

CREATIVE SESSIONS

URBANISM NEXT EUROPE
2021

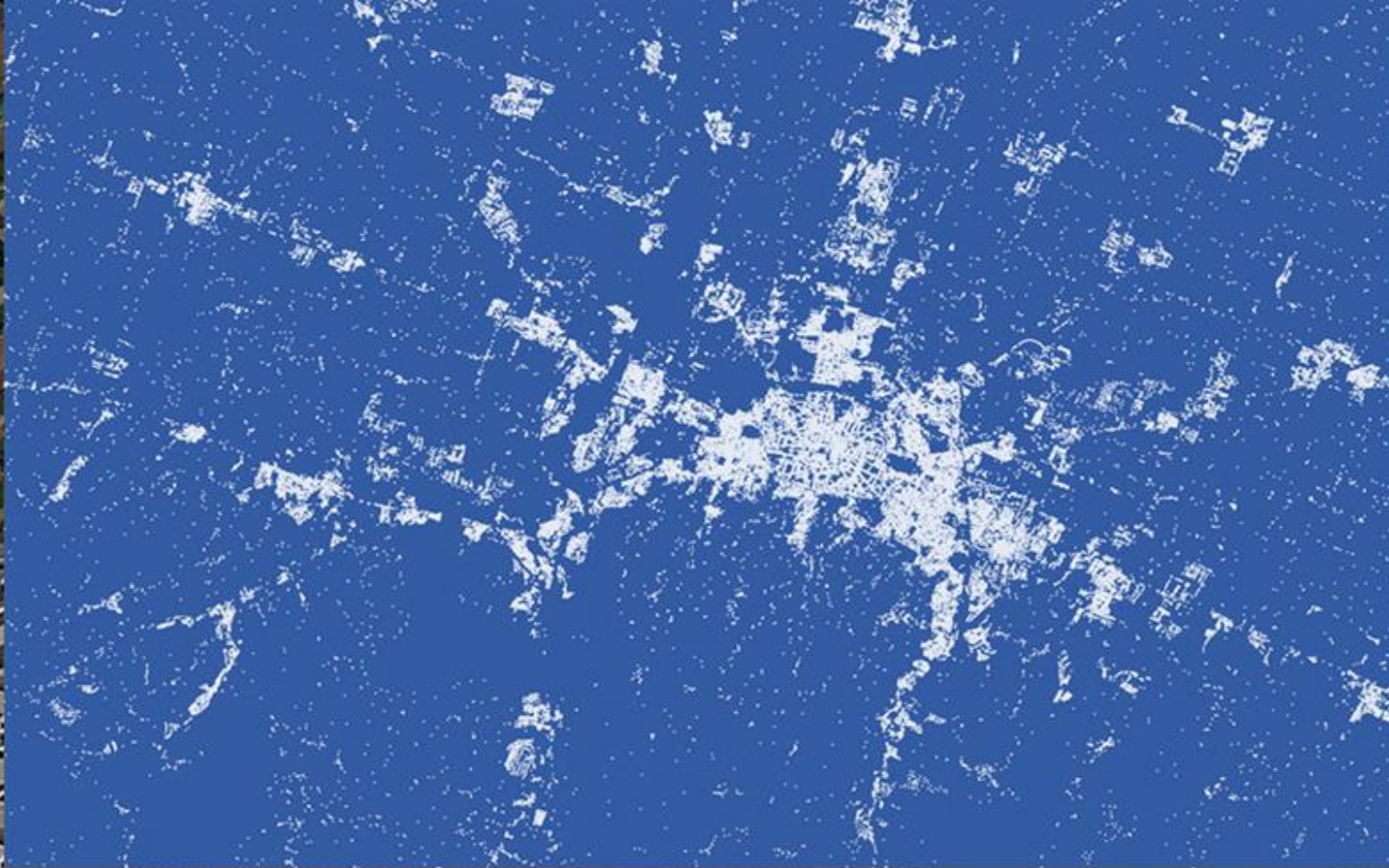


Mobility Hubs in the metropolitan transport network

PECHA KUCHA – PARALLEL SESSION 4.E

Lorenza dell'Erba, Metropolitan City of Bologna

 @UrbanismNextEU #UNextEU →



Is it planned?



