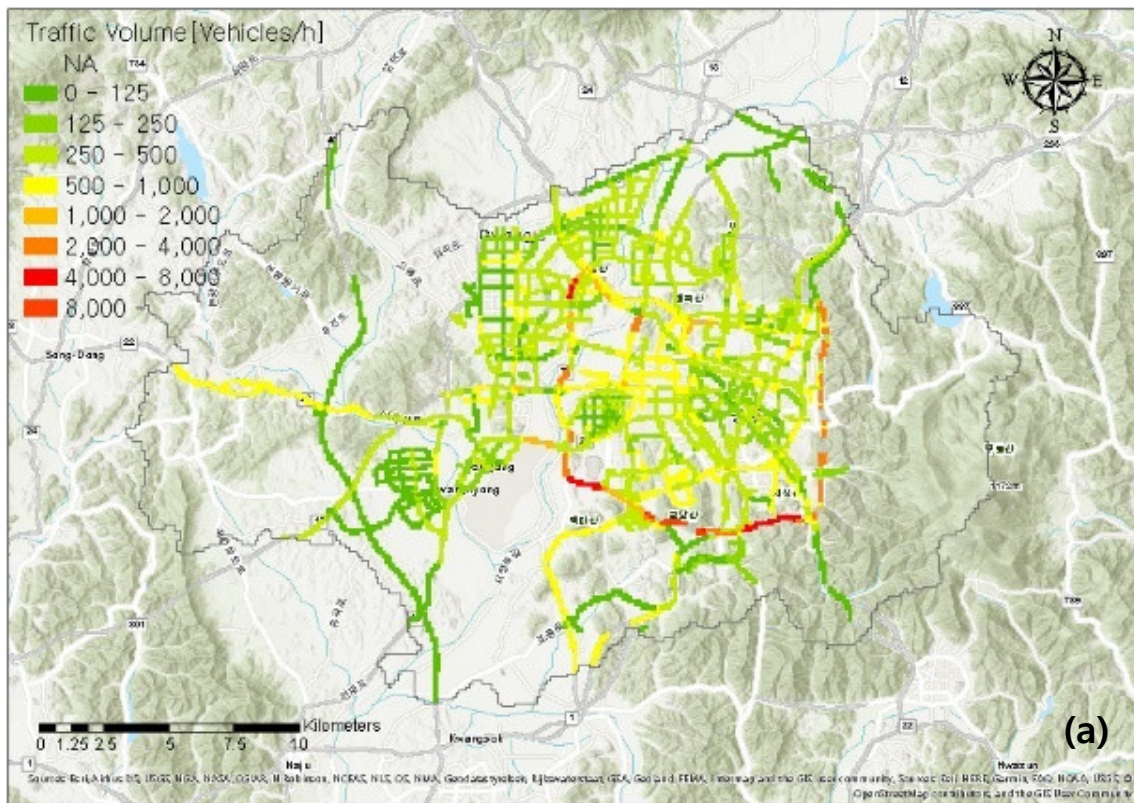


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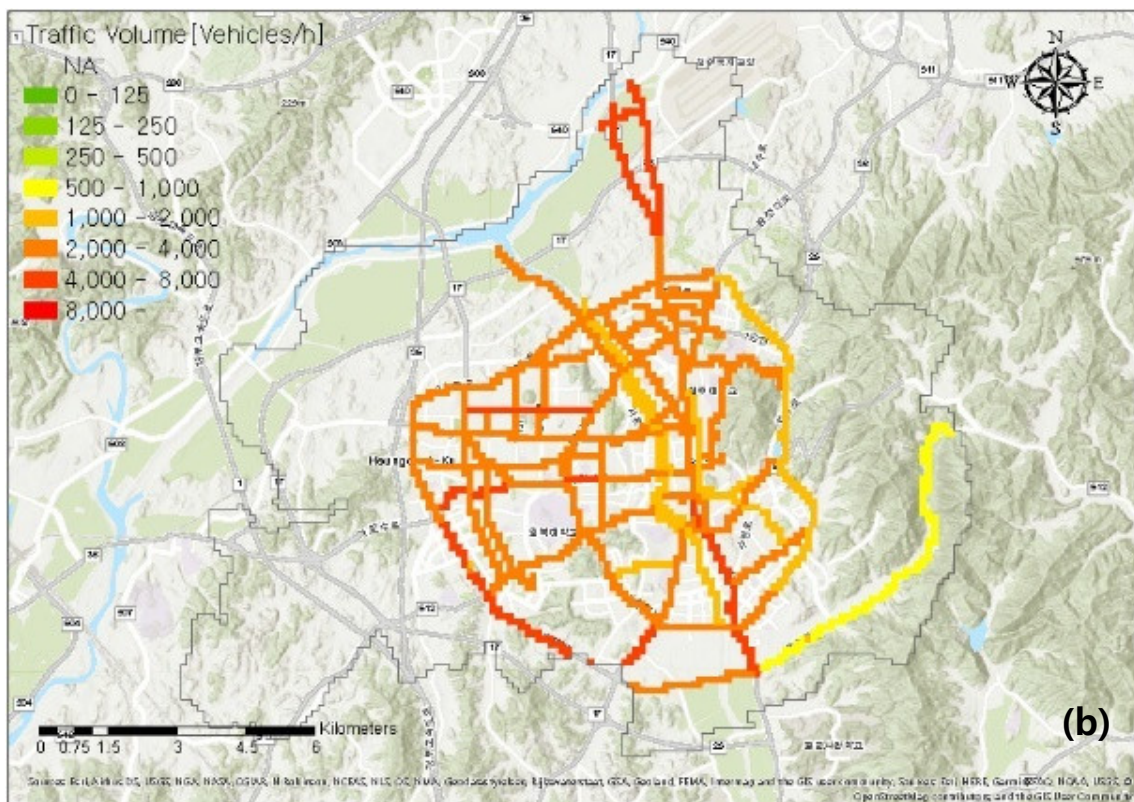
Figure S4. Grid maps of representative values for floor space index in: (a) Gwangju; (b) Cheongju [44-45].

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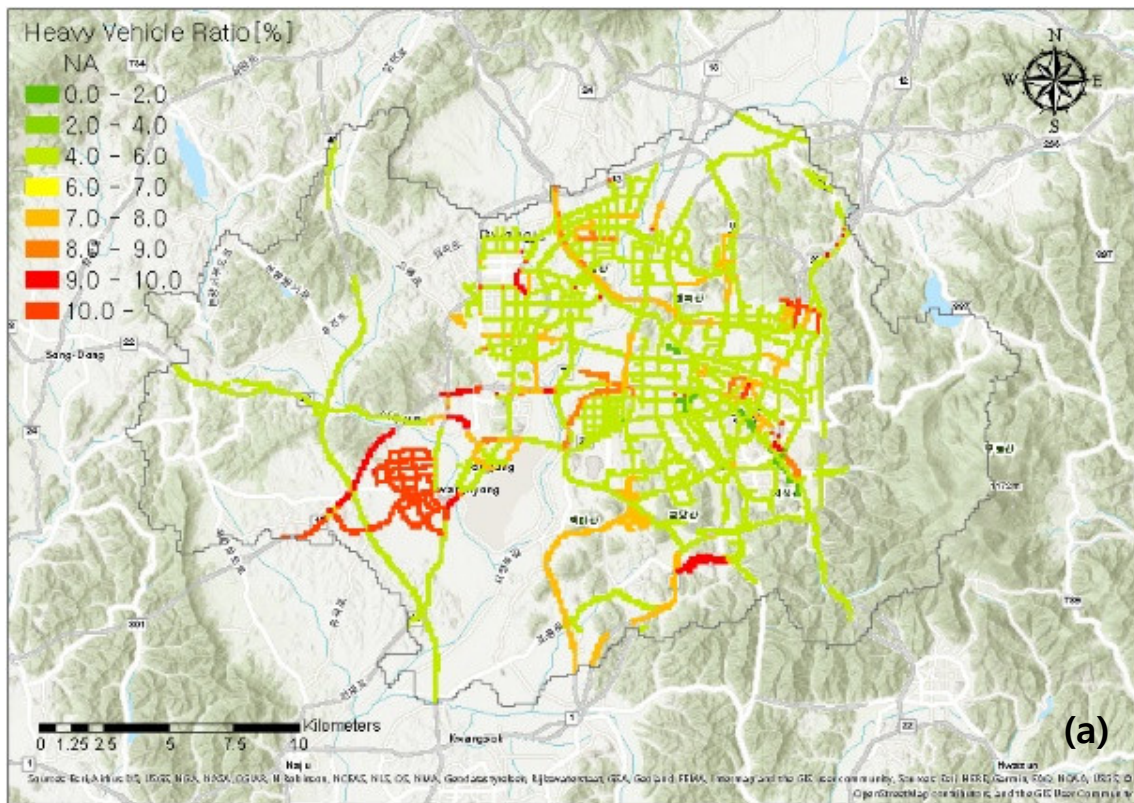


