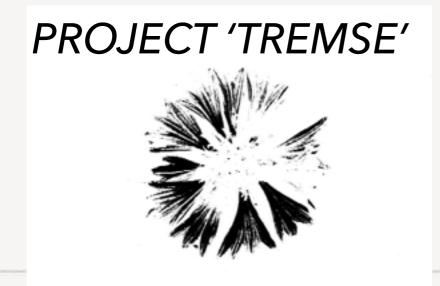
Innsbruck, June 26th, 2015



'SPONTANEOUS' RIDESHARING A NEW PUBLIC TRANSPORT SYSTEM?!



Hermann Spiess Agronomist, ETH Zürich Innsbruck, June 26th, 2015



'SPONTANEOUS' RIDESHARING = TRAVELING ON EMPTY SEATS



Hermann Spiess Agronomist, ETH Zürich

TREMSE = Cornflower (Centaurea cyanus)

THE VISION



'Big changes are not to be expected in transports but in mobility...

The distinction between public- and individual transportation is becoming more and more difficult until finally they both become one.'

Karin Frick, Gottlieb Duttweiler Institute (2014)



Ridesharing = Carpooling (taking a ride in a car that drives ANYWAY)

WHAT IS 'SPONTANEOUS' RIDESHARING?

- 2007 outlined by Nokia engineers, this system differs significantly from former ridesharing systems (it is also called 'dynamic', 'ad-hoc' or 'instant' ridesharing).

Modern smartphone- and GPS- technology allows passengers to check for rides with cars that are already on the road.

- Planning ahead becomes obsolete and does NOT restrict car driver's freedom anymore.
- It can be used SAFELY by ALL car drivers (commuters, shoppers, professionals) and by any possible passenger by App.

WHAT IS 'SPONTANEOUS' RIDESHARING?

Car drivers do not need to plan ahead, don't make phone calls and detours neither.

A SR-service never creates additional traffic (as a taxi service does).

If car drivers are using it, traffic will be reduced.

Destination information can be used to forecast and influence traffic upcome.



WHAT IS 'SPONTANEOUS' RIDESHARING?

By entering the drive's destination in an App at departure, the car driver makes EMPTY SEATS accessible for passengers.

This takes a few seconds only.

The system then attributes a TIMETABLE and an ITINERARY to the car,

and looks for possible passengers on the route.

The driver's FREEDOM and INDEPENDENCE before departure are not infringed.



WHAT IS 'SPONTANEOUS' RIDESHARING?

Wocomoco shaping comobility

It is simple, economic and ecologic

A few seconds only

- the seat is already paid for

- and no additional fuel is used.



OUR TRANSPORTATION MEANS:

What do we associate with Public Transport?

Timetable Itinerary

Bus

Train

Tram

Airplane Boat



shaping comobility

Freedom Independence

Car Bike

Truck Ship, Vessel

OUR TRANSPORTATION MEANS:

