A HOLISTIC ASSESSMENT OF INFRASTRUCTURE AND URBAN DEVELOPMENT
A CASE STUDY OF IFC ENGAGEMENT IN THE CITY OF IZMIR, TURKEY

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IFC’s partnership with Izmir spans over a decade

IFC role evolved from financing single transactions to become a trusted advisor.

Potential to inform future initiatives -> **looking forward assessment**:
1. Estimation of effects at the **city level** (not individual transactions)
2. Analysis of benefits from strategic engagement with the city
**KEY TAKEAWAYS**

Research question: **What are the city-wide impacts?**

Transport

- Investments lead to expanded transport network ops and integration -> better urban mobility.
- City level -> enhances proximity (firms, workers & services)

Water Mgt

- Significant contribution to increase accessibility to employment at the city level, a precondition to enable agglomeration benefits.
- City level -> broader connection with economic activity?

**Key findings**

1. Investments lead to expanded transport network ops and integration -> better urban mobility.

2. Significant contribution to increase accessibility to employment at the city level, a precondition to enable agglomeration benefits.

3. Positive implications: city planning and monitoring of global commitments (notably SDG- 11)

## CITY WIDE IMPACTS – METHODOLOGY

<table>
<thead>
<tr>
<th>Baseline Scenario 1</th>
<th>IFC projects Scenario 2</th>
<th>IFC + Other City Investments - 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Metro Line (Existing route)</td>
<td>Metro line + <strong>new extension</strong> (8 new stations)</td>
<td>Baseline + IFC</td>
</tr>
<tr>
<td>Izban (80km Existing route from Aliaga to Cumaovasi)</td>
<td>Same as baseline</td>
<td><strong>Izban + new extensions to Bergama and to Selçuk + new direct services added from Aliaga to Tepekoy</strong></td>
</tr>
<tr>
<td>Ferries (18 routes)</td>
<td>Baseline + <strong>added fleet</strong></td>
<td>Baseline + IFC</td>
</tr>
<tr>
<td><strong>Tramways</strong> (Konak and Karsiyaka)</td>
<td><strong>Same as IFC</strong></td>
<td><strong>Same as IFC</strong></td>
</tr>
<tr>
<td>Bus network (48 routes)**</td>
<td>Same as baseline</td>
<td>Same as baseline</td>
</tr>
</tbody>
</table>
IFC projects contributed to increase by 4% the number of jobs accessible
• 5.7% increase -> service sector

<table>
<thead>
<tr>
<th>Indicator</th>
<th>Izmir (Scenario 3)</th>
<th>New York Metro</th>
<th>Los Angeles Metro</th>
<th>Greater Buenos Aires</th>
<th>Greater Cairo</th>
</tr>
</thead>
<tbody>
<tr>
<td>% Total jobs accessible within 60 mins</td>
<td>12%</td>
<td>14%</td>
<td>6%</td>
<td>34%</td>
<td>15%</td>
</tr>
</tbody>
</table>

<table>
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<tr>
<th>Measure</th>
<th>Scenario 1</th>
<th>Scenario 3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number of jobs accessible to all residents within 60 mins</td>
<td>79,239</td>
<td>84,555</td>
</tr>
<tr>
<td>% of total jobs in the City that are accessible within 60 mins</td>
<td>10%</td>
<td>12%</td>
</tr>
</tbody>
</table>

Positive results when compared with highly dense Cities with better infrastructure
**KEY TAKEAWAYS**

**Key findings – transport:**

1. Evidence of significant IFC contributions to city wide impacts:
   a. 4% increase in number of accessible jobs, notably services.
   b. A citizen in Izmir will reach 12% of available jobs, similar to other mega cities.

2. Positive implications: city planning and monitoring of global commitments (notably SDG- 11)

3. Limitations: agglomeration effects constrained by data granularity/access:
   a. Productivity effects -> firm level data (GVA) -> neighborhood/district level
   b. Firms agglomeration -> data on investment patterns at district level

**Lessons learned on methodology**

1. Tool -> simple and leverages open, and standardized data (Open street map, GTFS).

2. Method -> Bertraud indicators useful to compare effectiveness of transport investments, and measure city wide effects.

**Key findings – water management:**

1. Evidence of how to operationalize circular economy concepts:

   [https://www.youtube.com/watch?v=Npfy6zLeYyI](https://www.youtube.com/watch?v=Npfy6zLeYyI)
THANKS

Q&A

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