#### TransDev

sustainable transport for urban/regional development

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sustainable transport for urban/regional development

why is mobility an issue?

how does it relate to sustainability?

what is it urban/spatial planners can do?

how do these issues translate into urban design?

# Mobility

why has it become an issue?

- increasing wealth
- globalisation / European integration
  - emergence of urban networks



travelling has become an consumer good



travelling within Europe becomes normal, like distances in France

## Mobility



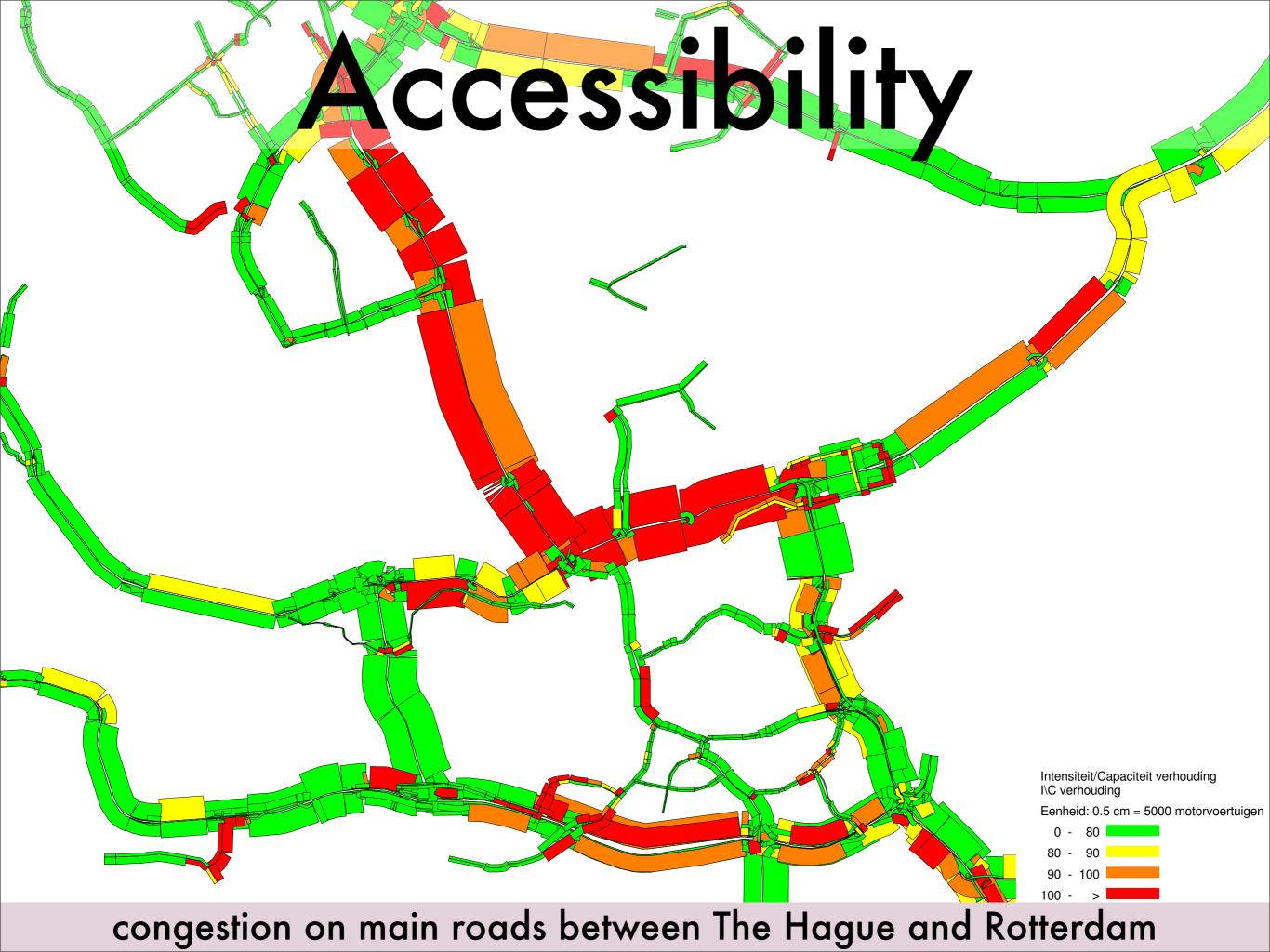
cities merge into urban networks by means of infrastructure