Public Transport

Timetable Itinerary

is striving for more empty SEATS



Freedom Independence

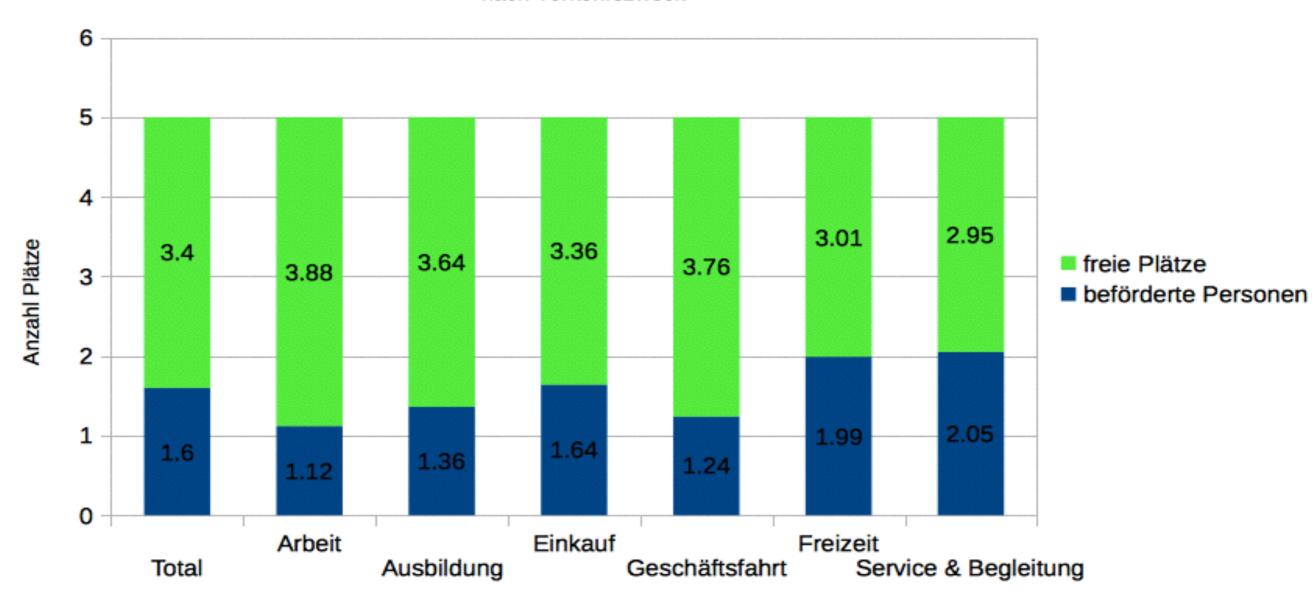




EMPTY SEATS IN SWITZERLAND

Besetzungsgrad von Personenwagen 2010

nach Verkehrszweck



Quelle: BFS, ARE – Mikrozensus Mobilität und Verkehr (MZMV)

© BFS 2014

ANYWHERE IN THE WORLD ...







ANYWHERE IN THE WORLD ...







ΔNY 4000 Fahrzeuge --> 12'000 freie Plätzel) RLD...







PROJECT 'TREMSE' A FIRST STEP INTO THE FUTURE

With project ,TREMSE' I want to show in practice:

- Car drivers can with little effort transport passengers. Safely.
- Many different people will use and quickly appreciate the new transportation options.
- Public transport officials and politicians will value a new approach for future transportation challenges.



PROJECT 'TREMSE' A FIRST STEP INTO THE FUTURE

How will this work?

- 1. Marketing and information campaign about the project.
- 2. During a few weeks, public transit passengers and citizen **test** the transportation service provided by car drivers.
- 3. Scientific and economic analysis of the trial.

A partner and leader in public transport is essential.

The **©BB** is a leader in public transport and obviously is interested in innovative solutions for transportation challenges.



Innsbruck, June 26th, 2015



ÖBBCOULD INITIATE THE SHAPING OF THE NEW PUBLIC TRANSPORT SYSTEM OF THIS CENTURY!



Hermann Spiess Agronomist, ETH Zürich Innsbruck, June 26th, 2015



THANK YOU FOR YOUR ATTENTION

QUESTIONS?



Hermann Spiess Agronomist, ETH Zürich

THRILLING SCIENTIFIC LITERATURE ON 11 PAGES:



Research Center

NRC-TR-2007-003

Link:

http://research.nokia.com/sites/default/files/tr/NRC-TR-2007-003.pdf

Empty Seats Traveling

Next-generation ridesharing and its potential to mitigate traffic- and emission problems in the 21st century

Stephan Hartwig, Nokia TP (stephan.hartwig@nokia.com)

Michael Buchmann, NRC

Nokia Research Center Bochum

http://research.nokia.com

February 14th 2007



'SPONTAN SAMKJØRING' (BERGEN, NORWAY)

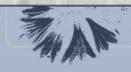
The private car is the main reason for today's traffic congestions



... but it may also be part of the solution

www.seat4me.net





'SPONTAN SAMKJØRING' (BERGEN, NORWAY)

Benefits for the public sector

Less need for traffic investments

More efficient use of public transport

Reduced emissions

health benefits

Less pressure on infrastructure

Improved traffic flow

www.seat4me.net



