CARPOOLING - AN OVERVIEW WORKING BUSINESS MODELS,

SUCCESS STORIES AND ECOSYSTEM FOR SCALING.



Hi, my name is Kristian and I am a carpooling enthusiast



Kristian F. L. Amlie

- Strategic Sustainability advisor
- Fullstack mobility advisor at Bouvet.no

Mobility pioneer. Mobility curious after work. Micro investor in new mobility and new energy

Kyrre Sørensen and I created:



Norwegian Carpooling Embassy

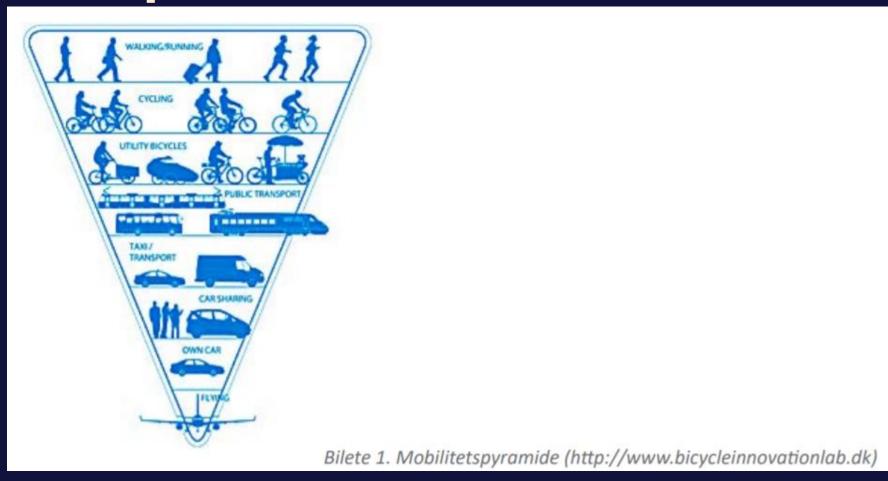
My personal motivation

- I was a part of the mobility problems in Bergen in 2010 in my tiny EV
- I was working as a digitalization og improvement advisor in the oil drilling business

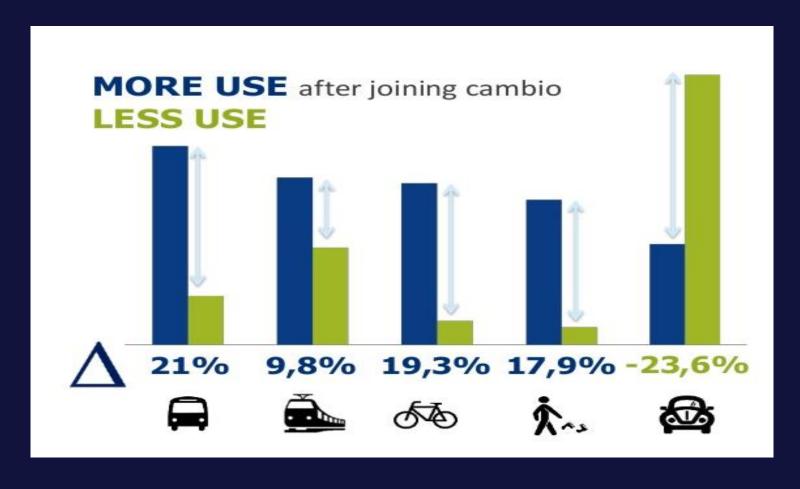
The mobility mix in the Bergen area was not satisfactory!

- Walking 19%
- Biking 3 %
- Public transport 12%
- Driver of a car 56%!!!!!
- Traffic jam and delays, emissions and danger!