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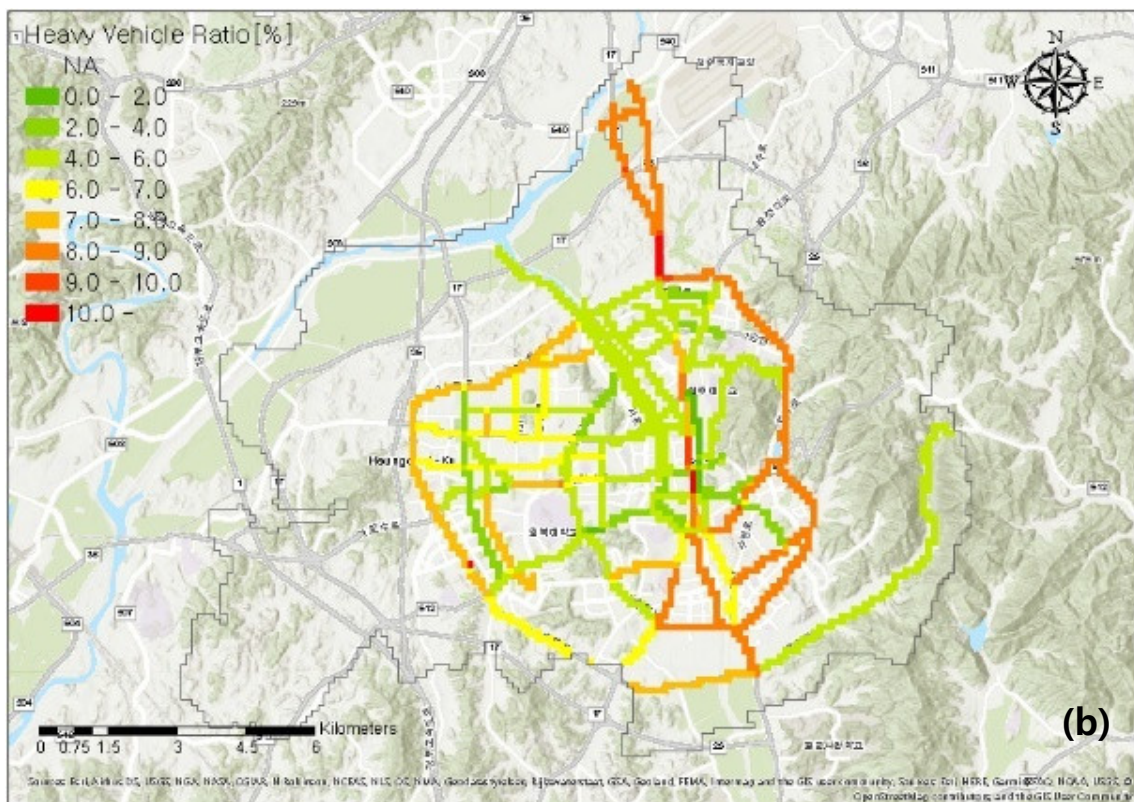
Figure S5. Grid maps of representative values for traffic volume in: (a) Gwangju; (b) Cheongju [44-45].

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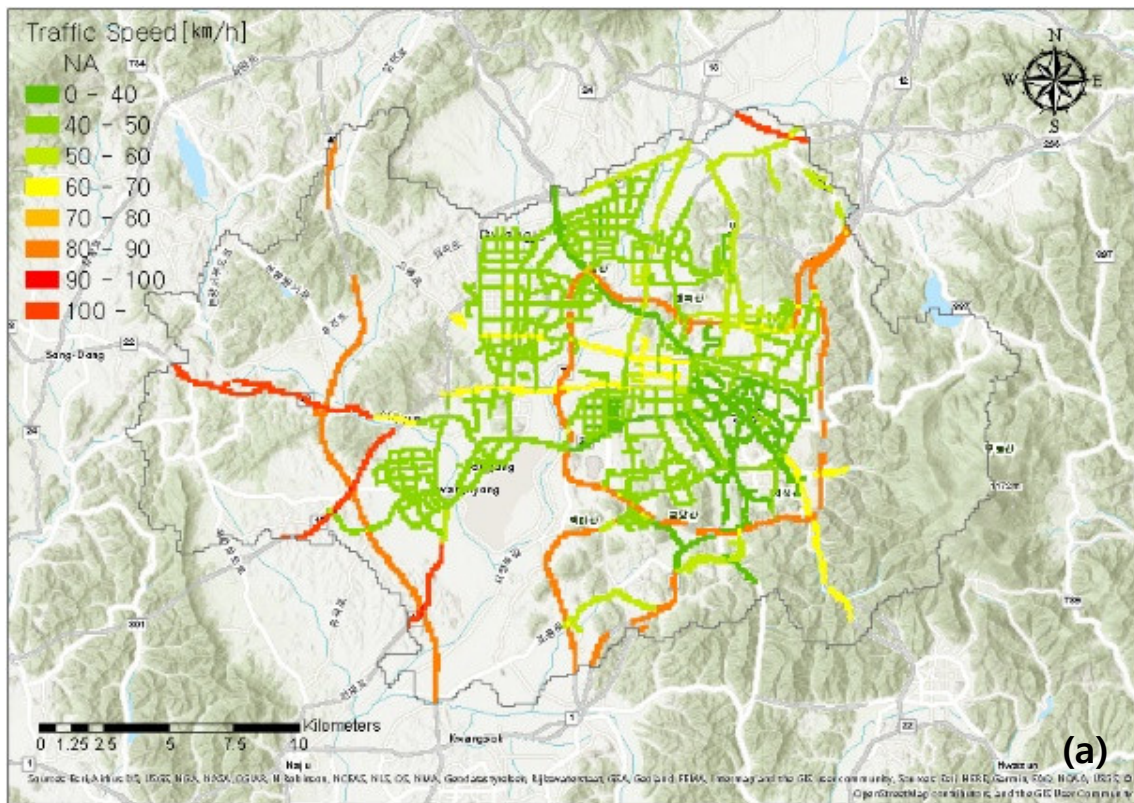


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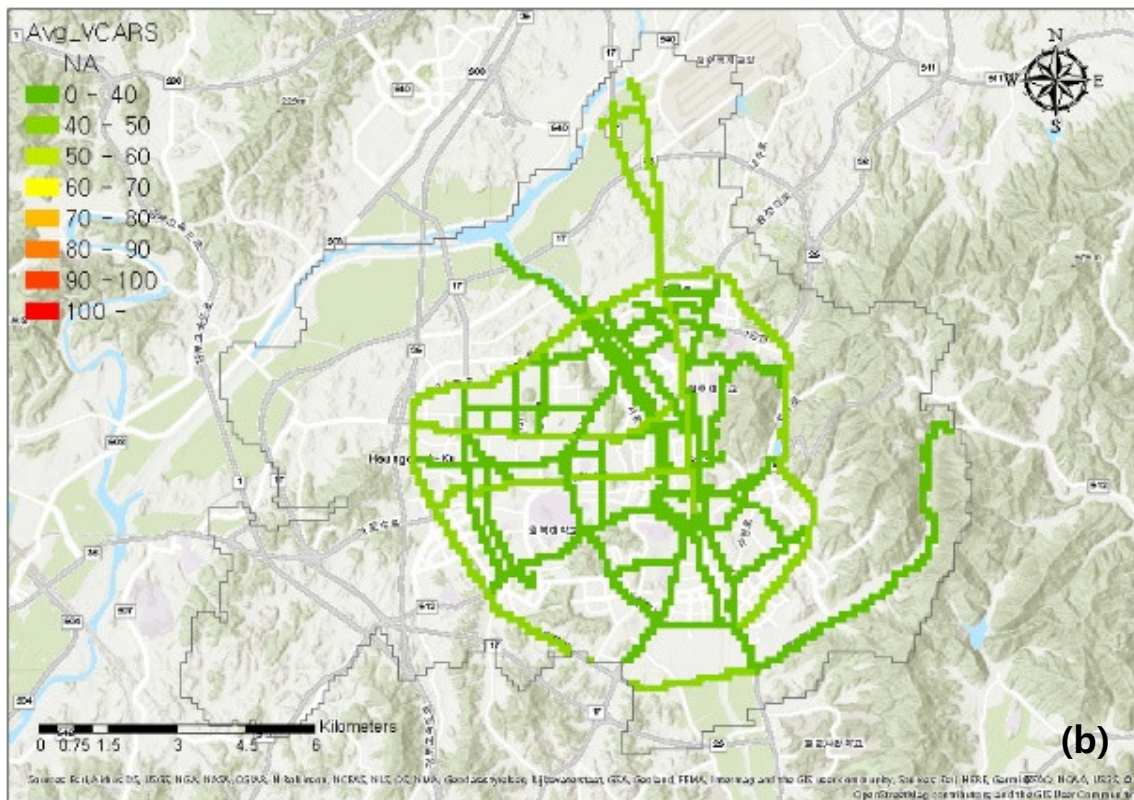
Figure S6. Grid maps of representative values for heavy vehicle ratio in: (a) Gwangju; (b) Cheongju [44-45].

