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19 May 2022



Institutional Mobility Plan Paseo de la Reforma

Behavioural change and travel demand management from the private sector













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Content

- 1. Management of car use
- 2. Institutional Mobility Plans
- 3. Methodology
 - a. Diagnosis
 - b. Behavioural sciences
- 4. Mobility Plan: MOVIN Paseo de la Reforma

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3

1. Management of car use

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1. Management of car use

Car use management combines different policy instruments. From encouraging more sustainable travel choices to car and parking charges or restrictions.

Effectiveness				
1.	Congestion charges	7.	University mobility schemes	
2.	Parking and traffic control	8.	Sustainable mobility services by universities	
<mark>3.</mark>	Limited traffic areas	<mark>9.</mark>	Promotion of car sharing	
<mark>4.</mark>	Free public transport passes for employed persons	10.	School Mobility Plans	
<mark>5.</mark>	Workplace parking fees	11.	Mobility plans at city level	
<mark>6.</mark>	Institutional mobility plans	<mark>12.</mark>	Gamification of sustainable mobility	

Source: <u>What are the most effective ways to get cars out of cities?</u> (Nicholas K., Kuss P., 2022).

2. Institutional Mobility Plans

ideams SITDP SBID 148 2. Institutional Mobility Plans



An **Institutional Mobility Plan** (IMP) is a sustainable mobility strategy that helps manage travel to and from work or study by promoting the use of alternative modes of transport to the individual car.

What is it for?

- 1. To know the mobility patterns of the people employed.
- 2. Quantify the impact they have within the institution and on society.
- 3. Identify and facilitate the implementation of mobility solutions that mitigate the negative impacts associated with such mobility patterns.

They can be developed for a single organisation or institution, as well as for a group of them located in the same area. Example: Employment cluster.

Potential strategies to implement

Individuales:

Caminar al trabajo: Identificar rutas y cruces seguros, mejorar la infraestructura, adecuar los accesos peatonales. Pedalear al trabajo: Biciestacionamientos, vestidores, escuelas de bici, entre otros.



Transporte público:

Mejorar la información sobre rutas, paradas y horarios, integrar otros servicios de primer o último tramo (bicicletas, transporte empresarial).



Transporte empresarial o vanpool:

Rutas inteligentes, planteadas de acuerdo con la residencia y horario de las personas que viajan a la institución, reserva por aplicación, pago electrónico.

Administrativas:

Horarios flexibles y escalonados, teletrabajo, oficinas remotas, semana comprimida, etc.

Auto compartido o carpool:

Plataforma que facilite la búsqueda, identificación y comunicación de personas interesadas en compartir el auto y estacionamientos exclusivos.



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2. Institutional Mobility Plans Benefits



PERSONS EMPLOYED

- ✓ Improve quality of life and motivation.
- ✓ Generate physical and mental health benefits.
- ✓ Promote new mobility options.
- ✓ Reduce travel times.



SOCIETY AND ENVIRONMENT

- $\checkmark~$ Reduce traffic congestion.
- ✓ To reduce the emission of polluting gases into the atmosphere.
- $\checkmark~$ Reduce noise pollution.
- ✓ Reduce pollution-related diseases.



COMPANIES AND INSTITUTIONS

- ✓ Increasing productivity.
- ✓ Generate savings on parking costs and other externalities of motorisation.
- ✓ Increase talent retention and recruitment.
- ✓ Increase uptime and purchasing power.
- ✓ Improving the company's image (RSA)
- ✓ Before COVID-19, plan an orderly and safe return.

3. Methodology

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ITDP proposes a **5-step process** and **cross-cutting communication** strategies:



The elaboration of a Mobility Plan is a process that requires long-term management.

It usually takes **6 to 12 months** between the launch and the implementation of the first strategies, but much depends on the size of the company and its action plan.

Behavioural sciences

Understanding the factors that influence behaviour is essential to be able to modify it.

