Accessibility Planning vs. Accessibility in Transport Appraisal

In the context of Sustainability

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Accessibility Planning

**Approach**
- Strategic Thinking / Decision Making
- Integrated / Holistic
- All Modes
- Urban Structure

**Objectives**
- Reflect on Accessibility
- Improve Sustainability
Accessibility Planning

Real Demand → Accessibility Planning → Accessibility

Derived Demand

Land Use Planning → Proximity

Mobility → Transport Planning

+ proximity HAVE - mobility NEED
- proximity + mobility
Accessibility in Transport Appraisal

- Land Use System
- Transport System
- Accessibility Tool
- Mobility
- Land Use Policy

INPUT

OUTPUT
Accessibility in Transport Appraisal

Example: Porto Metro Expansion Strategy

Improve Mobility by PT

<table>
<thead>
<tr>
<th>R Quadrado</th>
<th>R Quadrado Ajustado</th>
<th>F Ajustado</th>
<th>df1</th>
<th>df2</th>
<th>Sig. FAjustado</th>
</tr>
</thead>
<tbody>
<tr>
<td>.884</td>
<td>.878</td>
<td>142.797</td>
<td>4</td>
<td>75</td>
<td>.000</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Coeficientes não padronizados</th>
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<tbody>
<tr>
<td>B</td>
</tr>
<tr>
<td>Constante da equação de regressão</td>
</tr>
<tr>
<td>Coeficiente “População na área de influência”</td>
</tr>
<tr>
<td>Coeficiente “Emprego na área de influência”</td>
</tr>
<tr>
<td>Coeficiente “GGV na área de influência”</td>
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<tr>
<td>Coeficiente “Emprego acessível a 5.1 Km pela rede”</td>
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</tbody>
</table>
Accessibility in Transport Appraisal

Example: Cycling Infrastructure

Improve Mobility by Bike

Coverage of Cycling Infrastructure

- Actual 2018
- 1ª FASE 2022 + 180%
- 3ª FASE 2030 + 400%

Legend:
- 5 - Less than 2 min
- 4 - Between 2 and 4 min
- 3 - Between 4 and 6 min
- 2 - Between 6 and 8 min
- 1 - Above 8 min
Accessibility in Transport Appraisal

Example: Cycling Infrastructure

Improve Mobility by Bike

Relative Accessibility Car/Bike - 5min

- Acc by Car <80% Acc by Bike
- Acc by Car 80-100% Acc by bike
- Acc by Bike 80-100% Acc by Car
- Acc by Bike 40-80% Acc by Car
- Acc by Bike <40% Acc by Car
Accessibility Planning

Example: Mobility Plan for Matosinhos

Improve Sustainability
<table>
<thead>
<tr>
<th>Accessibility Planning</th>
<th>Accessibility in Transport Appraisal</th>
</tr>
</thead>
<tbody>
<tr>
<td>The use of Accessibility Measures in neither good or bad</td>
<td></td>
</tr>
<tr>
<td>To consider Sustainability</td>
<td>It is useful for Transport Appraisal – understand the potential gain (coverage, patronage, etc.)</td>
</tr>
<tr>
<td>It should reflect on relative accessibility by different transport modes</td>
<td>But it still focusses on improving mobility</td>
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<tr>
<td>It should consider action on Land Use</td>
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</tbody>
</table>

ITF meeting. Cecília Silva
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