The mobility pyramid – important transportmix



Example from carsharing Carsharing enables the transportmix



Challenge #1

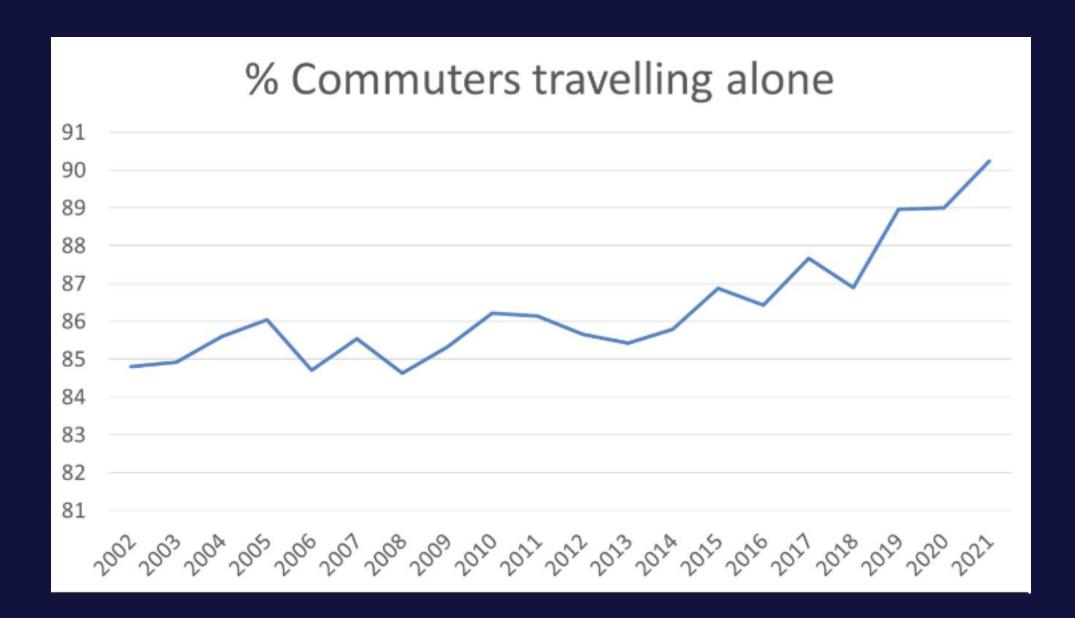
- Solo car user
- We own one or two cars in Scandinavia
- The car is too big suitable for max need
- It has uneccesary range
- And we use it for «everything» even if other options would be better



In rushhour there are 1,17 persons in every car



19 out of 20 passenger seats are empty!



Department for Transport GOV.UK National Travel Survey NTS0905

True Carpooling - a definition

- Carpooling uses available seats in private vehicles already with an errand using modern technology
- The driver may receive reimbursement for part of the cost of the car trip
- Some areas offer benefits for carpoolers HOV lane, reserved parking
- Described in Norway in the «Overview of measurs» for transport and environment: Tiltakskatalogen
- In Norway fully legal and tax issues clarified: Skatteetaten
- Toll road rebate when carpooling is suggested in Oslo and Bergen in Norway.
 Toll rebate is operational in Dallas-Fort Worth with tech provider Carma

The benefits of carpooling

- All traffic jams are gone by carpooling once every other week. Large savings for corporations
- Reduced public spending on infrastructure
- The value proposition of a private car for the users with the social and environmental profile of public transport
- Higher competetivness access to more talent for businesses
- More access to education
- CO₂ emissions reduction
- PTAs can acheive much more for the money
- PTAs can prepare for autonomy and increase the customer base
- Attainable results within two years



9 HÅLLBAR INDUSTRI, INNOVATIONER OCH INFRASTRUKTUR

- En fungerande och stabil infrastruktur är grunden för alla framgångsrika samhällen. För att möta framtida utmaningar som vi människor och vår planet står inför måste våra industrier och infrastrukturer göras mer inkluderande och hållbara.
- Innovation och teknologiska framsteg är nyckeln till att finna hållbara lösningar för såväl ekonomiska som miljömässiga utmaningar. Det bidrar dessutom till att skapa nya marknader och arbetstillfällen som kan bidra till en effektiv och jämlik resursanvändning. Att investera i hållbara industrier, forskning, miljövänlig teknik och innovation är alla viktiga sätt att skapa förutsättningar för en hållbar utveckling.

A larger and larger community for the advancement of carpooling



Gemeinsam für eine verbesserte Mobilität durch das Mitfahren.

