

CO-CREATE Mechanism Model

The CO-CREATE Mechanism Model is a system dynamics model that was developed as part of the Project CO-CREATE, Confronting Obesity: Co-creating policy with youth. CO-CREATE is a large project funded by the European Union's Horizon 2020 research and innovation programme as part of the response to tackle the childhood obesity epidemic (grant agreement No 774210).

Over a 5-year period (2018-2023), CO-CREATE aims to reduce the prevalence of obesity among adolescents in Europe through policy actions to promote a healthier food and physical activity environment. By focusing on upstream factors and context change instead of on individual behaviour change, CO-CREATE aims at generating sustainable impacts that contribute to narrowing inequalities.

Within work package 7, the system dynamics (SD) method was applied to integrate previous work packages results and other sources and to conduct a series of simulation experiments to understand the major feedback mechanisms driving youth obesity. The model was quantified using parameter values from the literature and from the Health Behavior in School-aged Children (HBSC) study.

More information about CO-CREATE can be found at:

- <https://www.fhi.no/en/studies/co-create/>
- <https://cordis.europa.eu/project/id/774210>
- <https://www.fhi.no/en/studies/co-create/publications/#deliverables>

This repository contains the CO-CREATE mechanism model described in deliverable D7.3 and used in various publications. It also contains a full documentation of the model and the datafile required to run the model.

The model was developed in the modelling software Stella Architect (<https://www.iseesystems.com/store/products/stella-architect.aspx>), therefore users should have Stella Architect installed to be able to display and simulate the model. Users who have no access to Stella Architect can still view and run the model by using the Isee Player (<https://www.iseesystems.com/software/player/iseeplay.aspx>).