## Sustainability

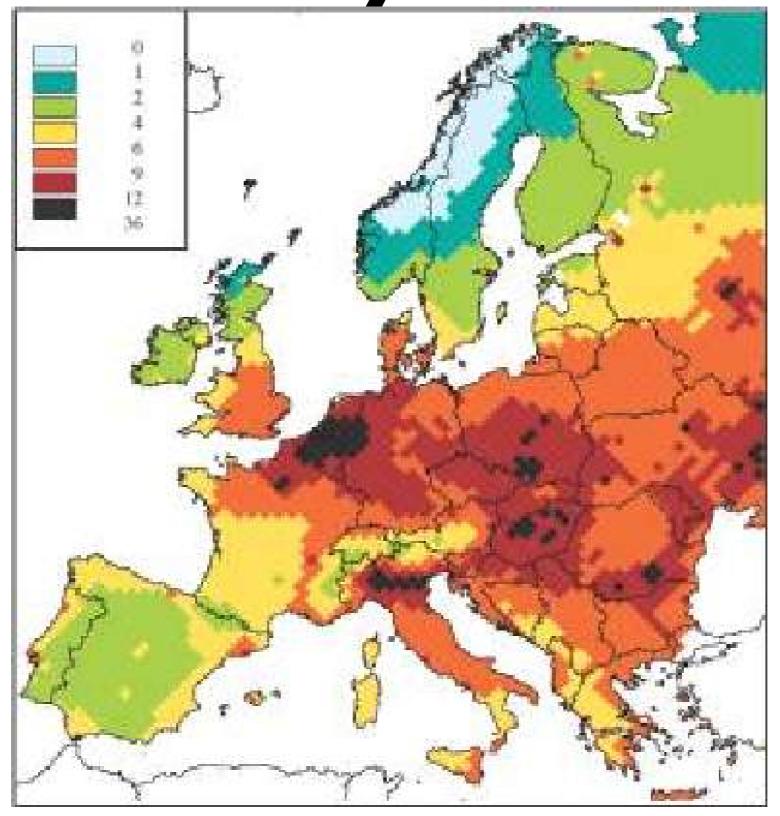
many definitions and opinions

main issues related to mobility in the Netherlands are:

- accessibility
- quality of life
  - safety
  - land-use



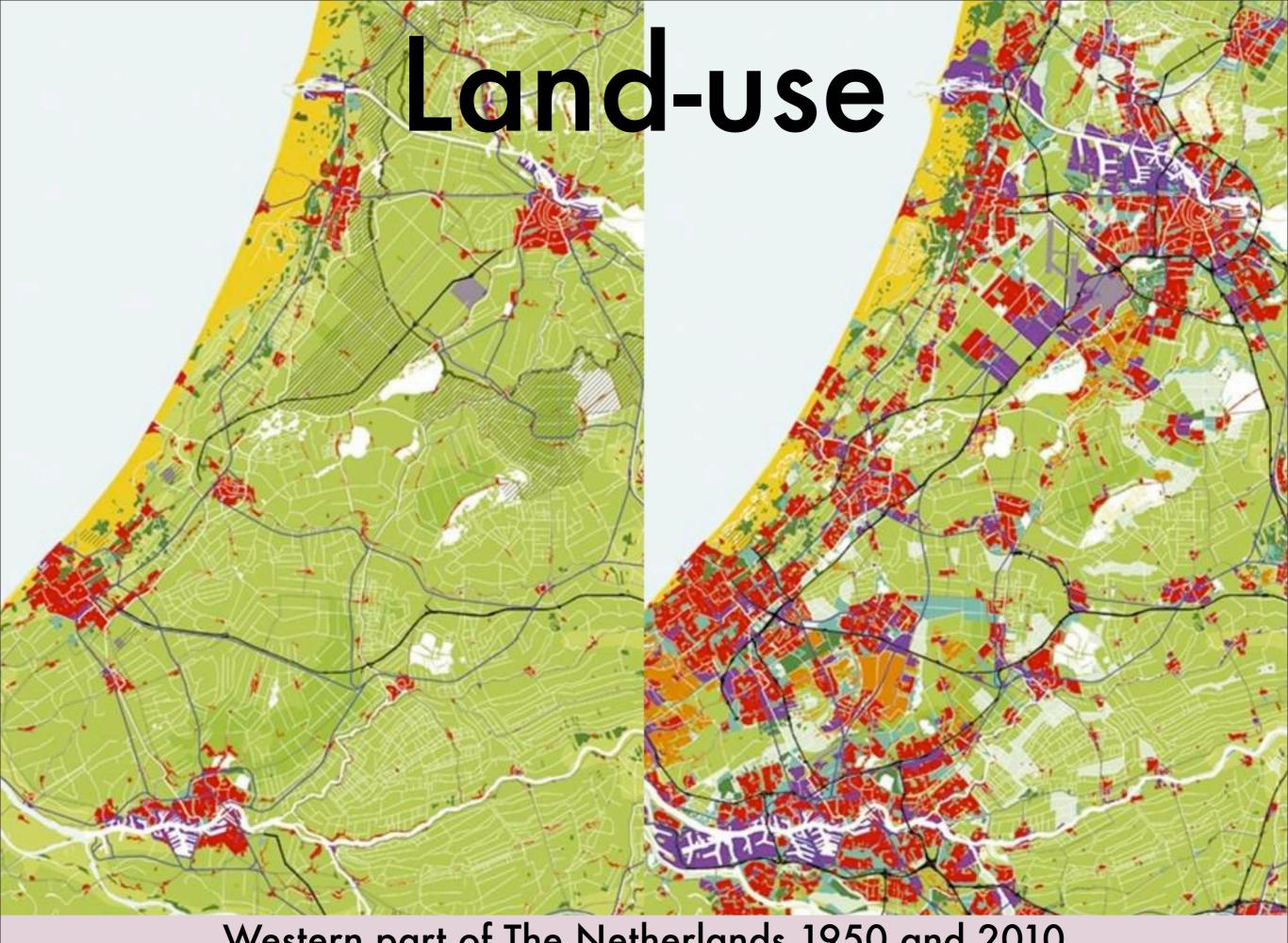
Quality of life



reduction life expectancy in months caused by particulate matter (2000)