In Italy

- 2 people out of 3 drive cars every day
- the 60% of daily transfers are with private car

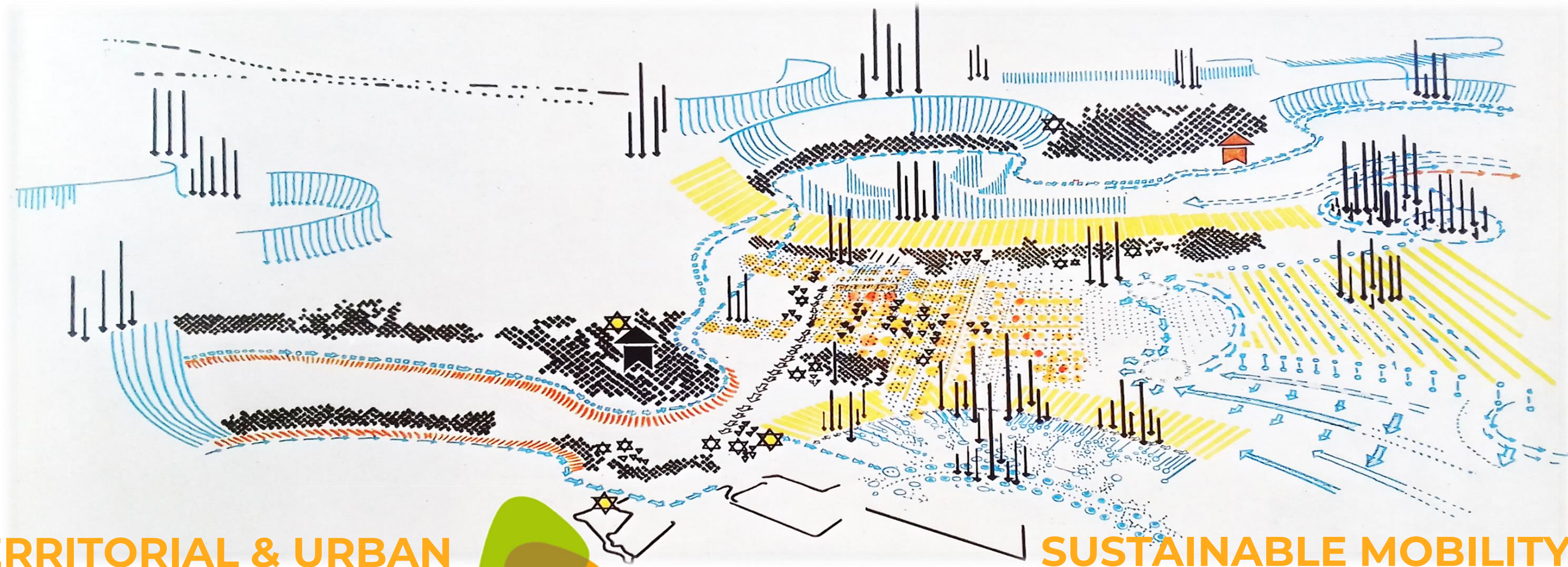
The diagram illustrates a progression of urban mobility models. It features three overlapping circles with orange outlines, each containing text. The circles are arranged horizontally. The first circle on the left is labeled 'Car-oriented City'. The second circle in the middle is labeled 'Sustainable-Mobility City' in yellow text. The third circle on the right is labeled 'People-oriented City' in white text. Two curved orange arrows point from the first circle to the second, and from the second circle to the third, indicating a transition or evolution from car-oriented to people-oriented urban planning.

