



Rijksinstituut voor Volksgezondheid
en Milieu
*Ministerie van Volksgezondheid,
Welzijn en Sport*

Environment and Health

RIVM | National Institute for
Public Health and the
Environment, the Netherlands

Milou van Muijden



Environment and safety

- ❖ Safe and sustainable approach to chemical substances, materials, products and new technologies
- ❖ Effects of climate change and climate change policy on environment and health
- ❖ Effects of the living environment on human health
- ❖ Emissions/exposures pollutants, greenhouse gases, noise
- ❖ Water quality in relation to health and the environment
- ❖ Ecosystem health
- ❖ Sustainable development
- ❖ Preparedness and response to incidents; occupational safety; biosecurity



Some environment and health activities

- ❖ Monitoring & modelling: emissions, air quality, noise, chemicals
- ❖ Risk or health impact assessments
- ❖ Epidemiological research:
 - COVID and air pollution
 - Pesticides
 - PFAS
- ❖ Programme Healthy Living Environment
- ❖ Sustainable health care
- ❖ Information services: Atlas Living Environment
- ❖ Support local health services
- ❖ Analysis and input for policy making (e.g. spatial planning)
- ❖ International collaborations (e.g. WHO)





Data- en Kennishub
Gezond Stedelijk Leven

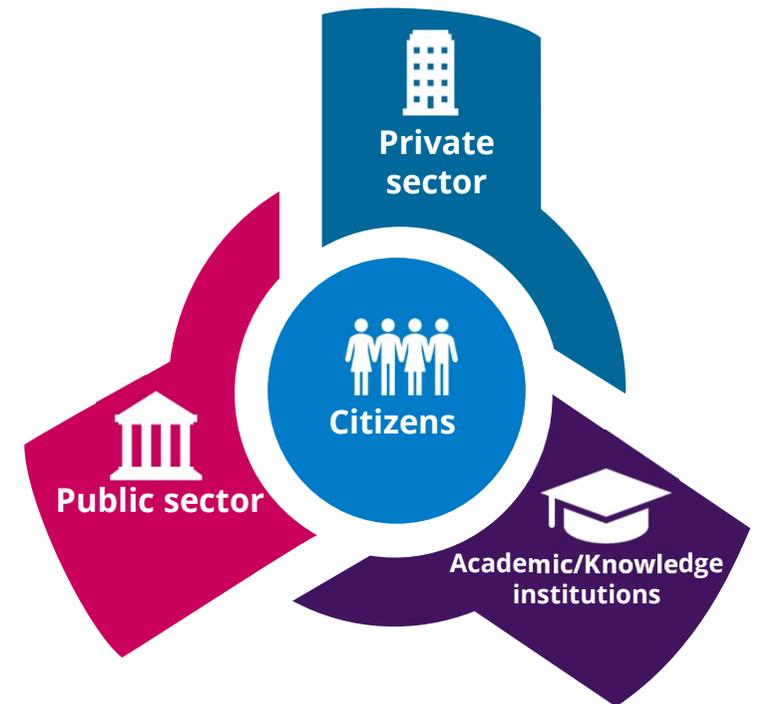
Data and Knowledge Hub Healthy Urban Living (DKH HUL)

Milou van Muijden

17 September 2025

Multiple Helix Approach

 Data- en Kennishub
Gezond Stedelijk Leven





Rijksinstituut voor Volksgezondheid
en Milieu
*Ministerie van Volksgezondheid,
Welzijn en Sport*

Programme Healthy Living Environment

RIVM & ZONMW

Ministry of Health, Welfare and Sports



Aim

- ❖ Better use of knowledge about a healthy living environment in the implementation of policy at municipal level
- ❖ In collaboration with municipal health services
- ❖ Stimulate collaboration physical/spatial and social domain





Programme Healthy Living Environ



Intersectoral collaboration:
physical and social domain



Health in spatial planning

-> concrete (HIA) tools and guidelines (if no limit values)