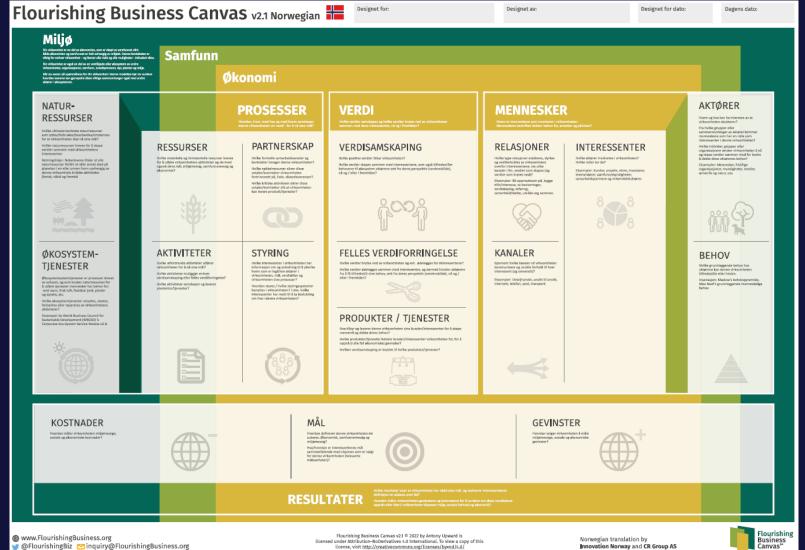


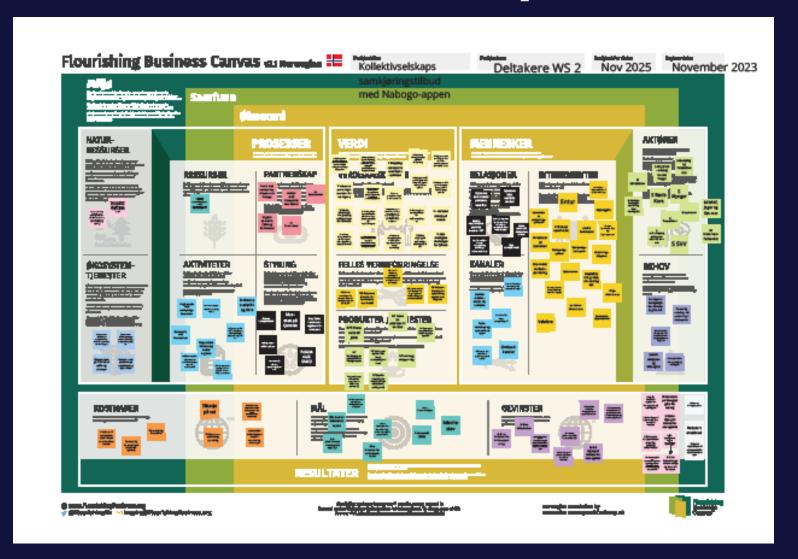






The Pooling Imperative





#1 Business to consumer solution

The passenger pays the driver and the tech provider gets a cut of the transaction (10-15%) for providing the two sided marketplace. They offer:

- matching
- user profiles
- communiation
- fee calculation and payment
- marketing to drum up the market
- usersupport



#1 Business to consumer solution B2C

The passenger pays the driver and the tech provider gets a cut of the transaction (10-15%) for providing the two sided marketplace. They offer:

- Matching users
- user profiles
- communiation
- fee calculation and payment
- marketing to drum up the market
- user support



#2 Business to business solution

The Business client pays the driver, or the passenger pays the driver.

The business pays the tech company for providing the two-sided.

marketplace. They offer the same as B2C+

- campaigns
- statistics and savings calculations



#3 Business to government solution

- A) The tech company pays the driver IF the user has a valid ticket OR
- B) The passenger pays the driver IF they have no ticket

The PTA pays for every trip with ticket

The tech company offers a two sided market

The tech company integrates with PTA

- -financially
- -travel planner
- -statistics



Success stories: Bergen 2010-2016

- A group of companies in Bergen chose Carma as tech solution along with the NPRA and their solution "HentMEG" in 2011.
- Carma started to grow here and in other cities—3000 users in Bergen,
 24 800 trips registered 2012-2016 (passenger and driver both counted)
- Carma had:
 - Internasjonal Community Management testing out a lot of ideas and methods in several cities
 - Developed according to international specs. Little local/regional adaptation
 - Financially strong owners
 - A number of local enthusiasts © (Kristian Amlie worked directly for Carma (2014-2015) as independent consultant 2014-2015)
- Other available apps in this period was flinc, gomore.no, Bravocar, Samme Vei, TwoGo and more









