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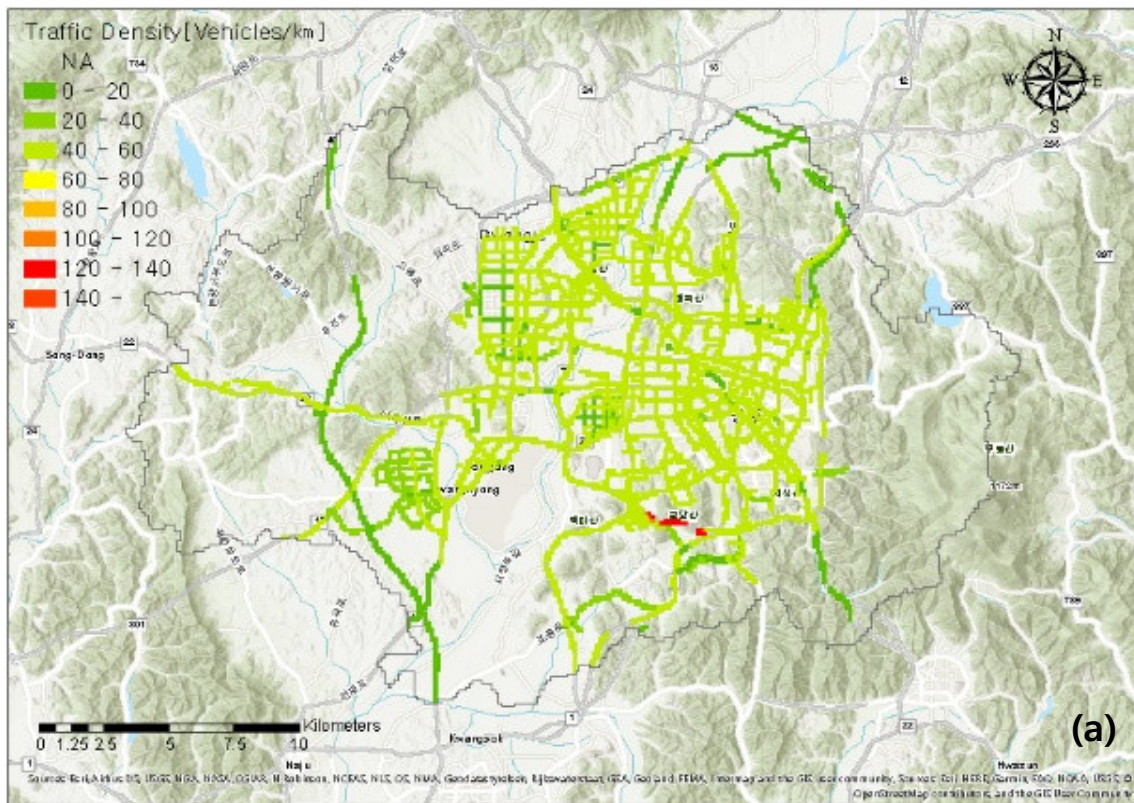


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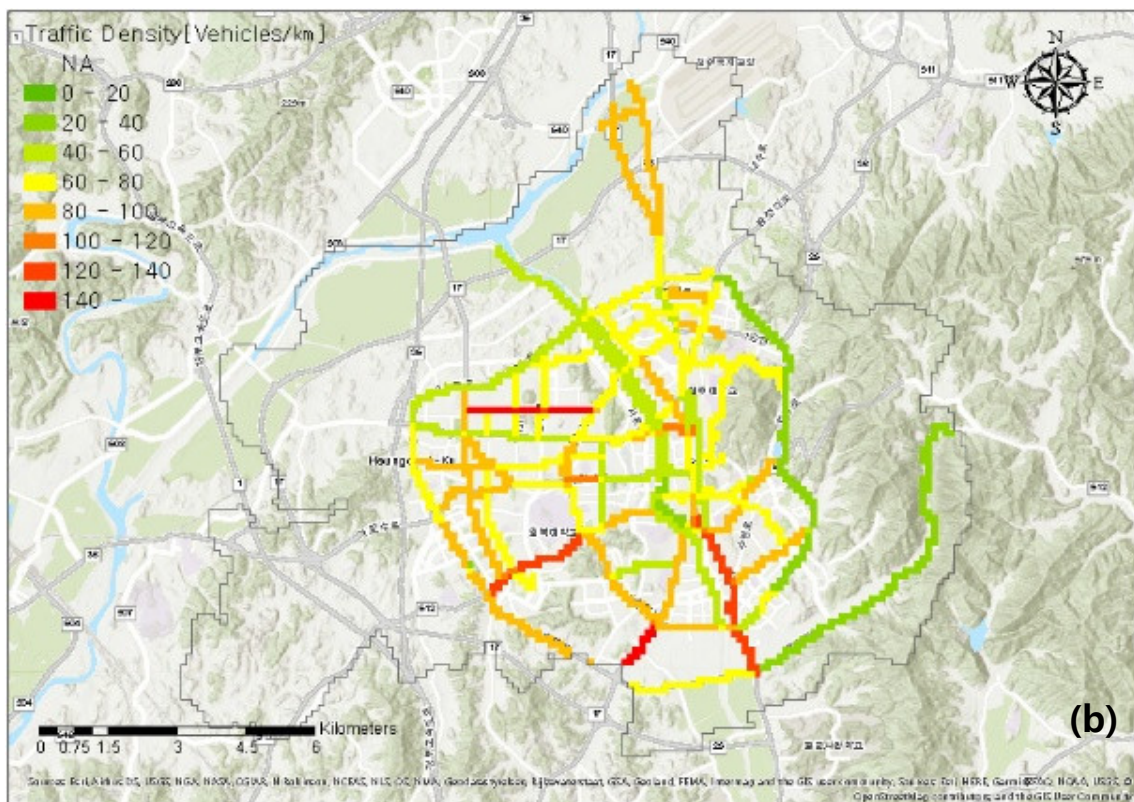
Figure S7. Grid maps of representative values for traffic speed in: (a) Gwangju; (b) Cheongju.

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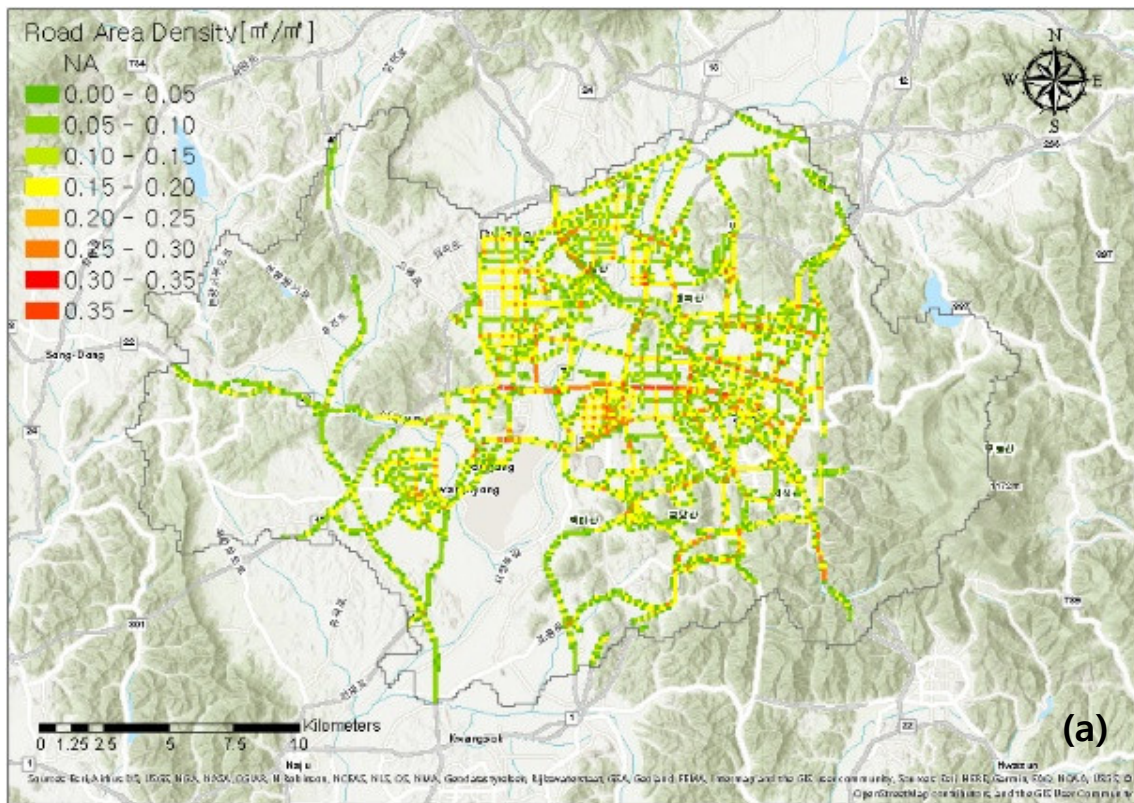


