

Bocconi

POLICY FRAMEWORK FOSTERING CIRCULAR SOLUTIONS IN THE MOBILITY SECTOR FOR THE CITY OF MILAN BY 2030

**Investing in Clean, Efficient and Effective Urban Mobility:
Climate Change Mitigation through SUMP**

15th September 2021

Gabriele Grea

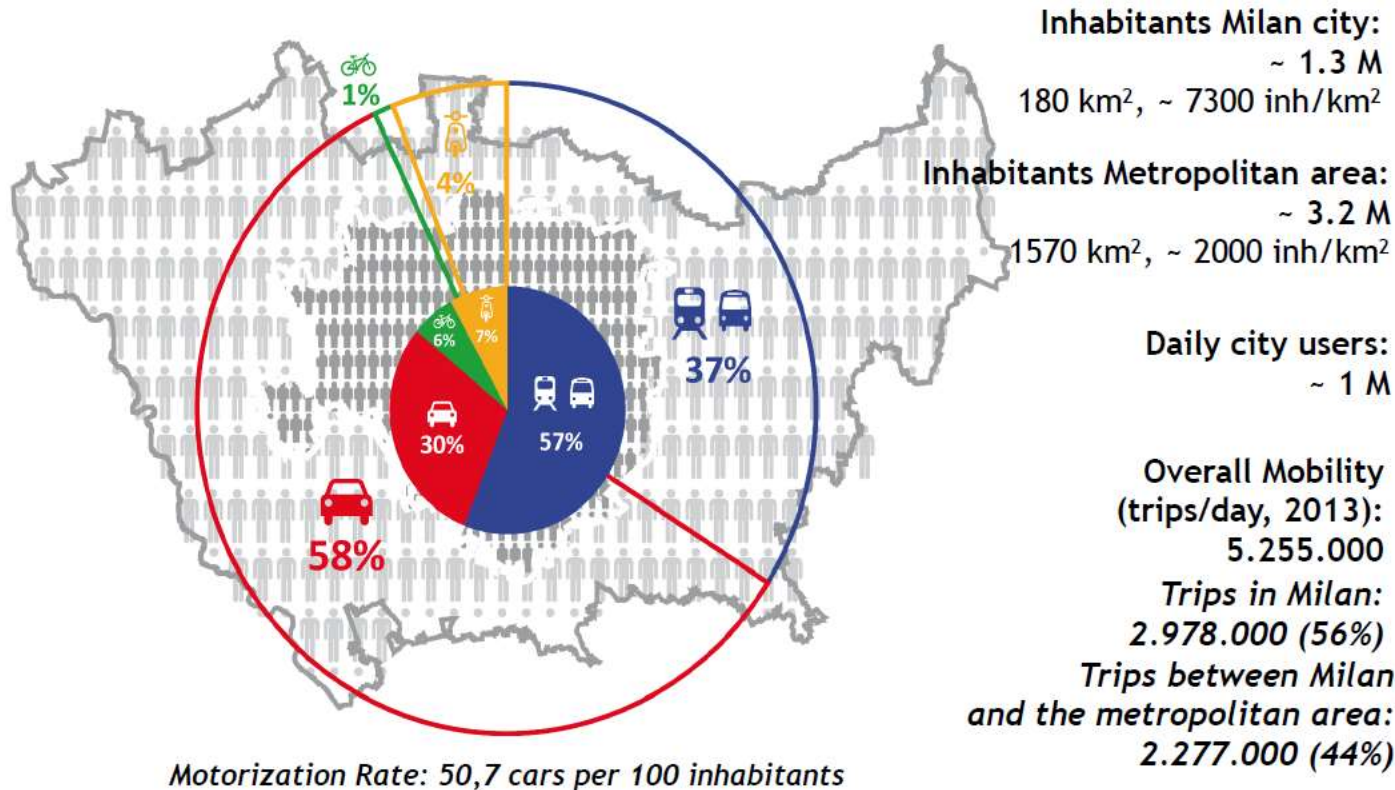
Bocconi University - GREEN Research Centre



**Università
Bocconi**

GREEN
Centro di ricerca sulla geografia,
le risorse naturali, l'energia,
l'ambiente e le reti

Milano and its mobility demand



Source: AMAT 2021



The contribution of mobility to CO2 emissions

According to Milan Air and Climate Plan, transport is responsible of 18% of the total GHG emissions in Milan Area (2017 data).

