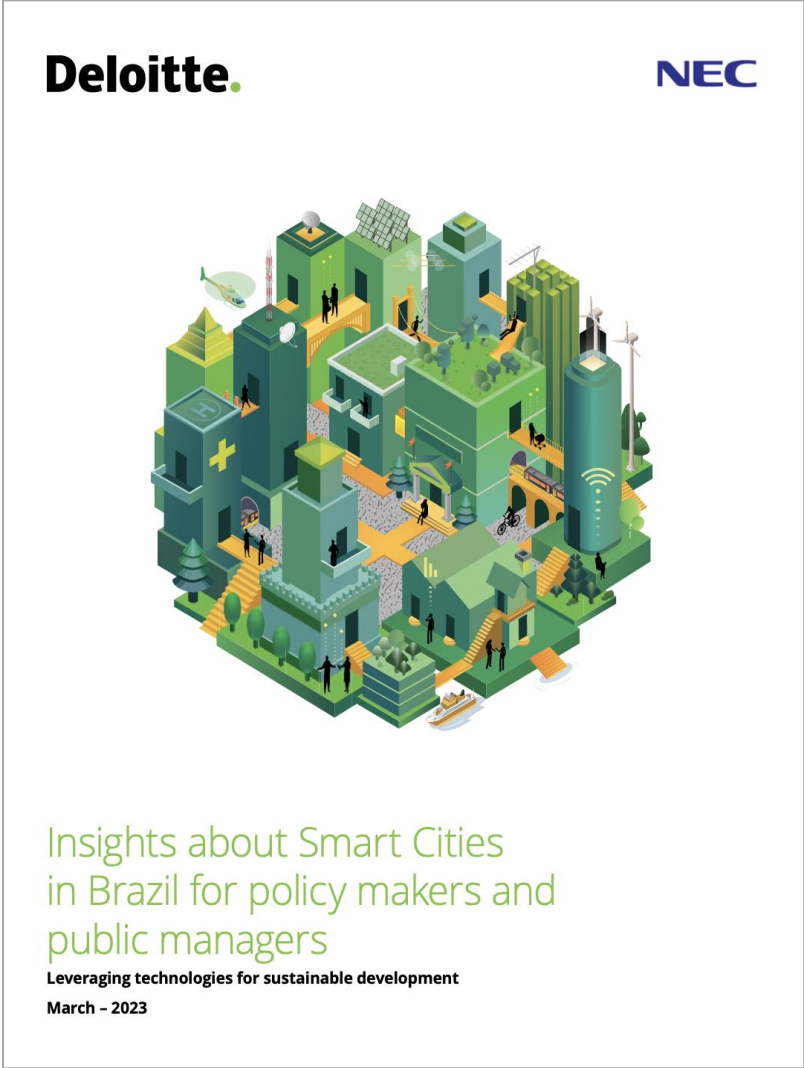


Insights about Smart Cities in Brazil for Policymakers and Public Managers

Leveraging technologies for sustainable development



About the Report



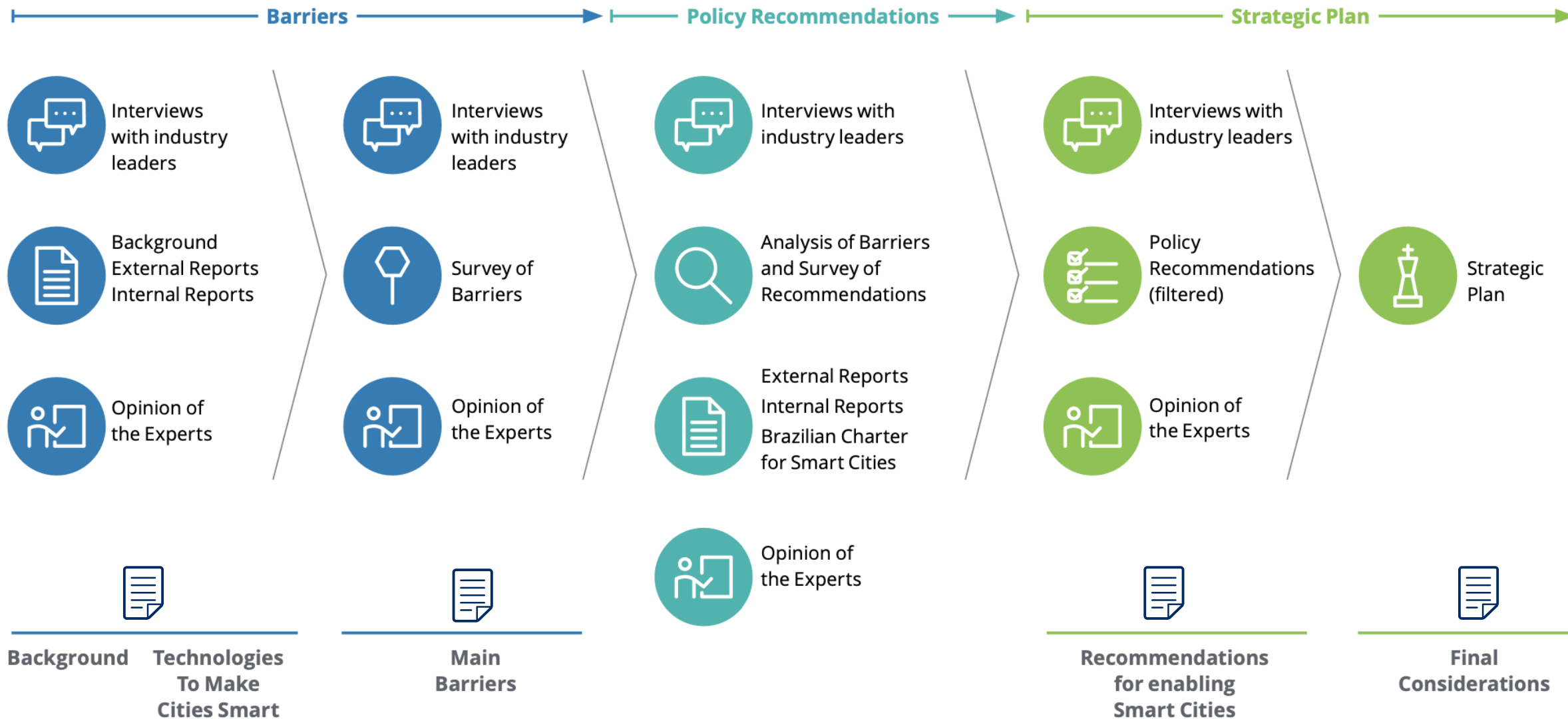
