

SUMP Topic Guide



Planned for end October 2022

- ✓ Stand-alone guide
- ✓ Good practices
- ✓ Methodological recommendations
- ✓ Practical GHG emissions calculations
- ✓ Tools
- ✓ Examples: List of actions

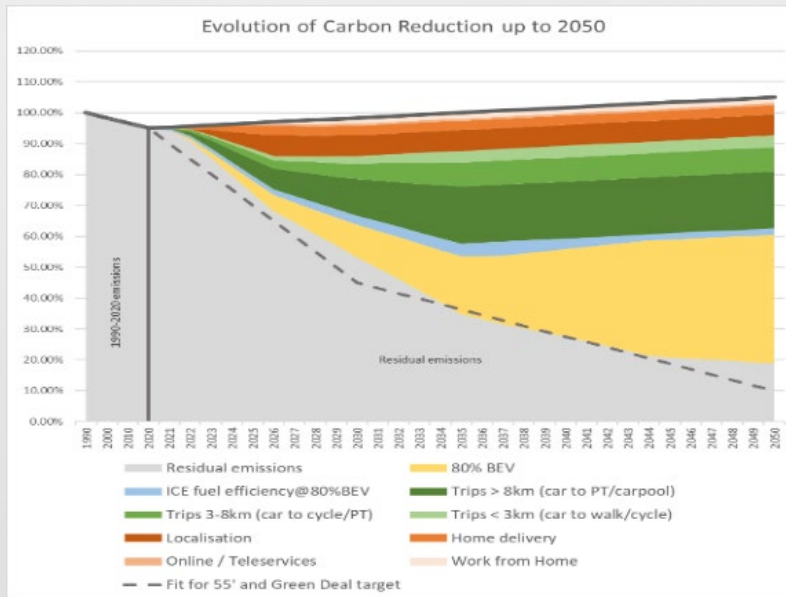
**Biggest potential of
Climate Change
Mitigation is
at Planning level**

Table of contents

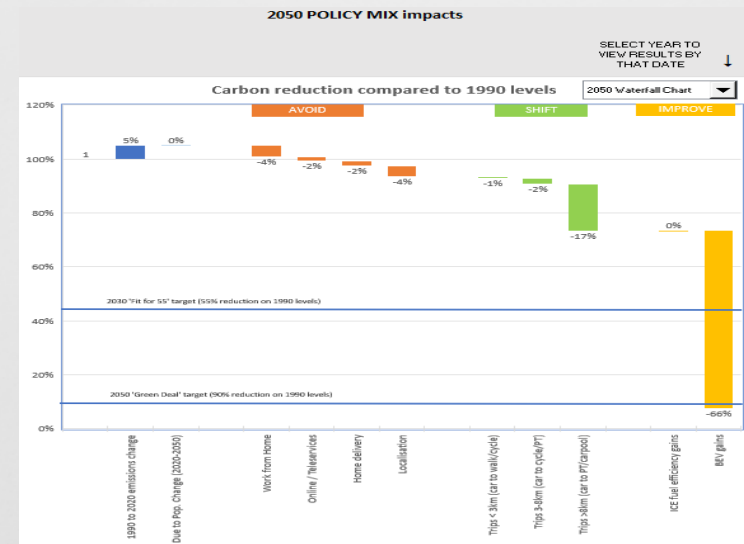
- 1. Planning Urban Mobility
Decarbonisation**
- 2. Path to Decarbonisation of
Urban Mobility**
- 3. SUMP Steps for Climate
Change Mitigation Planning**
- 4. Portfolio of Effective Measures
and their Potential Contribution
to Mitigation**
- 5. Climate Risks of Transport**
- 6. List of References**
- 7. Annexes**

Appendix 6: The Carbon Zero Strategy Analysis Support Tool

- ✓ Establishing **good baseline** (travel patterns, energy grid mixes...)