**Car-oriented
City**

**Sustainable-
Mobility
City**

**People-oriented
City**

Towards integrated planning



**TERRITORIAL & URBAN
PLANNING**

**SUSTAINABLE MOBILITY
PLANNING**

ptm

Piano
Territoriale
Metropolitano
Bologna



PUMS

BOLOGNA
METROPOLITANA

Piano Urbano Mobilità Sostenibile

Mobility hubs as

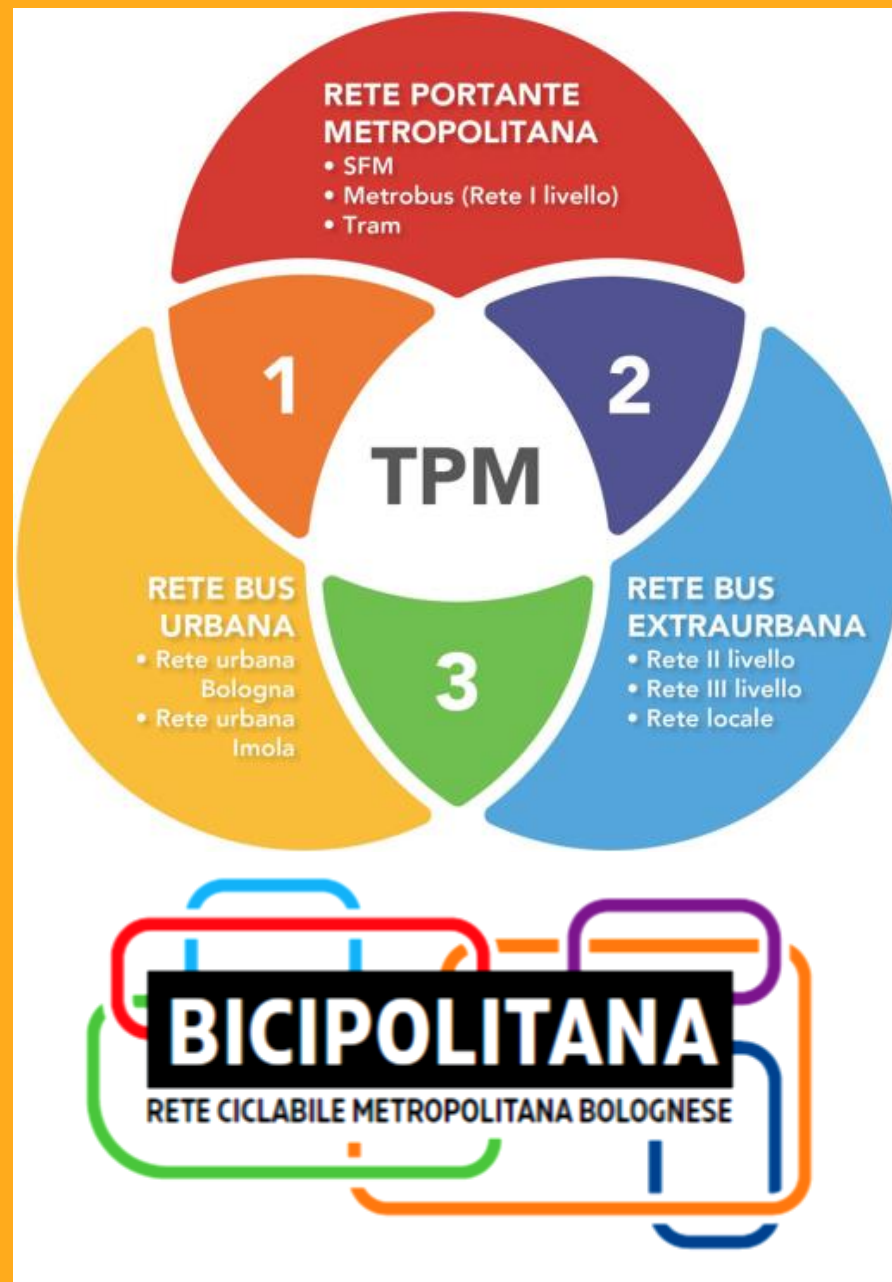


NEW GATEWAY FOR THE METROPOLITAN REGION

STRATEGIC NODES OF
METROPOLITAN PUBLIC TRANSPORT
FOR INTERMODALITY

URBAN MULTIMODAL HUBS

AS MAIN SUPPORT FOR CYCLE TURISTIC NETWORK
AND STRATEGIC BIKELANES PLAN



Mobility hubs as



NEW BACKBONE OF URBAN ORGANIZATION

**KEY-AREAS FOR PRIORITY OF URBAN
REGENERATION** AND PUBLIC SPACE
QUALIFICATION OF METROPOLITAN RELEVANCE

URBAN POLARITIES WITH MULTISERVICES FOR
CITIZIENS, CITY USERS AND TOURISTS THANKS TO
MIX OF FUNCTIONS



The Metropolitan Public Transport



Integrated Ticket



Metropolitan Railway
Service



Metropolitan
tramway network



Metrobus



Suburban bus
network



Mobility Hubs



Terminal
Fiera

the same ticket
is valid
for
BUS - TRAIN -
TRAM
travels

trains
every
15 minutes
at rush hour

4 new
tramway lines

7 suburban fast
Metrobus lines
(Bus Rapid
Transport-BRT)