Insights about Smart Cities in Brazil for policy makers and public managers | Leveraging technologies for sustainable development

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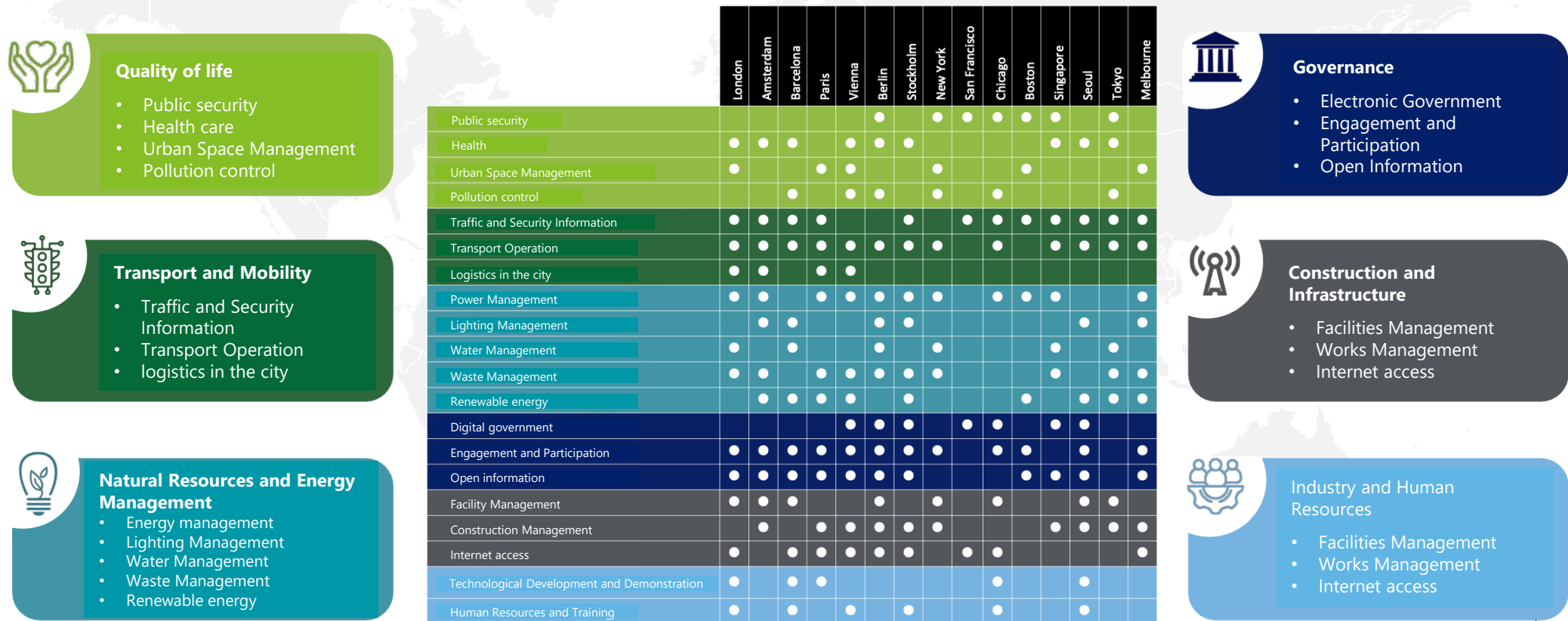
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Methodology



