

# SMART cycling to meet the Green Deal target



Cycling Industries Europe





#### Moderator



Kevin Mayne CEO, Cycling Industries Europe

#### **Speakers**



Irene McAleese Co-founder & Chief Strategy Officer, See.Sense



**Victoire Champenois** Policy Officer, European Commission



Syb Tjepkema Senior Policy Advisor Mobility, City of Zwolle



Cycling Industries Europe









Zwolle



EUROPEAN UNION

# Zwolle world cycling city

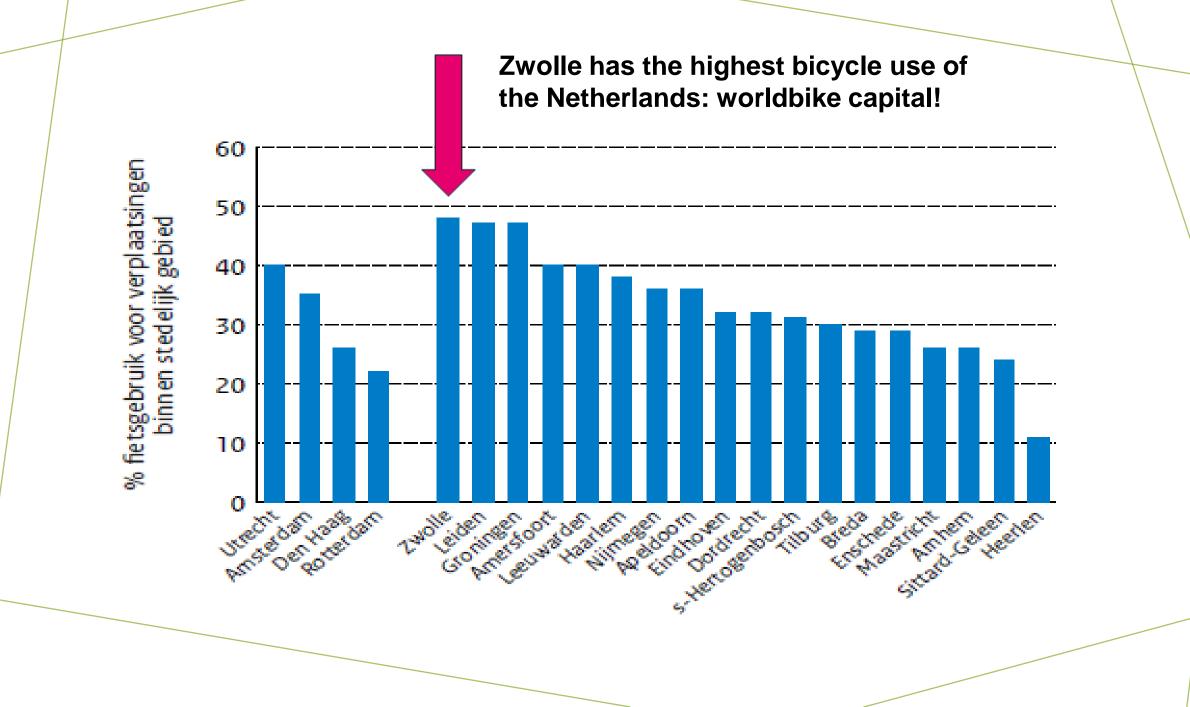




# Zwolle ideal city for cycling









## Successful cycling policy

## Bike innovation

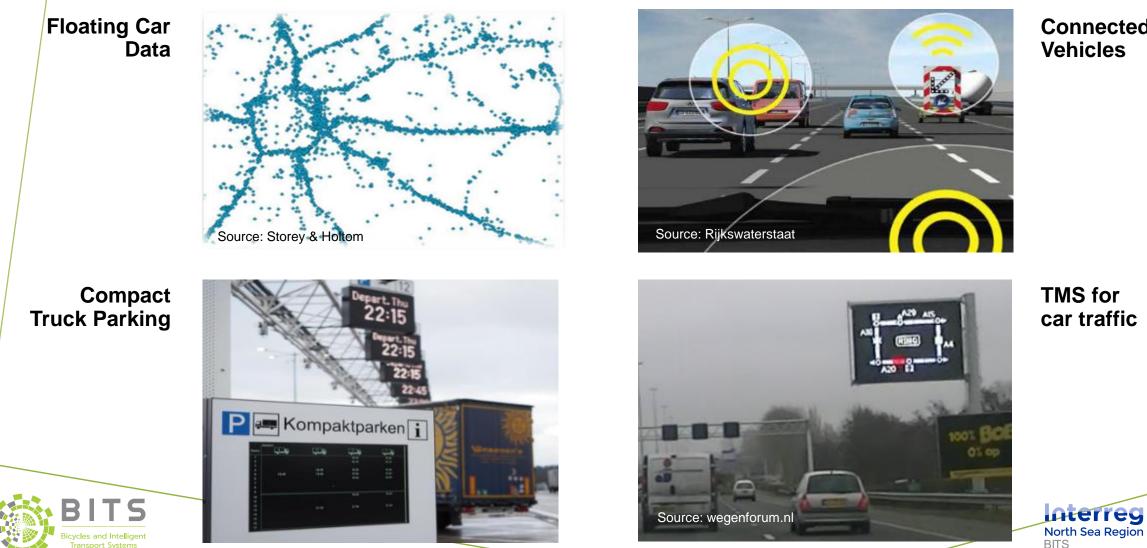








## If you think about ITS..... It probably is about cars



Connected Vehicles

TMS for car traffic

European Regional Development Fund EUROPEAN UNION

### If we think about its...it is about bicycles!

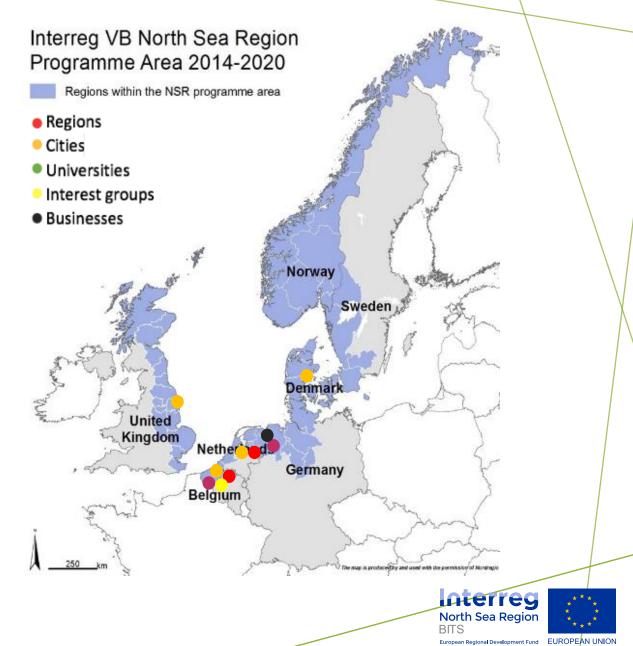


European Regional Development Fund EUROPEAN UNION

### **BITS – Bicycles and ITS**

- Project within Interreg NSR
- Investing €4,9 mln. in cycling ITS and data (co-funded by EU)
- Partners:
  - NL: Province of Overijssel (lead), City of Zwolle
  - BE: Province of Antwerp, City of Bruges, VIVES, CIE
  - DE: Baron Mobility, University of Oldenburg
  - DK: City of Aarhus
  - UK: East Riding Council of Yorkshire

#### Jan 2019 – March 2022



### **BITS: Objectives**

- Make cycling more attractive with ITS (Intelligent Transport Systems) by:
- 1. Know how: State of the Art directory

2. **Data:** Create a CycleDataHub: Collect and use cycling data

- 3. Inspiration and cooperation: Implement pilots
- Combine these topics in a long term EU Roadmap voor cycling ITS







#### Infra-based ITS



Smart signage & lighting

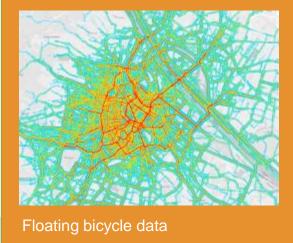


Traffic light with rain sensor (source: RTV Rijnmond)

