



## HOW AI WILL MAKE PUBLIC TRANSPORT BETTER

Transport more people for less money with reduced carbon footprint

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#### Wholam



## Johan C. Haveland

#### CEO & Founder of Asistobe



- 15 years in Public Transport
- Project Manager Real Time Information System
- Project Manager Opening 3rd Extension of Bergen Light Rail
- Director of Passenger Transportation

## Bergen Light Rail Success Case:

#### Public Transport Network Planning & Extensions

Operationally, Asistobe will be able to give the PTA and PTO an early indication of when infrastructure or fleets will be insufficient to meet the real transport demand.

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**Network Concept** 

#### bybanen

10.0.8

**Real Transport Demand** 



Mainspring 2022 Global Light Rail Awards Winner in category: Vision Of The Year

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#### Planning Tool

Strategic network planning tool for optimizing costs and revenue.



#### **Big Data** Software as a Service Analyzes and structures big data.



#### Artificial Intelligence

Asistobe Artificial Intelligence (AI) and Machine Learning (ML) Algorithms. Asistobe is an innovative Transit Tech company founded in 2020, with global offices in Bergen, Norway and Lisbon, Portugal.

Our cloud-based SaaS platform gives planners and operators the ability to explore, predict, optimize and plan their entire public transport networks.

# 10 - 25%

#### **Cost savings**

By combining multimodal data insights, Al and machine learning with transport planning expertise, Asistobe has been able generate significant operational (OPEX) cost savings and carbon footprint.



# HOW WILL A MAKE A PUBLIC TRANSPORT BETTER?

**EXPLORE** 

**PROGNOSIS** 

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**OPTIMIZE & PLAN** 

## **EXPLORE**

Deep understanding of historical/ current multimodal mobility



## **PROGNOSIS**

AI/ML algorithms to predict 365/24/7 trends including special events



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OPTIMIZE & PLAN

Transform transport demand to optimal public transport network



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# DEMOCRATIZE **Empower planners to** understand data and enable them to make AIassisted decisions

#### **EXPLORE**

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#### Issue Scanner



#### Corridor Scanner



#### PROGNOSIS

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#### **OPTIMIZE & PLAN**

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	Passenger Count	65 231	74 129	70 123	66 867	64 345	45 200	39 754	425 649	
AC IC	Occupacy (avg   max)	34%   69%	34%   <b>65%</b>	34%   <b>65%</b>	34%   69%	34%   69%	34%   69%	34%   69%	39%   <b>73%</b>	
A3 13	KM run	3230 km	3230 km	3230 km	3230 km	3230 km	3230 km	2530 km	21 210 km	
TO BE	Occupacy (avg   max)	36%   75%	36%   75%	36%   75%	36%   75%	36%   75%	36%   75%	26%   75%	40%   75%	
	KM run	3030 km	2930 km	2930 km	2830 km	2830 km	2230 km	2131 km	19 110 km	
	Cost Savings (NOK)	32 700	32 700	32 700	32 700	32 700	32 700	32 700	228 900	

**Unlocking Mobile Network Data to** understand how people actually move



## Combining Multiple Data Sources

By combining internal customer data sources with Mobile Network Data and other demographic data, Asistobe provides powerful insights for planners and operators to better understand the real transport demand and the entire multimodal journey.

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# We now have a better understanding

## of the Real Transport Remand



## Projects in Norway

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Predictive Transport Model for Bergen.

 Vestland fylkeskommune
 BERGEN KOMMUNE
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Predict a better transport system in Drammen when relocating the hospital.





## Predictive transport planning:

**EXPLORE** mobility

Multimodal **PROGNOSIS** 

OPTIMIZE Public transport & infrastructure Aligning public transport plans with future transport demand

Asistobe in partnership with the Planning and Building Administration in Bergen City + Department of Mobility and Public Transport in Vestland Region:

- $\rightarrow$  Plan to optimize the public transport network for overall travel patterns.
- → Combine internal customer data sources with Mobile Network Data by Telia and other demographic data.
- → Provide powerful insights into the entire multimodal journey.
- → Economic and environmental effects of various infrastructure measures







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## Telia Data: Drammen Case

- → In 2025 Drammen Hospital is being relocated together with Blakstad Hospital to Brakerøya i Drammen.
- → A business park is constructed in connection to the hospital
- → The old hospital area is to be converted into housing and service industry
- → What are the effects of this change on the mobility in Drammen



## Drammen Development Plan

#### EXPLORE

Detailed historical Transport to/from the Hospital

- → Mode of transport
- → Demography
- → Starting/ending hour
- → Peak hours
- → Purpose of visit (Employees, patients, visitors)

#### **OPTMIZE&PLAN**

New transport pattern for relocation

Compare current Brakar plan 2025 to transport demand

#### Flow to current hospital and areas



#### Mobility in corridors towards Drammen



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Optimize Your entire Public Transport Network using Al and ML Unlocking Mobile Network Data to understand how people actually move

# Ready to get started?



# Ready to get started?

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