improvement of
public service level
nights & holidays

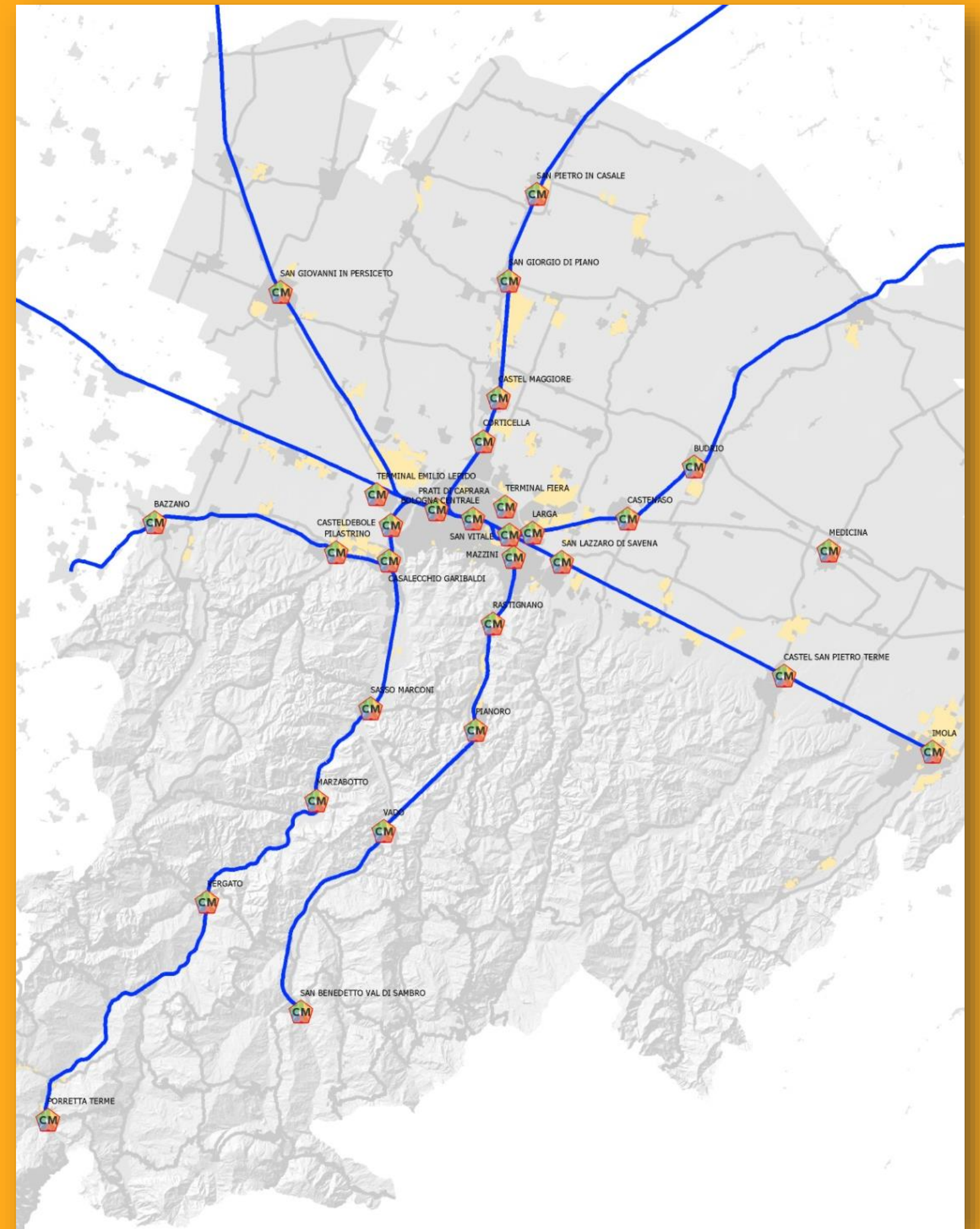
**A NETWORK OF
30 transport
interchange HUBS**

