Intro

Erik Hoorweg

Vice President, Head Public Sector
Capgemini Invent

Als verantwoordelijke voor de Publieke Sector zoekt Erik naar de verbinding tussen maatschappelijke vraagstukken en de waarde die nieuwe technologieën daarin kunnen betekenen.

Edwin Heesakkers

Managing Director, EIT Urban Mobility Innovation Hub West BV

Hans Teuben

Director Strategy en Innovation
Capgemini Invent

Hans adviseert samenwerkende overheden in Nederland en de EU op het gebied van smart cities en smart mobility. Ook leidt hij de smart city en smart mobility practice in Nederland.

Agenda

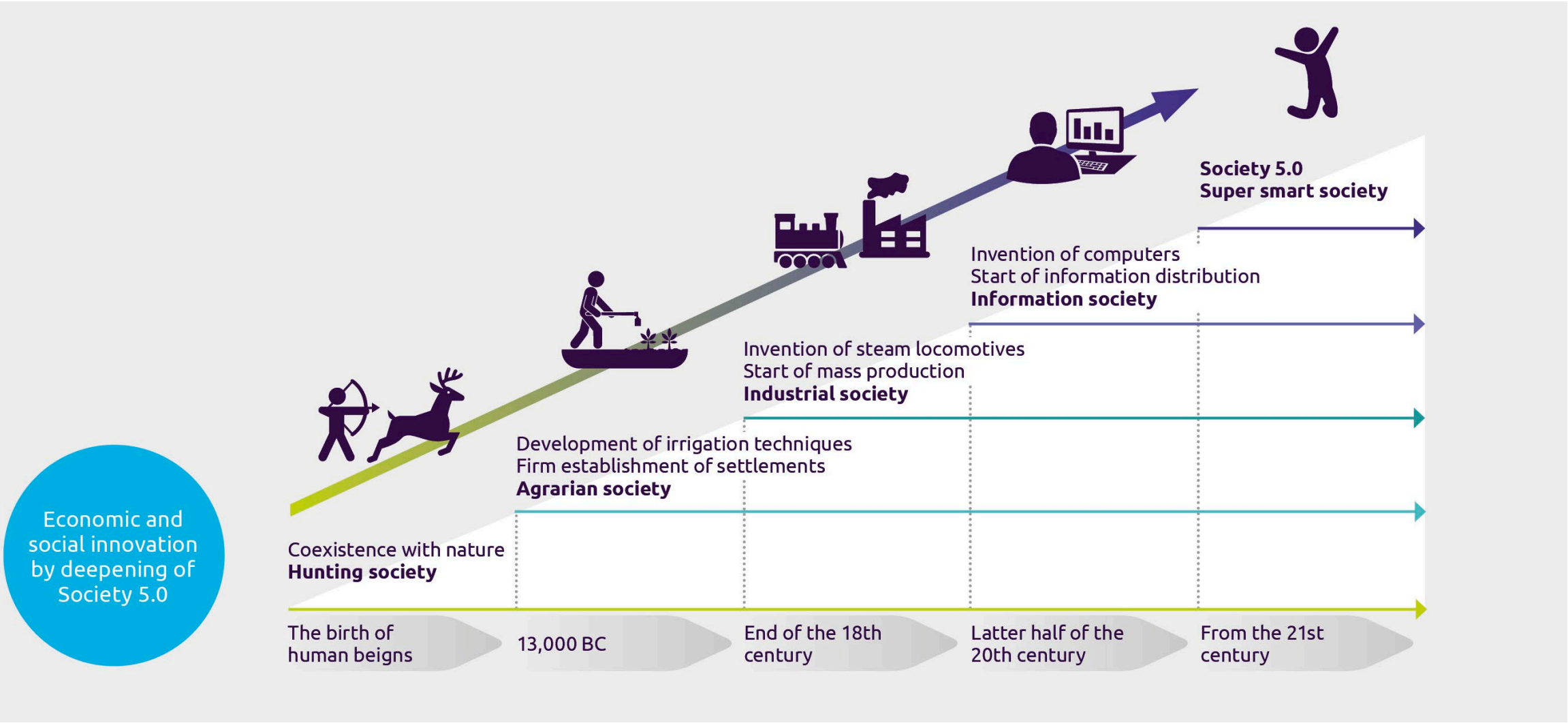
Society 5.0

EIT & technologie

Ecosyteem van Smart Cities & Mobiliteit

Society 5.0

Naar de Superslimme Samenleving



European Institute of Innovation & Technology

Solving the mobility challenges facing our cities together

Today’s model for urban mobility is not sustainable and requires immediate change