Same language and knowledge applicable in practice

-> database with tools and examples of measures



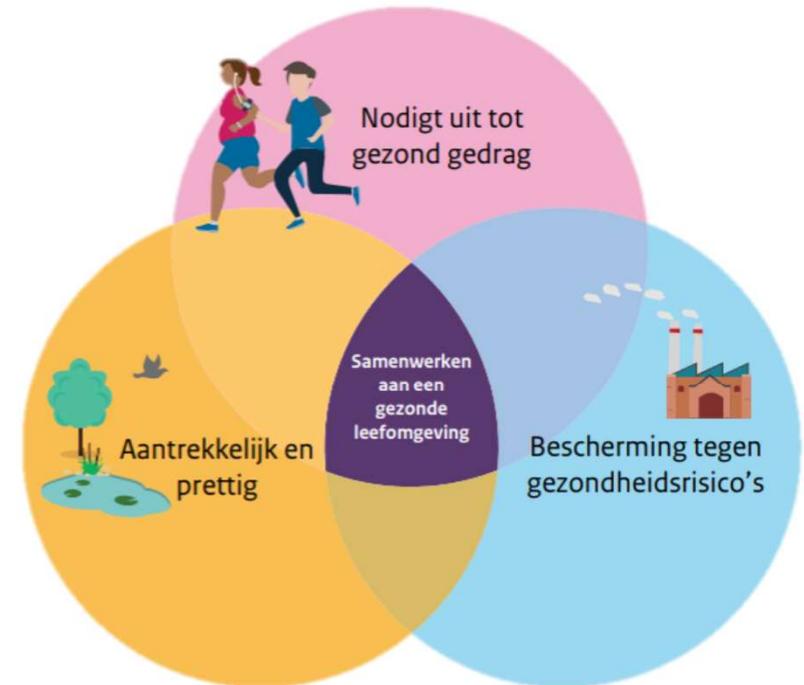
Working towards a Healthy Living Environment using Social Cost-Benefit Analyses

Based on RIVM report (2024)



A healthy living environment

- > A healthy living environment is essential for public health and overall well-being.
- > A healthy living environment is a place to live, work, and relax that:
 - Is perceived by people as attractive and pleasant,
 - Encourages and facilitates healthy behavior (health promotion),
 - Protects people from factors that may endanger their health (health protection).
 - More and more, health impacts are being considered in spatial planning and policy decisions.
- > Social Cost-Benefit Analyses (SCBAs) are important tools that help policymakers weigh the consequences of their decisions for society as a whole.





Overview of Assessment Methods

Method	When to Use
Social Cost-Benefit Analysis (SCBA)	When almost all expected costs and benefits can be quantified and monetized, and a financial-based decision is desired.
Cost-Effectiveness Analysis (CEA) (based on societal costs)	When there is a clear health objective (for example, reducing diabetes in a neighborhood).
Key Figures Cost-Benefit Analysis (KBA)	Used for indicative SCBAs when there is insufficient scientific evidence or valuations, but some action is still desired.
Multi-Criteria Analysis (MCA)	When monetization is not necessary, but various types of effects need to be considered.
Impact Assessment (IA)	When an early-stage overview of potential effects is needed in the decision-making process.
Participatory Value Evaluation (PVE)	When the perspective of residents is important to include in the decision
Ex-post Evaluation	When the policy has already been implemented, to evaluate the chosen policy option.



What is an SCBA?

- > A Social Cost-Benefit Analysis (SCBA) is a structured method for mapping out all societal costs and benefits of a policy, project, or intervention.
- > It considers financial, health, environmental, and social effects.
- > SCBAs help policymakers understand the broader impact of their choices, beyond just financial returns.



Why use SCBAs for healthy living environment

- > Weigh the pros and cons of different interventions aimed at improving health and quality of life.
- > Support transparent, evidence-based decisions.
- > Foster collaboration across sectors, such as health, urban planning, and environment.



Examples

Urban Green Spaces:

- > **Benefits:** Cleaner air, more opportunities for physical activity, improved mental well-being.
- > **Costs:** Investment in landscaping and maintenance.

Traffic Measures:

- > **Benefits:** Less air pollution and noise, improved road safety.
- > **Costs:** Changes to infrastructure, possible impact on traffic flow.

Housing Improvements:

- > **Benefits:** Better insulation leads to healthier indoor environments and lower energy bills.
- > **Costs:** Renovation expenses.



Key findings

- › SCBAs are valuable tools but can be complex to carry out.
- › Reliable data and cooperation between experts from different fields are necessary.
- › Not all effects, especially health impacts, are easy to quantify in monetary terms.
- › Involving stakeholders early in the process improves the quality and acceptance of the analysis.



Recommendations

- › Integrate SCBAs from the beginning of the policy or project cycle.
- › Invest in knowledge sharing and building expertise among professionals.
- › Develop clear guidelines for assessing health impacts within SCBAs.



Conclusions

- › Social Cost-Benefit Analyses can make an important contribution to healthier living environments.
- › They help balance health, economic, and social considerations.
- › Continuous development and collaboration are essential for effective use of SCBAs in policy and planning.



Get in touch

 milou.van.muijden@rivm.nl



Environmental footprint Dutch health care sector