new main
transport
Terminal



30 Mobility Hubs

starting from railway stations



30 Mobility Hubs

throughout the metropolitan region

MOBILITY HUB	MUNICIPALITY
BOLOGNA CENTRALE	BOLOGNA
BOLOGNA CASTELDEBOLE	BOLOGNA
BOLOGNA VIA LARGA	BOLOGNA
BOLOGNA CORTICELLA	BOLOGNA
BOLOGNA MAZZINI	BOLOGNA
BOLOGNA SAN VITALE-RIMESSE	BOLOGNA
BOLOGNA PRATI DI CAPRARA	BOLOGNA
TERMINAL FIERA	BOLOGNA
TERMINAL EMILIO LEPIDO	BOLOGNA
BAZZANO	VALSAMOGGIA
BUDRIO	BUDRIO
CASALECCHIO GARIBALDI	CASALECCHIO DI RENO
CASTEL MAGGIORE	CASTEL MAGGIORE
CASTEL S. PIETRO TERME	CASTEL SAN PIETRO TERME
CASTENASO	CASTENASO
IMOLA	IMOLA
MARZABOTTO 	MARZABOTTO
MEDICINA	MEDICINA
VADO	MONZUNO
PIANORO	PIANORO
RASTIGNANO	PIANORO
PORRETTA TERME 	ALTO RENO TERME
S.BENEDETTO VAL DI SAMBRO	S.BENEDETTO VAL DI SAMBRO
SAN GIORGIO DI PIANO	SAN GIORGIO DI PIANO
SAN GIOVANNI IN PERSICETO 	SAN GIOVANNI IN PERSICETO
SAN LAZZARO	SAN LAZZARO DI SAVENA
SAN PIETRO IN CASALE	SAN PIETRO IN CASALE
SASSO MARCONI 	SASSO MARCONI
VERGATO 	VERGATO
PILASTRINO	ZOLA PREDOSA

Mobility Hubs are meant for



Urban and extra-urban bus network



Shared mobility services



Cycling and walking



Private transport



Citizens services



Main network
(MRS, Tram and Metrobus)



Multimodality - different transport options
Intermodality - easily change from a mode to another



Identity - well-defined and identifiable places throughout the territory
Attractiveness - comfortable and inclusive places
Clearness - user-friendly and easily usable spaces



Smart Mobility - new information systems for the user
Mobility On Demand - the user decides when, where and how to travel



Sustainable vehicles - for individual/collective transport
Parking areas - easy, nice, safe and green
Vehicle assistance - charging, repairing and washing areas



Mix of functions - shopping, restaurants, hospitals...
Sociability: places for everyone's daily life

Guidelines for projects

GOALS AND CHALLENGES

MAIN FUNCTIONS

PROJECT PRINCIPLES





PIANO URBANO DELLA MOBILITÀ SOSTENIBILE

CENTRI DI MOBILITÀ
Linee di indirizzo
per la progettazione

pumsbologna.it

Bologna
ad alta velocità

PROJECT-ORIENTED CHALLENGES



MAIN FUNCTIONS



- RAILWAY STATION-TRAM/BUS STOP
- GREEN SPACES
- SERVICES
- CONURBATION
- PUBLIC SPACE AND BUILDINGS TO BE REGENERATE
- MOBILITY HUB'S AREA OF INFLUENCE



Guidelines for projects

MEASURES AND ACTIONS

PROJECT LEVELS

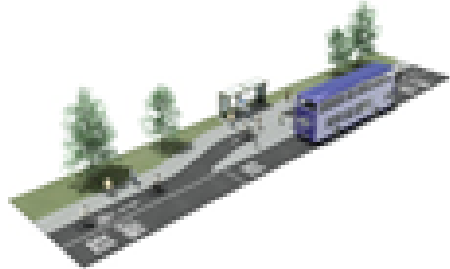
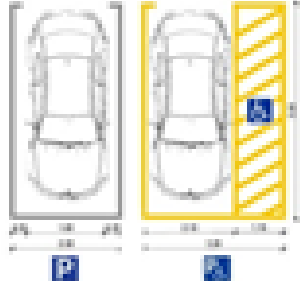
PUBBLIC PARTICIPATION