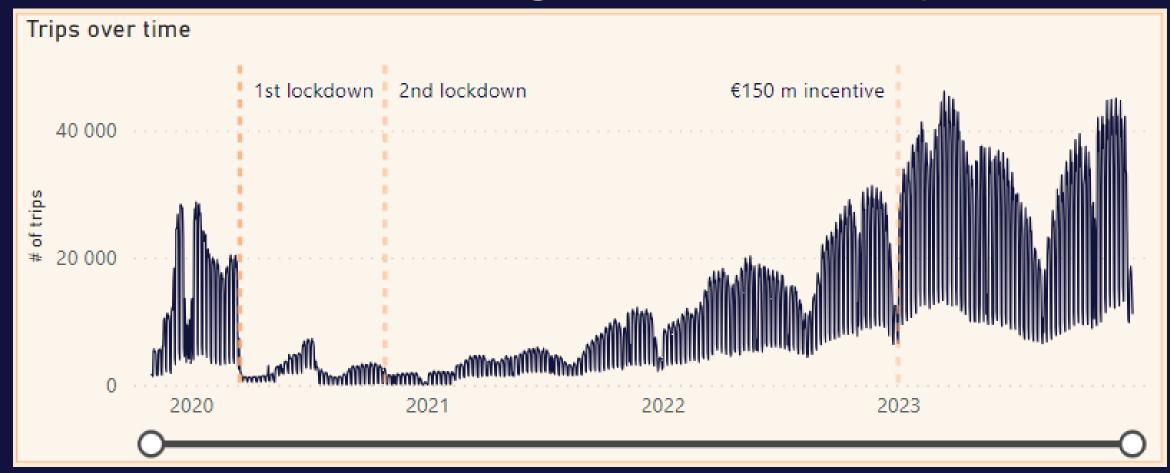
The missing pieces in Norway:

#1: The national route planner Entur could create a national neutral carpool register (just like France)

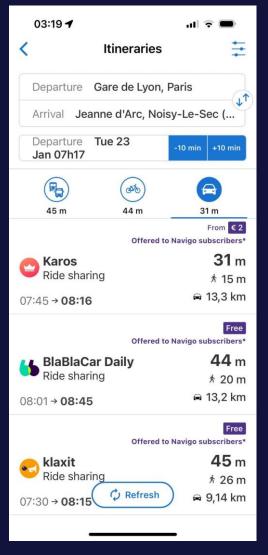
#2: Trip planning both ways for the users – both modes in the carpool app (DONE) and in the national and regional planners (TO DO)



France – national register of activity



Tech two way integration:



Tuesday, January 23, 2024 3:45 am (Paris)







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FRENCH DELIGHT

ECONOMY - TRANSPORT

French government presents updated plan to encourage carpooling

The transport and environment ministries are promising €100 to drivers who sign up for carpooling and €100 million to support local authorities in developing incentives.

