URBAN SOLUTIONS

HOW TO TRANSPORT SMARTER – WITHOUT COMPROMISING MOBILITY

CHRISTINA MOSE,
PROJECT SENIOR MANAGER,
TRANSPORT AND URBAN DEVELOPMENT

RAMBØLL

RAMBOLL IN BRIEF

- Independent engineering and design consultancy and provider of management consultancy
- Founded 1945 in Denmark
- 13,000 experts
- Over 300 offices in 35 countries
- Significant presence in the Nordics, the Americas, the UK, Continental Europe, Middle East, India, SE Asia, Australia, and Sub-Saharan Africa
- EUR 1.1 billion revenue
- Owned by Ramboll Foundation

- Services across the markets:
  - Buildings
  - Transport
  - Planning & Urban Design
  - Environment & Health
  - Water
  - Energy
  - Oil & Gas
  - Management Consulting

ENERGY AND TRANSPORT

1. Cities account for **three quarters of energy consumption and 80% of CO2 emissions worldwide**

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TECHNOLOGY

OUTLOOK

CO2 emissions from transport could increase 60 % by 2050 ww

Technology progress alone will not achieve a reduction of CO2 – Behaviour changing policies is required

MOBILITY – KEEP THE CITY MOVING

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MOBILITY AS A WHOLE - HOLISTIC THINKING – LIVEABILITY









Strategic Urban Governance

Architecture & Sustainable Design

Liveable Public Spaces

Mobility solutions

Energy Strategy

Urban Water Manage-ment

Blue/green/ black infrastruc-ture design

Biodiversity in cities

Urban environmen-tal quality

Waste manage-ment

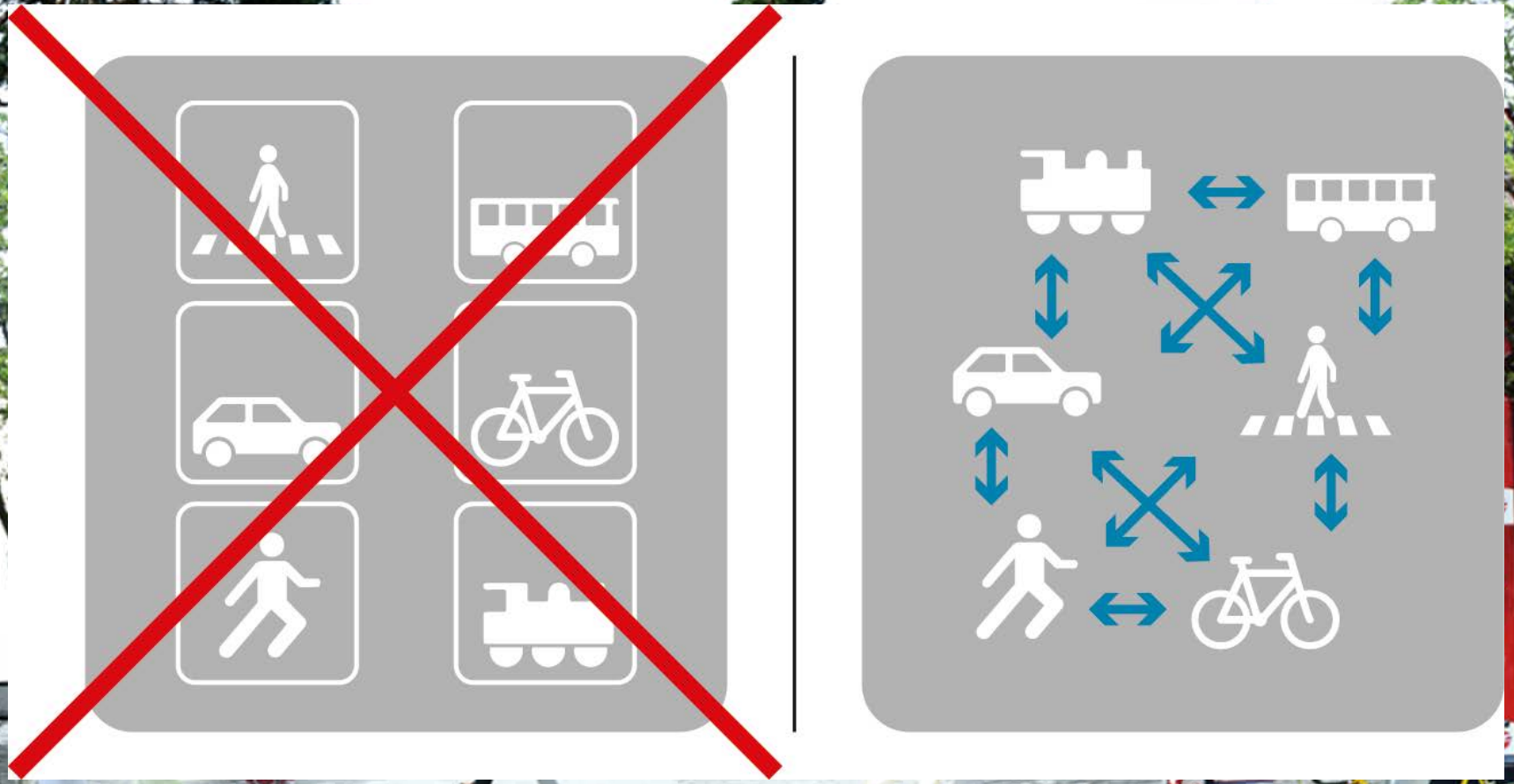
Holistic City planning

Health, Sustainability and Liveability appraisals, Strategic Environmental Assessments