The **COM-B model** is a theoretical framework that proposes that for a person to behave in a certain way, the following is required (Michie et al, 2011):



5 steps to understanding and facilitating change

Resistance to change is normal

Introducing a cultural change related to sustainable mobility will most likely provoke rejection from individuals and the organisation.

and focus groups)

Knowing the reasons and barriers of people and organisations for not changing their mobility habits is very useful to develop the strategies and incentives of the Mobility Plan.



Much of human behaviour is defined by imitation of what "the majority" does. Belonging to a group and granting recognition, as a pattern of behaviour, is one of the keys to transforming habits.

People tend to unconsciously imitate the behaviour of those with recognition and status. For example, people in management positions in companies arrive at work on bicycles.

Detecting and positioning leaders of change

Listening to reasons (questionnaire



It is essential that decision-makers within organisations promote sustainable mobility and lead by example.

4. Mobility plan: MOVIN Paseo de la Reforma

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4. MOVIN Paseo de la Reforma

- **MOVIN Paseo de la Reforma** brings together 8 companies in a social and environmental commitment: to **promote sustainable mobility**.
- **Feature**: All companies are located within an employment cluster with multiple sustainable transport alternatives.
- We achieved a **62% response rate to diagnosis**, representing almost 7,000 people.



• The PMIs are part of SEMOVI's mobility strategies. They are included as one of the points of the **Mobility Sector Emission Reduction Plan** 2019.



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4. MOVIN Paseo de la Reforma

Plan de Movilidad Interinstitucional Paseo de la Reforma

REPORTE DIAGNÓSTICO GLOBAL



Results of the global diagnosis

- **Profile of the people**
 - 52.8% identify themseless as men
 47.1% as

* A gender analysis was carried out

women

- Most people (**35.7%**) live within a radius of 10-20 km.
 - Only **8.7%** live within 3 km.

- 8.2 out of 10 people own a car
- 4 out of 10 people own a bicycle
- **12%** of staff are Ecobici users and 37.7% are women.

₫.

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4. MOVIN Paseo de la Reforma



Mobility patterns

- Car, the most used mode. TP in second place.
 - The average occupancy rate per car was **1.4 persons.**

• **6.5** out of **10** people own and used a car.



- **1.5** out of **10** people own and used a bicycle.
 - The shorter the distance to the workplace, the greater the use of bicycles.
- **48.8%** travelled more than 15 km (one way).
- **53.2%** travelled more than 1 hour (one way) and **9% travelled** more than 2 hours.
 - Only **2.6%** 15 min. or less.

4. MOVIN Paseo de la Reforma

Mobility patterns

⊞

Car use and emissions vs. public transport

46.2% vs. 38% of total trips of total trips **89.2% vs. 4.**1% of emissions emissions

72.8% vs. 8.6% of particulate matter (PM2.5) of particulate matter (PM2.5)

People's **labour displacements** generated:

8,560 Ton of CO2 and 647.4 Kg of PM2.5

17,120 trees would need to be **planted** per year to offset commuting related emissions

Car and parking costs



Going to the office in some kind of car is:

- **1.4 times more expensive** than some types of taxis
- **10.3 times more expensive** than personnel transport



85.7% parked their **car at the company free of charge.** On average they spend **\$1,050.00**

MXN per month (30% of total car expenses)₁₇

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4. MOVIN Paseo de la Reforma



MOVIN objectives:

Car use

Cycling







Pollutant emissions \rightarrow Reduce pollutant emissions (CO2) by 30%.



Mobility subsidy

 \rightarrow Shift 10% of current car subsidy to other sustainable modes

 \rightarrow Shift 20% of modal share from car to sustainable modes.

 \rightarrow Double the main modal share of cycling (from 3% to 6%)

Vision: To improve the quality of life of employees, reduce congestion in the area and reduce polluting emissions by promoting more and better sustainable mobility options.