By Emeline Cazi and Sophie Fay

Published on December 14, 2022, at 8:30 am (Paris) - 0 4 min. - Lire en français

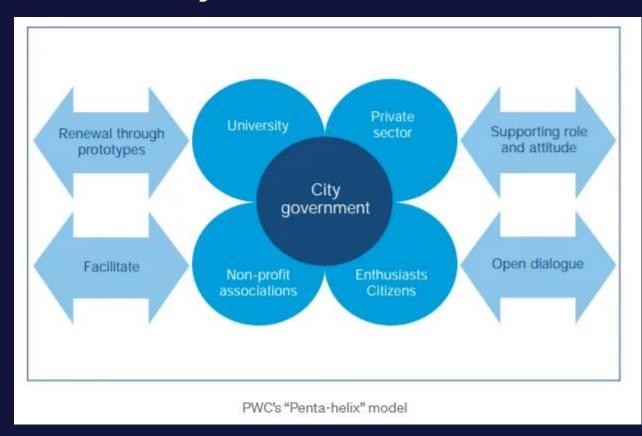


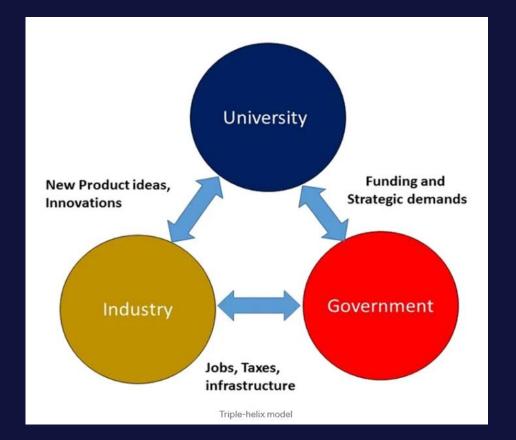




A carpool success is a difficult and fun innovation exercise

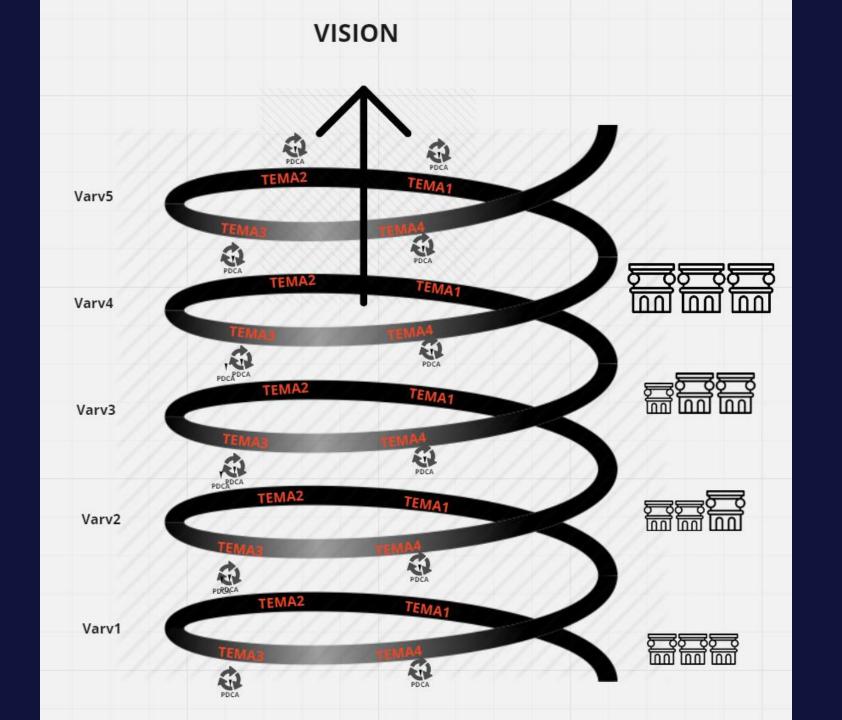
What is your innovation model?