23%

of Europe's GHG emissions are produced by transport

50%

of public space is taken up by roads

67%

of road accidents happen in cities

1 year

of our lives are spent commuting

€130 bn

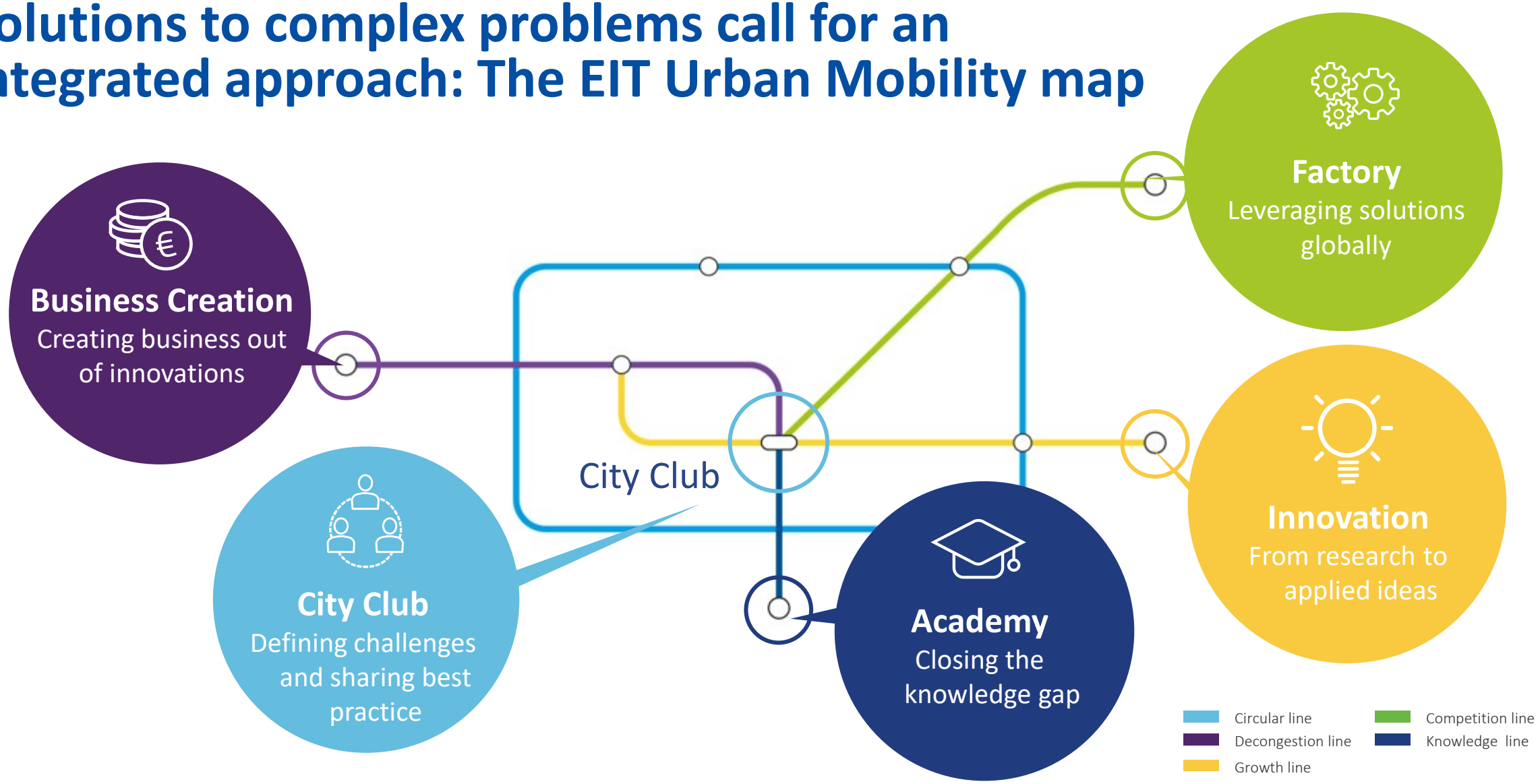
per year lost due to congestion

GHG: Green House Gas - ‘broeikasgas’

