



Environmental Quality around Schools: A Privilege for the Wealthy or a Right for All?

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Belgian geographers day, Namur, 15th March 2024

Why focus on ... ?

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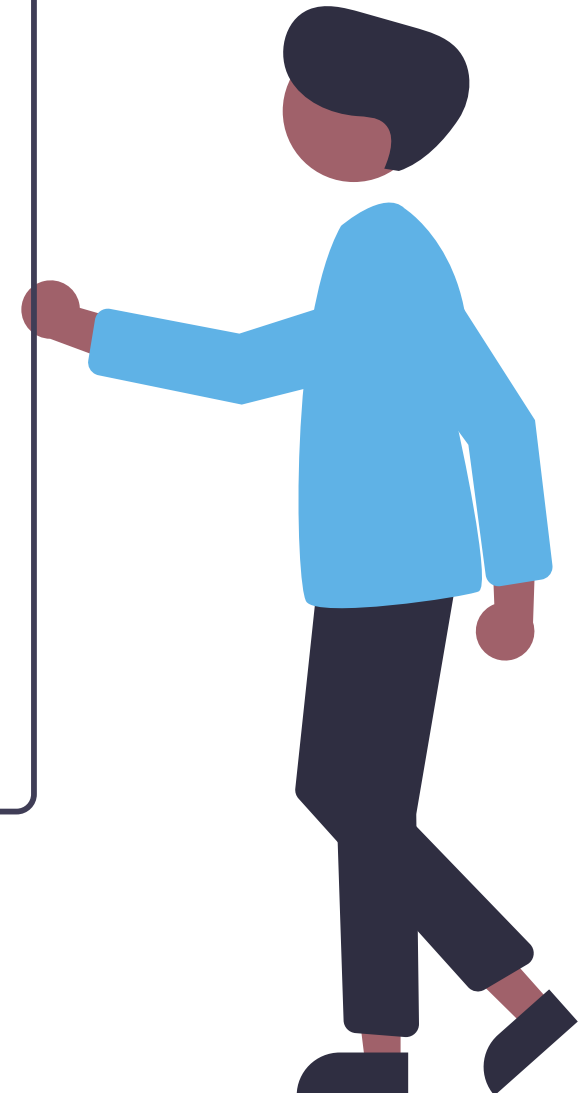
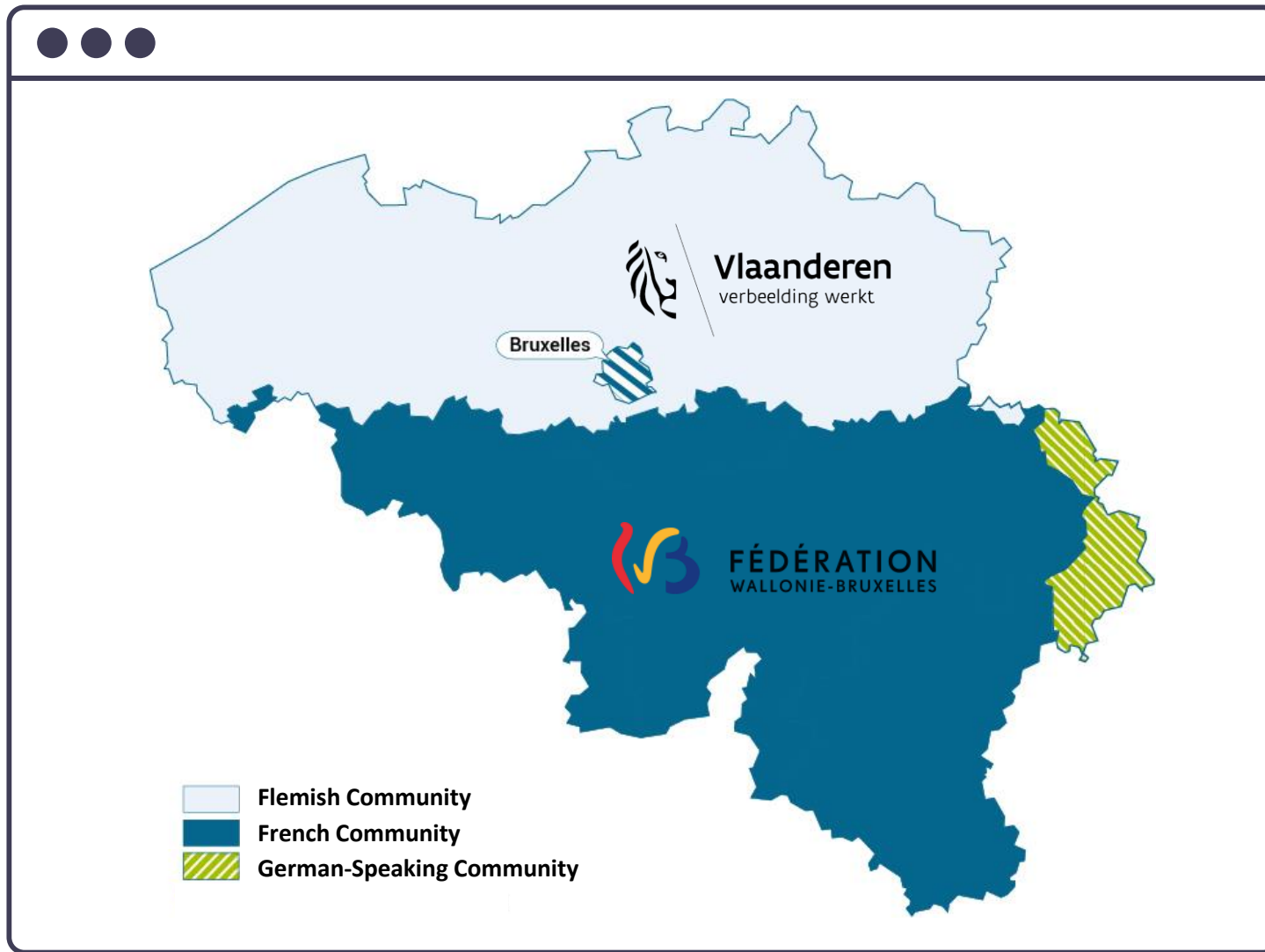
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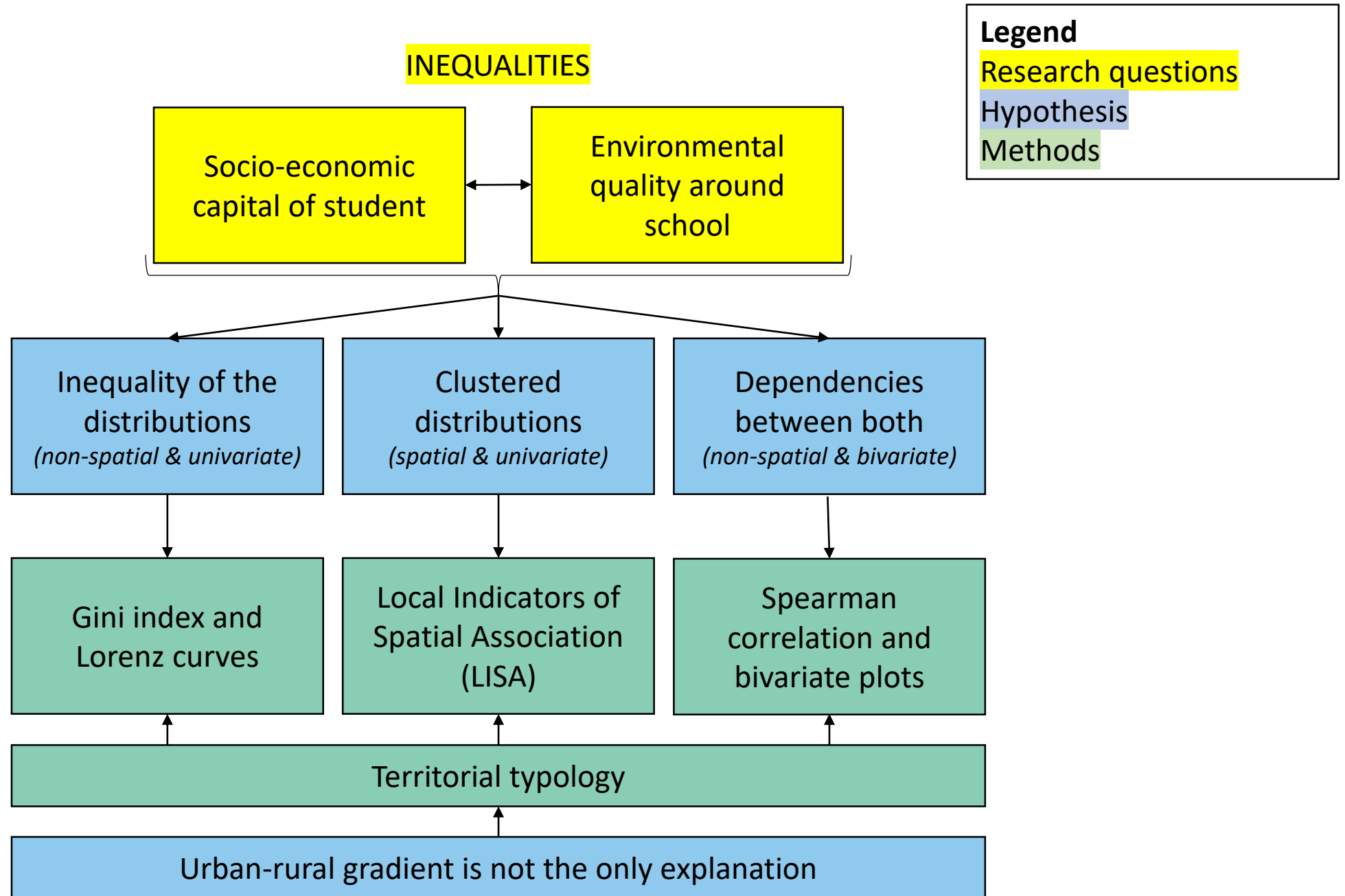