traffic safety, external safety, tunnel safety



Western part of The Netherlands 1950 and 2010

#### Solutions

sustainable mobility for urban/spatial planners

reduce the impact on the urban living environment: noise barriers, tunneling etc.

take away the causes: introuction of sustainable modes of transportation

a different urban/spatial planning: development of networks, transit hubs, station areas



## Sustainable systems

transport of people

- car
- soft modes
  - transit





#### Transit

innovations in public (rail) transport systems

bus/tram

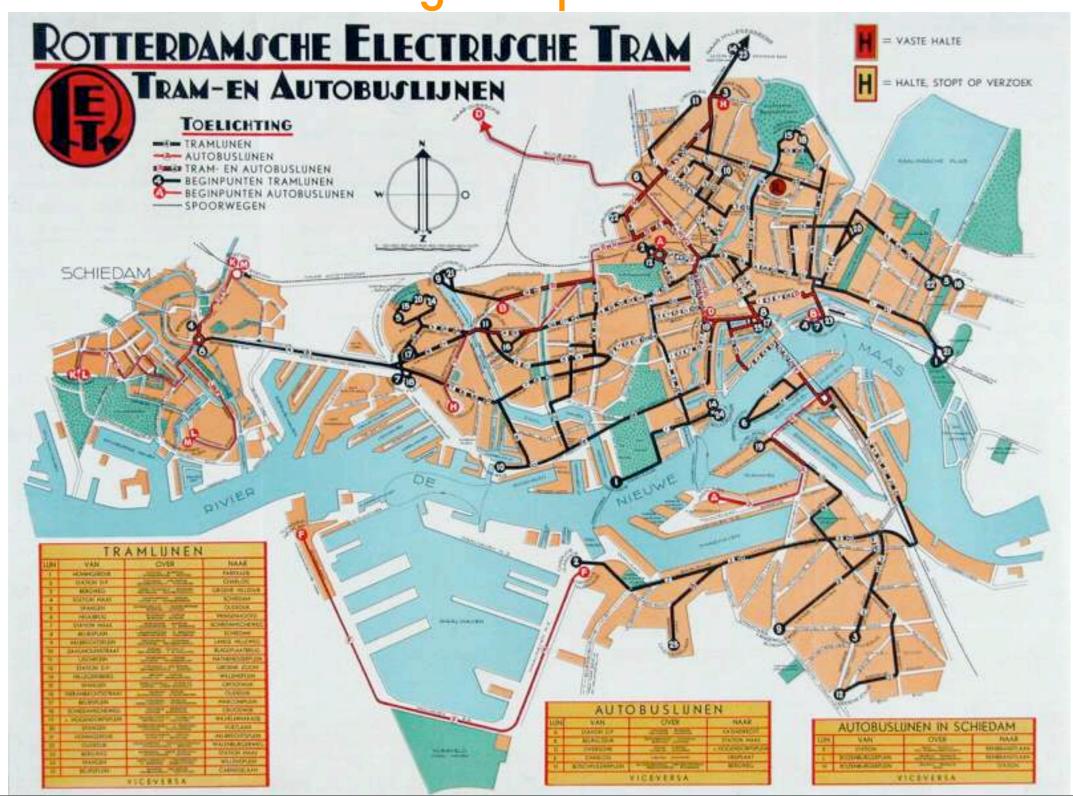
bus rapid transit

light rail/metro/TramTrain

**HST** 

## Bus/tram

stagnant product

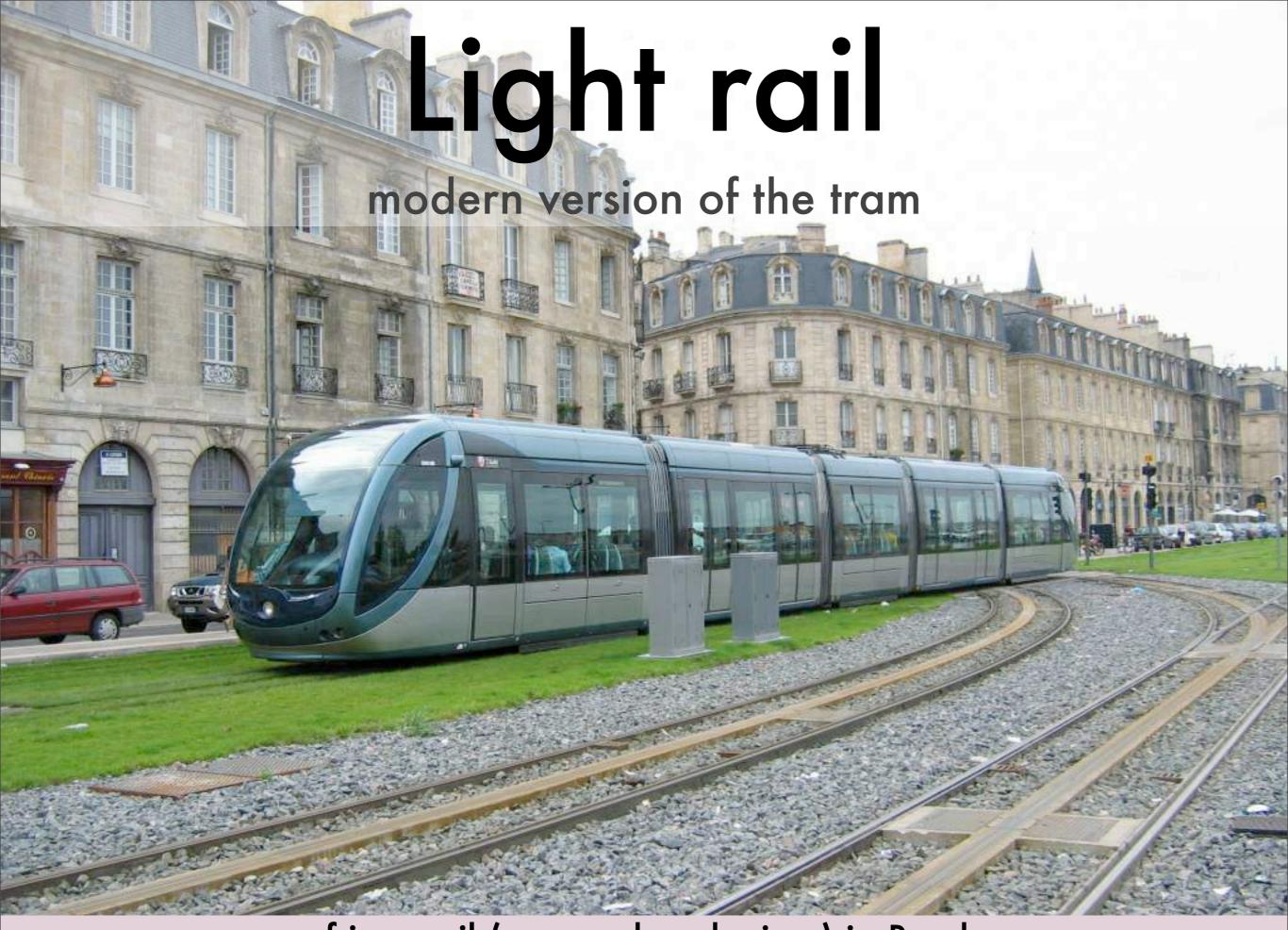


## Bus rapid transit

cost-efficient system based on modern automotive technology



Phileas in Eindhoven