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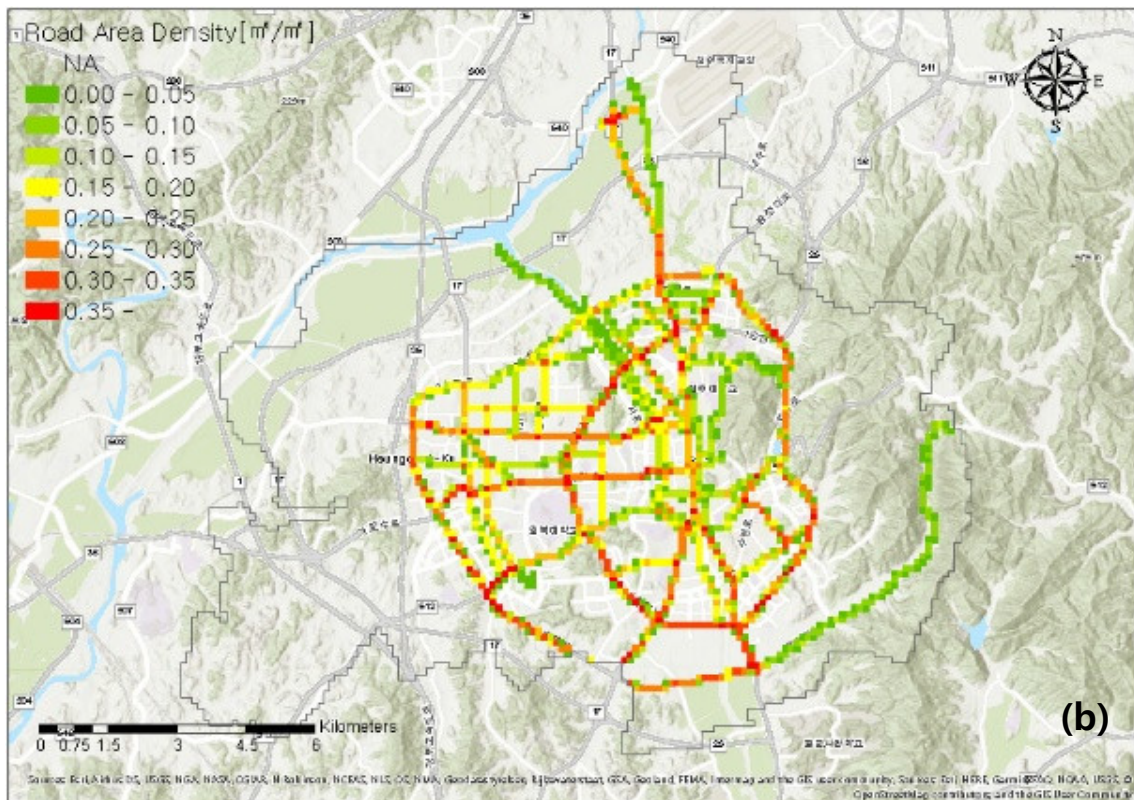
Figure S8. Grid maps of representative values for traffic density in: (a) Gwangju; (b) Cheongju.

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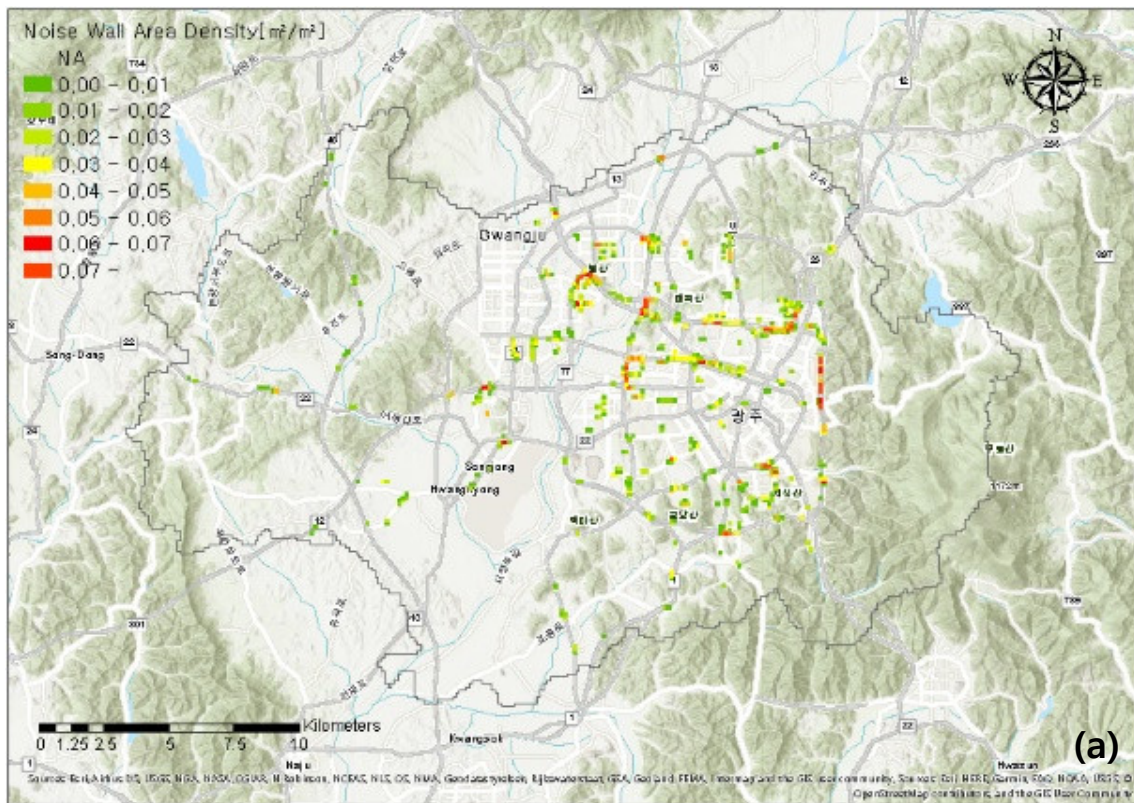


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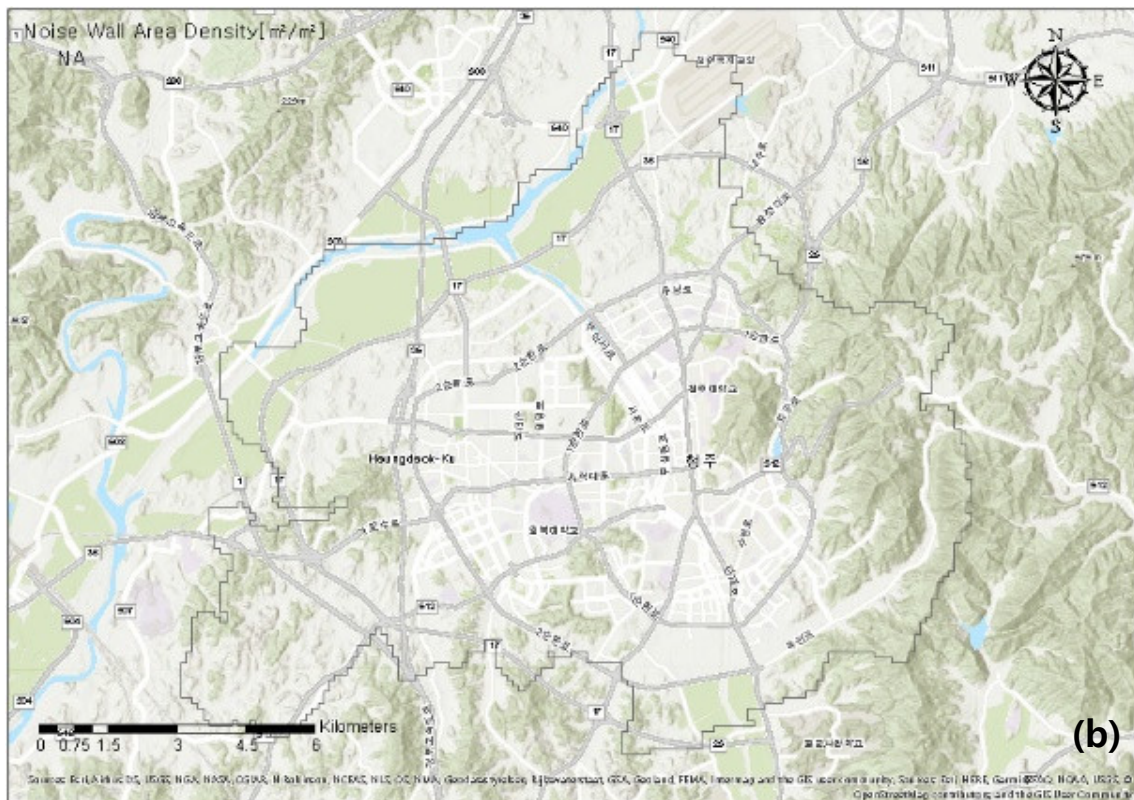
Figure S9. Grid maps of representative values for road area density in: (a) Gwangju; (b) Cheongju [44-45].