Cities today…

Cities tomorrow…

Solutions to complex problems call for an integrated approach: The EIT Urban Mobility map



eit Urban Mobility

The EIT Urban Mobility projects - 2020

Innovation Project

SHAREd MObility REwards

Increases carsharing efficient use by incentives while contributing to the integration with the existing overall transportation system and its sustainability

pro maas

Policies and Regulations required for enabling the MaaS concept

Policies and Regulations required for enabling the MaaS concept

Novel regulatory approaches and governance schemes supporting policy makers in Europe lead a successful transition towards Mobility as a Service.

Innovation Project

Off-Street parking floating CARsharing service

We define, pilot and evaluate an innovative and sustainable carsharing service for dense cities without using public space

AI-TraWell

AI-TraWell

AI-powered, proactive Travel assistant to self-monitor user's experience & craft personalised travel solutions for promoting well being – AI-TraWell

UrbanSmartPark

UrbanSmartPark

UrbanSmartPark focusses on the development of automated on-street inner-city parking providing a broad range of possible parking-related services

UMOS

UMOS: Urban Mobility Operating System

Developing a service platform that lifts the barriers between different mobility solutions and ecosystems

Innovation Project

Mapping Urban Transportation Innovation Ecosystems

Creating a strategic infrastructure for urban policy management in the field of urban mobility

Innovation Project

Smart mObility hUb pLatform

A new efficient and reliable DSS tool to foster data exploitation so as to enable future urban mobility systems to be more collaborative, user centred

smuo.

Shared Micro depots for Urban pickup and Delivery

Provides a publicly acceptable solution and raise awareness for Shared Micro depots for Urban pickup and Delivery for the benefit of urban residents

MOBY

MOBY:Living lab e-micromobility

MOBY focuses on the impacts of e-micromobility on cities, traffic, safety and public spaces by integrating knowledge from the pilot cities

Read more

Innovation Project

MaaS components assessment and system planning for cooperative value creation

Increases the efficiency and quality of MaaS through a clear definition of MaaS components and their dependencies

CLEAR: City LivEAbility by Redesign

Launch real-life transition experiments in urban streets by means of small, tangible interventions, in combination with alternative mobility concepts

Read more

cityflows europe

CityFLOWS

CityFlows: Decision-support system for pro-active crowd management in crowded urban spaces

Read more

CALL4SMS

Smart Mobility Solutions

Citizen Aimed Living Lab for Smart Mobility Solutions

Supporting the city eco-system transformation towards the next economy by the deployment of a platform-based financial model within the cities

Innovation Project

Bike-Longer

Modelling bicycle user behavior and preferences with focus on e-bikes and long distance bicycle trips.

Read more

zeus

Zero Emission off-peak Urban DeliverieS - ZEUS

Concept for silent and emission free city deliveries providing a more liveable, cleaner and safer urban environment.

Read more

Smart trash detection and damage prevention for shared mobility

Improves the cleanliness in shared vehicles, trains, and trams. The project will demonstrate a machine-vision based trash detection system, odour detection system as well as develop materials more suitable for shared vehicle applications

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Background of the project

- Cities in Europe and worldwide are getting increasingly busy:
  - ✓ 70% of people lives in urban regions by 2050 [UN]
  - ✓ 6% growth of international tourist arrivals in Europe in 2018
- Cities need to manage mixture of citizens, tourists and event visitors
- New sensing technologies are promising, in particular when combining multiple sensors → Delft University of Technology Crowd Monitoring Dashboard

Objective

To improve the liveability of crowded pedestrian spaces in European cities through the provision of decision-support for the management of pedestrian flows in the context of tourism, transfer hubs and mass events.

