

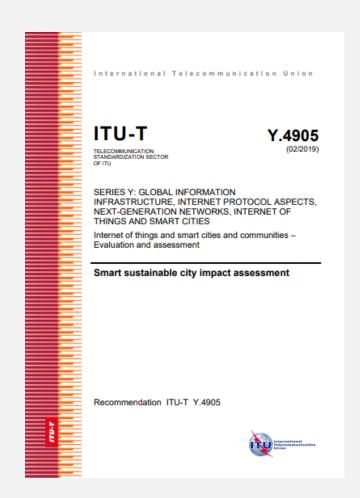


Smart Sustainable City Impact Assessment



Question 7 of ITU-T Study Group 20

Evaluation and assessment of Smart Sustainable Cities and Communities





What is Impact Assessment

International Association for Impact Assessment (IAIA) defines impact assessment as:

"the process of identifying the future consequences of a current or proposed action"



Impact Assessment and its Usage

Impact assessment can be utilized by:



cities and municipal administrations, including the SSC-relevant policy-making organizations, and government sectors, enabling them to understand the direct and indirect impacts of their SSC initiatives;



city residents and non-profit citizen organizations, enabling them to understand the farreaching consequences of their SSC initiatives and project;



city administrators to determine appropriate trade-off between different options and also for decision making;



private sector organizations to align with SSC initiatives' intended consequences and impacts and to contribute to them in terms of implementation and/or financing where possible.



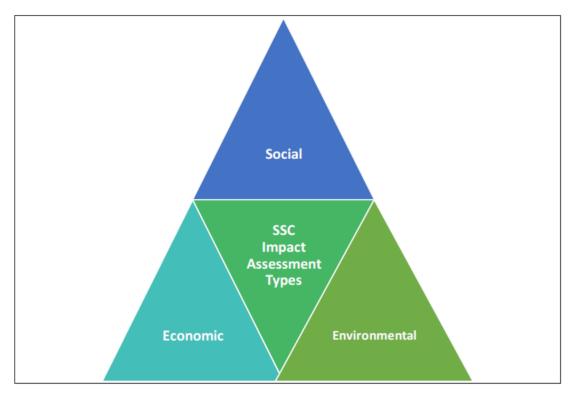


Figure 1 – Smart Sustainable City Impact Assessment Types



Social Impact

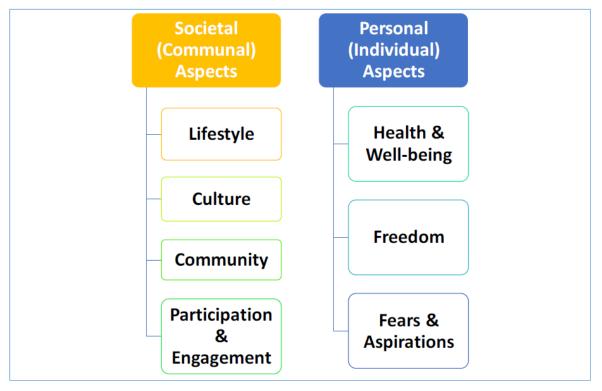


Figure 2 – Potential Social Impact Areas



Economic Impact



Business or economic output



Value added or city GDP



Wages and salaries



Job and labor force



Tax revenues among others

- Leontief Input Output Model
- Top-Down Econometric Model



Environmental Impact





Impact Evaluation and Mitigation



Accept potential impact



Reduce adverse impacts where feasible



Monitor impacts



Avoid Impacts



Scoping Boundaries for Impact Assessment

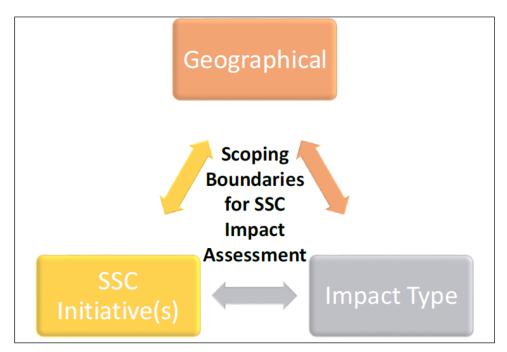


Figure 4 - Scoping Boundary Types for SSC Impact Assessment