ECONOMIC SUSTAINABILITY

BEST PRACTICE

Protocol of understanding 22-04-2020



Servizio	Macro-dimensionamento degli spazi: parametri e dimensioni	
	Pedonalizzazione del piazzale	Dimensioni variabili a seconda del livello di comfort e di servizio che si desidera ottenere.
Parcheggio bici	 • 1,5 m² / stallo • 1 m² / stallo (cremagliera a doppio livello) • da 2 a 3 m² / stallo in <u>velostazione</u>	
	Presa/rilascio veicoli <u>sharing</u> (taxi, NCC, spazi dedicati allo <u>sharing free floating</u>)	• 30 m² per parcheggio taxi (accesso e manovra) • fino a 50-100 m² per garantire maggiore fluidità all'utenza • minimo 2 stalli
Fermate TPL gomma	 • 100 m² / fermata per bus 12m-18m • 150 m² / fermata per bus articolato (25m) su strada, senza accesso riservato; • 250-300 m² / fermata con accesso riservato	
	Terminal TPL gomma	• da 125 a 400 m² / stallo (bus 12m-18m) senza accesso riservato • fino a 1000 m² / stallo per grandi stazioni con terminal riservati
Parcheggi privati auto e scooter	 AUTO • 25 m² / stallo (2,5 m di larghezza, 5 m lunghezza, 5 m di distanza, considerandoti gli spazi di manovra) • 33 m² / stallo per PRM* (3,3 m di larghezza) MOTO e SCOOTER • 4 m²/stallo	