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Involved European living labs

Milan

Milano Centrale

Barcelona

Sagrada Familia

Amsterdam

ArenA – EURO ~~2020~~ 2021

Amsterdam

~~Sail 2020~~ COVID-19

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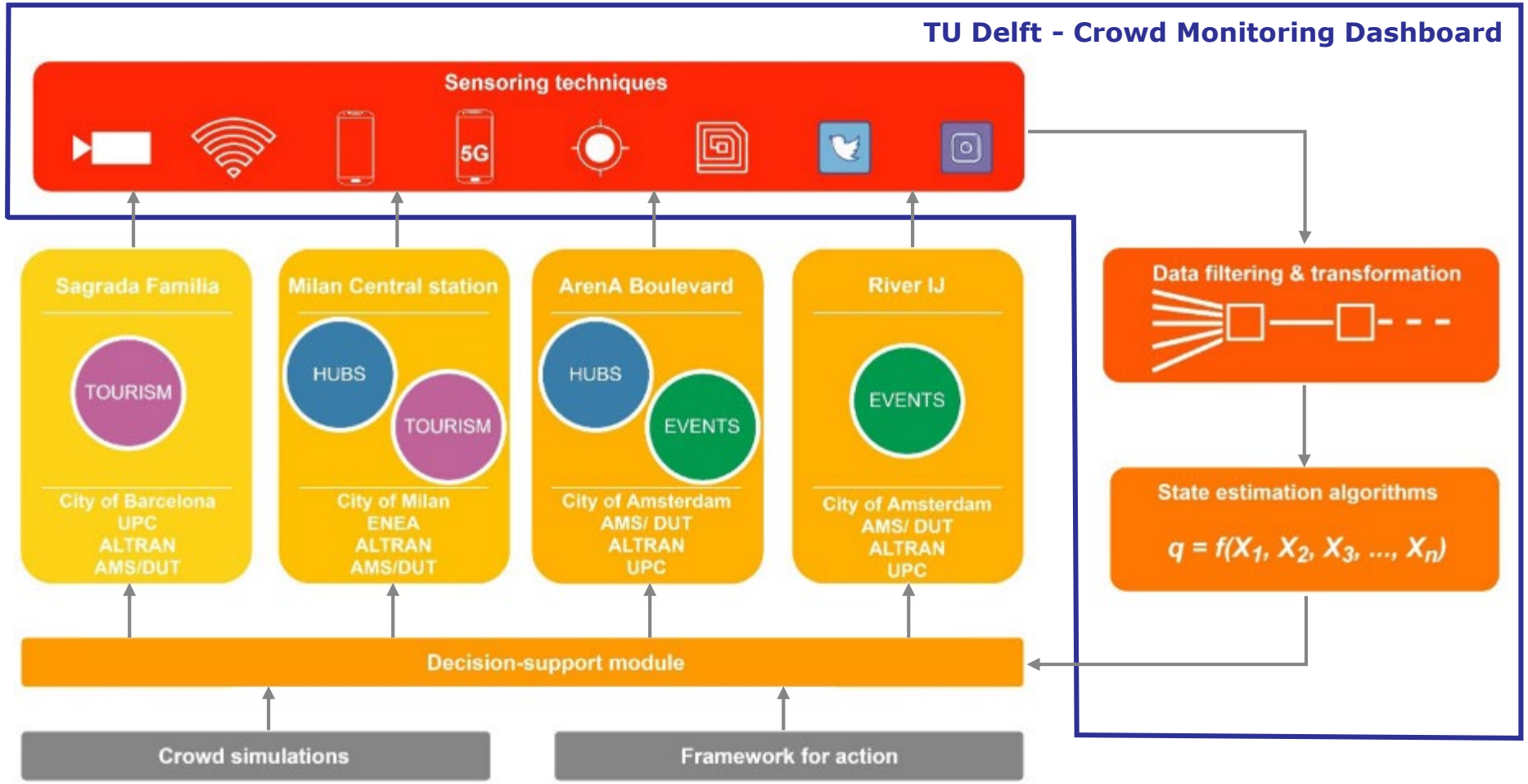
Project framework



