CALGARY 2022 CANADA

FEBRUARY 7–11 | 7–11 FÉVRIER | 7–11 DE FEBRERO

SUMP Resilience Topic Guide: the toolbox to plan for Resilience

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VIRTUAL | VIRTUEL

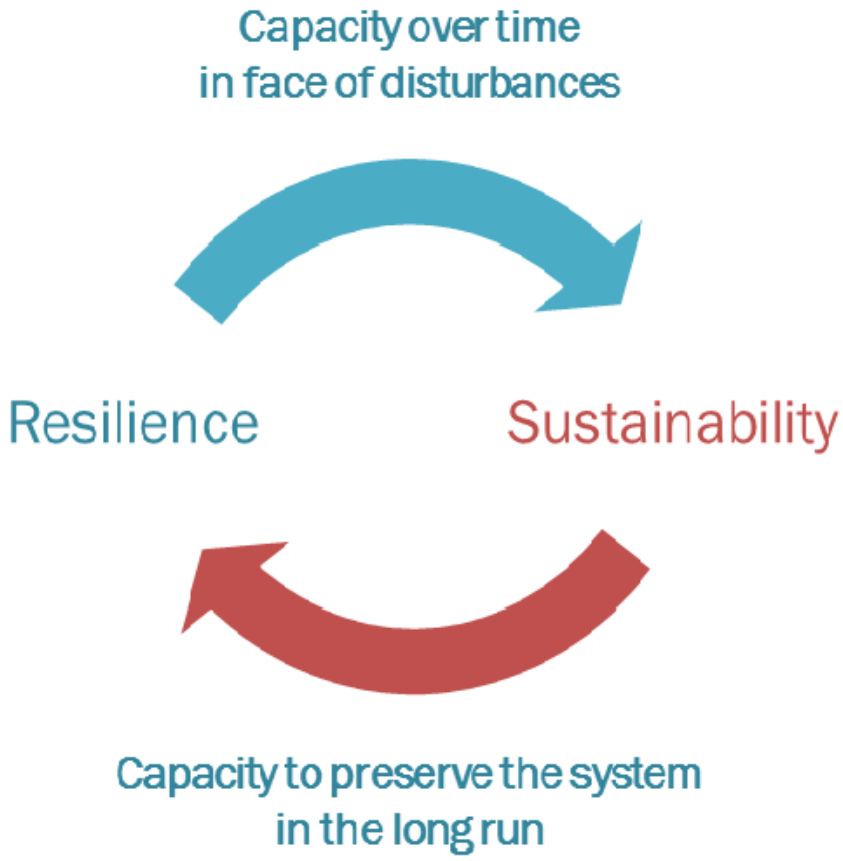
XVI WORLD WINTER SERVICE AND ROAD RESILIENCE CONGRESS

XVI[e] CONGRÈS MONDIAL DE LA VIABILITÉ HIVERNALE ET DE LA RÉSILIENCE ROUTIÈRE

XVI CONGRESO MUNDIAL DE VIALIDAD INVERNAL Y RESILIENCIA DE LA CARRETERA

PIARC Calgary Canada

SUSTAINABILITY = RESILIENCE



Source: Tendall et al. 2015

Section 2 Topic Guide – Measure fields

Resilience Topic Guide expands the content of the COVID-19 SUMP Practitioners Briefing and proposes measures following the CIVITAS thematic group structure:

- Car independent lifestyles: Walking and cycling
- Electromobility
- Collective Passenger Transport
- Demand Management Strategies: Parking and UVAR
- Road Safety
- Transport Telematics: New Mobility Services
- Urban Freight

GENERAL STRUCTURE OF MEASURE FIELD CHAPTERS

- Introduction

Introducing the measure field

Relation between the measure field and the 7 Resilience Principles

- Dealing with COVID-19

How do cities deal with a crisis? COVID-19 as a case-study

- Short term measures

- Long term measures: Aiming For Resilience

How can cities prepare for future crisis and build resilience?