Smart city concepts and technologies


DYNAMIC AND POWER FULL
BUSINESS AREA ?
ATTRACTIVE
SETTLEMENTS ?
MOBILITY
WHAT DO WE
WHAT WITH
OUR CITIES?
ACTIVE
WELFARE SOCIETY ?
POPULAR
CITY CENTRE ?

MOBILITY...



Traditional thinking – each mode of transport = one unit

Mobility - all modes of transport = a holistic

SMART, SUSTAINABLE AND LIVEABLE

Best practice to future practice

- Best practice today is sustainability
- Not content with best practice
- Best practice is retrospective
- Cities last for the next 100s of years
- Future practice is liveability

Liveability is the ever moving objective

- Prime **enablers** are:
  - Sustainability
  - Smart city
  - Mobility
  - Viability
- **Planning means** are resiliency, coherency and flexibility

SUSTAINABLE TRANSPORT IN A SMART LIVEABLE CITY

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NORDHAVN – A NEW PART OF COPENHAGEN, DENMARK

Sustainable and smart

- 40.000 inhabitants
- 40.000 workplaces
- CO2 neutral
- Smart city solutions
- Sea wheat for bioethanol and biogas
- District heating and cooling
- Large energy store
- Intelligent waste handling
- Public transport prioritization
- Parking strategy
- Super bicycle paths
- Solar systems

LIVEABILITY AND SMART PLANNING
IMPROVE MOBILITY - REDUCE TRAFFIC

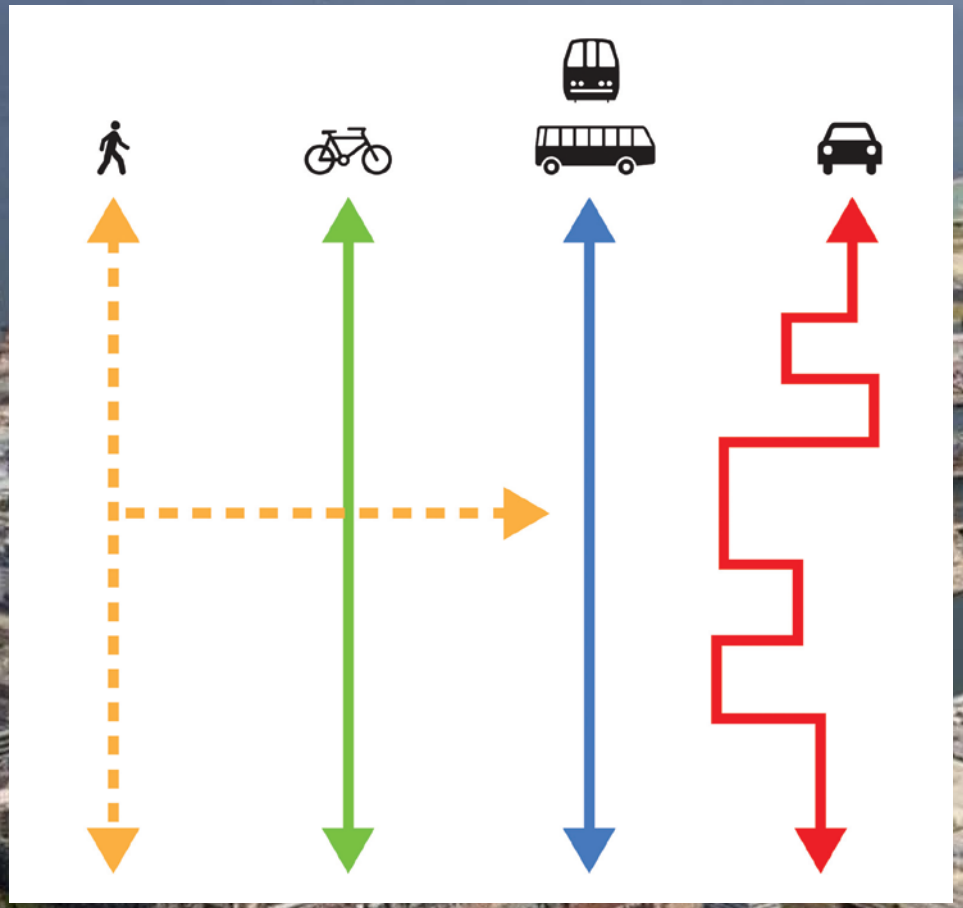
Definition of 5 minute city

- The five minute city makes it possible to reach basic shops, institutions, work places and cultural facilities within 5 minutes walk
- Or within 5 minutes walk to a public transport mode leading to the destination

Why?