Smart Cities in the world

- ◆ With an additional 2.5 billion people expected to live in cities by 2050, governments around the world are looking to city-level solutions to city-level problems.
- ◆ Considering the sample below, among the most adopted services are: Traffic Operations, Traffic Information and Open Data & Digital Documents



Source: IEEE Access - Regional Smart City Development Focus: The South Korean National Strategic Smart City Program

12 Smart Cities trends

◆ This is how we see cities emerging from the pandemic.



Security and predictive policing through AI



City operations through AI



15 Minute City



Mobility: intelligent, sustainable, and as a service.



Smart health communities



Digital innovation ecosystem



Green planning of public spaces



Circular economy & producing locally



Smart & sustainable buildings & infrastructure



Mass participation



Inclusive services and planning



Cybersecurity and privacy awareness

Source: <https://www2.deloitte.com/global/en/pages/public-sector/articles/urban-future-with-a-purpose.html>

Sample of the Problems of Brazilian Cities

- ◆ Today in Brazil there are more than 210 million people and 84% live in urban areas of more than 5570 cities. The metropolization and densification of cities brought several problems, such as urban mobility, public safety, public lighting, and public health, among others.



Priorities in Latin American Cities

- ◆ From the third edition of the IMD-SUTD Smart City report (2021), in research involving ranked Smart cities around the world, a list of 15 indicators was used, and respondents were asked to select 5 that they perceived as the most urgent for their city. Cities in Latin America pointed out the main problem to be solved: Security and Health Services.



Bogotá

(116 ▼ -24)

74%

Security

44%

Health Services

Buenos Aires

(98 ▼ -10)

77%

Security

54%

Health Services

Cidade do Mexico

(108 ▼ -18)

86%

Security

57%

Health Services

Rio de Janeiro

(102 ▼ -16)

87%

Security

76%

Health Services

São Paulo

(100 ▼ -17)

71%

Security

70%

Health Services

Santiago

(91 ▼ -19)