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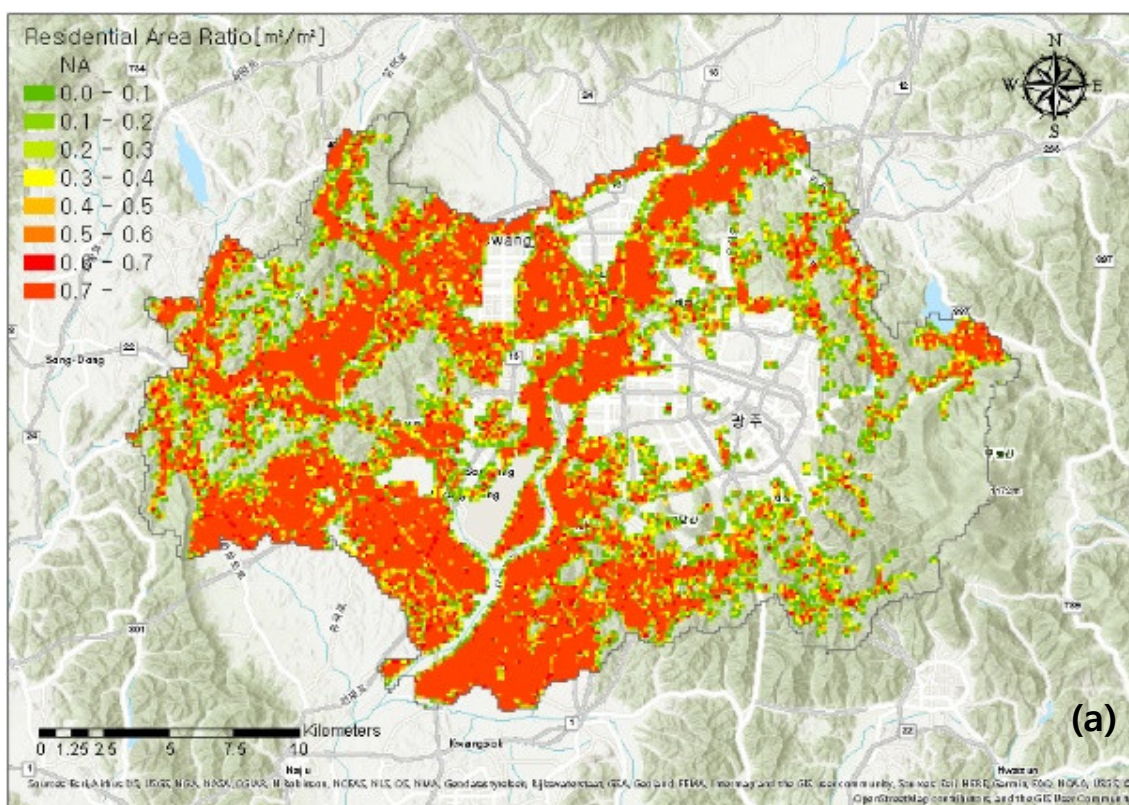
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Figure S10. Grid maps of representative values for noise barrier density in: (a) Gwangju; (b) Cheongju [44-45].

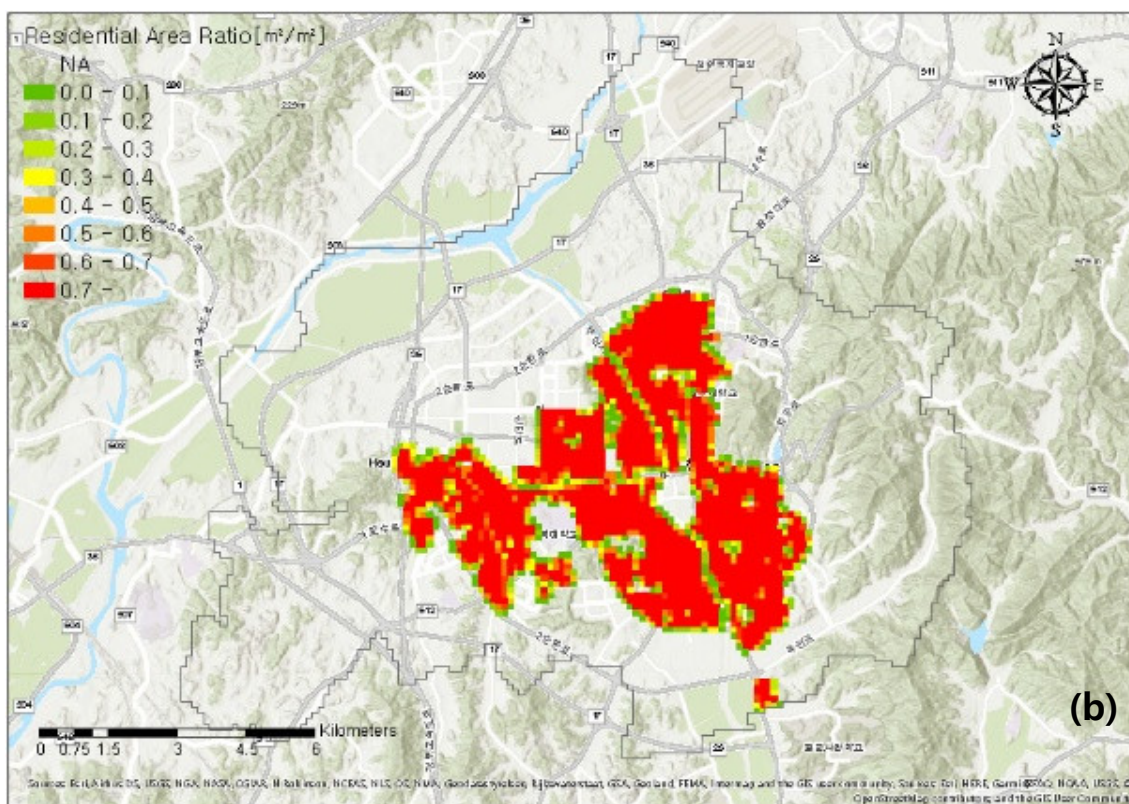
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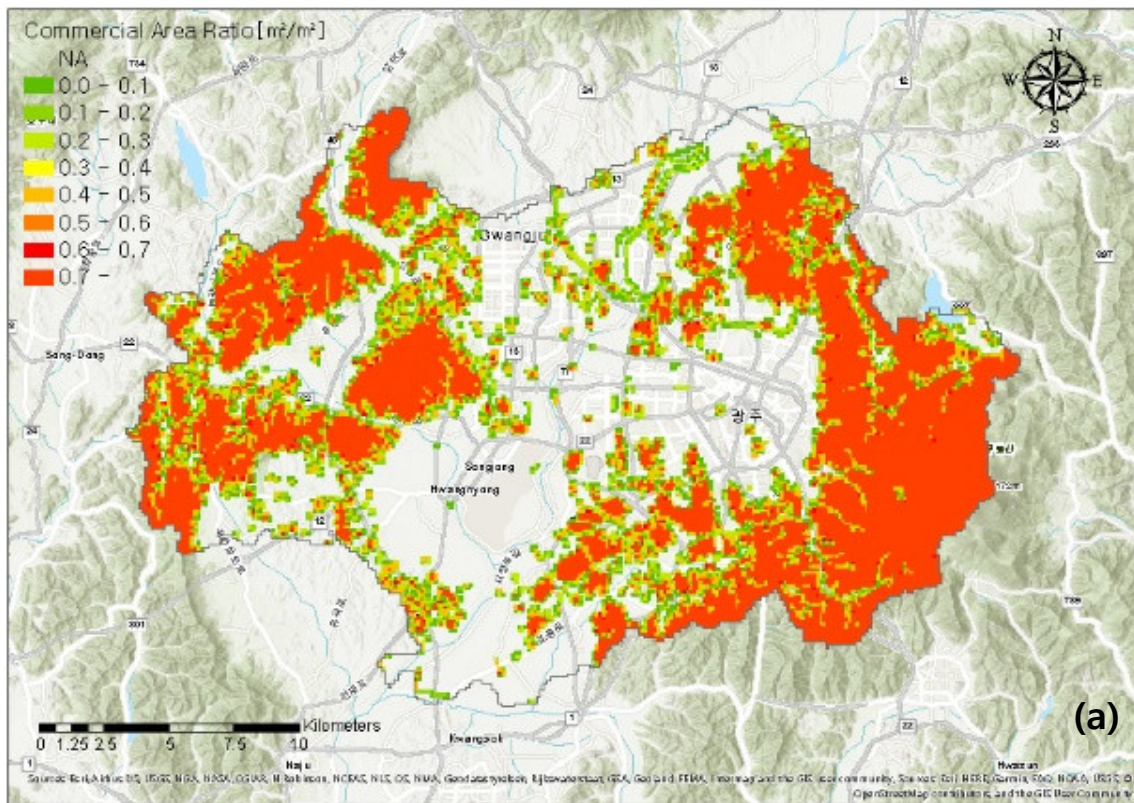