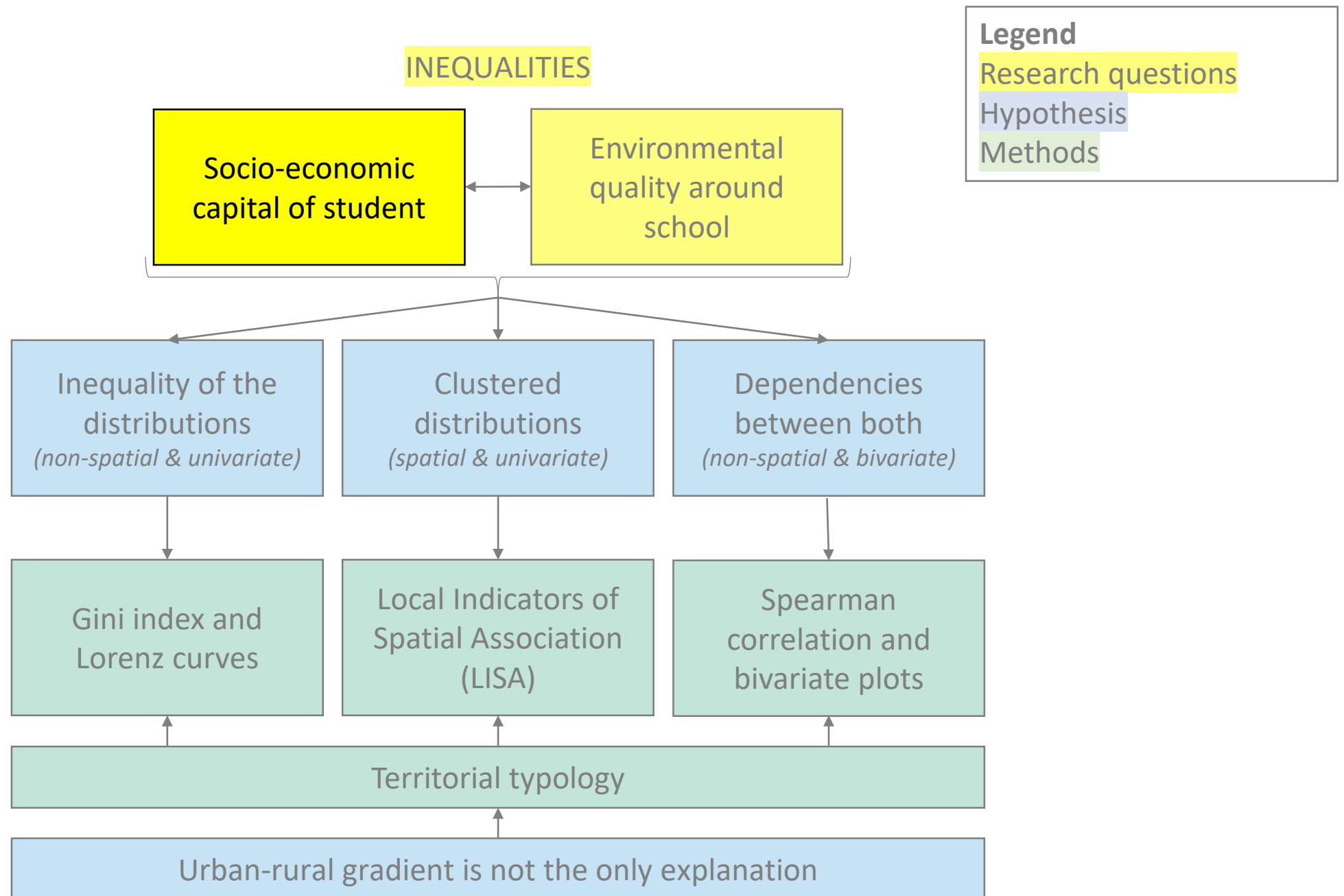
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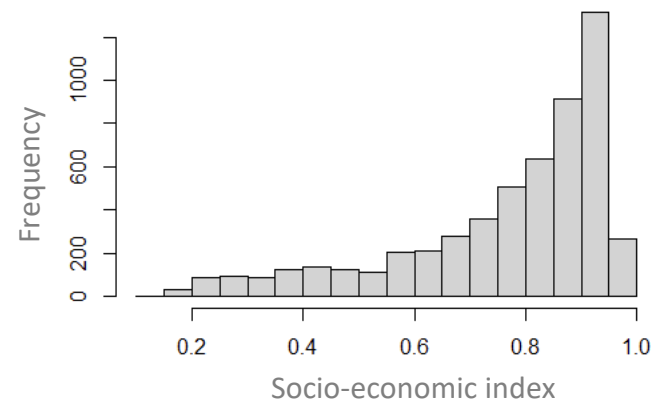
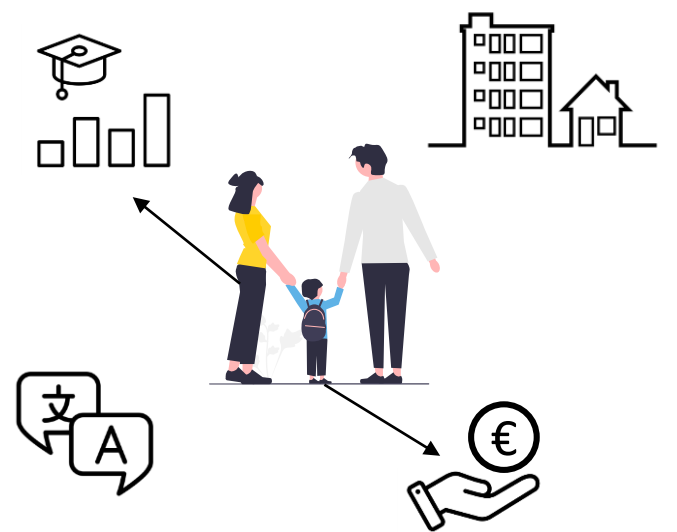
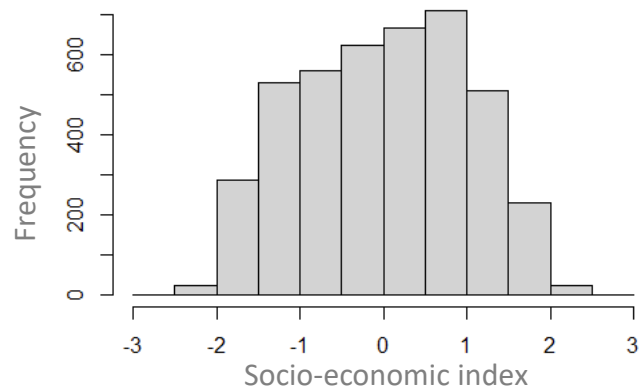