- Case-Studies

How does each measure field contribute to each principle?

Table 8: Relation between Resilience Principles and measure fields

	Modal systems					Building blocks, Components		
Principles	Cycling	Walking	Collective Public Transport	Urban Freight	Urban Vehicle Access Regulations	Parking Management	Electromobility*	Transport Telematics
Reflectiveness	4	4	4	4	4	3	2	4
Robustness	4	5	5	5	4	1	3	2
Redundancy	4	5	5	4	4	3	3	3
Flexibility	4	5	4	4	5	4	3	4
Resourcefulness	5	4	4	4	4	3	4	3
Inclusiveness	5	5	5	4	4	3	3	3
Integrated	5	5	5	4	5	4	3	4

1 – No Contribution
2 – To a low degree
3 – To a medium degree
4 – To a high degree
5 – To a very high degree

CAR INDEPENDENT LIFESTYLES: WALKING AND CYCLING

Contributing Authors
Cycling: CIVITAS HANDSHAKE project partners (Reggie Tricker and Marko Horvat, ICLEI)
Walking: María José Rojo, POLIS Coordinator Active Travel and Health

- Short term measures for a crisis: space reallocation, emergency planning, speed reduction, spatial interventions, communication and awareness raising, open streets…

- Long term: temporary measures becoming permanent, technical guidance on emergency design

COLLECTIVE PUBLIC TRANSPORT

Contributing Authors
Yannick Bousse, UITP (CIVITAS SATELLITE), Luciano Pana Tronca, UCL (HARMONY)
Sergio Fernández, EMT (MOMENTUM)

Crisis showed the essentiality and vulnerability of Public Transport

- Short term measures: ensure information streamlined for staff, protective equipment for the staff, cleaning/disinfecting, providing dedicated services to essential workers, adapting services…

- Long term measures: priority infrastructure, ITS and digitalization to enhance PT

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SPATIAL & TRANSPORT PLANNING FOR A NEW MOBILITY ERA

MOMENTUM

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URBAN FREIGHT

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- Resilient city = Collaborative and Interdisciplinary Planning Approach of City Logistics
- Short term: provision of information on safety procedures, expansion of medical and health supply chains using drones, provision of prebooked parking spaces for loading/unloading…
- Long term: SULP (Sustainable Urban Logistics Plan)

DEMAND MANAGEMENT STRATEGIES

Contributing Authors
Parking: Glenn Godin, Mobiel21 (PARK4SUMP)
UVAR: Bonnie Fenton and Lisa Marie Bruner, Rupprecht Consult (ReVeAL), Simone Bosetti, Stefano Borgato (TRT)

Urban Vehicle Access Regulation and Parking management measures

- Short term: suspension/adaptation of UVAR measures, reallocation of parking space to accommodate walking and cycling

- Long term: Future technologies (geofencing, ISA), Strategic parking (and UVAR) revenue approach, supporting sustainable objectives (superblocks, reallocation of space)

TRANSPORT TELEMATICS

Contributing Authors

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Javier Burreza, Jose Maria Salanova, Evripidis Magkos, Sergio Fernández (MOMENTUM)

- Short term measures: data-driven responses to tackle crises, monitoring evolution to adapt, usage of new technology in times of crisis
- Long term measures: multidisciplinary capacity building, scenario and vulnerability/risk modelling

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GOVERNANCE FOR NEW MOBILITY SOLUTIONS

MOMENTUM

Sprout

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ELECTROMOBILITY

Contributing Authors
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- Short term measures less relevant – compared to other measure fields in the document
- Long term electromobility is key to enhance resilience of cities
- Long term measures: charging infrastructure, balancing/increasing grid capacity, Sustainable Energy Action Plans
- Public authorities should focus their efforts on drawing roadmaps and strategies to facilitate the shift towards electromobility

GREEN CHARGE

ELVITEN

eCHARGE 4DRIVERS

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Thank you!

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