

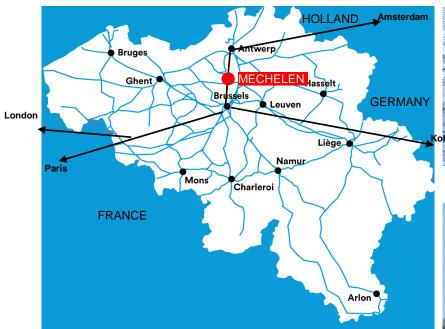
#### Parallel Session 1 – Station Design 1

# **Transit Oriented Development Case Study - Mechelen, Belgium**



Jean-Claude Thirionet
SNCB / NMBS Stations
Senior Expert

### **Belgium network**

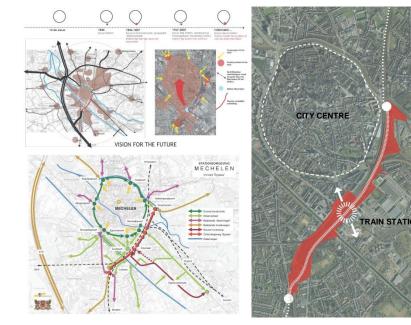


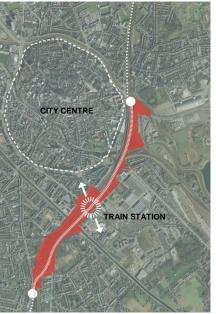


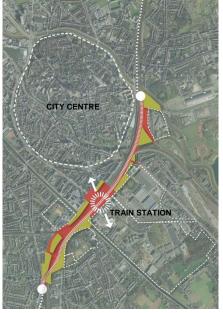














**BUNDLING OF INFRASTRUCTURE** 

THE CREATION OF PUBLIC SPACE

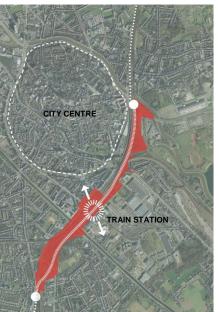
**URBAN DEVELOPMENT** 

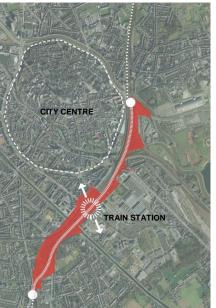


THE COMPRESSION OF 3 TRAFFIC INFRASTRUCTURES INTO A SINGLE INTERWOVEN 'ORGANISM'.















**BUNDLING OF INFRASTRUCTURE** 

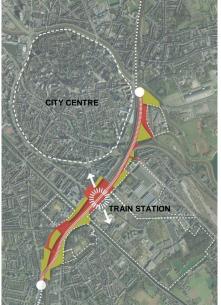


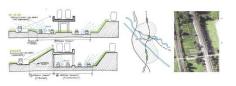
RECLAIMED URBAN SPACE > A NEW BIOLOGICAL CORRIDOR THROUGH THE CITY VALORIZED AS A BICYCLE ROUTE AND PUBLIC PARK LANDSCAPE.















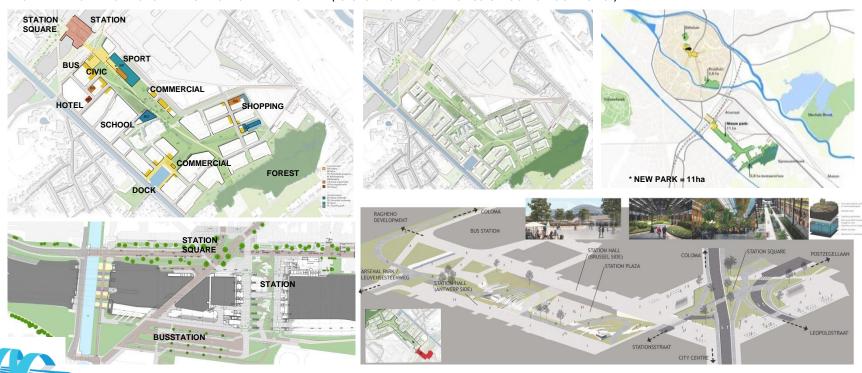




OPPORTUNITY BREEDS OPPORTUNITY > THE COMPRESSION OF TRAFFIC INFRASTRUCTURE AND THE VALORIZATION OF RECLAIMED URBAN SPACE TOGETHER STIMULATE LOCALISED URBAN DEVELOPMENT.



MASTERPLANNING > INTEGRATION OF TRAIN STATION + URBAN DEVELOPMENT (FUNCTIONAL SYNERGY & THE STRUCTURING OF PUBLIC OPEN SPACE).



