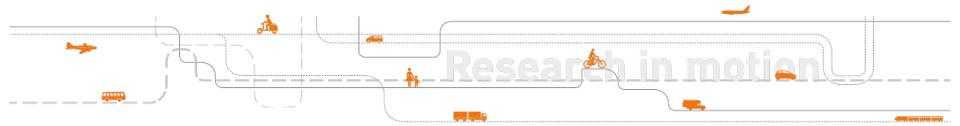
#### **Gendered Mobilities**

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## The International edition > Guardian

# The ingenious cyclewear Victorian women invented to navigate social mores

Patents by female inventors from the 1890s reveal the creative ways women made their body mobile through clothing



▲ An advertisement for Stower's Lime Juice Cordial from around 1898 showing a fashionable Victorian woman relaxing while having a refreshing drink. Photograph: Alamy

#### What are the knowledge gaps?

How can we look for other needs/ attitudes/perceptions/



### Clearly divided gendered travel patterns

#### Snapshot from literature review

- Scheiner 2018
- Scheiner and Holz-Rau, 2017
- Konrad, 2015
- Heinen and Chatterjee, 2015
- Scheiner, 2013
- Paleti et al., 2011
- Bauer et al., 2011
- Scheiner et al., 2011
- Holz-Rau et al., 2011
- Bühler and Kunert, 2010
- Hjorthol, 2008
- Sandow, 2008
- Best und Lanzendorf, 2005
- Best und Lanzendorf, 2005
- Choo and Mokhtarian, 2004
- Polk, 2003
- Valley, 2003
- + Priya Uteng (multiple publications 2005-2018)

#### Clearly divided gendered travel patterns

#### Trip purposes

- Women fewer job and business trips, more shopping and escort trips
- Women more varied/complex activity patterns

#### Trip chains

More complex trip-chaining - varied activity patterns

#### Daytime distribution of trips

- Women go out by night less often
- Women travel less often in rush hour

#### Clearly divided gendered travel patterns

#### Licencing and car availability

Higher for men

#### Mode choice

- Women passengers, men drive
- Women- use public transport; walk more often
- Women more multimodal / variable
- Vehicle choice Women drive smaller cars
- Where cycling is a part of the travel culture, women bicycle longer distances.

#### Trip distances and trip duration

- Shorter for women; especially for job trips, but also other purposes
- Women participate less in long distance travel (commuting, business)

# How things **Should** have been done?

### Development, Gender and Transport

- What kind of (daily) mobility needs do women have?
- What are the limitations they face wrt time constraints,
   financial constraints, safety constraints etc.
- Can we minimize these constraints? For ex. (i) through spending less time and money on their daily travelling, (ii) can they use their time differently?
- What ratio of women are in the different employment / services— manufacturing services, care services etc.?

#### MAPPING...PLOTTING...INTERLINKAGES



## Gendered layerings

#### Mapping

- Accessibility
- Affordability
- Availability
- Acceptability

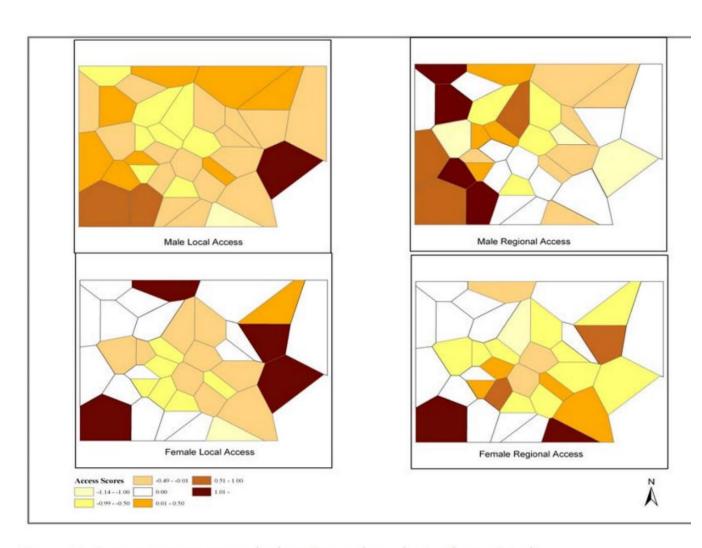


Figure 14. Average access scores by location and gender in Chennai, India

Source: Srinivasan, 2008

## How things have been done?

Hegemony of trips planned for peak hour, commute, fixed employment, fixed areas, Transport modelling exercises....

## The 'desired' Target groups

- Commuters
- Men
- 9-5 jobs

Flexibile trips, trip-chaining, travelling with children, linking multiple, geographically spread low-end / flexible jobs.....???

## The 'undesired' Target groups

- Women
- Family with young children
- Shift / Part-time workers
- \_\_\_\_

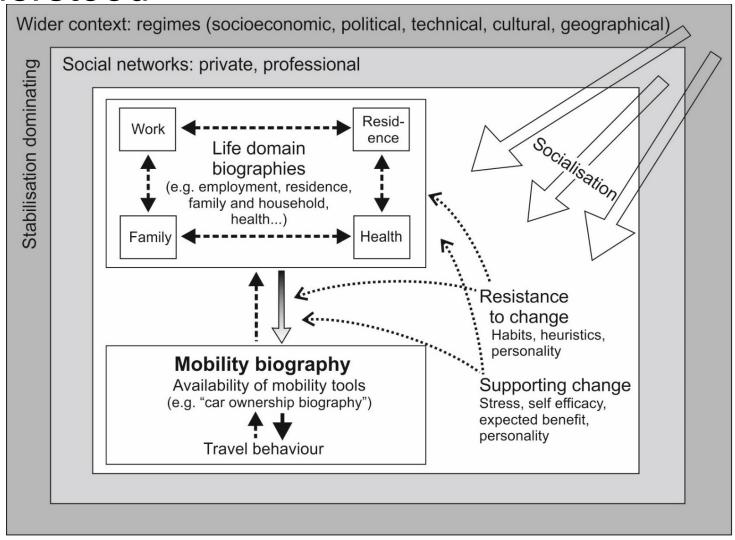


# Biggest issues. based on literature reviews, surveys, interviews.

- 1. Public transport, walking and bicycling infratstructure inadequate attention.
- 2. Gendered nature of infrastructure poorly understood
- 3. Daily Mobilities not integrated with other developmental policies like health, employment generation, education, welfare services etc.
- 4. The relationship between **gender equality and sustainability** is poorly understood, or NOT understood

🚅 at all.

