## Light Rail Case Study Odense





## Odense builds a modern tram network

Odense is the third largest city in Denmark, with a population of ~182K, which is comparable to Cambridge. It is an historic city dating back over 4,000 years. The economy includes clothing, electrical and packaging industries and it is the sixth largest tourism centre in Denmark. Odense also has two universities.

Odense has a modern tram system, the first phase of which opened in 2022 at a cost of £379m (DKK3.3Bn). The tramway is 14.5km (9 miles) long and has 26 stations. The daily number of passengers is ~34k. The tramway is financed by the Odense Municipality, Danish State, and the Region of Southern Denmark.

The completion marked the beginning of a new chapter for the city's public transport. Improvements have been made to the urban realm and new options for citizen mobility

have made it easier to reduce the use of private cars.

The planned second line will be 7.5km (4.7 miles) long and has a budget of £218m (DKK1.9Bn).



... positively influencing citizen mobility behaviour and reducing the use of private cars

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Tarup Center Højstrup Fyn Idrætsparken Bolbro Vesterbro

Vestre Stationsvej

Kongensgade

Odense Bånegard (Station)

Albani Torv Benedikts Plads Palnatokesvej Østerbæksvej

Korsløkke

Odeon

Ejerslykke Rosegårdcent

IDEA Bilka Cortex Park

Campus Odense

SDU

SDU Syd/Hospital Nord

**Hospital Syd** 

Parkering Odense Sysd

Odense Letbane Kontrolcenter

Hestehaven

**Hjalese Station (Station)** 

## facts

Case Study authors & date	Gordon Theobald (2024)
Location	Denmark
City population	182K
Regional population	208K
City area	79 km <sup>2</sup>
Regional area	306 km²
Number of lines	One (second line in planning / development)
Number of stations	26
System length	14.5km (9 miles)
Length underground	None
Length on street	Some shared
Service frequency	Daytime 7.5 minutes. Evening 15 minutes
Top speed	43 miles/hour
Track gauge	1,435 mm (4 ft 8+1/2 in)
Number of trams by supplier(s)	16 Stadler Pankow trams
Opened (year)	2022
Cost per km	£26M
Passengers /year	12M
Passengers /day	35K
Operating costs (annual)	Unknown
Operating revenue (annual)	~£17M
Typical fare	Adult: DKK10 (£1.70) Young: DKK10 (£1.10)
Passengers /year  Passengers /day  Operating costs (annual)  Operating revenue (annual)	12M 35K Unknown ~£17M