BEYOND SAFE: COOL ROUTES TO SCHOOL IN CHILE

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LABORATORIO DE CAMBIO SOCIAL: PARTICIPATORY ACTION RESEARCH

- Based in Community
- We look for the best in Chile and in the World (Scientific research, literature, and fieldwork)
- Choose, adapt, test, re-evaluate
- Conclude and recommend steps for escalation
- Qualitative and quantitative Research, Modeling.
TODAY: UNDERSTANDING THE HOW AND WITH WHOM

1. Why take action?
2. On what?
3. "Rutas BAKANES" (Cool Routes): What a change of name brought to us
1. ¿Why?

“The movement for healthy cities is nearly 30 years old, and the elements to transform a city into a healthy one are understood more and more every day. What we understand less, however, is how to effectively deliver its health benefits, and how to ensure that it reaches all areas in the urbanized world.

Yvonne Rydin et al. 2012
¿Is this the “Perfect Storm” that will end humanity?
Chile’s Gender Gap

Comunidad Mujer (2016)

Gender Gap (%)

53.3%

6 years  12  25  35  49  60

-3.4%
CONSEQUENCES

- If women were incorporated in the work force the regional GDP could increase in a 34%
- Without the incorporation of 70 million women in the work force in the last 20 years, we could not speak of the “economic miracle” of Latin America (CAF)
LESSONS: GENDER AND AGE ANALYSIS

- 50% of the daily trips in the most vulnerable sectors are done by walking
- 80% of these trips are made by women
- Trips characterized by “Caring for Others” equal 47% of daily trips, women are three times more likely to be doing these trips than men
- Essential: Use-of-land policies that guarantee local services for these trips (Grocery Shopping, Health Services, local bureaucracies, and others)
- Intermodal Integration: Bikes, Public Bikes, Cargo-Bikes, Rickshaws, and others... “First and last mile”
2. ¿TAKE ACTION ON WHAT?

PROBLEM AND SOLUTIONS
ELEFANT in the room: the “AUTOMOBILITY”


- It’s an industry and a financial product
- A culture and a way of Life
- A globalization based on cheap energy abuse and a devouring consumerism
- A symbol of competition and winning, a result of 50 years of intense propaganda (Like cigarettes)
VS. LIFE ITSELF
VS. SPACES FOR LIFE
VS. HABITS THAT BRING LIFE

¿Cuáles son los beneficios en salud del transporte activo?

↑ Calidad de Vida
↑ Salud Mental
↑ Vitalidad
↑ Salud General

↓ Diabetes
4 - 36%
A mayor distancia mayor beneficio

↓ Cáncer de Mama
-13%

↓ Riesgo de Mortalidad
-30%

↓ Riesgo Cardiovascular
-11%

Damian Chandia, Universidad de la Frontera
ADVERTENCIA
El uso del automóvil puede limitar el desarrollo sicomotor de sus hijos, dañar su salud y acortar su vida en 10 años, dejándole más susceptible al cáncer gástrico y del pecho, al diabetes II, y múltiples patologías cardiovasculares, por sobre todo, llenarte de una rabia corrosiva, quitarte la felicidad que mereces.

WARNING
The use of the car can limit the psychological and physiological development of your children, damage your health and cut 10 years from your life, leaving you more vulnerable to gastric and breast cancer, Diabetes II, and multiple heart problems, above all, fill you with a destructive rage, steal the happiness you deserve from your life.
ECOLOGY OF THE SUSTAINABLE TRANSPORT

- WALKING, DISTANCES OF 0-2 KM
- CYCLING, DISTANCES OF 2-8 KM
- PUBLIC TRANSPORT DISTANCES ABOVE 5KM +
- (AUTOMOVIL, distancias largas en zonas de baja densidad)
- 50% of the trips made by car are less than 5 kms long: 40 minutes Walking or 15 minutes Cycling
BIKES AND RICKSHAWS: MISSING LINK