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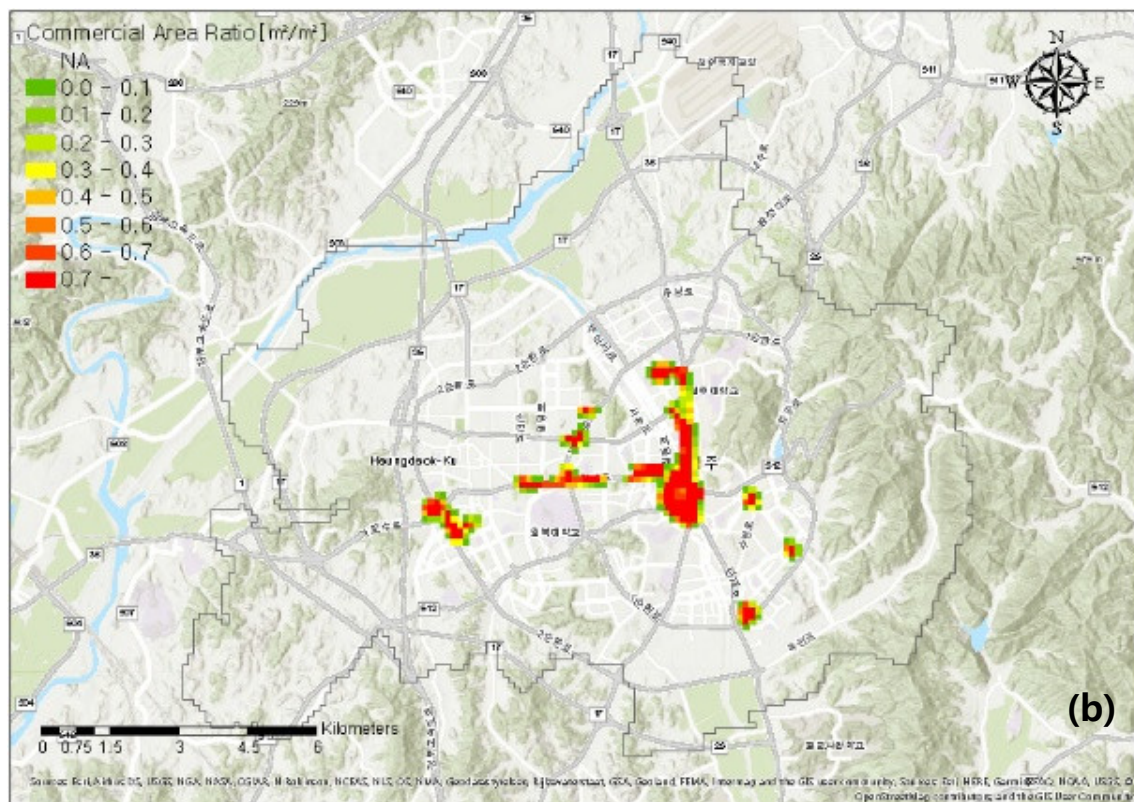
Figure S11. Grid maps of representative values for fraction of residential area in: (a) Gwangju; (b) Cheongju [44-45].

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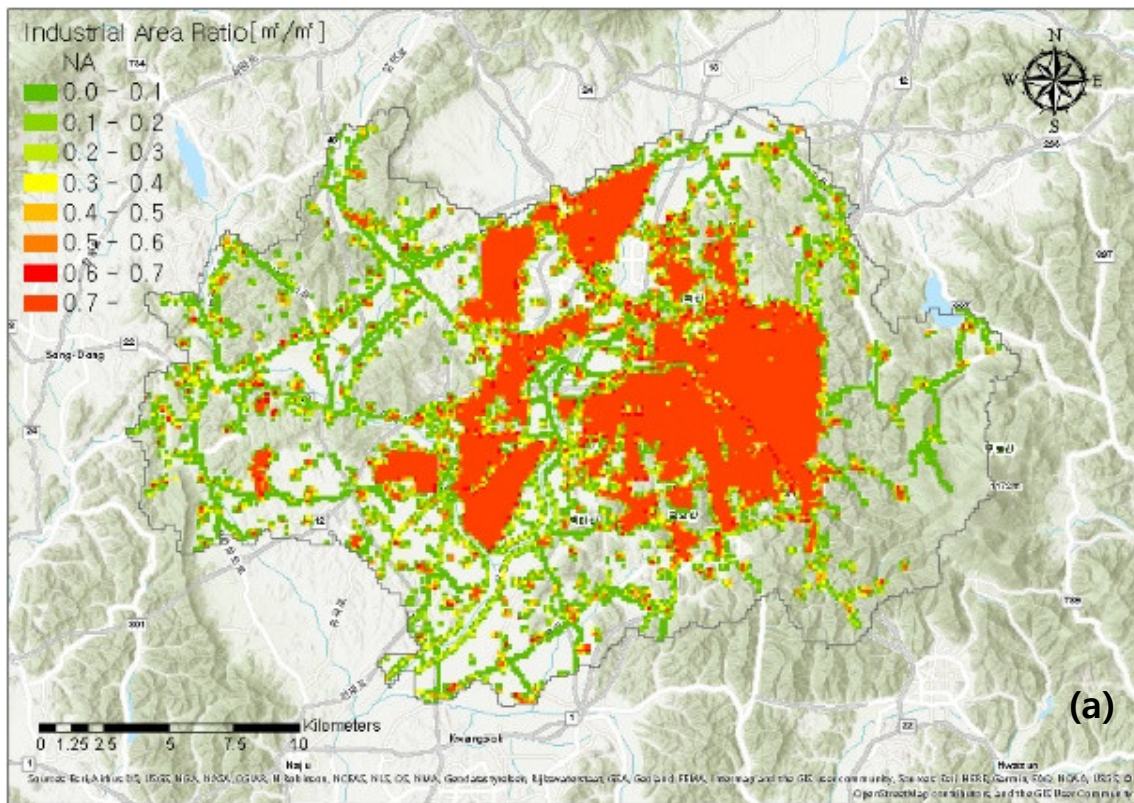


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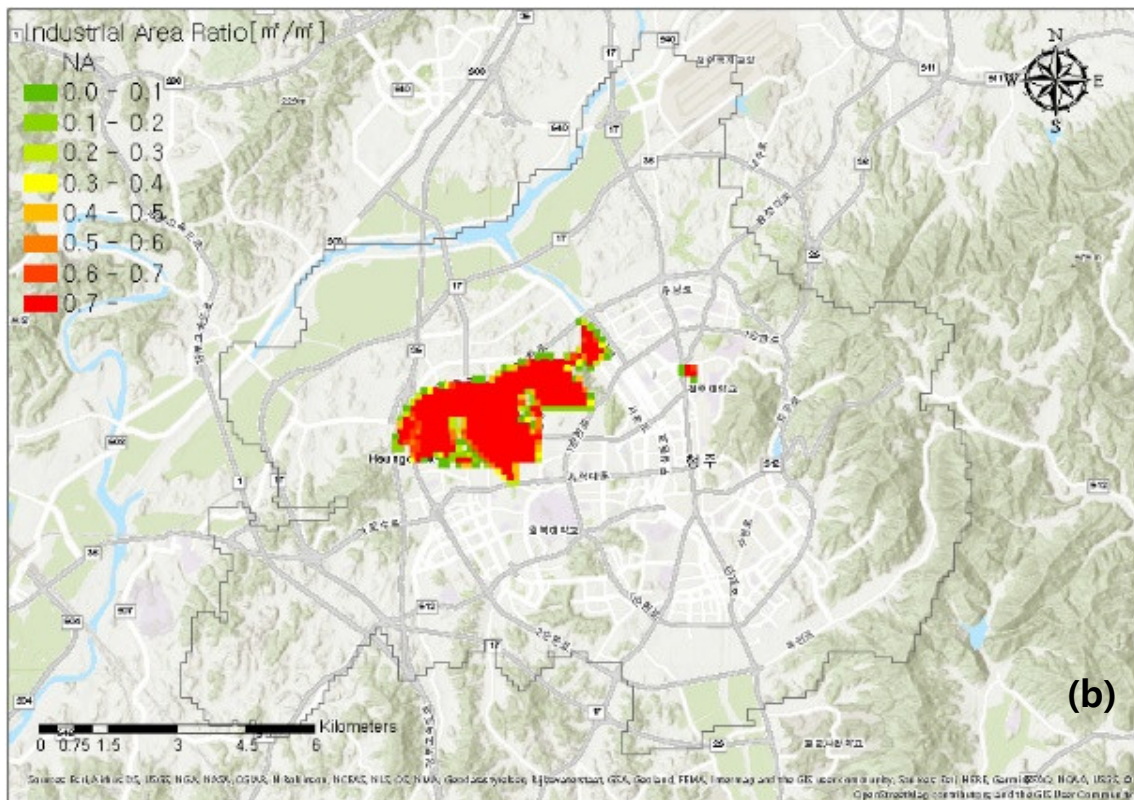
Figure S12. Grid maps of representative values for fraction of commercial area in: (a) Gwangju; (b) Cheongju [44-45].