*PRM = persone a ridotta mobilità



Projects in progress

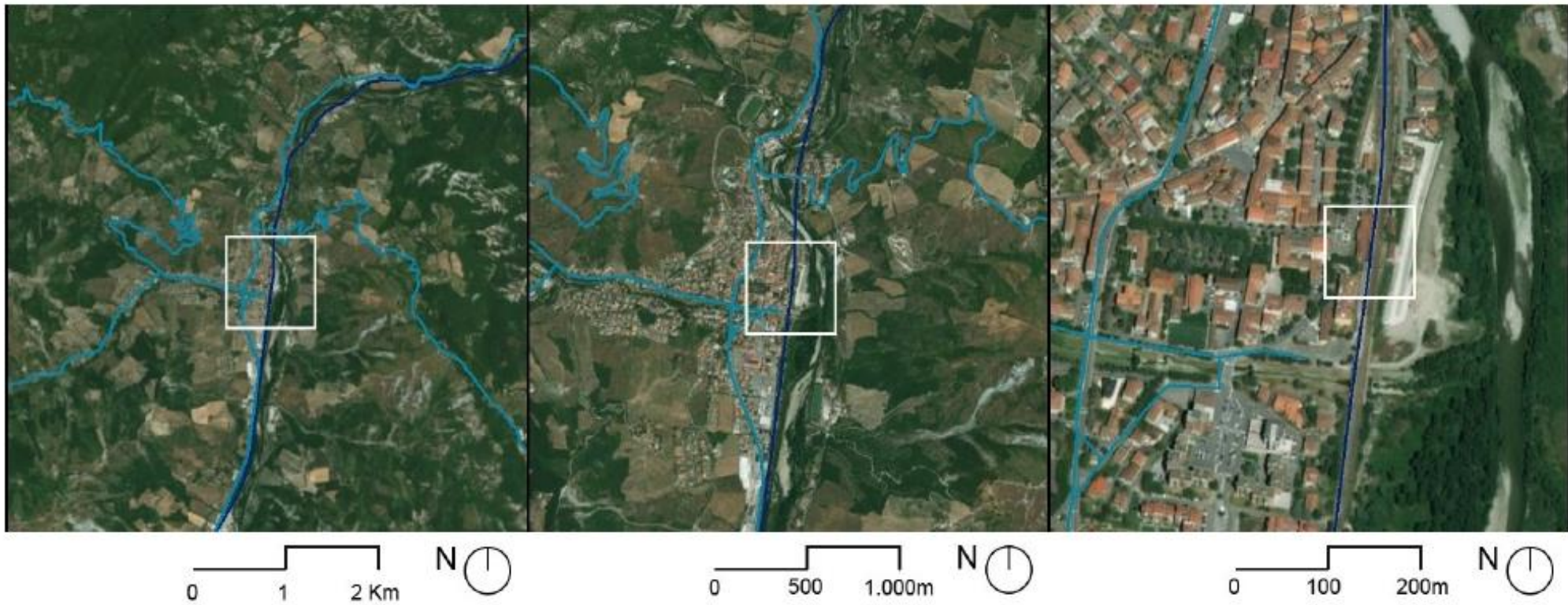


Projects in progress

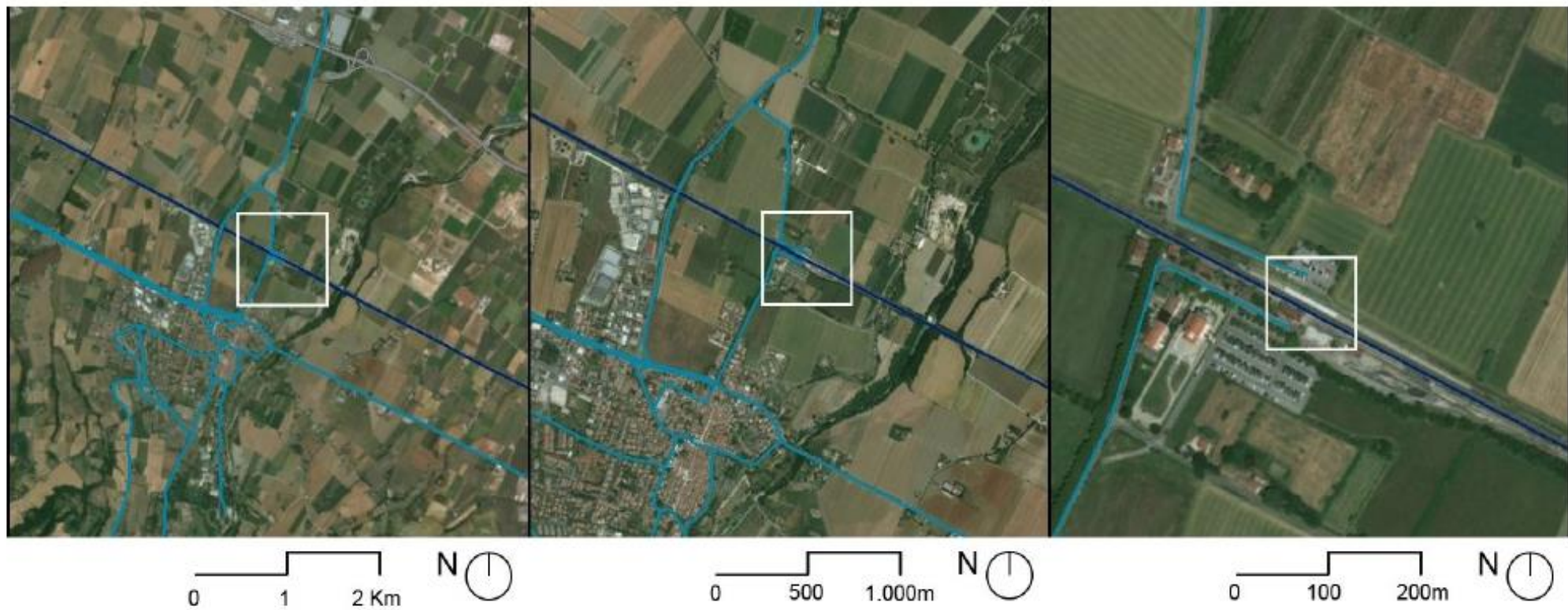


Next two projects on-going ...