use of innorail (no overhead wires) in Bordeaux



#### TramTrain

combining the best that tram and train can offer



RandstadRail in Den Haag and Rotterdam



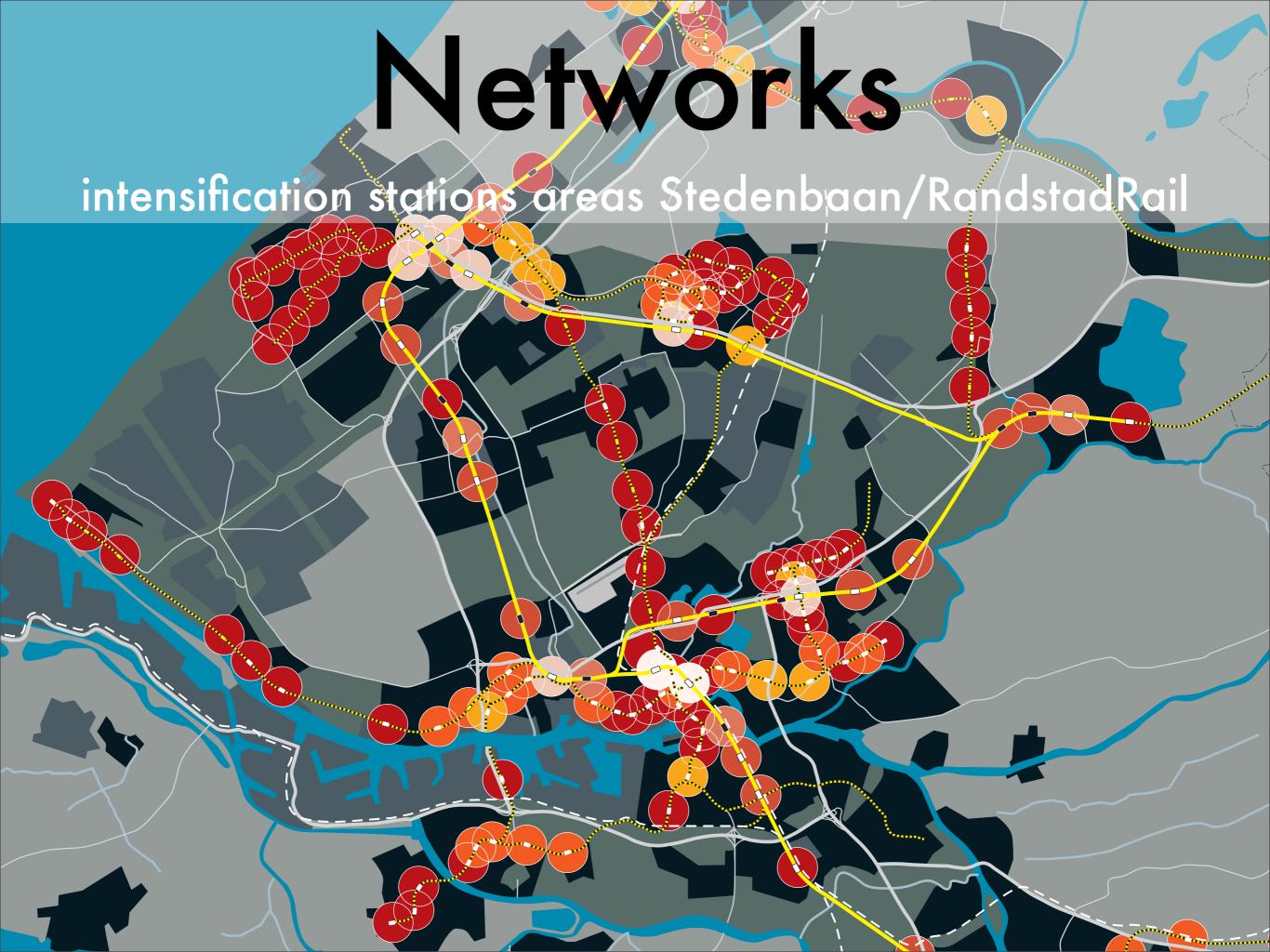
## Urban planning

transit-oriented development

```
network / intensification
```

transit-hub / city centres

station area / soft modes





Masterplan Den Haag Nieuw Centraal

#### Station area

public space for pedestrians and cyclists





**OMA Lab-Da** 



Maarten Struijs

## translation > design

design project

>Transbay redevelopment San Francisco

# cahighspeedrail.ca.gov

California USA



# high speed rail

connecting San Francisco and Los Angeles

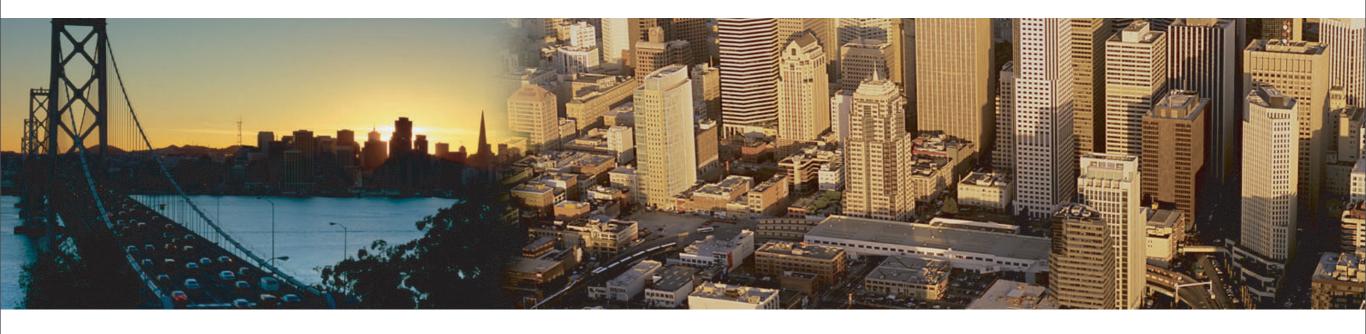






#### TRANSBAY REDEVELOPMENT PROJECT AREA DESIGN FOR DEVELOPMENT

San Francisco Redevelopment Agency & San Francisco Planning Department



October 2003



The Transbay Area, just south of Downtown San Francisco, is the first glimpse of the city for East Bay commuters and visitors arriving via the Bay Bridge.

**Goal I** Create a distinctly livable, economically-diverse, urban community connected to downtown and the waterfront with well-designed streets, open space and retail areas.

**Goal 2** Establish the area as both a gateway to the central city and a unique, transit-oriented neighborhood in San Francisco.

Goal 3 Create a pedestrian-oriented environment that encourages walking as a primary transportation mode within the Project Area, and where it is easy to meet people and to stroll safely, with leisure.

**Goal 4** Develop a new downtown neighborhood to help address the city and regional housing crisis, support regional transit use, and provide financial support to the new Transbay Terminal and the Caltrain Downtown Extension.