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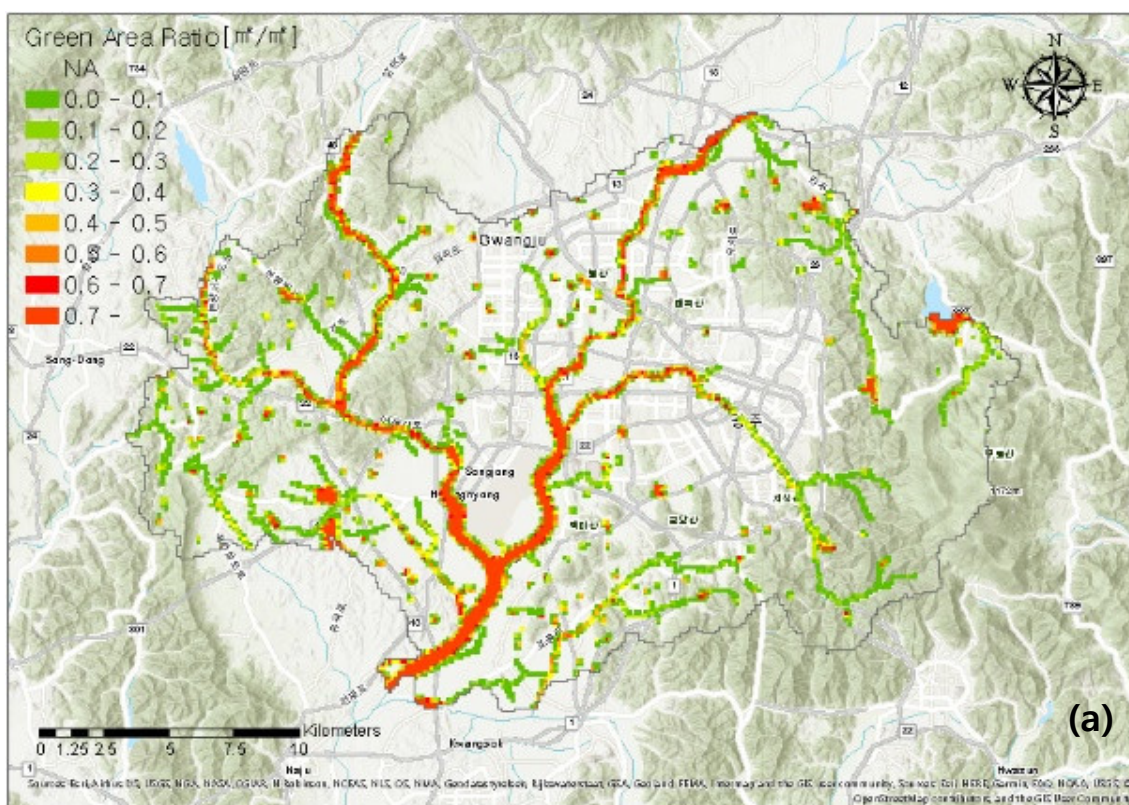
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Figure S13. Grid maps of representative values for fraction of industrial area in: (a) Gwangju; (b) Cheongju [44-45].

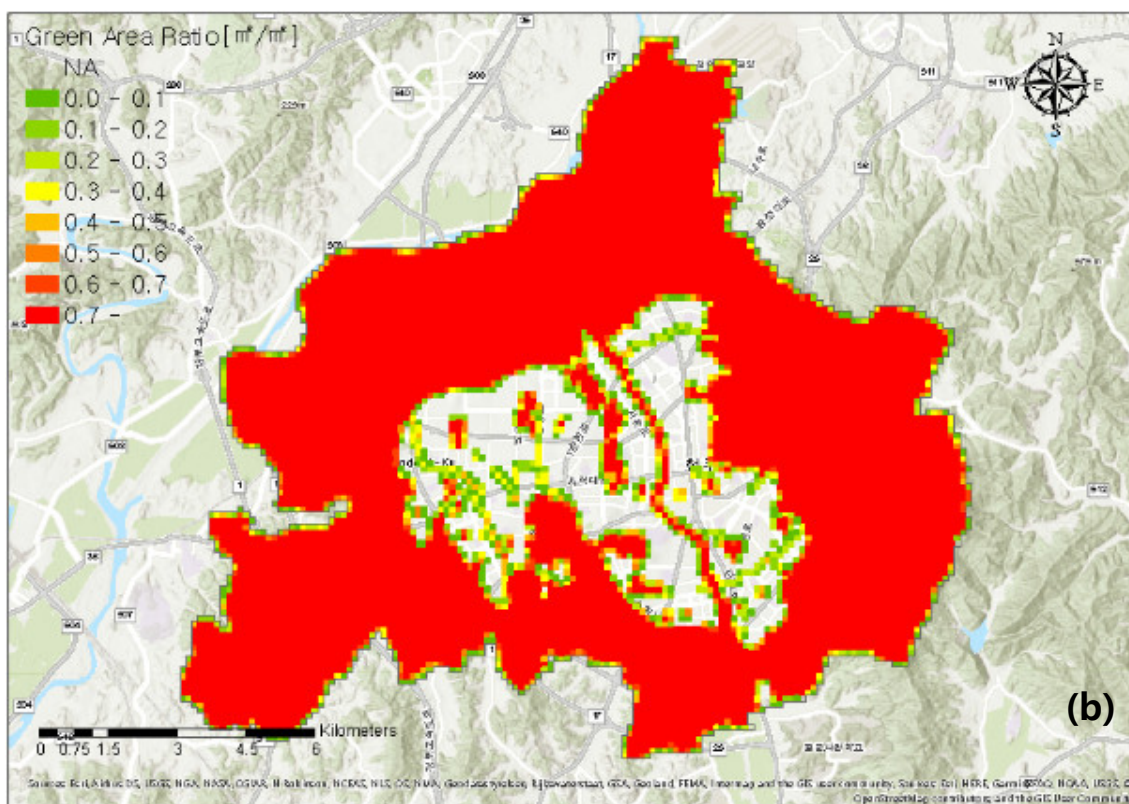
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Figure S14. Grid maps of representative values for fraction of green area in: (a) Gwangju; (b) Cheongju [44-45].

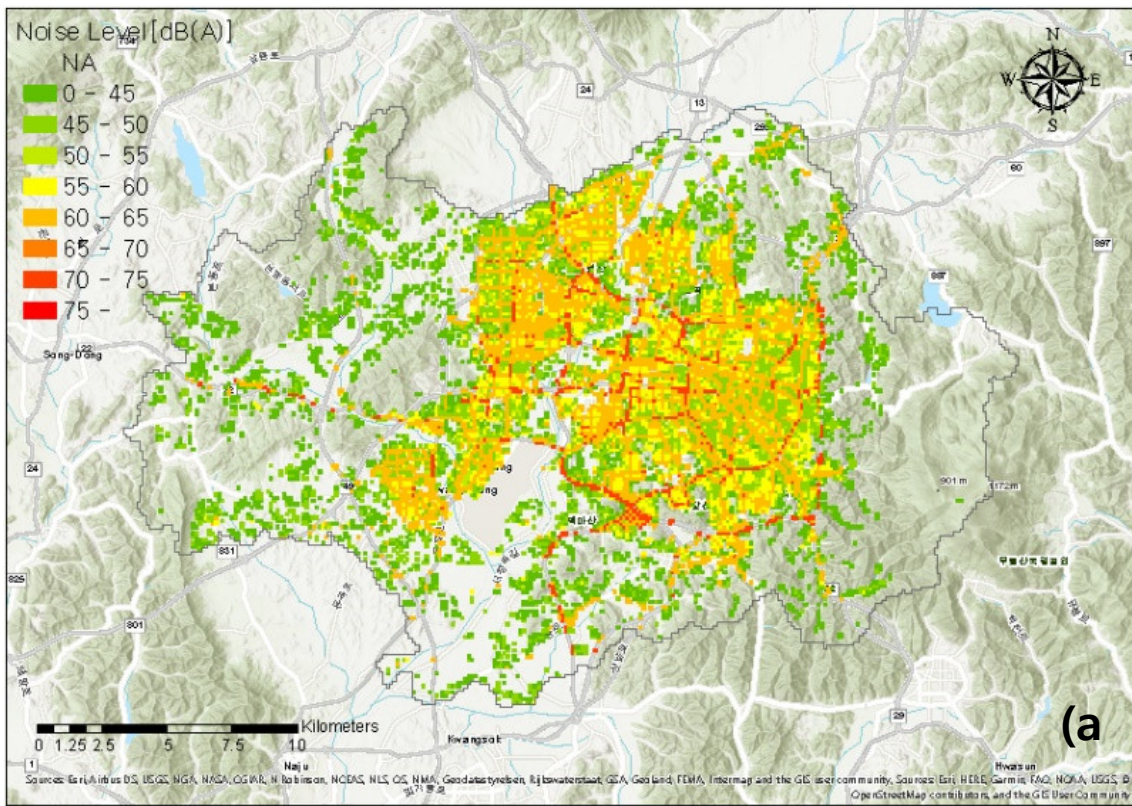
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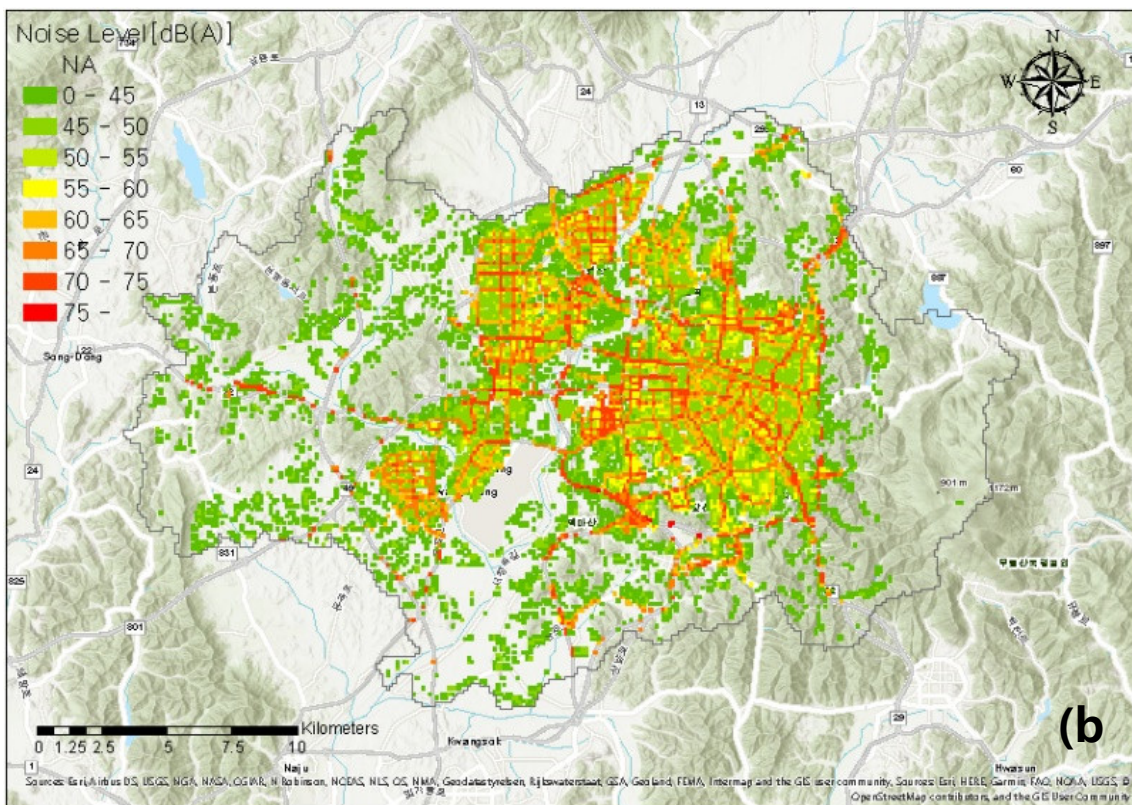