7. MOVIN Paseo de la Reforma Technical analysis

Strategy development process

Behavioural sciences (COM-B model)



A total of 23 strategies are presented, grouped as follows:



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Bicycle mobility

EO

Optimistic scenario



l prefer not to specify

Potential: 1,599 new people could cycle, representing **24.5%** of people (6,534). To meet the target of 3% additional modal share by bicycle, **208 of the 1,599 people** would be needed.





Potential: 774 new people could cycle, representing **11.8%** of people (6,534). To meet the 3% additional modal share target for cycling, **208 of the 774**

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7. MOVIN Paseo de la Reforma

What are the strategies we are going to promote?



Flexible entry and exit times Providing facilities related to staff hygiene Provide rain gear **Formation of running groups**

Flexible entry and exit times
Providing facilities related to staff hygiene
Ecobici registration fee
Pay-as-you-go bicycle sharing systems
Provide rain gear.
Provide cycling safety equipment
Secure on-site bicycle parking
Organisation's fleet of mechanical or electric bicycles
Bicycle school and personalised cycling accompaniment

Development of cycle rides or work events around cycling





Business transport route network



Information on public transport integration with:

(i) Bicycle (Ecobici)(ii) Business transport

21

7. MOVIN Paseo de la Reforma

Can an institutional mobility plan contribute to the sustainability and quality of life of cities?

Can clustering of origins and destinations make collective transport solutions viable/profitable?

How can a PMI be sustained over time?

Should private sector mobility plans be promoted by authorities as part of urban sustainability solutions and how?

Thank you

::: mexico.itdp.org ::: ideamos.mx ::: @ITDPmx :::



One of the fastest growing regions in Sweden

Sustainable mobility

Central for achieving Umeå's overall goals

- Sustainable growth to 200,000 inhabitants by 2050
- Safe and secure
- Equal
- Climate neutral





The comprehensive plan integrates perspectives, the development strategies lay the foundation

Everyone shall take part





Create high density in new districts



Invest in public spaces and parks

Growth along public transport corridors and conversion of highway to city streets

Development strategies for urban growth 200 000 inhabitants by 2050

800 📥 000



Five kilometer city - the dense city!

More city! Complementing as revitalizing force



If men travelled like women, the goal for the city would be reached!

Goal for Umeå 2025; 65 percent of all travels in the city are sustainable

- Men: 40 percent
- Women: 56 percent

Travel habit survey 2015: Travel diary, inhabitants of Umeå (gender seggregated statistics)







Car-free families – try out new habits

- Target those who are willing to live without a car
- Wide range of sustainable modes of travel, instead of focusing on a mode of travel
- Focus on change in lifestyle, instead of test-travelers for a short time or competitions
- 10 families, 3 months without a car

Conclusion

- Three months is enough time to give going car-free a real shot
- There is a great will to change, but you need support to overcome thresholds.
- Planning leads to less stress and reduced consumption, fewer impulse purchases.
- Electric bikes is the key to car-free life



Innovative communication

16 %

16 % have tried biking more often

We worked with Umeå-artist Nathalie "Cleo" Missaoui



www.umea.se/brytupp



Umecom: citizen innovation and co-creation





För att accelerera arbetet med lokal och hållbar mat i BIOLOGISK MARGENES MIRSEE VISLAPP Visiterbothen, stötta existerande och kommanide aktörer inom området, föredär vi en regional hub. Hubben ska vara en organisation och en fysisk plats som tillsammans främjar innovation inom sektom lokal och hålbar mat. Hubben ska stå för kunskap inom området och leda till

Genom mer lokal och hållbar mat kan vi ta vara på esurser och korta ner transporter. Vi premierar ocks jälvförsbrjning och cirkuläritetstänkande, vilket leder ti xamarbeten mellan det offentliga. föreningar, och andra





Driv igenom ett regionpolitiskt beslut. in intressenter från näringsliv ingar, forskning och skola. Organisera ett. projekt med huvudman handlingsplan och finansiering.