**Goal 5** Create a state-of-the-art, multi-modal facility that is an integral part of the surrounding commercial and residential neighborhood.

**GOALS OF REDEVELOPMENT** 

The following goals for the Transbay Redevelopment Plan were established in conjunction with the Transbay Citizens Advisory Committee (CAC) and members of the community, at-large. The goals set forth the stated objectives that will direct the revitalization of the community. The Design for Development will guide the direction of all future development within the Transbay Project Area.

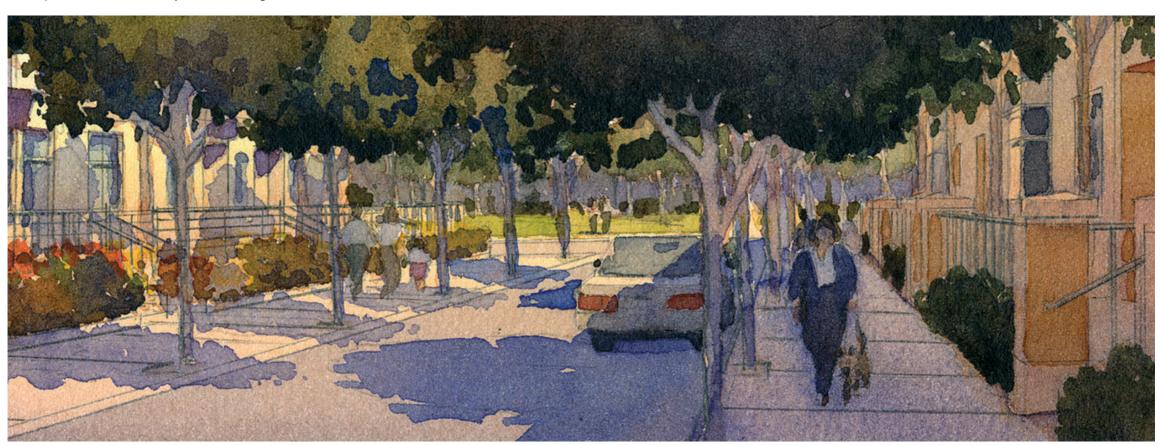
**Goal 6** Encourage the use of alternative modes of transportation by future area residents, workers, and visitors, while accommodating public transit and auto ease for local and regional access.

Goal 7 Enhance the linkages between the new Transbay Terminal and the Financial District by creating a community with ample open space, shopping, and service facilities to meet the needs of its members and visitors.

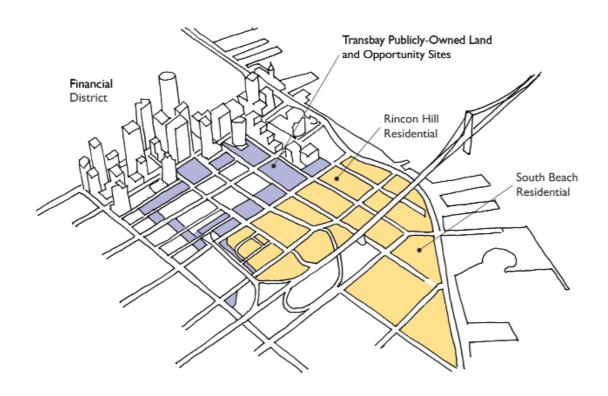




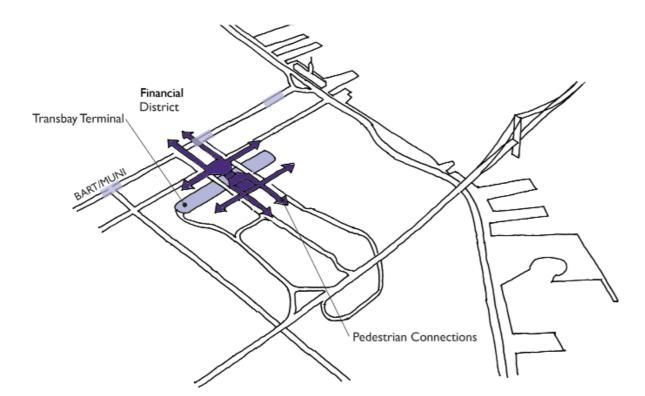
Townhouse units, each with individual entrances, will face the new Transbay Square on all sides. The adjacent retail mews will provide the neighborhood with much-needed services.



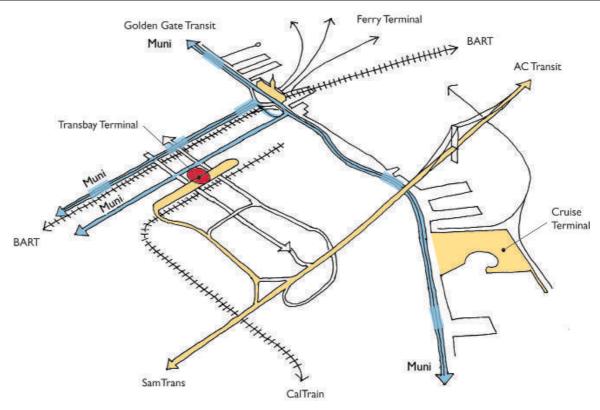
A network of low-traffic streets, lined with townhouses and mixed-use infill development, will improve pedestrian circulation by breaking up the large South of Market blocks.



