

### Subject & Research Question

#### Relevance

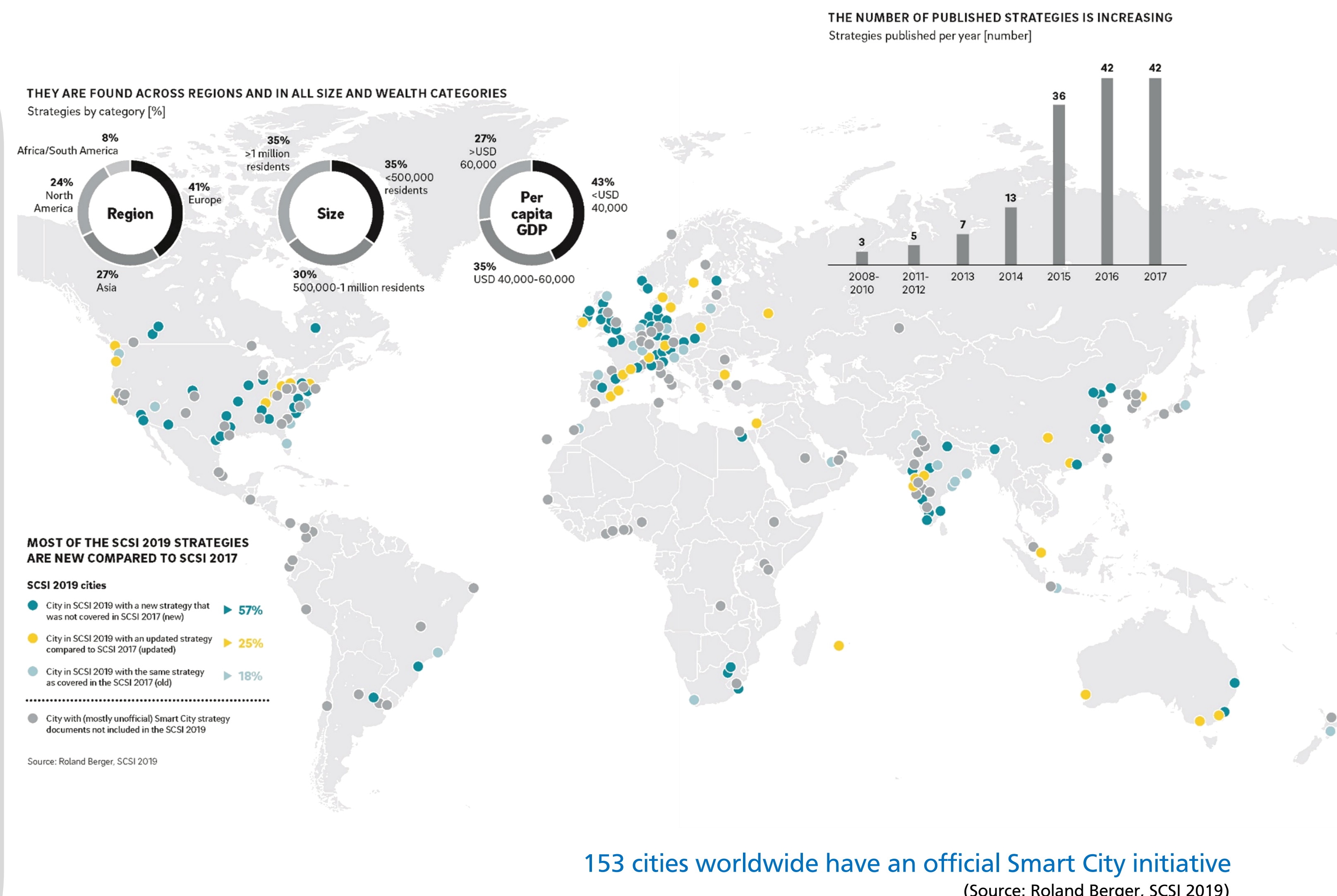
- The Smart City concept has attracted world interest over the last two decades. 153 cities worldwide have an official Smart City initiative (SCI). Smart City initiatives are a key to evaluate digital transformation.
- ICT is a key infrastructure in these initiatives and in crises situations. ICT is a distinct infrastructure as it links other infrastructures to each other and at the same time also links technology to people.
- Singapore is chosen as one of the case-studies as it is one of the pioneers in this field and India introduced a tailored approach to suit its social, political and economic conditions.

#### Research Objectives

- To specify how social dimensions are considered in Smart City initiatives in Singapore and India
- To outline the impact of Smart City initiatives on social resilience

#### Research Questions

- Do Smart City initiatives raise the social resilience of the transforming city?
- What role do social and cultural conditions play in the context of these initiatives?
- How do these initiatives affect the resilience and vulnerability of city societies?