- ✓ A basis for **analyzing different strategy mixes**



- ✓ Identifying **effective/feasible strategy components**, and/or barriers/challenges for upcoming SUMP

“A shift (of) the existing paradigm of incremental change to fundamental transformation is needed.”

Sustainable and Smart Mobility Strategy, 2020

- ✓ CO2 emissions directly linked to trip number, length & vehicles emission rates
- ✓ Mix of different strategies for a common goal
- ✓ Carbon transition strategy through different SUMP cycles
- ✓ “Vision & validate”
- ✓ Together with other key objectives

ASI Principles

1. **AVOID**
unnecessary traffic
/Reduce need for
long-distance travel
2. **SHIFT** traffic to
more
environmentally
friendly modes and
decarbonizing all
mode
3. **IMPROVE** the
remaining traffic

Need for
Integrated
Planning

SUMP Steps for Climate Change Mitigation Planning

PHASE 4: IMPLEMENTATION AND MONITORING

- ✓ Manage implementation
- ✓ **GHG emission monitoring** process
- ✓ Review & lessons

PHASE 1: PREPARATION & ANALYSIS

- ✓ Set up **working structures & climate change governance**
- ✓ Determine **low carbon planning** framework
- ✓ Analyse mobility situation & its **carbon footprint**

PHASE 3: MEASURE PLANNING

- ✓ Identify **CO2 reduction areas**
- ✓ Develop low carbon **measure packages**
- ✓ **Agree low carbon actions** & implementation responsibilities
- ✓ Prepare SUMP adoption & financing

PHASE 2: STRATEGY DEVELOPMENT

- ✓ Develop **a low to zero vision** & related objectives with stakeholders
- ✓ Set targets & indicators including **GHG emissions indicators**
- ✓ Build and jointly **assess planning options/scenarios**



Portfolio of effective measures

Types of actions

Categories	ASI - Relevance		
	Avoid	Shift	Impro
Cross-sectoral, Spatial and Sectoral Planning			
Integrated land use and urban planning	●	●	
Develop land use planning regulation		●	●
Sustainable Urban Mobility Plans (SUMPs)	●	●	●
Sustainable Urban Logistics Plans (SULPs)		●	●
Transit Oriented Development		●	
Policy & regulatory			
Urban vehicle access regulation – city toll, distinguished between emission categories	●	●	●
Parking policy prioritised for emission free vehicles	●	●	●
Parking price increase for fossil cars	●	●	●
Teleworking Incentives for local employees	●		
Educational/Capacity building			
Car-free Sundays	●	●	
Mobility consultancy (e.g. for new residents)	●	●	
Financial/Fiscal			
Congestion pricing schemes	●	●	
Provide support schemes for smart bilateral charging at home / at work, roadside, in order to use only decarbonised energy and to maximise renewables uptake.			●
Increase parking fees	●	●	●
Mobility Services			
Revise/Adjust time tables and increase frequency of regional/metropolitan/urban public transport services		●	
Smart cards for public transport- integrated/ smart/ multimodal ticketing	●	●	
MaaS at local/regional level (possibly as a subsidiary of the local transport authority/operator)		●	
Real time public transport information		●	
Mobile Assets			
Acquisition of new, mostly electric, public transport rolling stock to intensify services		●	●
Ban diesel fuel taxis and buses from 2025/2030			●
Request/promote low/zero emission taxi and Uber fleets			●

Infrastructure new/extension			
Develop new urban and suburban rail infrastructure/RER/subway/tram/BRT lines etc.		●	
Develop smart mobility hubs around rail, metro, tram or appropriate BRT stops		●	
Park & Ride facilities at all appropriate heavy rail, tram, BRT etc. stops at the entrance to the core city and outside		●	
Develop road-side e-charging infrastructure with sufficient charging space		●	
Improve cycling, walking and micromobility infrastructure (including associated services)		●	
Integrate renewable energy sources (e.g. solar roads, solar roofs for roads, PV-integrated noise barriers, ...)			●

Full benefits only achieved when set of complementary actions foreseen in the plan are implemented