



E-mobility at the +1 level in public transport

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Megatrends & Challenges

Increasing Urbanization





Sealing and Heating



Motorized Individual Transport

An aerial photograph of Central Park in New York City, showing a large green space with a lake and several baseball fields, surrounded by a dense grid of skyscrapers and residential buildings. The text "Necessity of sustainable urban design" is overlaid in white on the park area.

Necessity of sustainable urban design



Public
Transport
is needed

Solution & Implementation

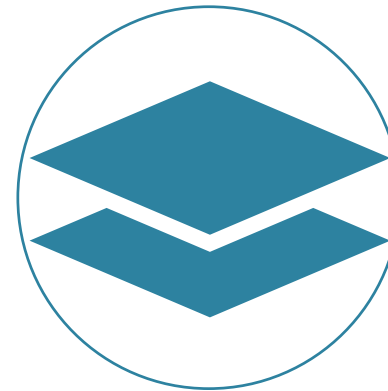
Formula for sustainable urban mobility



Public Transport



Electric Mobility

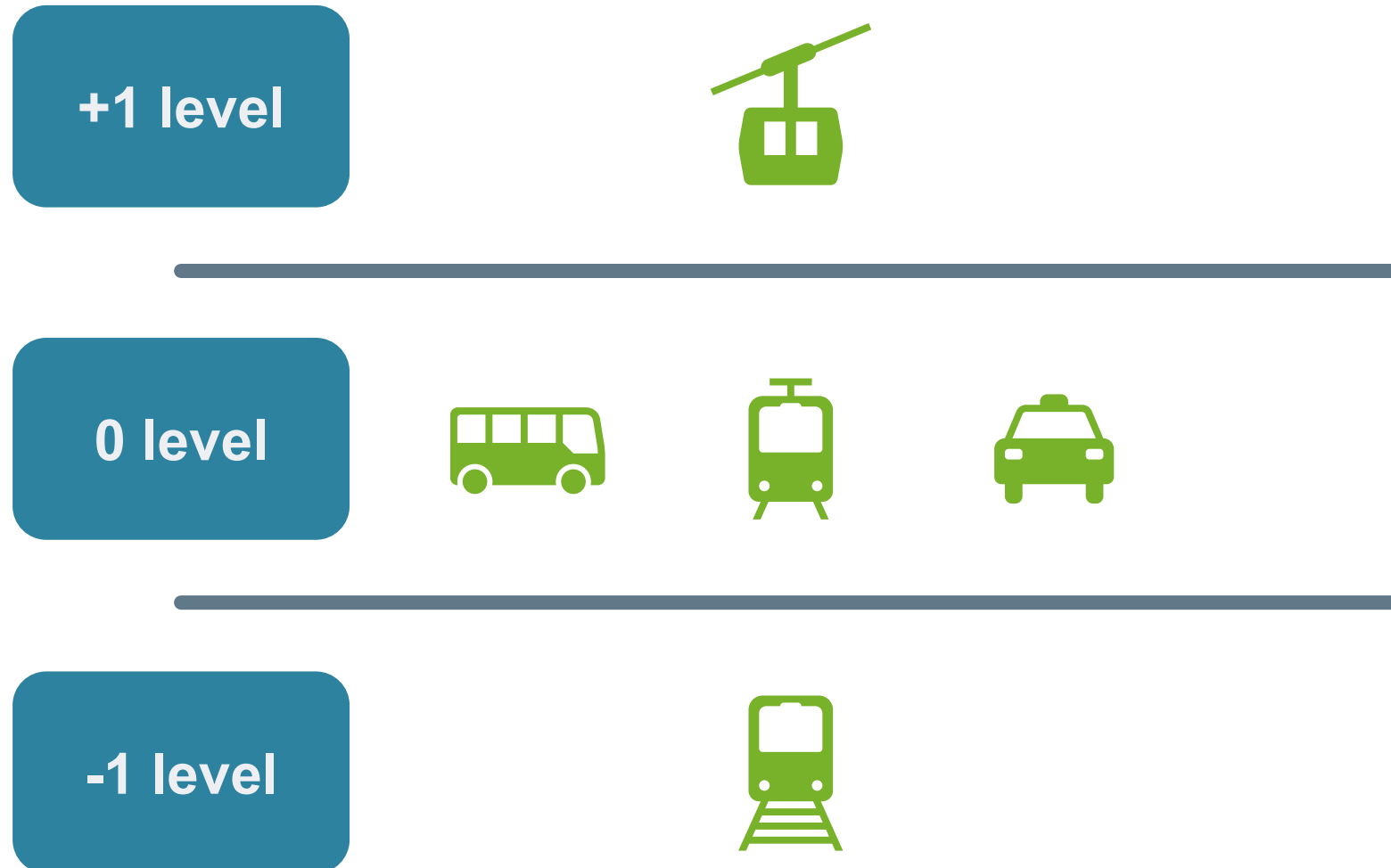


+1 level



Urban Cable Car

Different levels of local public transport



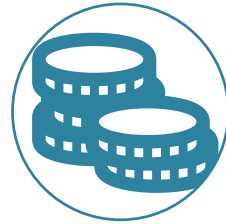
Advantages of a cable car in an urban environment



Exclusive corridor
on the +1 level



Technology is
established



Economic benefits
for cities



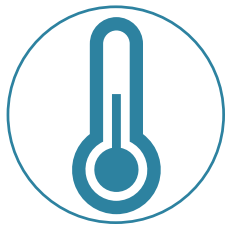
Short construction
time (temporary use
possible)