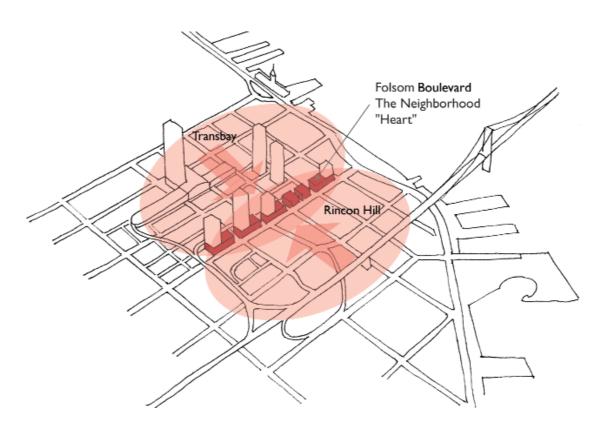
Framed by the Financial District and the Rincon Hill neighborhood, the Transbay area includes important public land that will be developed into a transit-oriented, mixed-use, commercial and residential neighborhood.



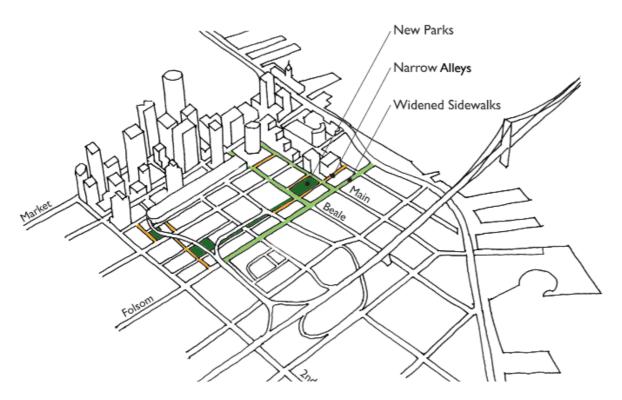
Enhanced pedestrian connections to and through the Transbay Terminal will facilitate access to transit and to surrounding neighborhoods and districts.



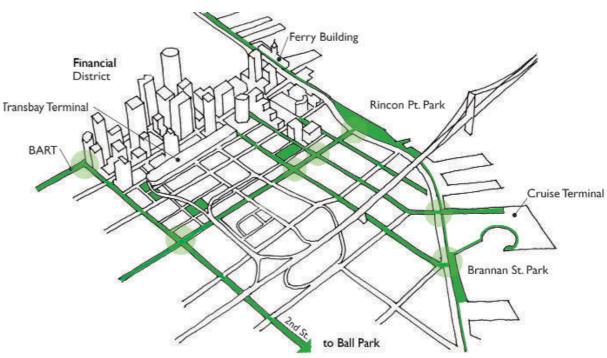
The new state-of-the-art, multi-modal Transbay Terminal will be the southern gateway to the Financial District, coalescing transit services from all points of the Bay Area in downtown San Francisco.



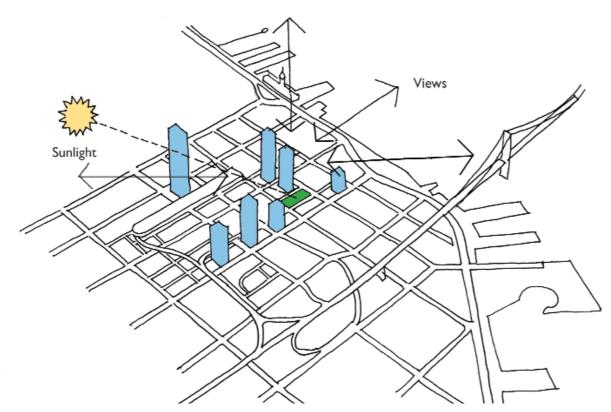
The "heart" of the neighborhood will be located on Folsom Street, where sidewalks will be widened, streetscape improvements will be added and convenience services and retail uses will be located.



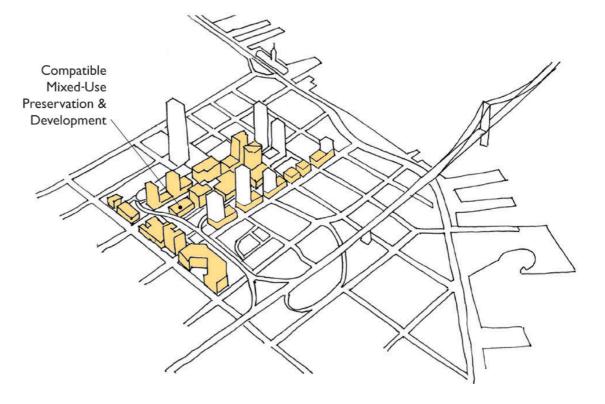
An active and attractive pedestrian environment will be created by expanding the existing public realm with new landscaped parks, pedestrian alleys, and widened sidewalks.