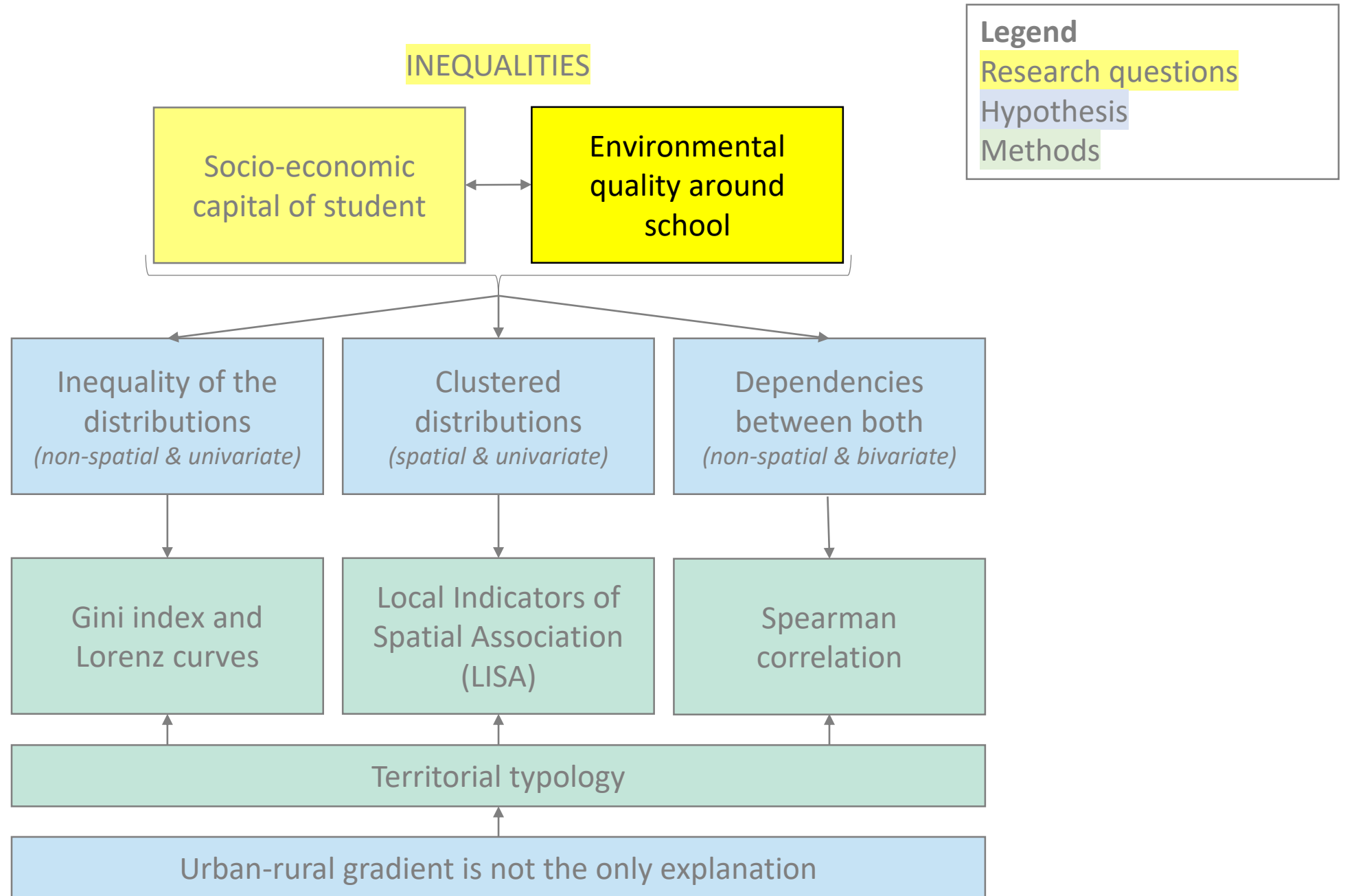




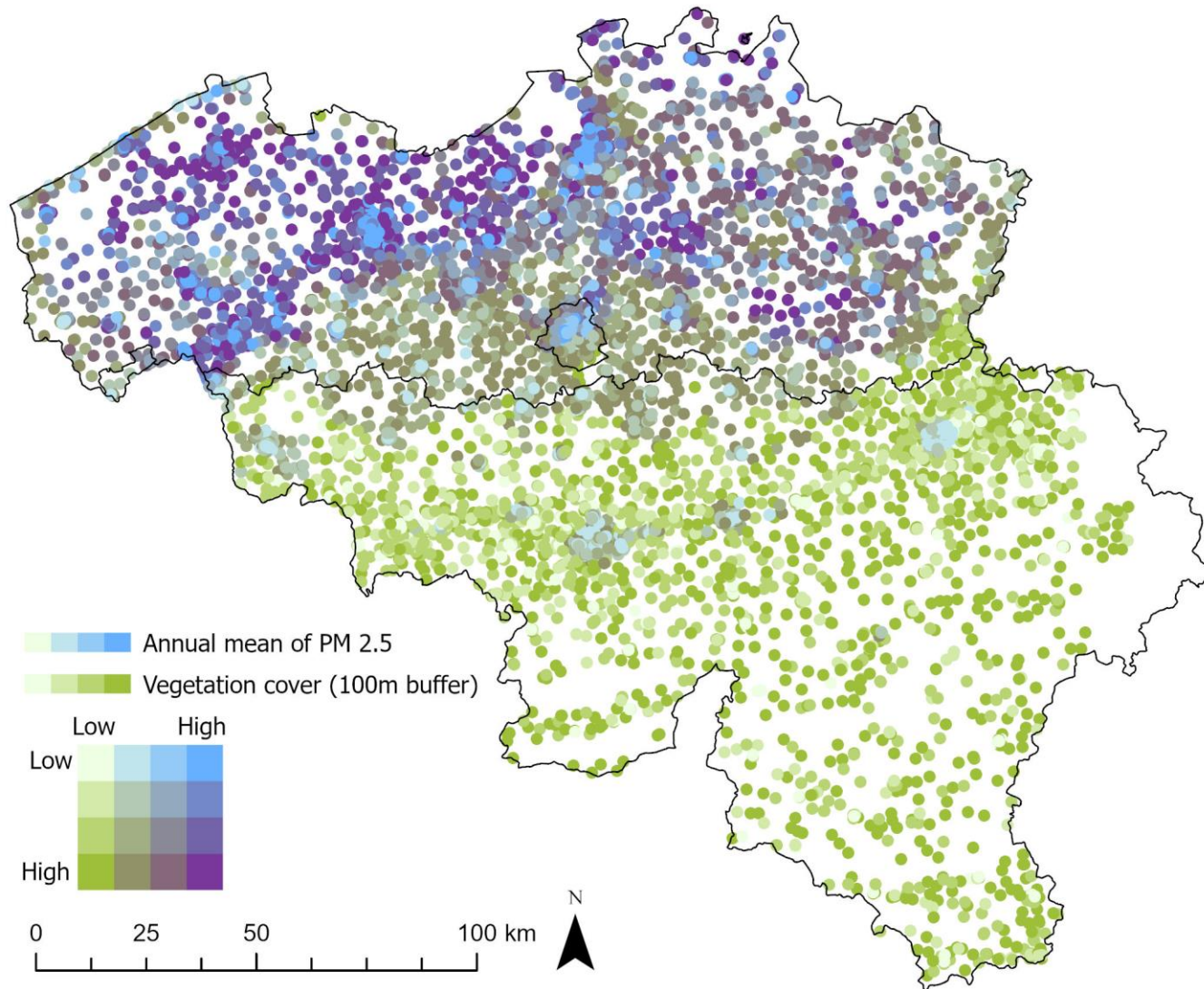


Socio-economic index (SEI) of school establishments





Environmental quality around schools



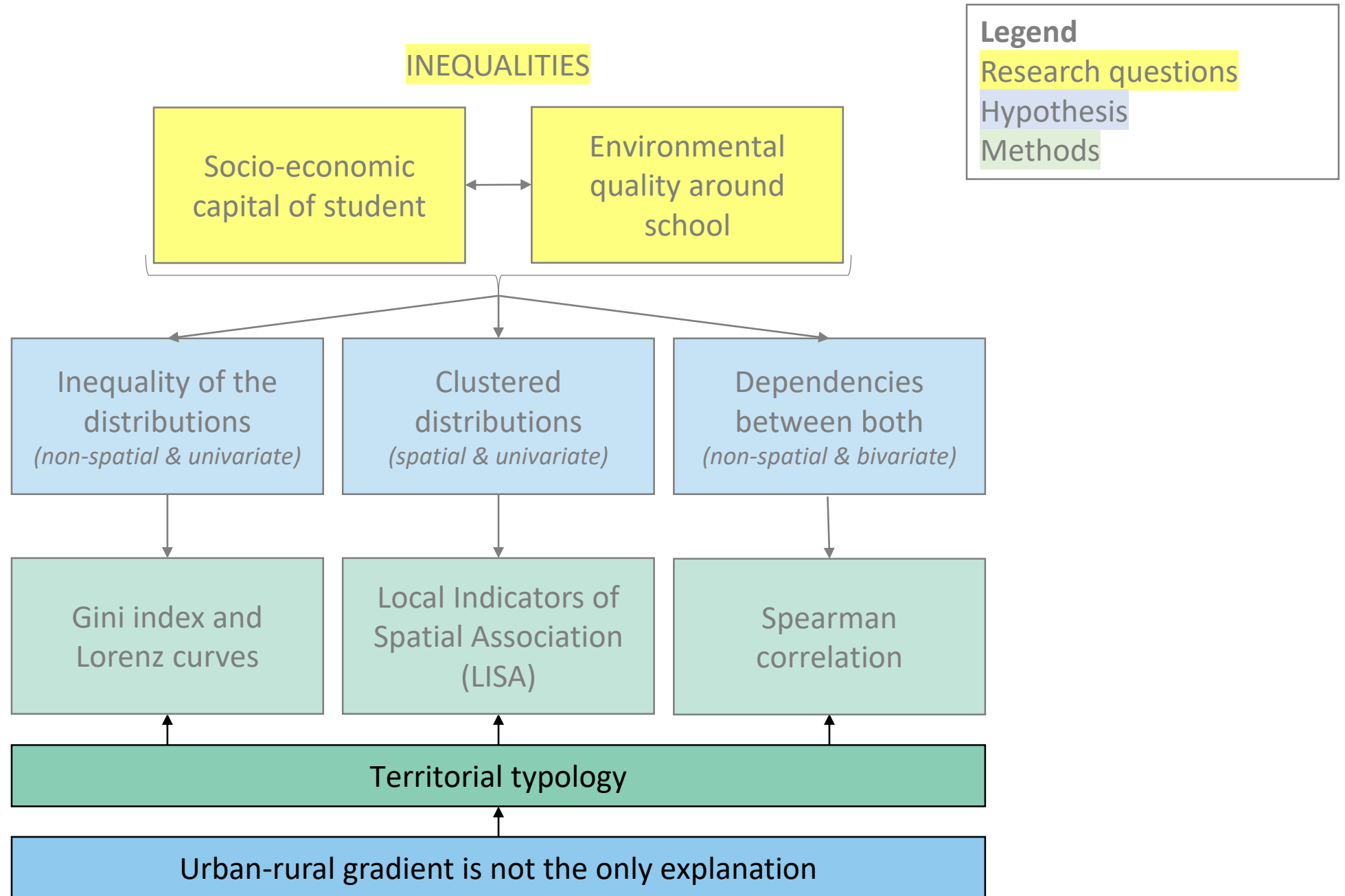
Green spaces

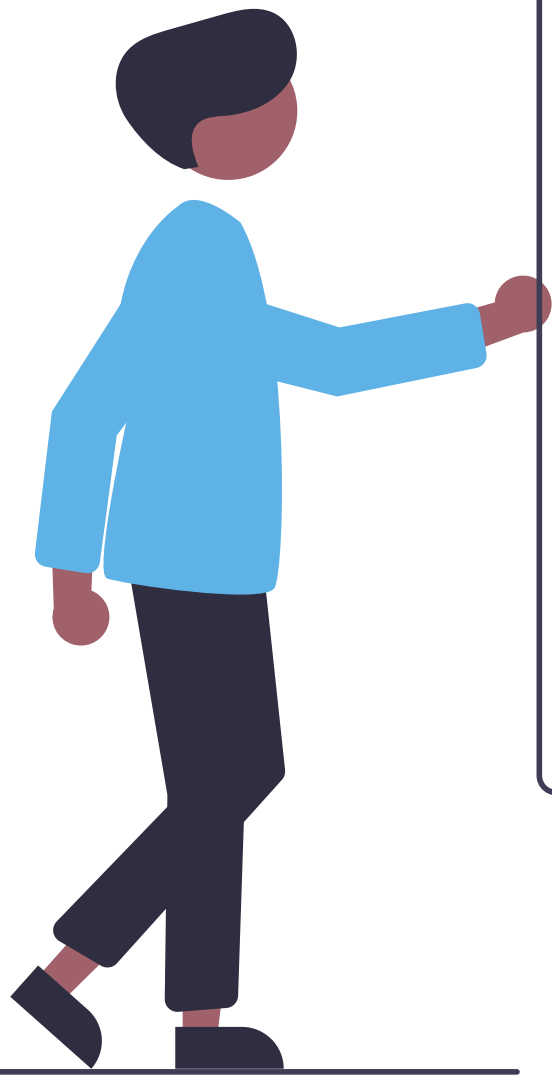
- Vegetation within a **100m** radius