VERGATO 



CASTEL SAN PIETRO TERME

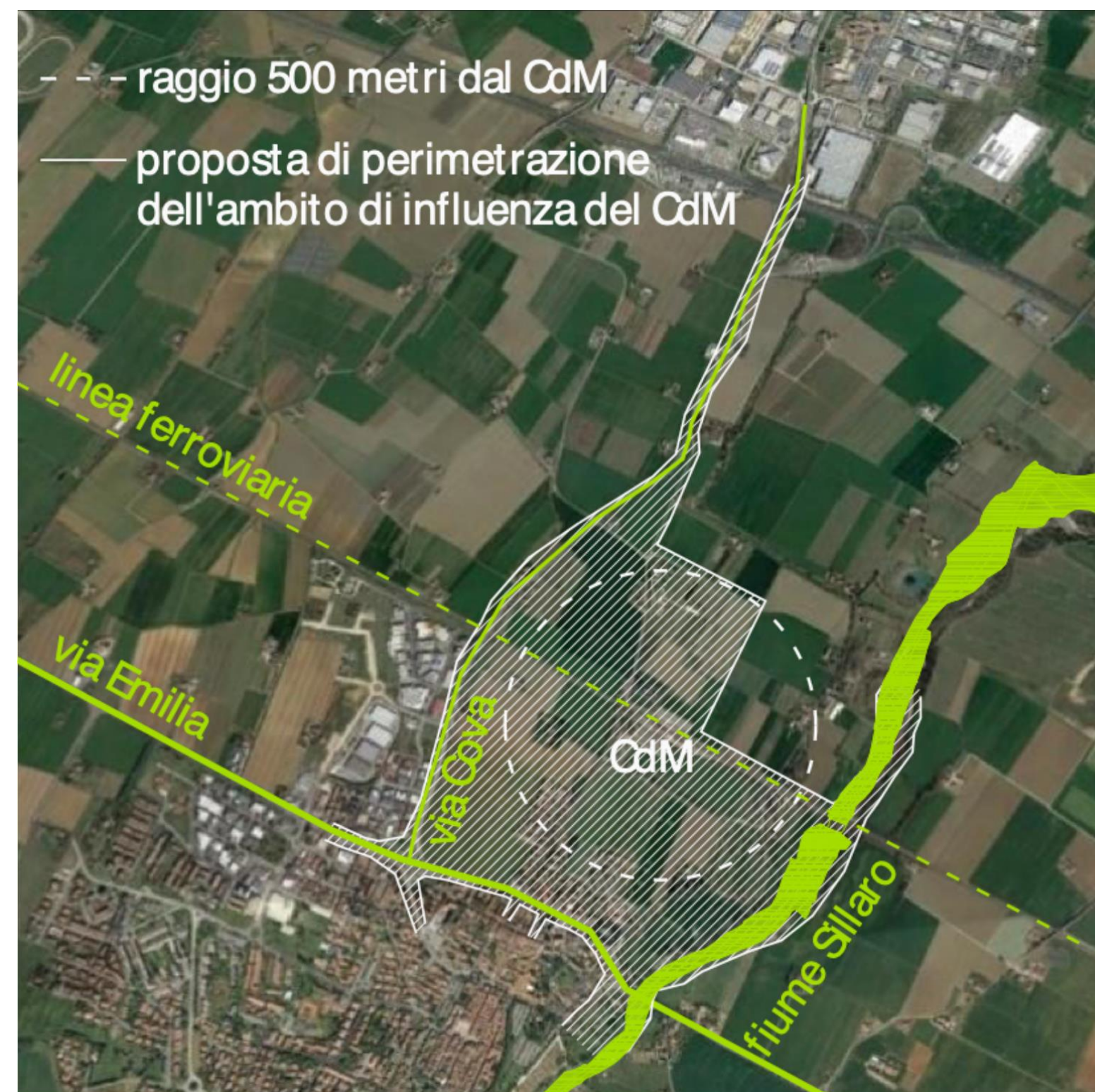


Next two projects going on ...

VERGATO 



CASTEL SAN PIETRO TERME





EUROPE.URBANISMNEXT.ORG

URBANISM NEXT EUROPE
2021 

Thank you!

Do you have any question?

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 @UrbanismNextEU #UNextEU 