Det helvivs first ett regiongalitiskt beslut att invätta en senter från näringsliv, relaterad sub. Sen bör intres hub, Sen obriefnisserier fran namgala, erlaterade organisationes samt fonkning och kalls bjukatis in (Euc. Umsä unkenstet, SUJ, kommunerna och änsätyreisen, PSC), huchfähingsallikäpet, EUC, befnttigt företag på ermäldett, Någen bör utses till huvudman och utfrän och behöv en organisation, handlingspalan och finansiering. Finansiering skulle kunna ske eventuelt munasiering.

HUR GENOMFÖR VI FÖRSLAGET?

organisationer i landet.

INCITAMENT FOR CYKELVÄNLIGT BYGGANDE

DETTA SKA VI GORA! KLIMAT- OCH MILJÖEFFEKTER

Våra bostadområdens utformningar är en stor flaskhals när det gäller att underlätta för Umebor att välja cykeln. En cyklande familj har ofta flera cyklar per person, men i dagens bostäder finns det inte förvaringsplats för allt. detta, samtidigt som det tas för givet att alla ska få plats med en bil. Därför är värt förslag att skapa incitament för att bygga bostadsområden där man kan parkera alla hushållets cyklar på ett stöld- och vädersäkert sätt -

paysett vilken boendeform man har.

👪 Om vi anpassar bostāderna fār cykelägande och förvaring kan fler välja cykeln, och välja den oftare.



HUR GENOMFÖR VI FÖRSLAGET?

En idé är att göra det möjligt att söka medel från kommunen eller någon myndighet för att t.ex, en bostadsrättsförening eller andra aktörer ska kunna investera i cykelförråd och annan infrastruktur som krävs, både vid ombyggnad och nybyggnation. I Malmö byggdes är 2017 det cykelanpassade bostadshuset "Ohboy" som ett pilotprojekt för minskad bilism i staden (https://www.siegel.nu/home/ohboy/). Denna förlaga kan användas som inspiration till utformning och som bevis för genomförbarheten.

Ju fler bostäder och bostadsområden som är lämnade för cykelägande, desto större blir effekten i form av minskade utsläpp när fler kan välja cykeln och välja den oftare



Studera och lär av tidigare projekt.

Gör det möiligt att söka medel från < kommunen eller någon myndighet.





ODLINGSKUNSKAP I SKOLAN



BETR

KLIMAT- OCH MILJÖEFFEKTER

ÖRAD RUNSKAP MINSRAT MATSVIAN ROLSÄNKA

Pensionärer i kommunen kan nyttias som resurspersone

DEALDRINGAR FREE TEANTPORTER

HUR GENOMFOR VI FORSLAGET?

DETTA SKA VI GÖRA!

Utryttja befintliga organisationer i kommunen som artetar hom området, tar. Forslunda skela, tukägalstöternegne och studiefötunk före nipte på några skelar, tars. Sker skala och Waldsrifstein. I infortandet kan vingta kunkågen och insursman som finns på Forslunda och även kunkåa om svinnsmart mattagingin på skommunen kunkår. Pensioherer i kommunen som är intresende av området borde rottals over neuenenpender.

Vi vet också att en utställning är på gång på Exploratoriet i Skelleiteå på detta terna, vilken skolle kunna gå att samarbeta med. Naturskolan i Umeå kommun är också en möjlig samarbetspartner.

Januari	-
Februari	23/2 Live Session
Mars	30/3 Live Session
April	27/4 Live Session
Maj	14/5 Umecom x Kamacon
Juni	12°
Juli	Semester
Augusti	Festival, inget datum satt
September	28/9 Live Session
Oktober	26/10 Live Session
November	30/11 Live Session
December	14/12 Julavslutning på
	Revolt



Challenging power, identity and norms is just as important as introducing new technology to reach climate neutrality

Thank you!

