Accessibility For All

A Tool Toward Sustainable Mobility

Focus on Cycling Measures





Mobility for All Consultancy

How Modal shift needs less anthropocentrism



French humorists moto as media adviser for politicians

« Don't consider people as silly ... but don't forget they are! »

I prefer:

« Don't consider people as silly, but don'y forget they are not you! »

People Attendees contribution

Please stand up, and people sit who:

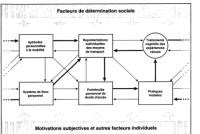
- Think cars have to be deleted and forbidden?
- Never cycle before 18 years old?
- Have a mobility budget higher than 2 000 euros/years?
- Let 12 years old children ride alone?
- Could not cycle temporary because of a cycling injury?
- Have refused a job because it was too difficult to cycle to work?

People Modal choice criteria

Please stand up, and people sit who:

- Think cars have to be deleted and forbidden?
- Never cycle before 18 years old?
- Have a mobility budget higher than 2 000 euros/years?
- Let 12 years old children ride alone?
- Could not cycle temporary because of a cycling injury?

- Social representation
- Modal practise
- Mobility budget
- Cognitive perception
- Individual mobility skills
- Have refused a job because it was too difficult to cycle to work? Activities location

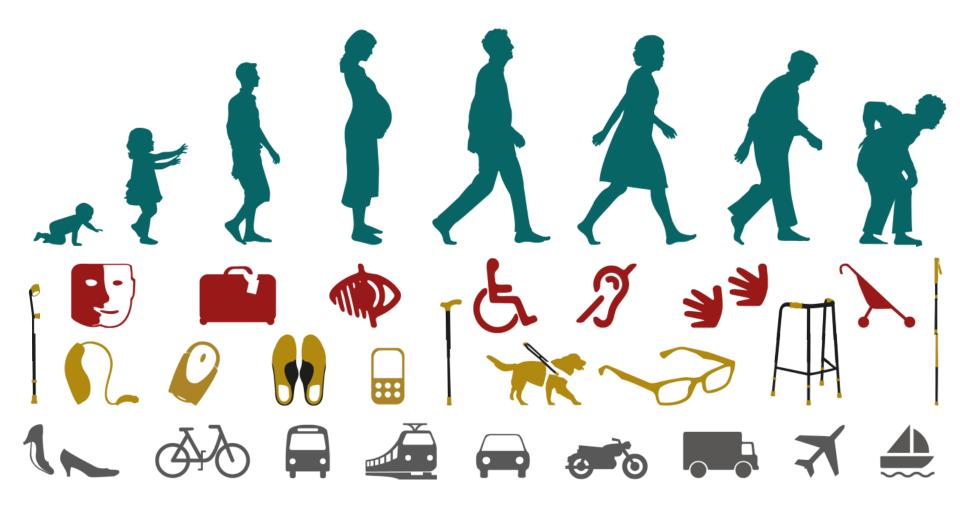


<u>Source</u> : M. FLAMM, (2004), Comprendre le choix modal : les déterminants des pratiques modales et des représentations individuelles des moyens de transport, EPF Lausanne (Suisse), 307p.

<u>Source</u>: BEROUD B., FAIVRE D'ARCIER B., MARTIN R., (2007), Model of human mind process adapted to the modal choice, article written for the MAX EU project 2007, 5 p.

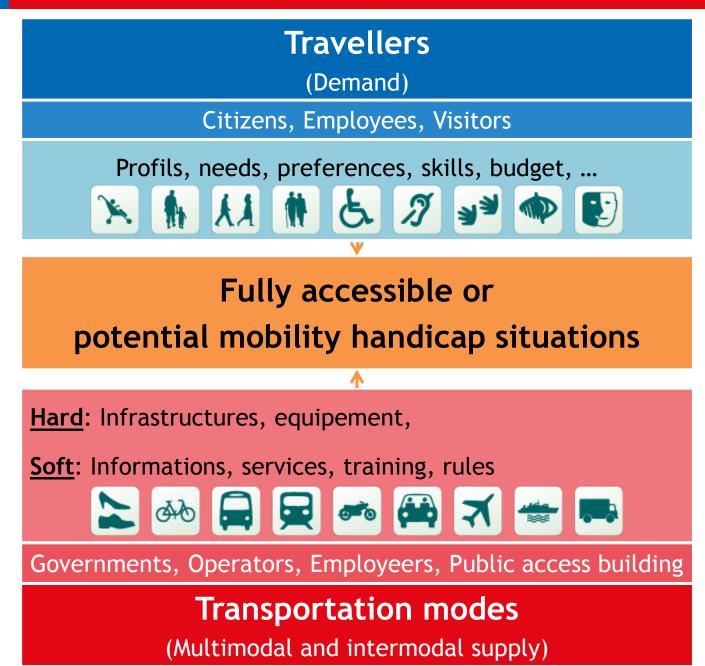


People Our common point? We are all different!



