

# Concept of update of the CBA method for cycling

Austrian Cycling

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# Topics

1. Goal of our work
2. About the CBA methodology
3. Misrepresented benefits of cycling projects
4. Unrepresented benefits

## Goal of our work

- Cycling is more and more popular, but it requires infrastructure
- Interest groups contest for funding
- Showing how financially beneficial cycling projects are to society can help the cause
- Our goal in DCP:
  - Develop a methodology that takes into account the benefits of cycling
  - Easy to adopt even to smaller projects
    - Lack of resources
    - Lack of data

# About the CBA methodology

- Collects all costs and benefit of projects/project variants
- Estimates the monetary value of all costs and benefits
  - i.e.: reduction in travel time, CO2 emission, noise, accidents
- Calculates the societal return of the project
- What is it good for:
  - Decision about whether a project should be executed
  - Decision between project variants

# About the CBA methodology

- Some benefits can be estimated well with the current methodology:
  - CO2 & GHG emission,
  - Local air pollution
  - Noise reduction
  - Congestion



# Misrepresented benefits

- Value of travel time
  - Cycling VOT is significantly higher than in the case of other modes
    - 1 minute time saving for a biker worth more than for a car driver
  - Difference between commuters and leisure cyclers
- Cyclers also evaluate safety
  - More than 3 EUR/hour difference

# Unrepresented benefits

- Health effects
  - Health costs:
    - Growing chance of accident
    - Higher exposure to air pollution
  - Reduction of mortality:
    - cycling can help prevent several diseases: obesity, cardiovascular disease, type-2 diabetes, etc.
    - Significant effect are present at more than 30 minutes cycling per day
  - Benefits outweigh costs
  - Estimating monetary value:
    - HEAT methodology (WHO)





# Unrepresented benefits

- Health effects
  - Reduction of morbidity
    - Better general health status: reduction of sick day leaves, higher productivity
    - Magnitude is relatively small, scientifically debated
  - Further questions
    - Is there substitution between biking and other sport activities?
    - How do we evaluate e-bikes and pedelecs?
- Parking costs
- Tourism effects





## Summary

- We try to create a methodology that can appraise the true societal value of cycling projects
- Look at benefits that are misrepresented or left out of current methodology
  - VOT
  - Health benefits
- Provide a strong argument for investment into cycling

# Contact



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**Thank you for your attention!**