Philip Näslund

Strategic Development Officer, City of Umeå philip.naslund@umea.se





Comune di Parma



Mobility behaviour change: Promoting sustainable travel choices in cities

City of Parma

Patrizia Marani

19 May 2022

Parma



Parma: food valley



Parma: and air pollution in the Po region



Satellite image of northern Italy in the winter season (source: MODIS Radiometer, NASA)



Parma: integrated approach

Integration of national, regional, inter-regional and local policies and strategies



Integration of air quality, sustainable mobility, climate change





Parma: SUMP



- **Reduce private vehicles** traffic and move people in a more efficient, sustainable and safe way
- **Re-design the public transport network** in order to cope with user expectations for efficiency, quality and fast access to information
- Develop **intermodality** and interconnection with different urban transfer systems (bike & car sharing, electric mobility, car pooling
- Improve environmental indicators by reducing noise and air pollution and improve public spaces
- Reduce transport costs, energy consumption and waste of resources with a view to sustainable mobility
- Improve the sustainability of **urban logistics**

Parma: integrated actions

Increase cycling infrastructure:

- Extend and improve bike ways
- Bike sharing (electric, non-electric, station-based, free-floating)
- Bike stations for intermodality

Car sharing (low emission, electric, station-based, free-floating)

Electric scooters, free-floating

Electric moped, free-floating

Extend 30mk/h zones

Public trasport: more efficient, attractive and competitive; low emission busses, trolley busses, intermodality, system of incentives

Improve public spaces for a thriving city

- Participation and communication
- Education in schools and school mobility
- Parking policy
- Data monitoring

Parma: integrated actions

Blu and green areas



Gradually implementing low emission zone

Extending restricted access regulation to the whole urban area within the ringroad

Coordinated by the City of Parma

Aim:

permanent and structural change in mobility behaviour home-to-work in urban and metropolitan areas

A network of 32 mobility managers of public and private organisations (at least 100 staff) 67.000 employees and students Travel plans supervised by the City of Parma

Activities and benefits:

. capacity building

. common methodology and tools for the employees questionnaire and the preparation of the travel plans

- . incentives for the members
- . monitoring of data
- . coordination of urban strategies and initiatives

What is a company mobility manager for?

- ightarrow Fulfilling a legal obligation.
- → Introducing greater efficiency in organisational processes related to mobility.
- → Enhancing corporate welfare and reputation.
- → Mitigating the negative externalities
 _____produced by the organisation.



Mobility Management: a 'systemic' competence

Many functions and objectives:



- → Initial assessment, data processing, plan definition, implementation, reporting, ongoing monitoring.
- \rightarrow Finding and managing funding lines internally or externally.
- $\rightarrow\,$ Identification of digital media: apps, detection tools, monitoring tools.
- → Communication and relations with internal and external stakeholders.

Sustainable mobility measures in companies: a few examples



By Rolando Cervi, mobility manager

Sustainable mobility measures in companies: a few examples



Parma: Bike to work



Encourage active travel between home and work and discourage the use of private cars

Started in 2020, three editions

Agreement between regional authority – local authority – enterprises – employees

A system of incentives to increase cycling to work:

- O cents per km max. 50€/month
- reduction of the price of the bike sharing (free monthly pass)
- reduction (30%) of the price of the bike parkings

Phase 1: the Municipality publishes an expression of interest for all interested public or private organisations

Phase 2: Signing of Mobility Management Agreements between the Municipality of Parma and organisations participating in the Bike to Work project

Phase 3: Employees can participate in the bike to work project

Phase 4: Monitoring of the bike to work with the App 'GreenApes'



2020 October-December 2021 April-October 2022 running

Incentives: € 55.298,21 Km traveled: 267.703,85 Enterprises: 39

Systemic action

Commitment of the municipality and the organisations to promote, communicate and disseminate the Bike to Work project

For temp and permanent employees

Any type of bikes

Only home-to-work



https://www.youtube.com/watch?v=fvJfaCMDrzY

Thank you

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