Emissions of the transport sector in Milano, 2017

SECTOR	CO2 Kt	N2O IN Kt CO2 Eq	CH4 Kt IN CO2 Eq	Tot Kt CO2 Eq
Public transport	154,0	0,7	0,1	154,8
Private transport	802,2	8,0	2,0	812,2
Total transport	956,2	8,7	2,1	967,0

Source: Air and Climate Plan



The policy framework

Milan municipality commitments to create a sustainable and circular city, with specific measures to create green and healthy streets, are based also on the measures included in the [C40 Fossil Fuel Free Streets Declaration](#), the [Sustainable Mobility Urban Plan](#) (SUMP) and the [Action Plan for Sustainable Energy](#).

Framework of policies introduced by Milan municipality to foster circular solutions in the mobility sector

MACROCATEGORIES OF ANALYSIS FOR CIRCULAR CITY IN MOBILITY SECTOR

MAIN PLANNING DOCUMENTS APPROVED BY MILAN MUNICIPALITY

Potential contribution to decarbonisation	C40 Clean Air Cities Declaration (October 2019) C40 Fossil Fuel Free Streets Declaration (October 2017) Air and Climate Plan (to be approved in the next legislation) Sustainable Mobility Urban Plan (December 2018)
Increased resilience	Sustainable Mobility Urban Plan (December 2018) Local protocol and smart working organisational Plan (December 2020) Milan 2020. Adaptation Strategy (August 2020) Resilience strategy
Quality of life of citizens	Sustainable Mobility Urban Plan (December 2018)

Source: GREEN 2021



Synthesis of circular city actions in mobility

Climate action areas and targets (I)

ID	CLIMATE ACTION AREA	TARGETS	MAIN PLAN
1	Public transport extension	33,4 km extension of existing metro lines and 34,9Km of new metro-tramways line by 2030 and further 68 km of new metro lines by 2050 thanks to the extension of M2,M3,M4 and M5	Sustainable Urban Mobility Plan;
2	Cycling and walking	35km of new cycling lanes by 2021 and implementations of New Zone 30	Sustainable Urban Mobility Plan; Strade Aperte and Piazze Aperte projects, Mobility4MI project
3	Sharing mobility	Improve the accessibility and the management of the 17 sharing mobility operators active in Milan area	
4	Fight against pollution through limited traffic zone	Since the introduction of Area B, the traffic atmospheric emissions will be reduced between 2019 and 2026 of almost 25 tons of exhaust-pipe PM10 and 900-1.500 tons of nitrogen oxides.	Area C and Area B

Source: GREEN 2021



Synthesis of circular city actions in mobility

Climate action areas and targets (II)

ID	CLIMATE ACTION AREA	TARGETS	MAIN PLAN
5	Fuel efficiency	<p>Thanks to the replacement of diesel with electric vehicles (Full Electric Plan), by 2030 the Milan Transports Utility fleet will consume 30 million liters/year diesel less, thus reducing CO2 emissions of almost 75,000 tons/year</p> <p>The Full Electric Plan will be beneficial for air quality. The largest contributions that will be achieved in 2030 will be the reduction of 460 tons of emissions of nitrogen oxides, the decrease of three tons of PM10 and 0.8 tons of Elemental Carbon, as well as the reduction of 1% of the total emissions of greenhouse gases of the Municipality of Milan, an essential element of local and international planning and scheduling policies.</p>	ATM Full Electric Plan
6	Demand behaviour	<p>Teleworking and adapting flexible working hours to reduce public transport users in peak hours and redistribute traffic and lower congestion</p>	<p>Local protocol and smart working organisational Plan</p> <p>Milan 2020. Adaptation Strategy</p>



Climate action areas and their potential

The relevance of Milan circular city action areas in the mobility sector

CLIMATE ACTION AREA	POTENTIAL CONTRIBUTION TO DECARBONISATION	INCREASED RESILIENCE	QUALITY OF LIFE OF CITIZENS
Public transport extension	++	++	++
Cycling and walking	++	+	+++
Sharing mobility	+	+	++
Fight against pollution through limited traffic zone	+		+
Fuel efficiency	++	+	+
Demand behaviour	+++	+	+++

+: relevant; ++: very relevant; +++: strategic

Source: GREEN 2021



THANK YOU FOR YOUR ATTENTION



**Università
Bocconi**

GREEN
Centro di ricerca sulla geografia,
le risorse naturali, l'energia,
l'ambiente e le reti

gabriele.grea@unibocconi.it

More Information

For info or further questions on this webinar please contact the JASPERS Networking Platform team:

jaspersnetwork@eib.org

JASPERS Networking Platform:

www.jaspersnetwork.org

JASPERS Website:

jaspers.eib.org