- To create urban life
- Social interconnectedness
- Networking
- Sustainable behaviour and transportation

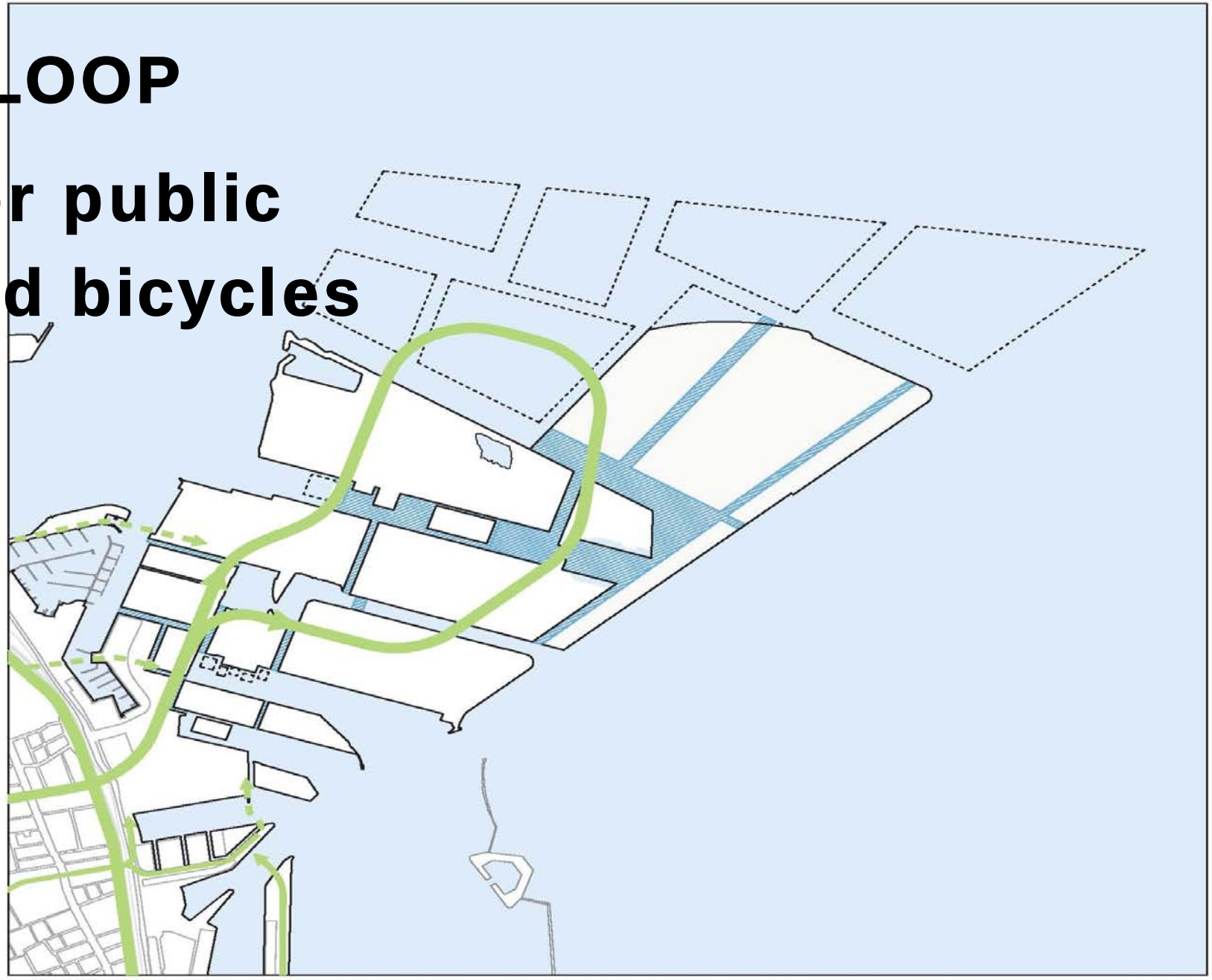
SMART MOBILITY
FIVE MINUTE CITY



- High quality public transport is one of the defining elements
- Direct and high class bicycle routes – super cycle paths
- Crooked car routes
- Location strategy for buildings for public use – institutions, shops, culture etc.

THE GREEN LOOP

A corridor for public transport and bicycles



LOOP – OUTER STRETCH IN GREEN SURROUNDINGS

HVALA

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