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CityFlows outputs

1

SaaS service: customizable, flexible plug-and-play CityFlows Decision Support System

2

An associated scenario-based framework of action for crowd management

3

A start-up that will bring CityFlows Decision Support System to market

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ALTRAN

AMS Amsterdam Institute for Advanced Metropolitan Solutions

TU Delft Delft University of Technology

ENEA

Gemeente Amsterdam

Ajuntament de Barcelona

Milano Comune di Milano

UPC

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Ecosysteem van Smart Cities & Mobiliteit

OnDijon

https://www.youtube.com/watch?v=KVy4-fs6oKI

The Urban Mobility Operating System

Vision

UMOS is envisioned as a universal open service platform for optimized, customized and seamless mobility for the traveler.

UMOS Platform

UMOS aims to achieve its vision through a service platform accessible to travellers via an application (mobile/web) and to other systems.

UMOS is Not-for-Profit

Parallel to the case for the mobility service providers, MaaS providers are scattered, often aiming to address the needs of local or regional travelers, leading to a more fragmented ecosystem.

UMOS Operating Modes

UMOS will operate in 3 concurrent modes, Mode A, Mode B, Mode C.

UMOS & Mobility Providers

Offering different operating modes aims to address distinct concerns of mobility service providers.

UMOS & Governmental Bodies

UMOS will also cooperate strongly with governmental bodies to help them implement certain mobility policies in their area of control.

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UMOS

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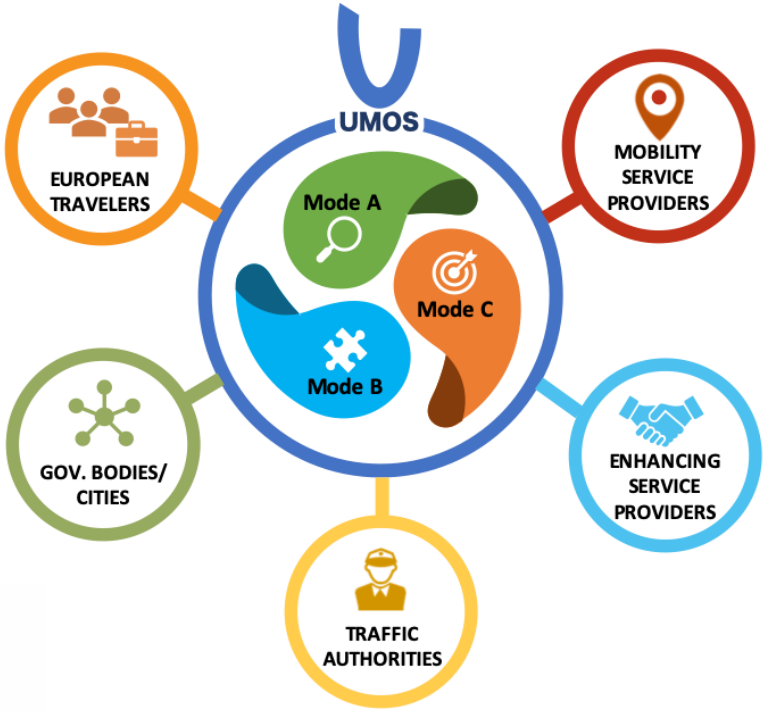
www.umos-alliance.eu



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TU/e EINDHOVEN UNIVERSITY OF TECHNOLOGY

achmea

UCL Institute of Education

EINDHOVEN

eit Urban Mobility

UMOS

Modal shift:wat heeft echt impact op ander reisgedrag?

Technologie — **Data** — **Gedrag**

- Regulering en meer speelruimte voor steden / regio’s
- Alternatief aanbod en ruimtelijke voorzieningen
- Andere routines inbouwen onderweg
- Dynamisch beprijzen
- Benutten van life events en werkgevers

Bewoner:
bereikbaar
leefbaar
inclusief
schoon & veilig

Stad:
effectief
beheersbaar
schaalbaar
future proof

Bedrijfsleven
nieuwe business
participatie

kennisinstellingen
research data
innovatie