### Methods

#### Mixed method Design

##### Case-study research

- Singapore and India having varied economic, political, social and geographical conditions, will be studied by different methodologies

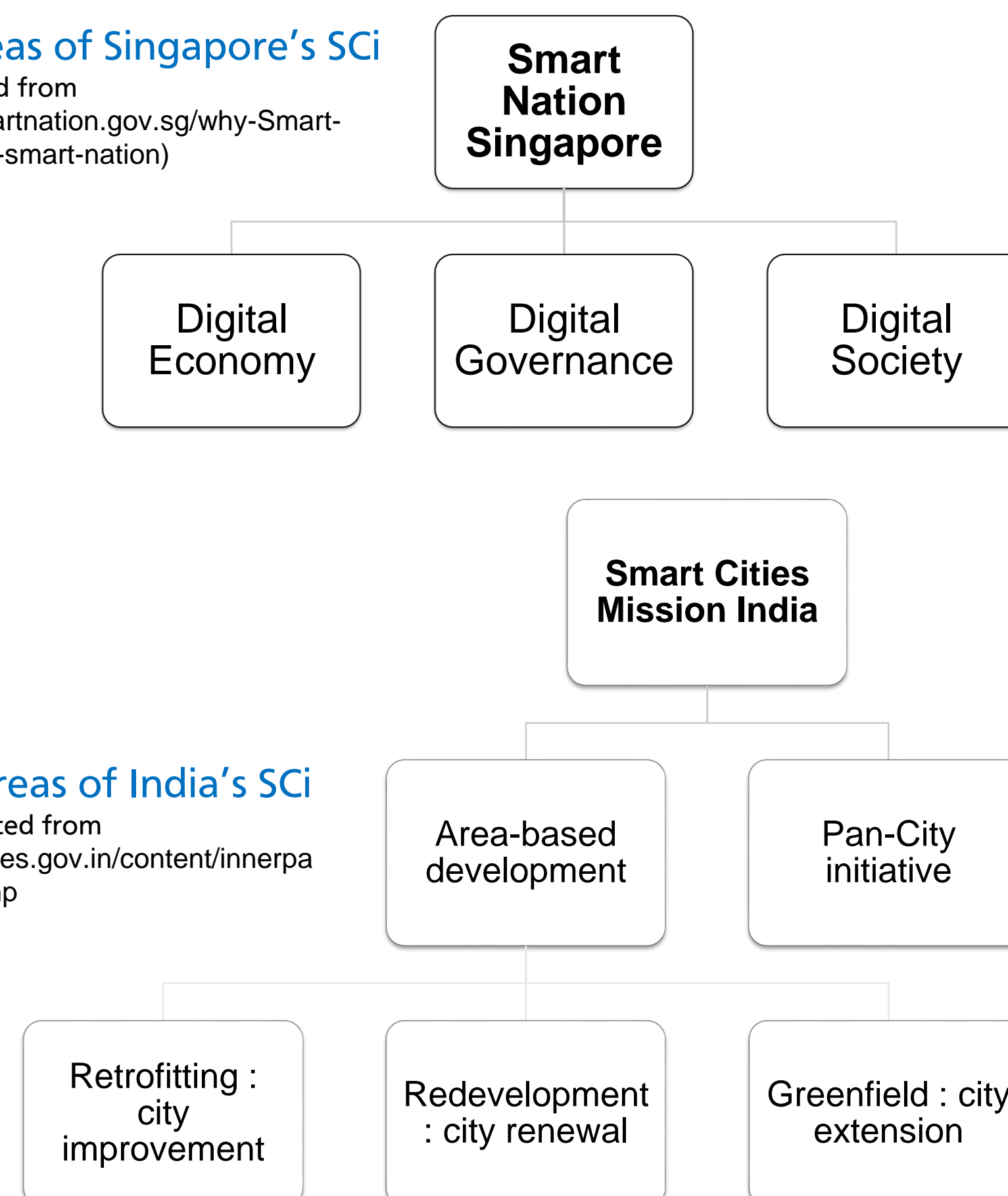
##### Primary Data

- Expert Interviews (in Singapore and India)
- Online community surveys (in India) to evaluate the smart city initiatives

##### Secondary Data (Desk Review)

- Academic Papers
- Government Documents
- Websites

Subject areas of Singapore's SCI (Source: adapted from <https://www.smartnation.gov.sg/why-Smart-Nation/pillars-of-smart-nation>)



Subject areas of India's SCI (Source: adapted from <http://smartcities.gov.in/content/innerpage/strategy.php>)

### Interim Results

- Smart City initiatives are not technology-driven, rather based on political agendas (Study conducted in India in 2016)
- Smart Cities initiatives demonstrate strategies to integrate services into daily routines of the citizens based on the socio-cultural factors of the particular city (Study conducted in India in 2016 and personal observation in Singapore from 2014 – 2019)
- Smart City initiatives do not seem to meet their goals to reach the beneficiaries (Pre-test conducted in May 2020 through online community surveys in India)

### Cooperation & Highlight

#### Interdisciplinary working groups within KRITIS

- Global South and Concepts of Infrastructure

#### Collaboration with EmergenCITY lab

- Collaboration with colleagues from the EmergenCITY lab to produce possible papers

#### Organisation Group for International Conference

- Transformation processes of technical systems

My Highlight in the KRITIS Program: The exchange with Mercator Fellow Dr Leon Hempel

### Integration into the Research Programme

#### Resilience and Vulnerability

- ICT infrastructures increase resilience and at the same time also increase vulnerability. The project will demonstrate the need to adapt ICT incorporation in Smart City initiatives as per the socio-cultural context.

#### Transformation

- Smart City initiatives are leading to the transformation of our cities into digital cities. This also transforms the society. The project aims to study infrastructures as socio-technical systems.

#### Time and Spatial reference

- Highlights the role of contextual specificity in the formulation of Smart City initiatives

My future contribution to KRITIS : empirical research to strengthen the concept of infrastructures as socio-technical systems