TRAINING FICHE

04. ENVIRONMENTAL SUSTAINABILITY IN MOBILITY

Area	MOBILITY
Level	ADVANCED
Topic	4. Environmental implications and impacts
Module	Environmental sustainability in mobility
Keywords	Responsible Consumption – carbon footprint – pollution – Sustainable Mobility – human habits
Introduction **(500-1000 characters including spaces)**	Where transportation is frequently given as a service, cities are aiming to offer digital, clean, intelligent, autonomous, and multimodal mobility with more walking and cycling spaces. In this particular location, cities should prepare for significant disruption. Robotic taxis, flying

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	passenger drones, for city-underground tunnels, are just some of the innovations that may emerge in the future of mobility. to abandon driving a car. User-centeredness is the main focus of a change in the dynamics of global urban transportation. Electrification, autonomous driving, smart and connected infrastructure, modal diversity, and mobility that is integrated, resilient, shared, and sustainable - powered by disruptive business models - will all further the trend of major changes in how people move around in cities over the next ten years. 54 percent of city executives confessed in response to an ESI Thoughtlab study that they will reevaluate mobility and transportation in the wake of the COVID-19 outbreak.
Impacts/Benefits **(1000-1500 characters including spaces)**	Innovative urban transportation and planning solutions contribute to the development of a future that is practical, linked, approachable, and sustainable. Here are some of the benefits of more RC in mobility: - Enhance quality of life while minimizing environmental impact: As a result of COVID-19, new mobility models, notably non-motorized versions, are widely adopted. - Reduce traffic and air pollution: According to recent research conducted by ESI ThoughtLab, smart urban mobility solutions can assist cities in reducing traffic congestion. Investment in technologically advanced transportation solutions need to be a top focus. Congestion, air pollution, and noise levels will all be reduced as a result of ride sharing and a decline in the number of private vehicles on the road. - Increase traveler convenience: Smart-safe mobility solutions offer highly automated,

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	integrated, and data-powered services that improve the lives of individuals. Due to this, sophisticated safe-mobility features that protect user data are also required. - Decreases the frequency of accidents and saves lives: Averaging 3,700 fatalities each day, traffic accidents claim the lives of almost 1.35 million people annually. The number of fatalities will decline as mobility changes. - Encourage more efficient use of public space because fewer rides mean fewer cars on the road and parking spaces. As a result, spaces may be used for social interaction, allowing for greater utilization of public space.
Good practices **(1000 -1500 characters including spaces)**	**MaxLupoSE:** application of mobility management and land use planning guidelines in a network of 12 cities in Sweden. This good practice was implemented in twelve municipalities, representing towns from the north to the south of Sweden, all small- and medium-sized towns. It deals with the integration of mobility management in the planning process, representing a good way to enhance sustainable mobility and an innovative approach. MaxLupo explains and provides examples of policies to better integrate sustainable transport with the land use planning process and the way to better integrate MM with land use planning. Every municipality implemented one or more principles reported in the MaxLupoSE guidelines. **Enel X: Circular City Index** It is a free indicator created by Enel X in partnership with the University of Siena that is exceptional on the Italian scene because it is entirely based on open data. It is able to assess the starting level of

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	urban circularity of all Italian municipalities while attempting to strike the best possible balance between the diversity present on the territory in terms of population and territorial extension. The model was developed following an extensive review of Open Data from national sources, allowing the study to be expanded to include all of Italy. Four important aspects are examined to determine the amount of circular maturity: digitalization, environment and energy, transportation, and waste.
Current and future challenges **(1000 -1500 characters including spaces)**	It is expected that in general people will travel less than in the past. Movements inside the town will significantly diminish as a result of new urban design concepts like the "15-minute city," which promote compact surroundings, "connected corridors," and adjustments to how people work. In community neighborhoods, bicycles, scooters, and even walking will become more popular modes of transportation. The coronavirus epidemic has led to an unparalleled investment in cycling across Europe, from Bucharest to Brussels and from Lisbon to Lyon. Between the start of the epidemic and October 2020, 2,300 kilometers (1,400 miles) of additional bike lanes were installed. More than EUR 1 billion has been invested on cycling-related infrastructure. Furthermore, Electric vehicles (EVs) are predicted to account for around 32% of all new automobile sales globally by 2030.
Language	English
Partner	IHF

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Further references	https://www2.deloitte.com/global/en/pages/public-sector/articles/urban-future-with-a-purpose/mobility-intelligent-sustainable-and-as-a-service.html https://thoughtlabgroup.com/smart-city-solutions-for-a-riskier-world-2/ https://www.enelx.com/it/it/istituzioni/sostenibilita/open-data-pubblica-amministrazione/circular-city-index https://transport.ec.europa.eu/transport-themes/mobility-strategy_en

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