- Vegetation within a **300m** radius
- Vegetation within a **500m** radius
- Vegetation within a **1000m** radius



Pollution

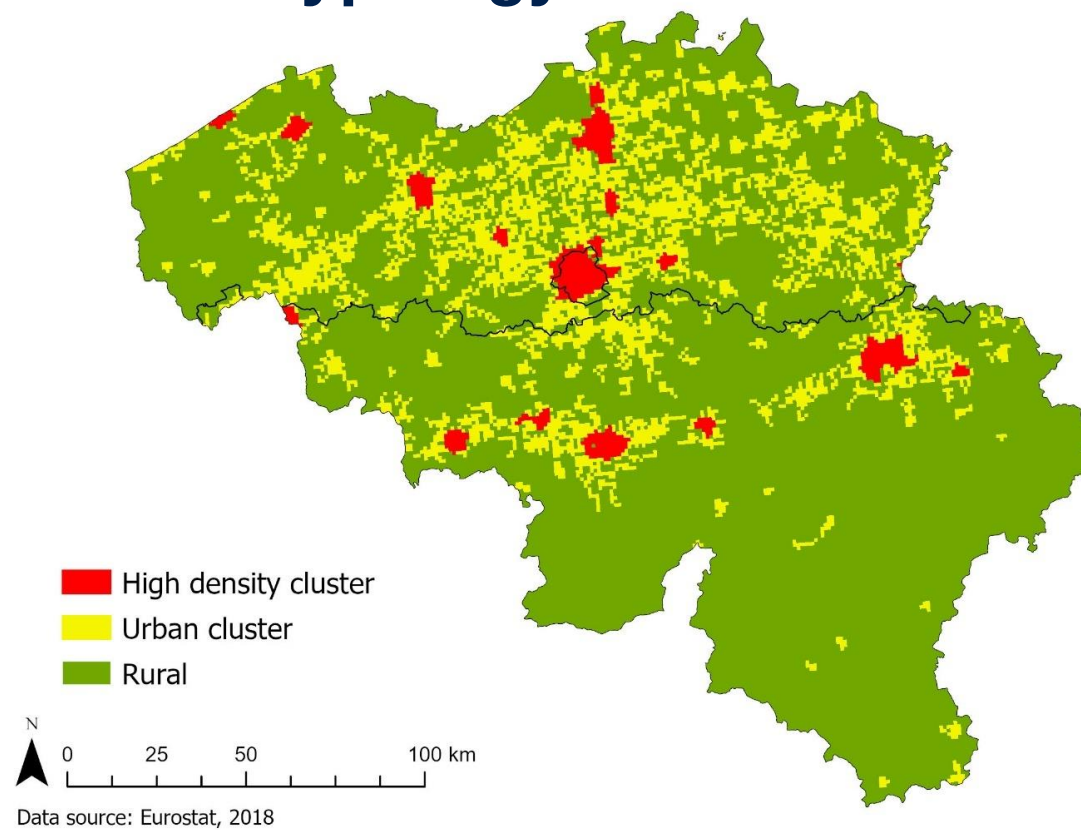
- **PM_{2.5}** : Particulate matter of <2,5µm
- **PM₁₀** : Particulate matter of <10 µm
- **Black carbon (BC)** : carbon fraction of particulate matter
- **NO₂** : nitrogen dioxide