Humans Potential handicap situations Equipment aids Means of transport

People Accessibility is the Mobility Equilibrium



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Why Sustainable mobility stakes



Why Active modes compared to motorised modes

Environment	Air pollution	No emissions
	Road unsafety	Less speedy, so lower crash impact
	Ecological impact	No energy consumption than animal one
	Green house impacts	No emissions
Human	Health	Physical activity
	Equity	Cheeper to buy, to access and to practise
	Accessibility	Born to death
	Feelings	Walking is the natural way of moving
Economy	Limited raw materials	Few worldwide raw materials
	Stakeholders satisfaction	The best compromise?
	Financial equilibrium	Lower public investment
	Local jobs and activities	Promotion of short distance trips

Active modes are accessible to a wider population than other means and contribute to more egalitarian and inclusive societies On the assumption that governments act for 100 % of their cityzens, UN, European Commission, States, Region and Local governments should :

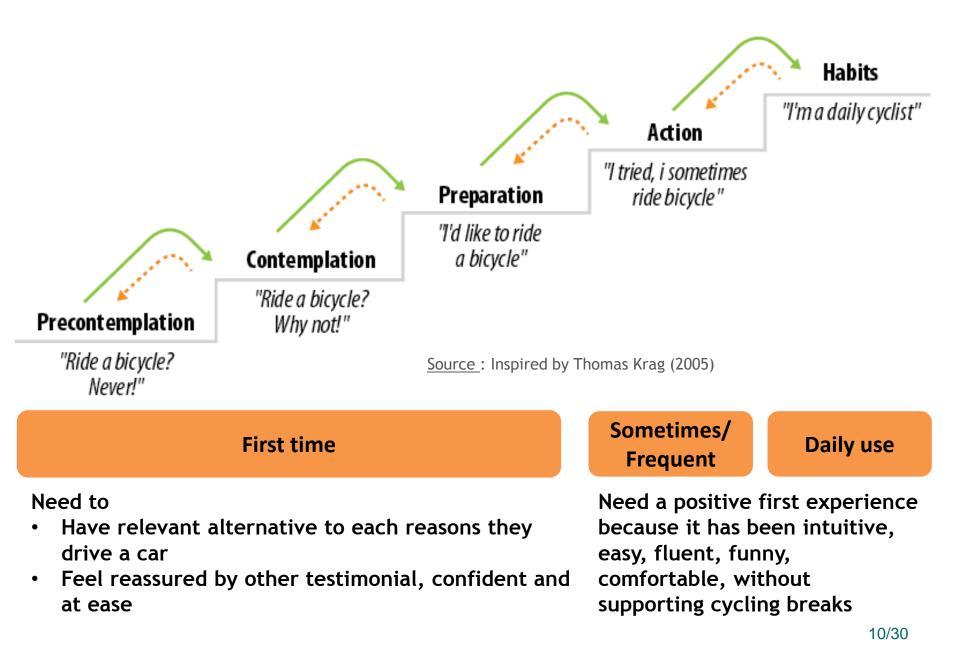
1. Plan short distance urbanism

2. Strongly regulate car use and car parking

3. Promote Multi/intermodality



Goal Change daily behaviour and modal practise



You want people to shift from car?

Provide them attractive and qualitative options through 3 concepts:

- 1. Universal Design
- 2. Quality management
- 3. Mobility Management

How 1. Universal Design concept



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To reach the largest target groups,

Consider the most strict and

challeng needs of people for who it is essential

How 1. Universal conception check-list

- 1. Respectful of diversity of users and access to all
- 2. Flexible (preferences, skills)
- 3. Simple and intuitive function (whatever experience, concentration, knowledge)
- 4. Comprehensible by anyone in live condition with clear and coherent information
- 5. Safe allowing unintended and unvolonteer use
- 6. Affordable with minimum efforts (ergonomy, intuitive) and pricing
- 7. Healthy use without impacting the user and others
- 8. Sustainable for futures generation
- 9. Appealing emotionally and socially

How 2. Implement quality policy



BYPAD is the quality process of cycling policy (<u>www.bypad.org</u>) implemented in 200 cities, regions in 24 countries

How 2.Quality process - Sustainable accessibility

ISEMC Improving seamless energy-et mobility chains for all

EU project that aims to provide better walking, cycling and public transportation conditions through accessibility



→ PRECONDITIONS User needs and involvement, Legal/administrative context, Current state Total quality management: exemplary