## Gender – life stages – transport : poorly understood



Primary interrelationOther interrelationProcess of travel behaviour change

Source: Scheiner (2018)

## What has this **ead** to?

(-) Convergence

## Direction of this convergence. Why (-)?

1. While men are still driving more than women, BUT the gap is decreasing over time for all life-cycle stages

2. Trip purposes

Convergence

3. Licence holding

Convergence

4. Car availability

Convergence

5. Mode choice

Convergence

6. Trip distances and trip duration

Convergence

### How to move FORWARD?

## Transport vs. networked mobility

- Transport classified as 'hard infrastructure'
- BUT Transport vis-à-vis Daily Mobilities is a
  - dynamic element Multimodality, MaaS,

Digitalisation, Transition, Intermediate means of Transport, bike sharing, Qualitative studies etc. as part of the entire travel chain with particular reference to women's needs.

A real good chance of promoting sustainable travel behaviour IF women's travel preferences are made the unit of analysis—Walking, bicycling and PT



# Understanding the links between gender and transportation

#### Revealed, preferred and digital mobilities

- Given the current system, roles, jobs, gendered divisions what are the current mobility needs?
- Division of labour in different sectors. What are the current and future mobility needs of future?
- What kind of transportation policies and investment will ensure that the accessibility of women increase?
- Are there systemic and systematic flaws responsible for gender-blind transport policies?
- How do land use regulations or the lack of it affect the mobilities in urban and peri-urban areas?
- Which kinds of mobilities (both urban and rural) are being supplemented / complimented or substituted by mobile phones?

## Example 1: Gender-disaggregated data and gender budgeting

#### Gender budgeting vis-a-vis travel patterns

If women were to adopt the travel patterns of today's men...

...the modal share by car would increase by 17 %

...CO<sub>2</sub> emissions from car traffic would increase by **31%** 

...the additional demand for driving and parking space would add up to **190**Möllevångstorget (standard town square)



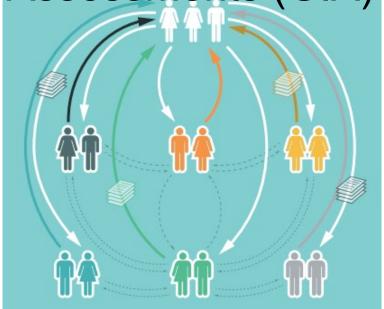
Source: City of Malmö Planning Office, Daniel Svanfelt | Strategy Officer





Example 3: Gender Impact Assessments (GIA)

- Assessment procedure-
  - Integrate gender equality in planning
  - Assess the impacts
  - Mitigate impacts
  - Give guidance for subsequent stages
- Clear steps / stages
  - 1. Start-up
  - 2. Scoping (identify field of work)
  - 3. Baseline
  - Identify and involve relevant groups
  - 5. GIA's impact on the plan or on the content of the project
  - 6. Investigate the impacts of proposed measures



- 7. Mitigate the impacts of the proposed action
- 8. Assess the impacts of the final design
- 9. Write GIA-report
- Give suggestions on integration of gender measures in the subsequent planning
- 11. Follow-up



### Gender Mainstreaming @

- Macro-Meso-Micro
- Gendered needs, power structures, negotiation processes
- TRANSITIONS Digitalisation -Smart Cities Smart mobilities – What do they mean for women?
- •What are the systematic / financial benefits? etc.
  - demands further consideration.

# For ex: Smart Mobility – station-based and flexible carsharing. Case- Germany



Users of .....

..... station-based carsharing

40% women - 60% men

..... free-floating carsharing

30% women - 70% men

age group up to 35y

living in 1-2 person households above average formal education above average income

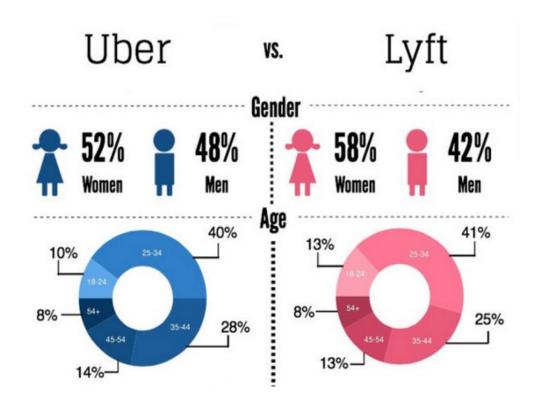
Loose 2010, Riegler et al. 2016

Source: Lenz 2017



# Smart Mobility – ridesharing / ridehailing. Case- Germany





Source: ciscosolutions.com

Source: Lenz 2017

## @Moving «smartly» forward: Macro-Meso-Micro mapping

- MACRO build focus on PT, WALKING, BICYCLING through National Transport Policies
- ■MESO Regional planning, urban planning policies-Ex: locational decisions - training centers, high schools, health centers etc. acessibile by PT, walking, cycling.
- •MICRO Road design, Apps, PT routes / timings / accessibility mapping.

## Thank you!!