63%

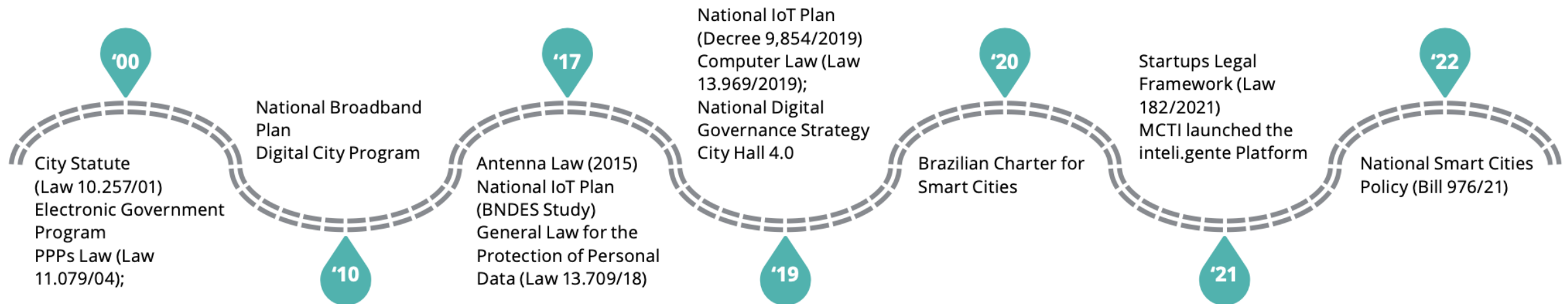
Security

61%

Health Services

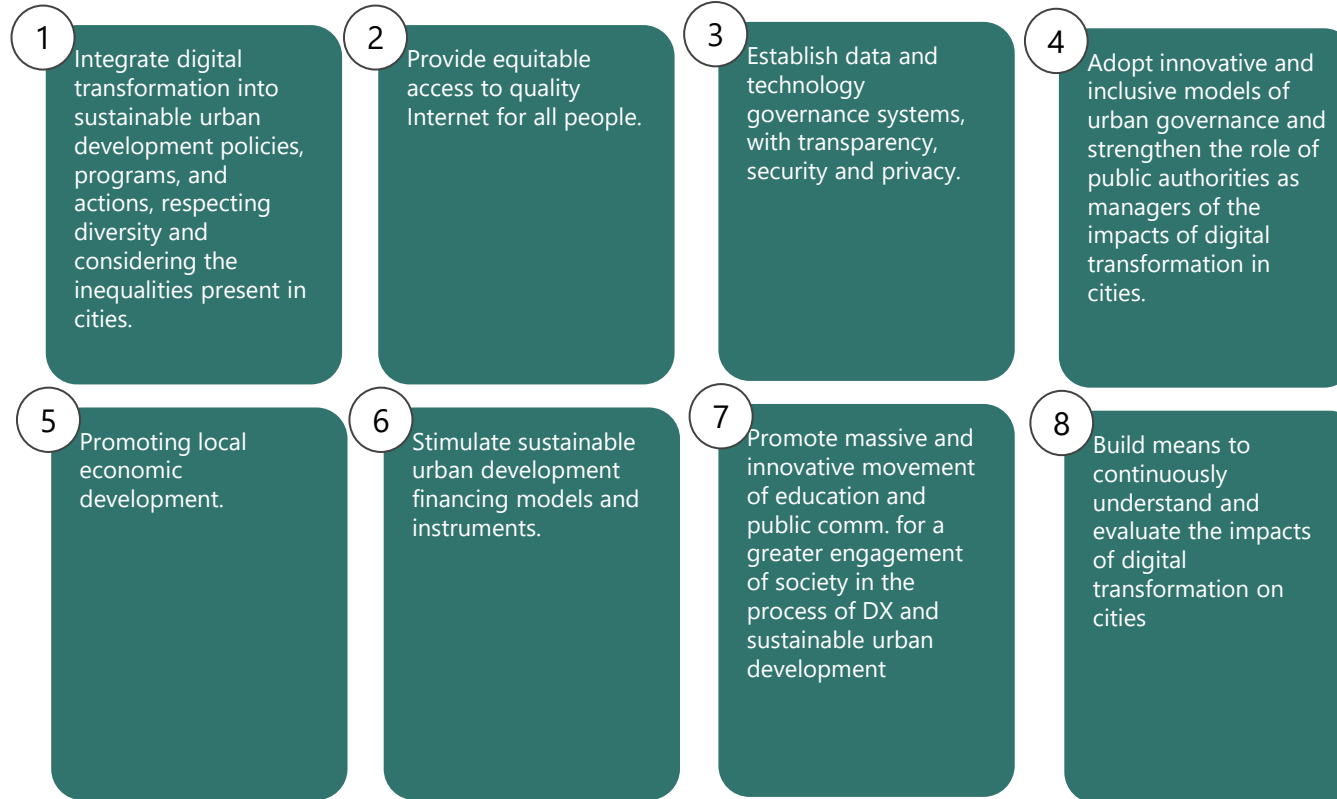
Summary of Policies for Smart Cities in Brazil

- ◆ In Brazil, the theme of Smart Cities is not new, with policy formulations for the feasibility of projects on the agenda for some decades and important initiatives, such as the Statute of Cities, the Law of PPPs, the National IoT Plan, the Brazilian Charter/Letter for Smart Cities, Legal Framework for Startups, National Policy for Smart Cities, among other important ones.



Brazilian Charter for Smart Cities

Eight Strategic Objectives



Source: <https://www.gov.br/mdr/pt-br/assuntos/desenvolvimento-urbano/carta-brasileira-para-cidades-inteligentes>

Barrier Analysis

- ◆ Barriers were grouped in a simplified way into 5 themes organized according to their nature, barriers of political-administrative order; knowledge and training; economical; legal, or technological.