Integrated approach: continuity, coordination

System-oriented approach: Cooperation

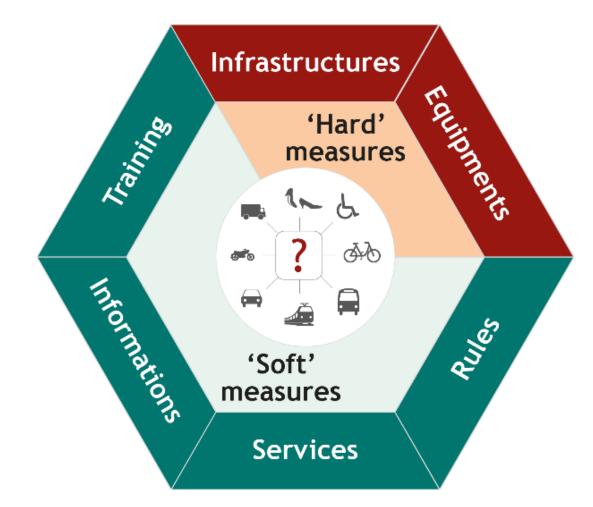
Isolated approach: start of limited cooperation and visions

Ad-hoc approach: Problem solving, individual initiatives, single projects

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How 3. Mobility management

Provide them both hard and soft measures



More about Mobility management on www.epomm.eu 17/30

Example Contrat colors for cycling spaces





Colored cross-roads/cycle paths enable people with visual impairments to perfectly identify directions and networks \Rightarrow First time skill cyclists feel more confident

 \Rightarrow First time cyclists here better understand the network

 \Rightarrow Car-drivers are more aware of cyclists, increasing safety_{8/30}

Example Cargobikes rental





Enable carrying goods and people

- \Rightarrow Avoid to buy a new car, particularly after getting the first child
- \Rightarrow Time to time solution to carry goods rather using a car
- \Rightarrow Avoid car drivers to justify their habits because they potentially once a month would may need it which generate wrong habits.

Example Flat areas





Wheel chair users can move freely on the public space without steps \Rightarrow Cyclists can move freely, as well as pedestrians, trolley users.



Color and material contrast enable to better understand the space => Less conflicts between users Colour Contrast Analyser

Example Self training with assistance





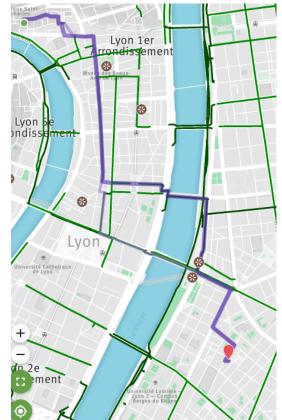
Low income can maintain their bike for a cheap price

- \Rightarrow Other cyclists can customise their bicycle and develop their cycling culture.
- \Rightarrow People gather around the bicycle and contribute to social inclusion

Example Signs and wayfinding









Reassure people who could be anxious about losing their way or who have communication issues ⇒ Other can optimise their planing and travel time



Active modes direction signs size are smaller than car signs, making more difficult to read by end-users, notably by car drivers toward a potential modal shift⁰

Example Turn-on-right at traffic lights





Elderly cyclists suffer of generalised decrease of their skills, senses and muscles. Let them benefit of their cinetic energy. ⇒ Competitive advantages to cyclists compare to car drivers

Example Enable children riding safe





If 12 years old children can bike alone in trafic, almost anyone can feel save by bike.

- \Rightarrow Parents could not justify taking their car because they have to drop their children at school.
- \Rightarrow Car drivers are likely more cyclists respectful.

Example Pictograms





People with cognitive disabilities or analphabets can recognise images

- \Rightarrow Foreigners understand better pictograms than foreign alphabets
- \Rightarrow Babies and children understand well draws.

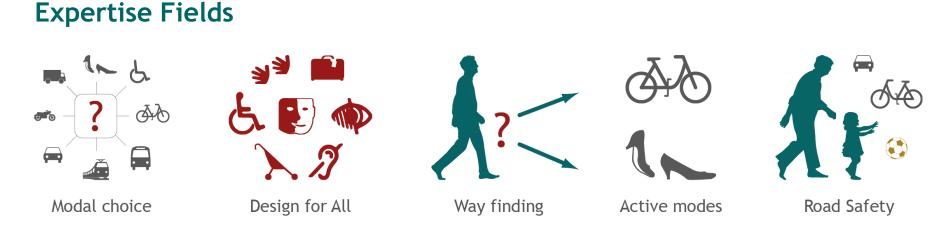


Mobility for All Consultancy

Who Mobiped, Mobility for all Consultancy

French Consultancy in Sustainable Mobility Designed for All

- BtoB guidance to improve the pleasure of moving
- Multimédias contents creatio to invite sustainable mobility behaviors



Founder: Benoît Beroud



- Mobility management expert and EU certified auditor of cycling policy (BYPAD), Accessibilité policy (ISEMOA) and SUMP (ADVANCE)
- Swiss-knife social business innovator, information designer

Who Mobiped, internationaly acknowledged



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Who Great divercity of clients







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