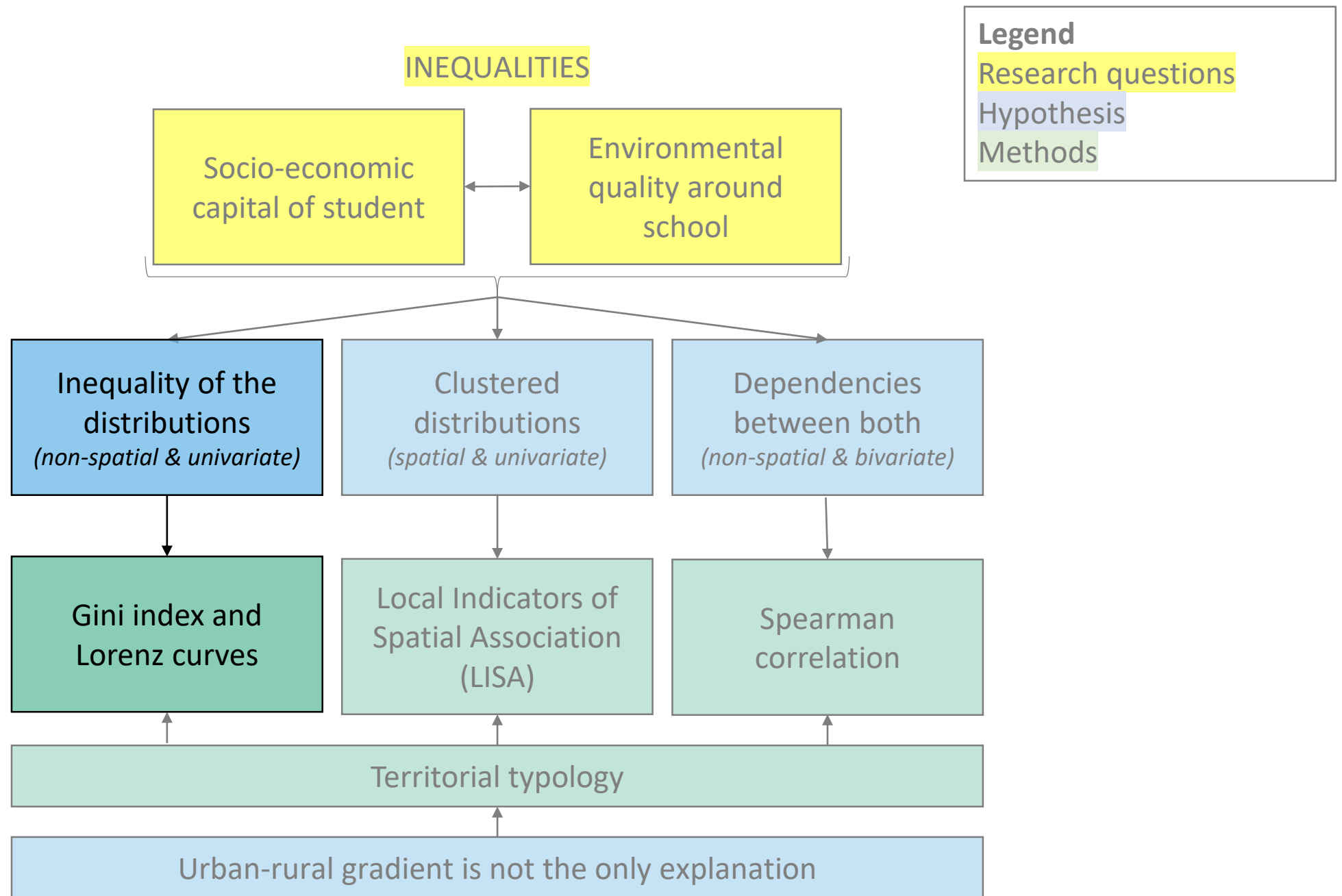
<https://ec.europa.eu/eurostat>

Territorial typology

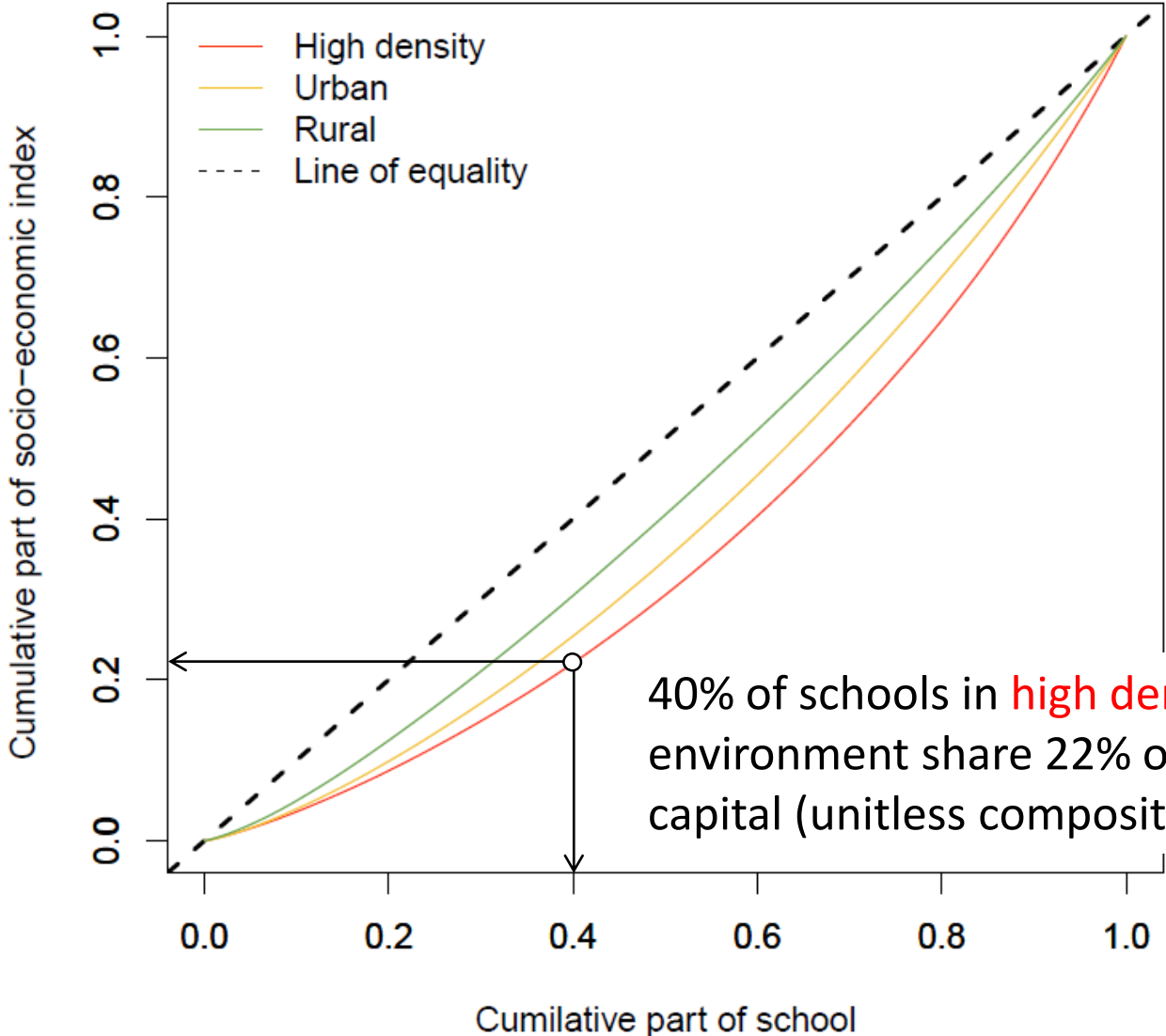


Urban
or rural

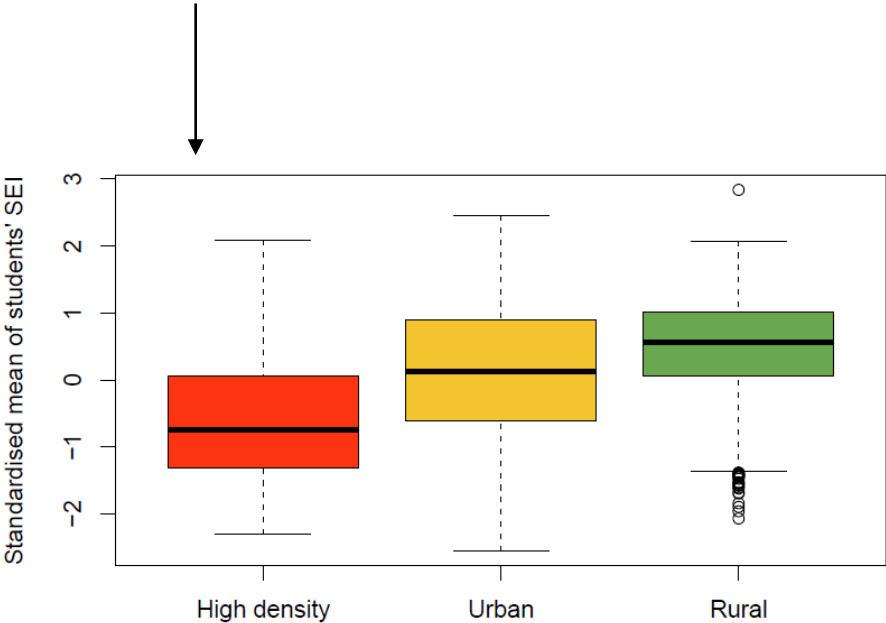