Improvements to the public realm of streets and alleys will create strong connections to the waterfront and other nearby San Francisco amenities.

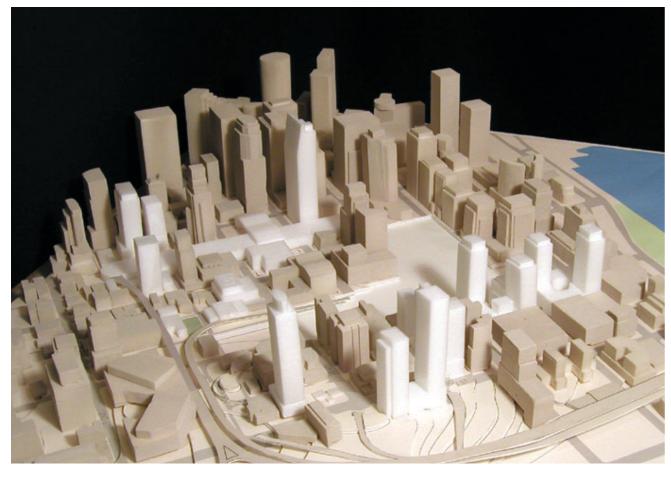


Public access to views and sunlight will be preserved throughout the area by locating and spacing towers in such a way as to minimize their impact on open space and view corridors, and by requiring appropriate slenderness in new buildings.



A sense of urbanity and a connection to the past will be achieved by retaining older buildings, wherever possible, in the area of Second Street and by requiring compatible infill development in their vicinity.





Existing and Pipeline Projects outside Study Area



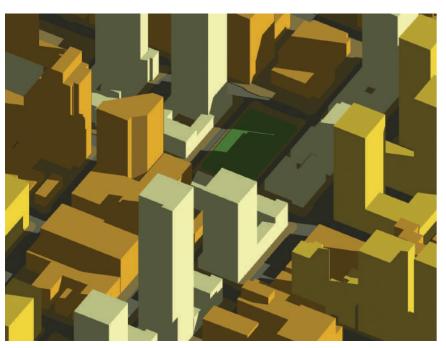
Concept Two



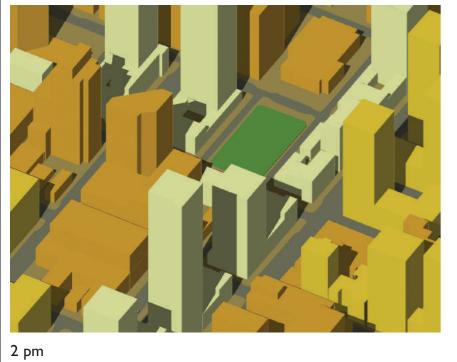
Concept One

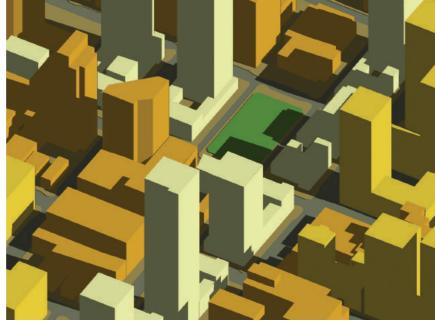


Concept Three

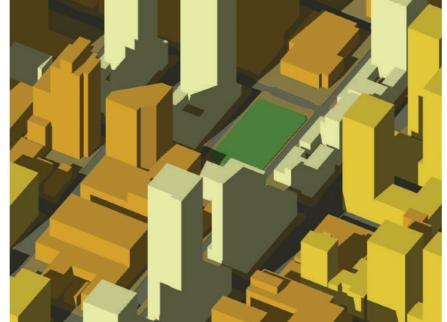




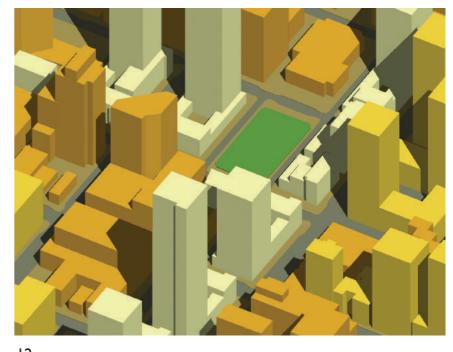




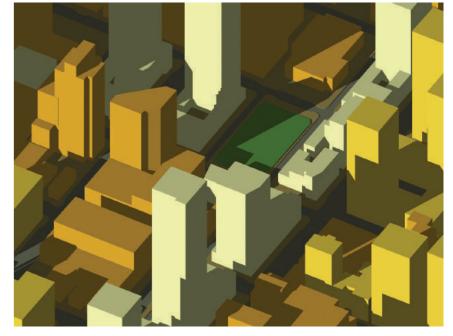
10 am







I2 pm



4 pm