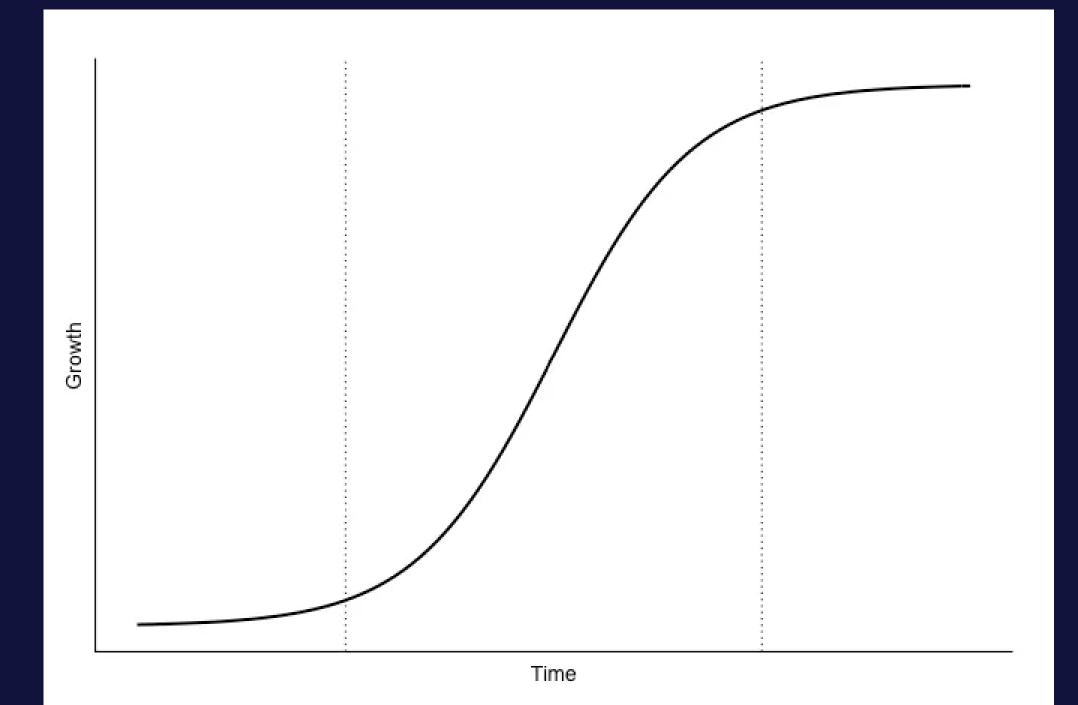


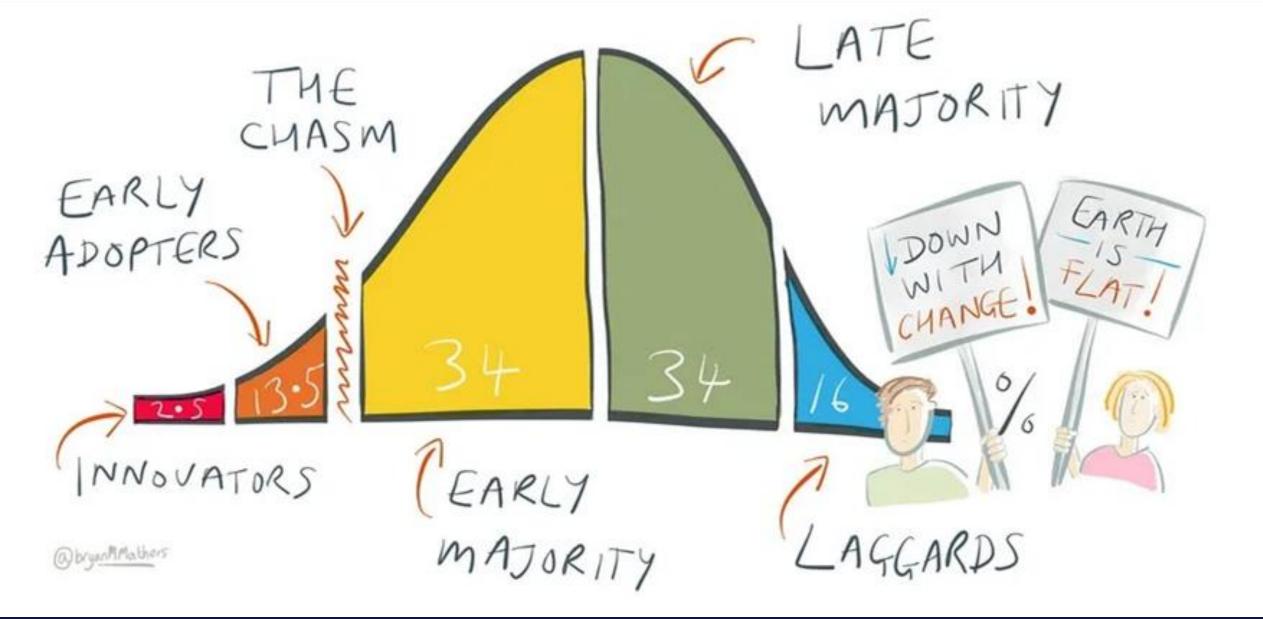


Recipie for success

- Find a promising tech supplier understanding your area
- Make a not-so-secret MASTER PLAN
- Celebrate every win!
- Communicate long term goals = WHY
- Communicate short term goals = WHAT + WHEN
- Make every stakeholder aware of their possible contribution
- Gather data use the app your self. Eat your own dog food. Observe users
- State your assumptions and the metrics to measure progress
- (re) Plan-Do-Check-Act and repeat







Thank you!

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- Mobility advisor
- Advisor strategic sustainable business development
- Mobility volunteer and enthusiast