Socio-economic inequalities between schools

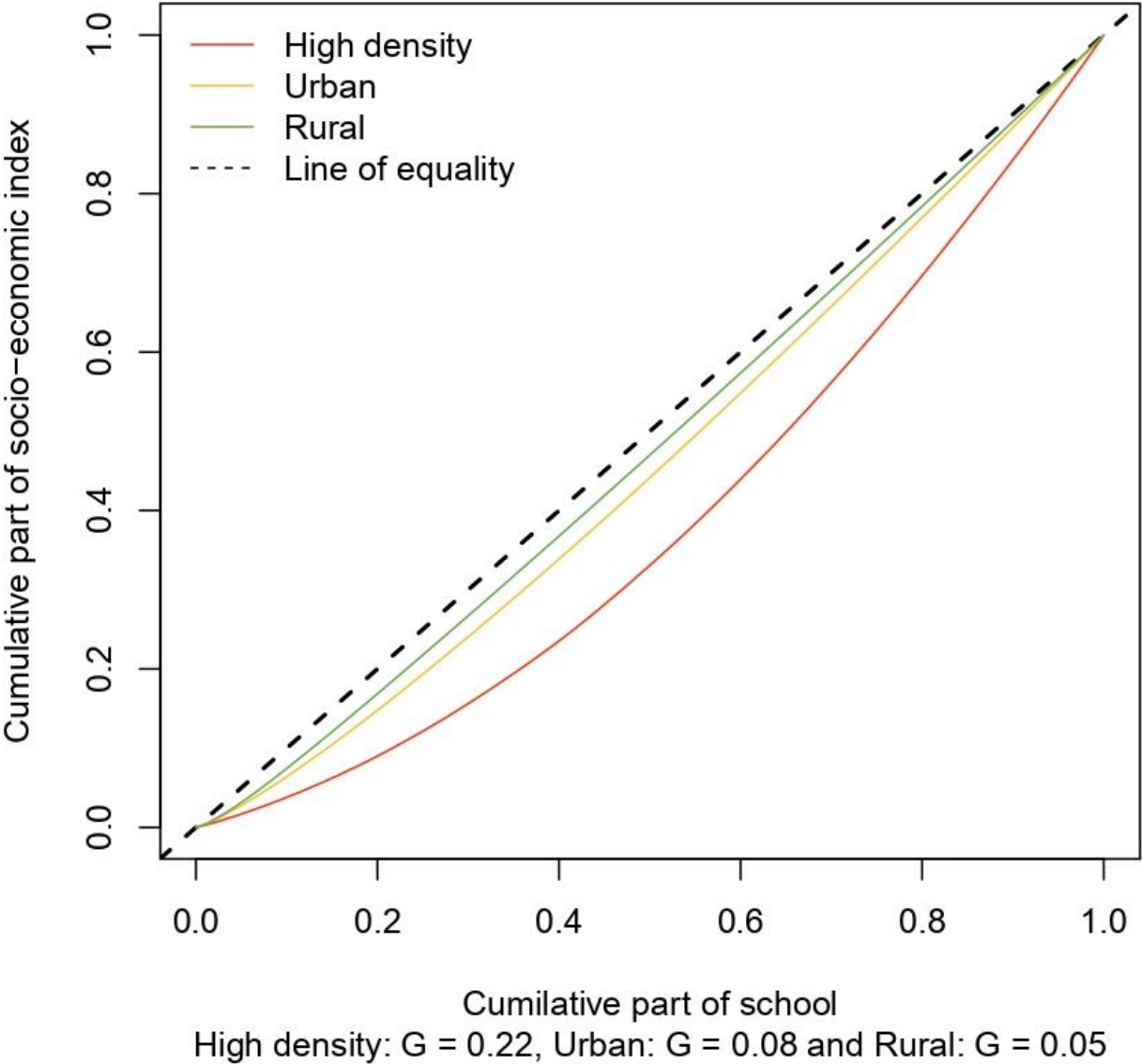


There is **greater inequality** between **high density urban** schools and **lower socio-economic profile**.

