

A Conceptual Framework for Modelling Safe Walking and Cycling Routes to High Schools

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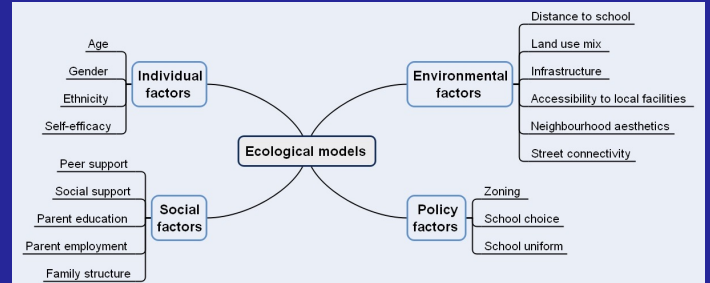
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Introduction

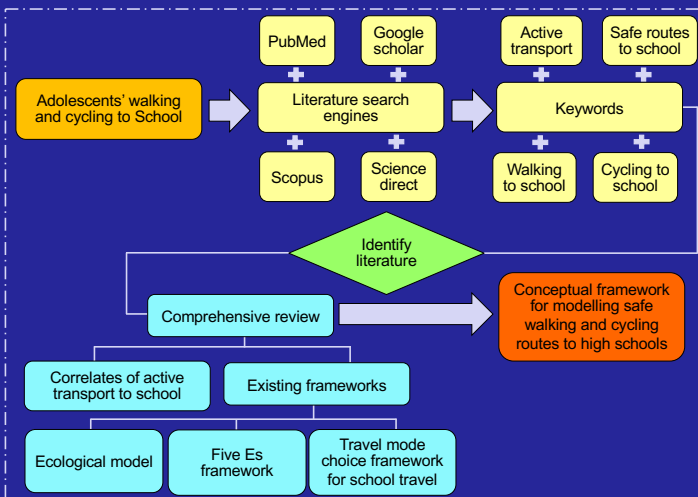
- Active transport to or from school presents an opportunity for adolescents to engage in daily physical activity.
- Multiple factors influence whether adolescents actively travel to/from school.
- Creating safe walking and cycling routes to school is a promising strategy to increase rates of active transport among adolescents.
- Knowledge about modelling safe walking and cycling routes to school for adolescents is currently limited and there is comparatively little research and guidance on how to encourage more ATS among adolescents compared to children.

Purpose: This study developed a new framework for modelling safe walking and cycling routes to high schools.

Ecological Model



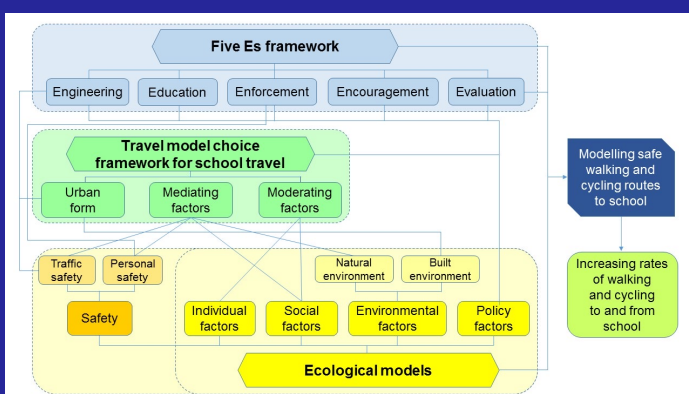
Methods



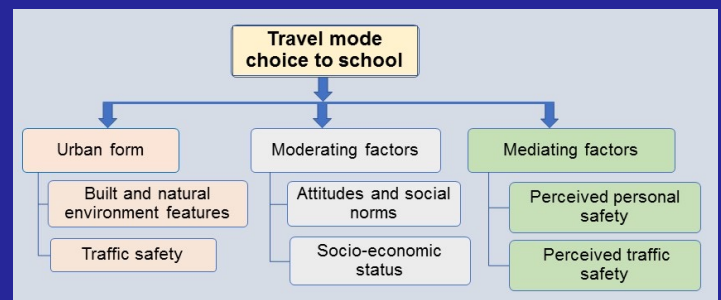
Five Es Framework



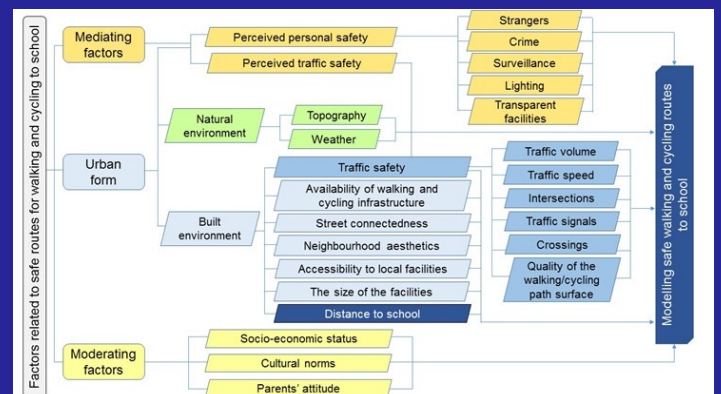
Conceptual Framework for Modelling Safe Routes to Schools



Travel Mode Choice Framework



Factors affecting Safe Routes to Schools



Conclusion

The proposed framework has potential to assist transport planners and the city development authorities to:

- prioritize the tasks and funding related to creating safe walking and cycling routes to high schools.
- facilitate future decision-making regarding construction or upgrades of walking and cycling infrastructure investments in the school neighbourhoods.
- create new safe school routes and/or improving safety of the existing routes to high schools.

Acknowledgement

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