BARRIERS GROUPED INTO 5 THEMES

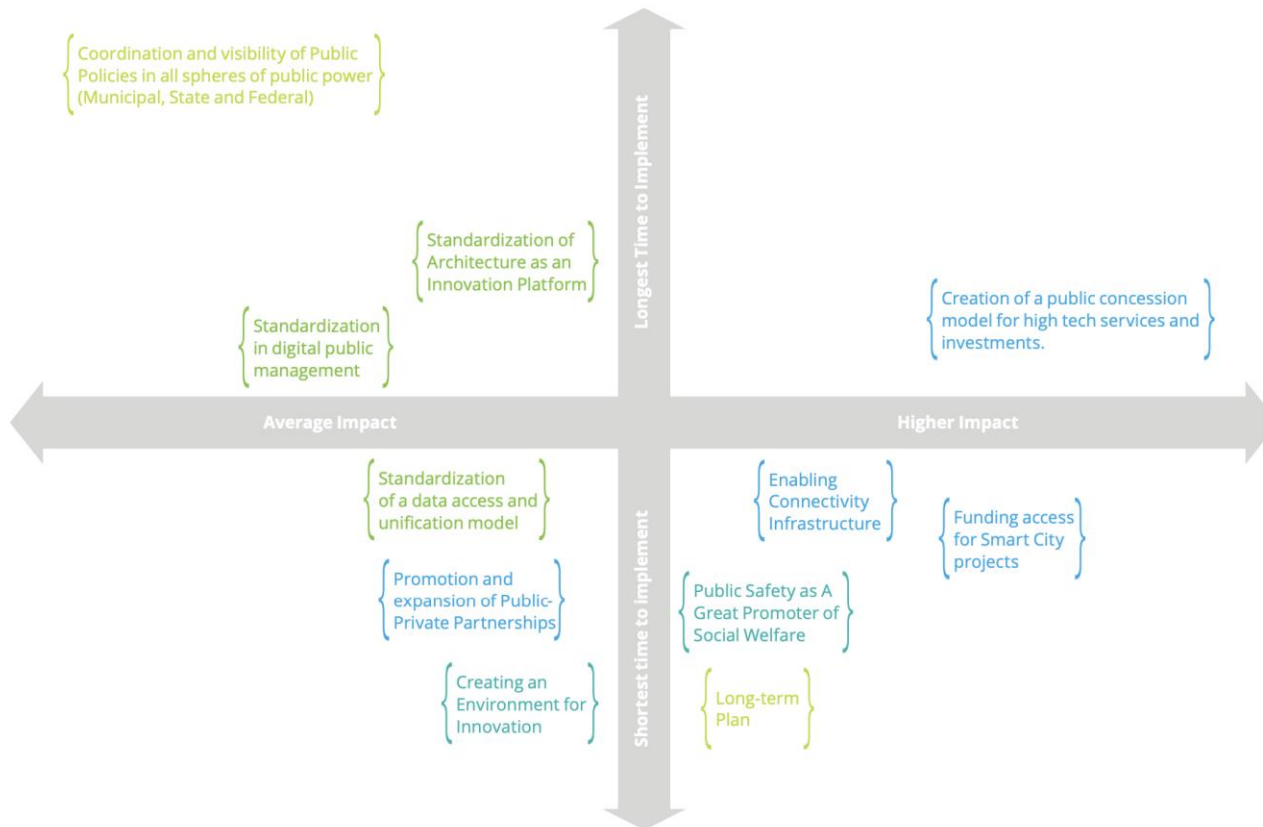


Lack of industry advocacy

Analysis and suggestions for Coordinated Actions and Policies

- ◆ In that section Deloitte focused on 11 prioritized recommendations based on the opinions from interviewees, CBCI, and specialists, but also that favor the development of ICT applications and associated investments.
- ◆ They were then analyzed considering the complexity and time of implementation.

ANALYSIS OF RECOMMENDATIONS ACCORDING TO IMPACT AND COMPLEXITY



PRIORITIES –TO IMPLEMENT THE RECOMMENDATIONS (STEPS)

Based on greater impact and less complexity

- | | |
|---|--|
| 1 | <ul style="list-style-type: none"> • Long Term Plan • Access to funding for Smart Cities projects • Public Security as a Great Promoter of Social Welfare • Enabling infrastructure for connectivity |
| 2 | <ul style="list-style-type: none"> • Creation of a public concession model for high-technology services and investments • Creating an Environment for Innovation and Capacity • Promotion and expansion of PPPs • Standardization of the access model and data unification |
| 3 | <ul style="list-style-type: none"> • Standardization of Architecture for Smart City as an innovation platform • Standardization in digital public management. • Coordination and visibility of Public Policies in all spheres of public power (Municipal, State, and Federal) |

Importance of Choosing the Right Platform

- ◆ The solution must transversally support Smart City services based on ICT, guaranteeing open and interoperable interfaces, and common access to data to optimize investments and assets and to bring synergies between services and innovation.



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