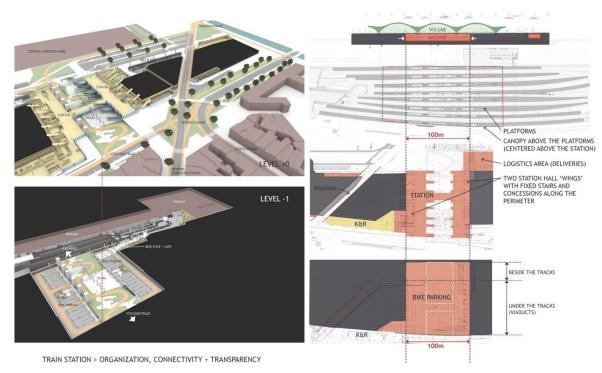
THE 'STATIONSPLAZA' AS AN EXTENSION OF THE PUBLIC URBAN REALM > THE INTEGRATION OF PUBLIC OPEN SPACE AT THE HEART OF THE TRAIN STATION.



THE IMPORTANCE OF A COMPACT STATION > THE STACKING OF FUNCTIONS IN ORDER TO LIMIT TRANSIT TIMES BETWEEN MODI AND FACILITATE VISUAL CONTACT BETWEEN USER GROUPS.



SPATIAL CONTINUUM > SERVICES AND SHOPS LOCATED AT THE PERIMETER OF THE PLAN IN ORDER TO AVOID VISUAL OBSTRUCTIONS.

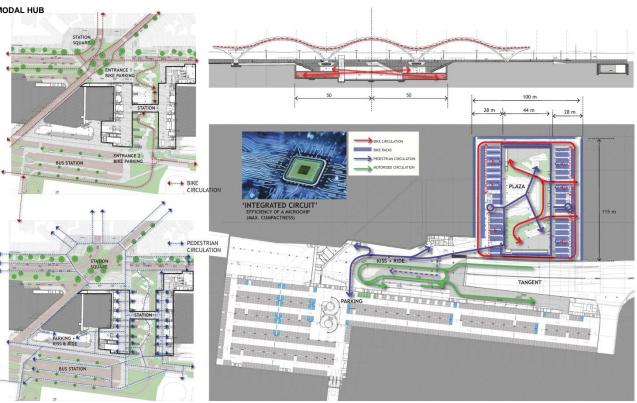








TRANSPARENCY > A STRONG VISUAL RELATIONSHIP (ORIENTATION AND SAFETY).





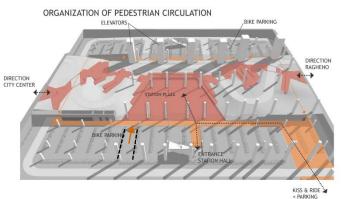
#### THE STATION AS A TRANSPARENT TRANSFERIUM WHERE CIRCULATION FLOWS BETWEEN PEDESTRIANS AND CYCLISTS ARE COORDINATED











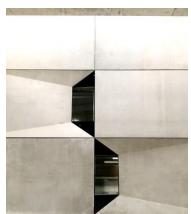




THE TRAIN STATION AS A DISTRIBUTION POINT FOR TRANSPORT MODI > THE INTEGRATION OF AN AUTOMOBILE 'TANGENT' AND AN UNDERGROUND PARKING (2,000 AUTO'S).













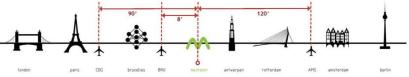






#### TRAFFIC-FREE STATION ENVIRONMENT

INTERCONNECTIVITY > TO MECHELEN CITY CENTRE, RAGHENO AND GULDENDAL DEVELOPMENTS AND BRUSSELS AIRPORT (IN ONLY 8 MINUTES).

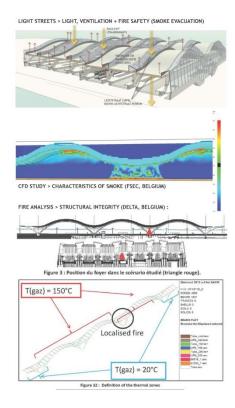


A CANOPY DESIGNED FOR COMFORT AND SAFETY



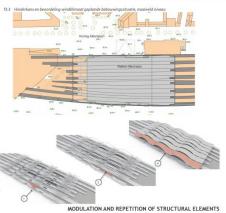


- UIC next station
- ETFE CUSIONS INSTEAD OF GLASS
- COMPOSITE STEEL AND WOOD CONSTRUCTION
- WIND TUNNEL ANALYSIS FOR WIND EFFECTS
- CFD STUDIES FOR FIRE SAFETY



WIND ANALYSE > PASSENGER COMFORT (PEUTZ, NETHERLANDS): > OPTIMAL AFTER 3 PHASES IN THE WINDTUNNEL (DESIGN, TEST + ADAPT)





# Thank you for your kind attention