Low land
consumption



Part of multimodal
public transport



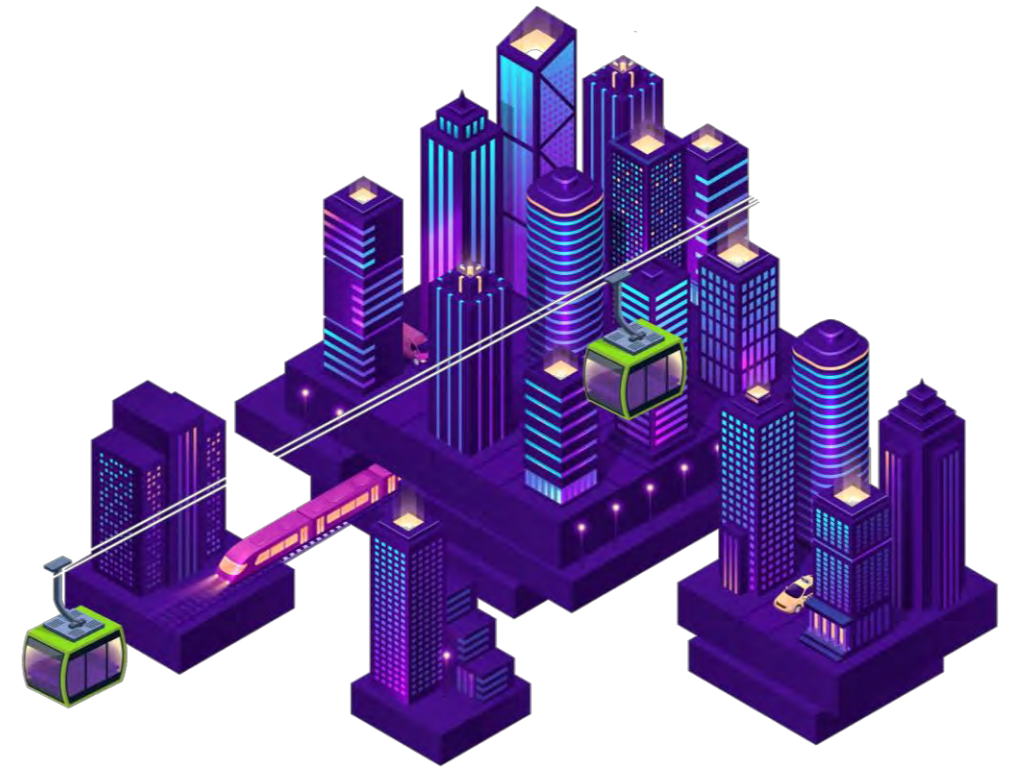
Supports against
overheating



Attractive mode of
transportation



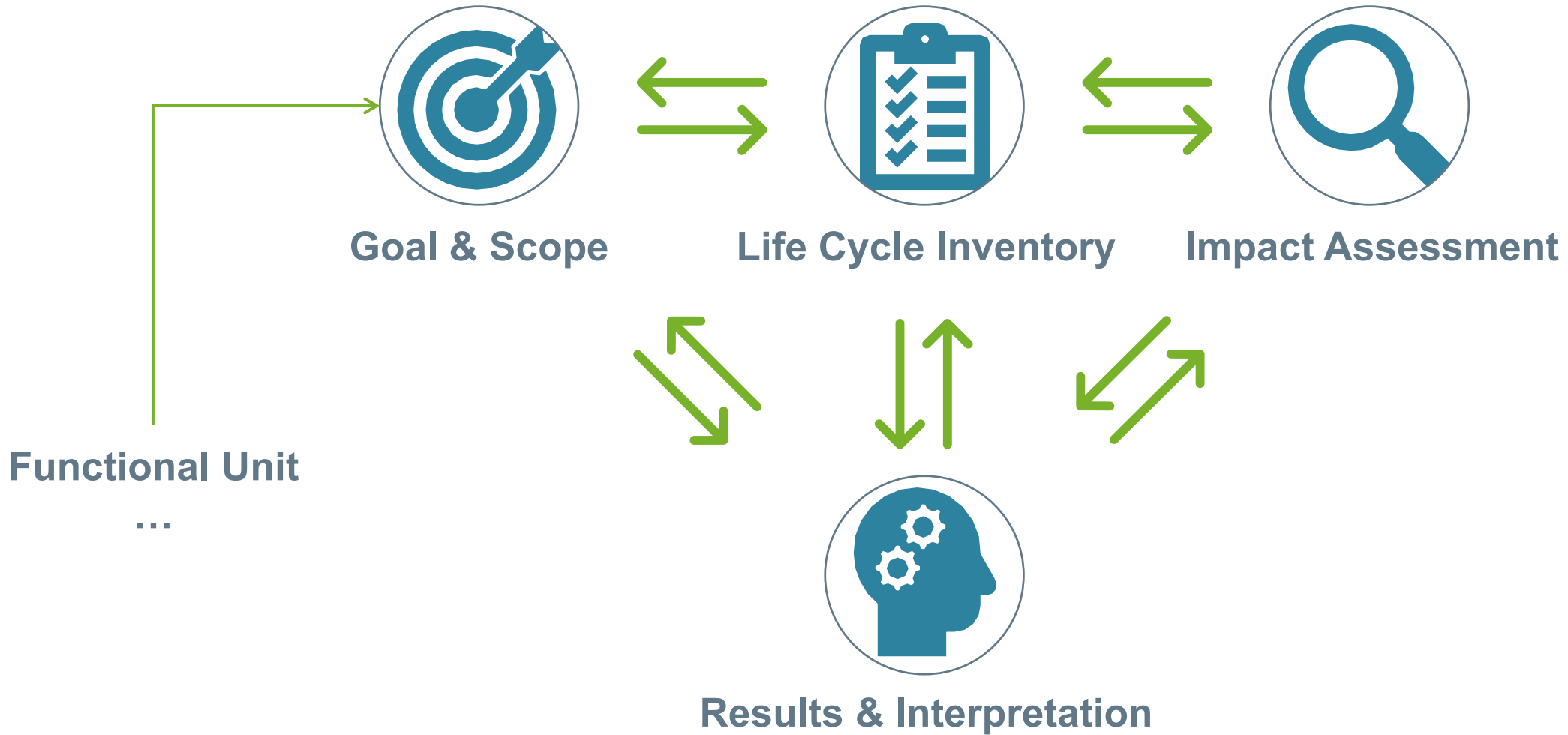
Part of the
planner's toolbox





How do you take an urban cable car out of the toolbox and put it into practice?

Life Cycle Assessment

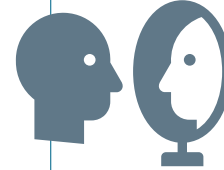


LCA leads to...



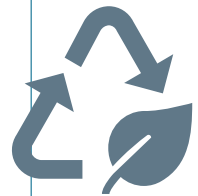
Clear formulation of objectives at the start of a process

- Non-discriminatory openness to technology



Ensuring a system comparison (best option is selected)

- Comparability and assessability of a cable car



Holistic view with sustainability factors (environmentally, economically)

- Specification of system requirements (functional unit) → What must the system be able to do?



Consideration of the individuality of each situation

- provides the best solution for the considered case



Convince planners, politicians and urban stakeholders

- Knowledge-based data and decision-making basis

Conclusion

- Urban Megatrends offer opportunities for cable cars in the coming decades
- +1 level is a potential area for public transport by rope
- Communicate existing knowledge to urban stakeholders
- Use LCA to establish comparability
- Establish cable cars as an equal means of transport in the public transport toolbox





Urban cable cars are an integral part of modern and multimodal public transportation

The potential is vast, let's use it...





**Thank you for
your Attention!**