1. Bike parking in subway stations, train stations, Intermodality
   Bogotá, Munich, Amsterdam, Santiago (La Cisterna)

2. Bike Rack on Buses
   Practically in all Canadian Cities and the United States

3. Bikes on Trains
   Europe, Valley hours Canada, EEUU

4. Bike Rental
   Holanda, Tourism

5. Public Bikes
   New York, Barcelona, México

6. Public Bikes with integrated services
   Seville, China, others.

7. Bike routes connecting bus stops, subway stations
   Holland, Denmark, Germany

8. Shared bus-bike-trolley bus
   France, Belgium, Germany, RU

9. Bike-Taxis, Rickshaws
   India, New York, London

Source: Godefrooij et al., 2009; Pucher and Buehler 2012; observations in diverse cities; presentations Velo-City conferences (2012 Vancouver, 2015 Nantes).
## Impact on Equity

<table>
<thead>
<tr>
<th>Intermodal Public Transport - Bike</th>
<th>% Earnings</th>
</tr>
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<tbody>
<tr>
<td><strong>Traveling mode of Transport</strong></td>
<td>US$400 Monthly</td>
</tr>
<tr>
<td>Option 1: Public Transport Only (subway and buses)</td>
<td>32%</td>
</tr>
<tr>
<td>Opción 2: Bike towards intermodal station, subway, bus, and public bike us at the end</td>
<td>26%</td>
</tr>
<tr>
<td>Opción 3: Own Bike, Subway or Bus, maybe a public bike at the end.</td>
<td>22%</td>
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Monthly cost of food (Two people) 29%

*Fuente: Sagaris, Tiznado y Steiniger 2016*
CICLO-INCLUSION

SEVILLA

DELHI
CICLO-INCLUSION

SANTIAGO

TAIPEI
3. RUTAS BAKANES, What a Change of Name Taught us
DEVELOPMENT OF THE PROGRAM IN A VULNERABLE NEIGHBORHOOD
Cool Routes to School

Collaboration and Empowerment for Girls

Re-signification of schools as central places for the community

Learning about Sustainable Transport
AND BEYOND:
Independencia
San Eugenio
Province of Araucanía
INNOVACION EN EL PLAN REGIONAL DE TRANSPORTE 2016-2018
UNA PIRÁMIDE INVERTIDA PROPIA...

- Peatones / Movilidad Asistida
- Ciclos
- Bicicletas - servicio
- Tren, buses, locomoción colectiva
- Transporte, taxis-colectivo
- Vehículos particulares

Prioridad espacio/sistemas
Prioridad recursos
Aplicaciones y servicios
Trabajos /Pymes
Vivir Libre del automóvil

Menos espacio vial
Menos recursos
Cambios en la propiedad, de lo individual hacia lo compartido.
COMPLETE STREETS

¿Qué Pasa con las Niñas y las Mujeres?

La Ciudad de los Automóviles

- Combate la obesidad
- Pone una gran sonrisa en tu rostro
- Amina el calentamiento global
- Reduce el riesgo de infarto
- Téjeo con piernas de acero
- No consume combustible
- Mejora tu salud y ejercita tu cuerpo
- Haces muchos amigos
- Sientes como que vuelas
- Más fácil y rápido que caminar

Bienes beneficios importantes para la salud.
LAUTARO 2019 (APOYO CORFO): C Make the challenges of the XXI century in to Opportunities

Taking advantage of ancestral, contemporary, local, and international knowledge.
THE OPPORTUNITY TO CHANGE A WHOLE CITY FOR AND BY THE KIDS

Aprovechando conocimientos ancestrales, actuales, locales & internacionales
MORE THAN PHYSICAL ACTIVITY: Acting on the SOCIAL DETERMINANTS OF HEALTH

Figure 3. The conceptual framework for the social determinants of health (WHO, 2010) identifies interactions between key spheres of action that influence health. Kool Routes programs such as those discussed here take place within the formal education system, but can incorporate important components of and changes to governance, social and public policies, gender and other forms of violence and discrimination, and influence cultural and societal values.

Social Justice
POWER: Freedom “To” and “For”
IMPROVING QUALITY OF LIFE
dysfunctional city, it’s about showing and working with the

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Obrigada
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