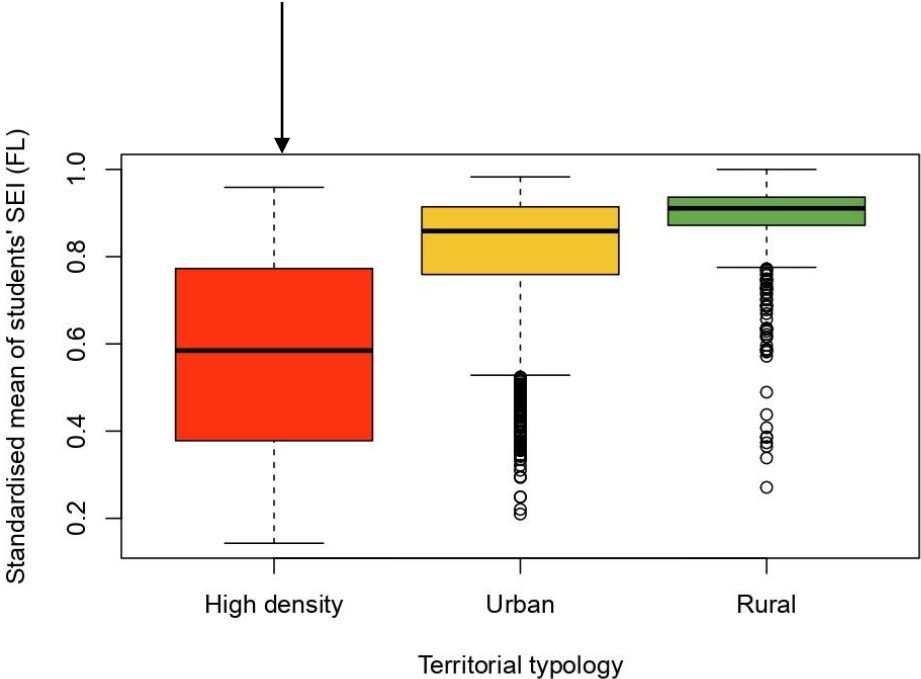


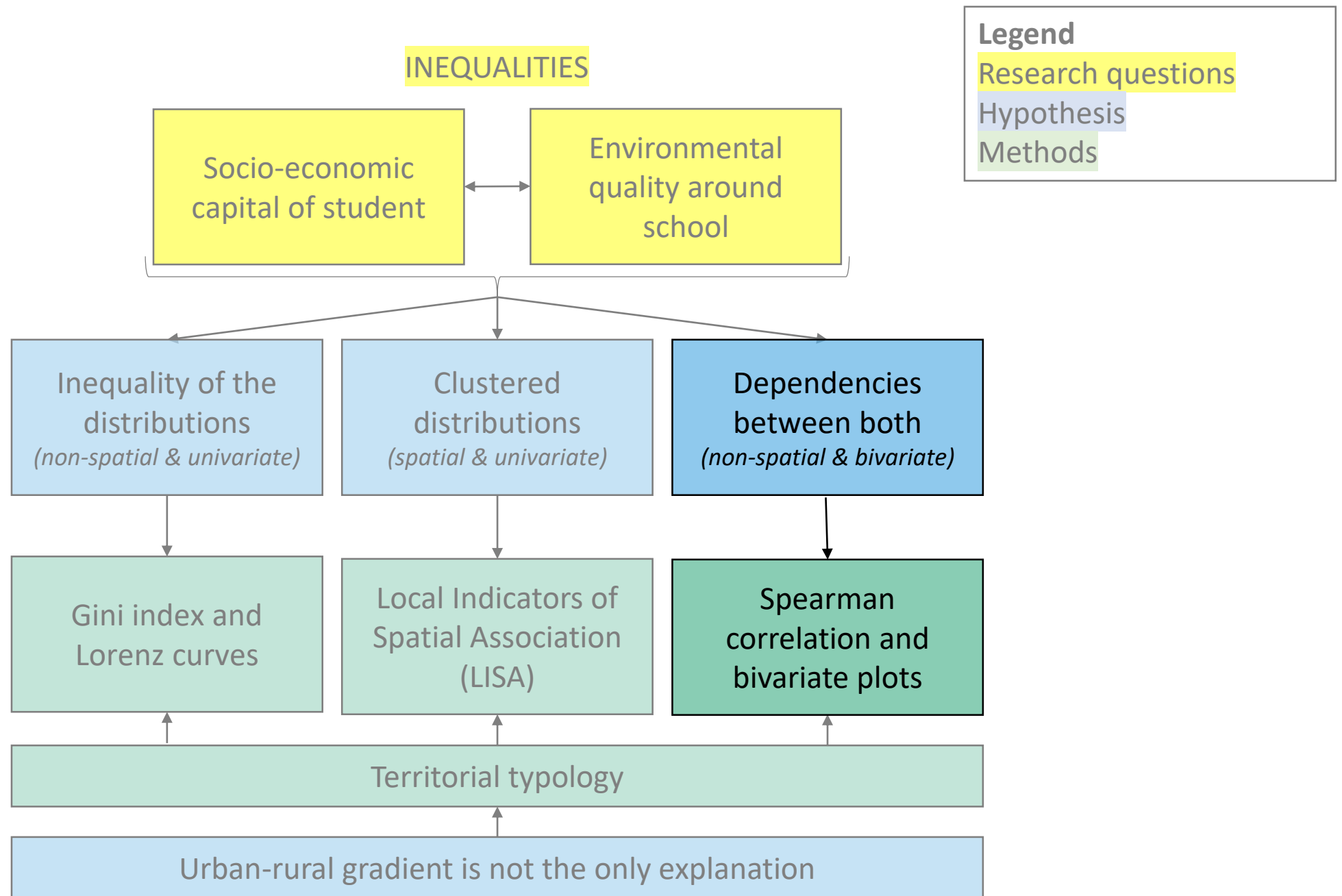
High density: $G = 0.27$, Urban: $G = 0.21$ and Rural: $G = 0.14$

Socio-economic inequalities between schools

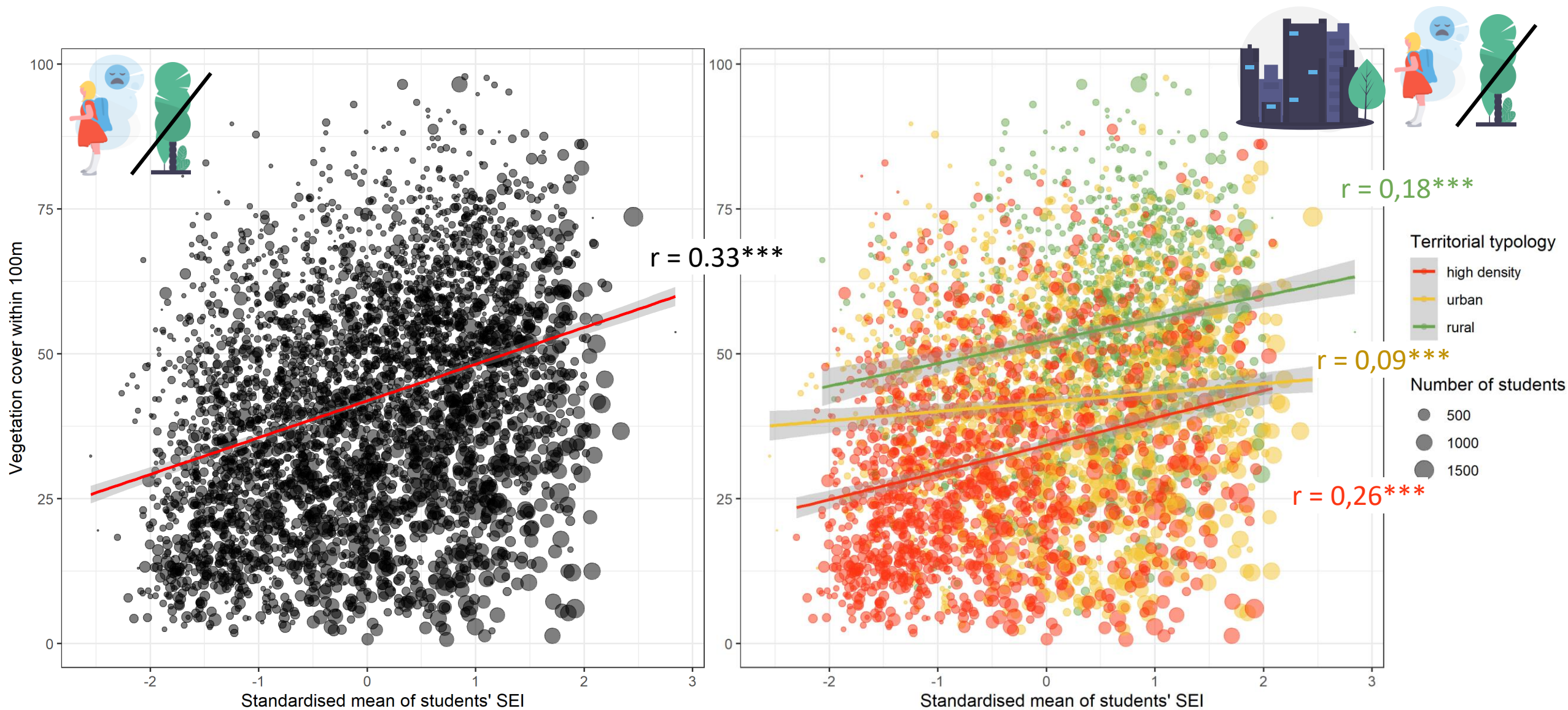


There is **greater inequality** between **high density urban** schools and **lower socio-economic profile**.





Association between socio-economic index and environment



Levels of significance: '***' = $p < 0.001$, '**' = $p < 0.01$, '*' = $p < 0.05$