#### Bicycle data collection



Bicycle counters



#### Info provision to cyclists





Bike parking & bike sharing info



#### Interactive systems



Ping

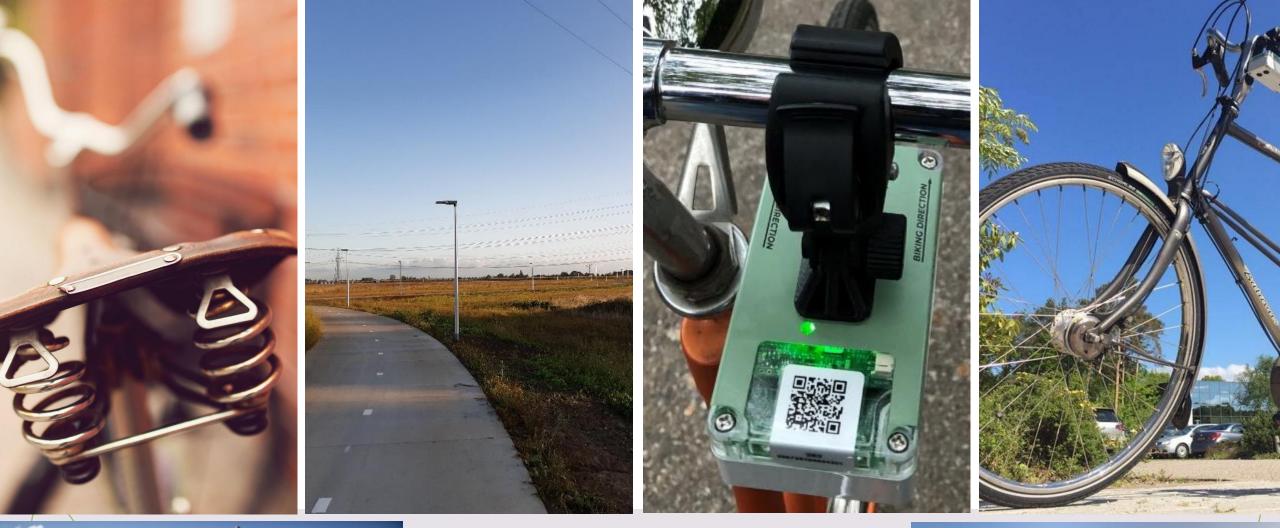


Gamification



### **BITS** distinguishes 4 categories of ITS





### Zwolle: ITS and data



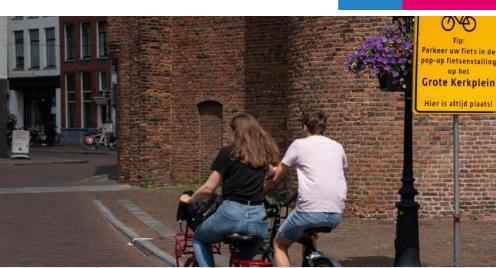


₩ gastvrij

Met afstand **de meest gastvrije** 

Kijk op **zwolle.nl/alleensamen** 

Zwolle





The importance of data during covid-19





Zwolle



EUROPEAN UNION

# Zwolle world cycling city

Thank you for your time



#### Moderator



Kevin Mayne CEO, Cycling Industries Europe

#### **Speakers**



Irene McAleese Co-founder & Chief Strategy Officer, See.Sense



**Victoire Champenois** Policy Officer, European Commission



Syb Tjepkema Senior Policy Advisor Mobility, City of Zwolle



Cycling Industries Europe





## Reaction on BITS project



• Legal framework – ITS not only about road but also multimodality !

 Intelligent Transport Systems Directive (2010/40/EU) and Delegated Regulation on Multimodal Travel Information Services (2017/1926/EU)



establishment of <u>National Access Points</u> (NAPs)

 Upcoming: Common European Mobility Data Space + CEF PSA Coordination mechanism for federate NAPs + revision of the ITS Directive



- Financial opportunities on top of existing instruments, the Recovery and Resiliency Facility (RRF)
  - 672.5 billion euros: 37% to be directed to climate related expenditures and 20% to digital
  - MS to draw up plans, put to the Commission and final approval by Council



## **SEE.SENSE**<sup>®</sup> CYCLING TECHNOLOGY & DATA

#### **GREAT B2C & B2B PRODUCTS**





Consumer products & app

Mobility fleet integration

Near Real Time data for ITS Bike to Infra communication
Sensor data for infrastructure planning
Citizen engagement & reporting

#### **PROVIDING ACTIONABLE INSIGHTS FOR CITIES**



#### Data dashboard

\_ Road Safety - swerving, braking & collisions

- \_ Network Planning route, speed & dwell times
- \_ Asset Mgmt road surface condition

### THANK YOU FOR YOUR ATTENTION!

For any queries please contact CIE at info@cyclingindustries.com

