## CHECKLIST: ROAD INFRASTRUCTURE INVESTMENT AND ECONOMIC DEVELOPMENT IMPACTS

Key:  
Yes ✓ 
NO X  

1 **STUDY AREA**

1.1 Is the study area described?  

1.2 Is a distinction made between direct project influence and external area or sub area consequences?  

1.3 Is the purpose of the study described?  

2 **ROAD AND TRANSPORT NETWORK ANALYSIS**

2.1 How is the road project defined?  

- a specific scheme described  
- a specific scheme quantified  
- a broad type of project  

2.2 What justified the road project?  

- road capacity and congestion problems (general)  
- future development  
- other considerations  

2.3 Are there direct road user cost savings or benefits measures?  

- no quantified measure  
- road users costs savings  
- other savings  

2.4 Transport network performance  

- analysed  
- not analysed  

3 **ECONOMIC IMPACTS**

3.1 What economic indicators were used?  

- income  
- employment  
- new development/investment  
- final good prices and production  
- value added  
- consumer surplus
### 3.2 Modelling methodology
- applied
- population
- consultants’ own qualitative assessment
- interviews with experts
- ad hoc quantified growth assumptions
- microeconomic partial equilibrium model
- macroeconomic general equilibrium model
- macroeconomic model
- dynamic land-use/transport model
- input-output model

### 3.3 Linkage between road investment and economic development based upon
- evidence in literature survey
- anecdotal evidence
- economic framework/collaboration

### 3.4 Time scales over which impacts were considered
- not specific
- specific time scales

### 4 INDIRECT IMPACT: SPATIAL DISAGREGATION

#### 4.1 Level of spatial disaggregation
- none
- ad hoc site identification
- coarse zoning
- fine zoning

#### 4.2 Has the real estate market in the area been analysed?
- market demand for specific land uses
- market travel in road estate
- not considered

#### 4.3 Have displacement effects been considered?

### 5 BENEFIT CALCULATIONS
5.2 Has the issue of double-counting been addressed?

5.3 Are there additional benefits?
ANNEXURE B
<table>
<thead>
<tr>
<th>LEVEL OF SERVICE</th>
<th>TOTAL DELAY (seconds per vehicle)</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>10</td>
</tr>
<tr>
<td>B</td>
<td>20</td>
</tr>
<tr>
<td>C</td>
<td>30</td>
</tr>
<tr>
<td>D</td>
<td>50</td>
</tr>
<tr>
<td>E</td>
<td>70</td>
</tr>
<tr>
<td>F</td>
<td>&gt; 70</td>
</tr>
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