FÉDÉRATION
WALLONIE-BRUXELLES



10

Conclusion

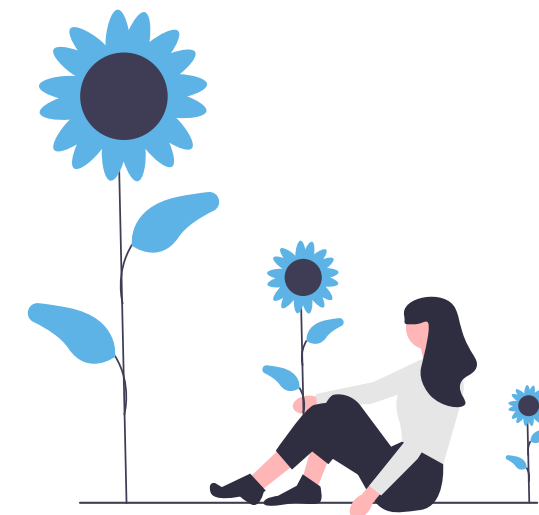


Thank you for your attention!

Any questions?
Any comments?
Any suggestions?

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Credits

Luis Prado, One Pleasure, Made by Made, Circlon Tech, Blangcon, VectorsLab, Adrien Coquet, Pascal Heß, Eko Purnomo, Nikita Kozin, Flatart, Assia Benkerroum and Lucas Helle **from Noun Project**

unDraw