Supplement B

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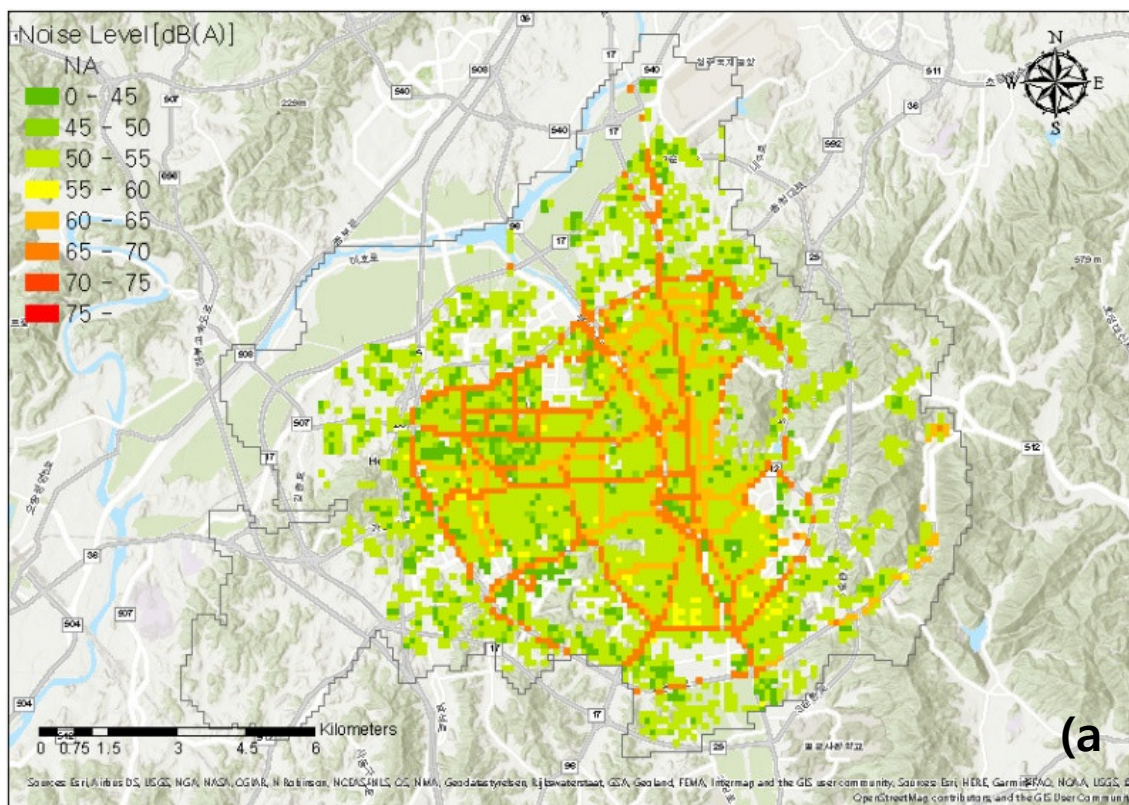


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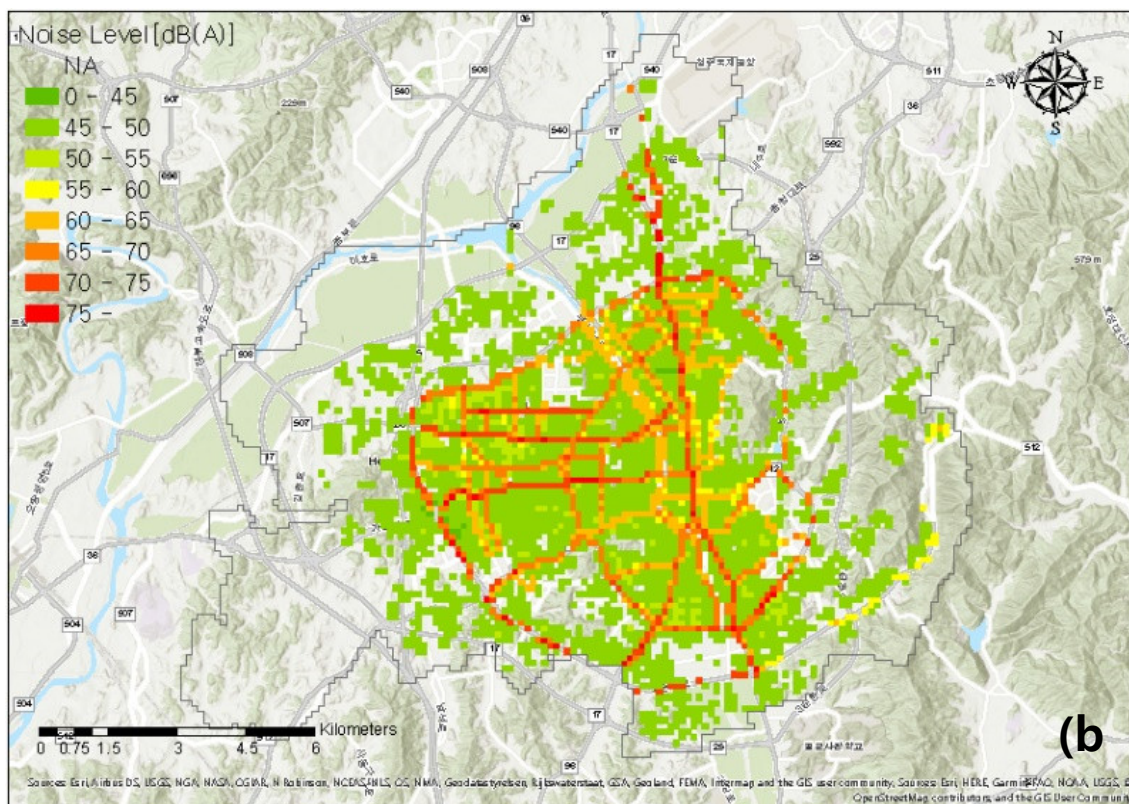
Figure S15. Statistical road-traffic noise maps of Gwangju: (a) ANN model; (b) OLS model [44-45].

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Figure S16. Statistical road-traffic noise map of Cheongju: (a) ANN model; (b) OLS model [44-45].