



2nd Brazil Japan Meeting for Cooperation on Infrastructure

Smart Sustainable Cities in Brazil

Investment Opportunities and Methodology

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Secretary of de Telecommunications

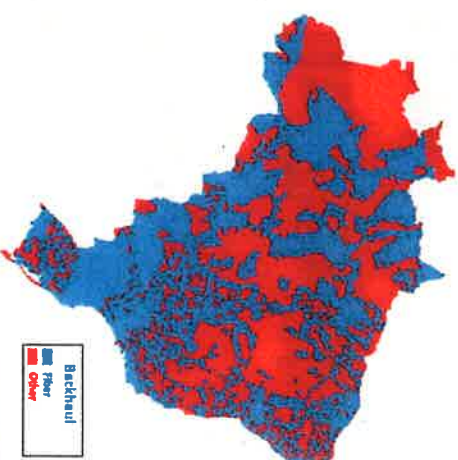
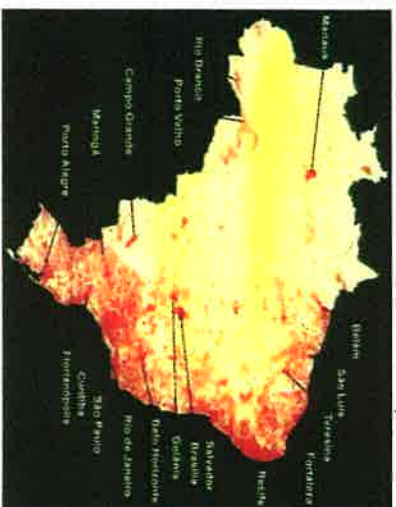
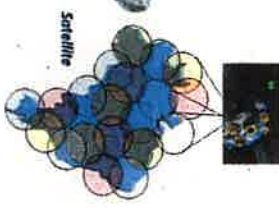
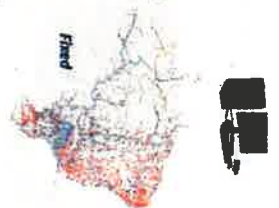
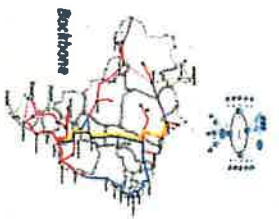
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Brazil in numbers:

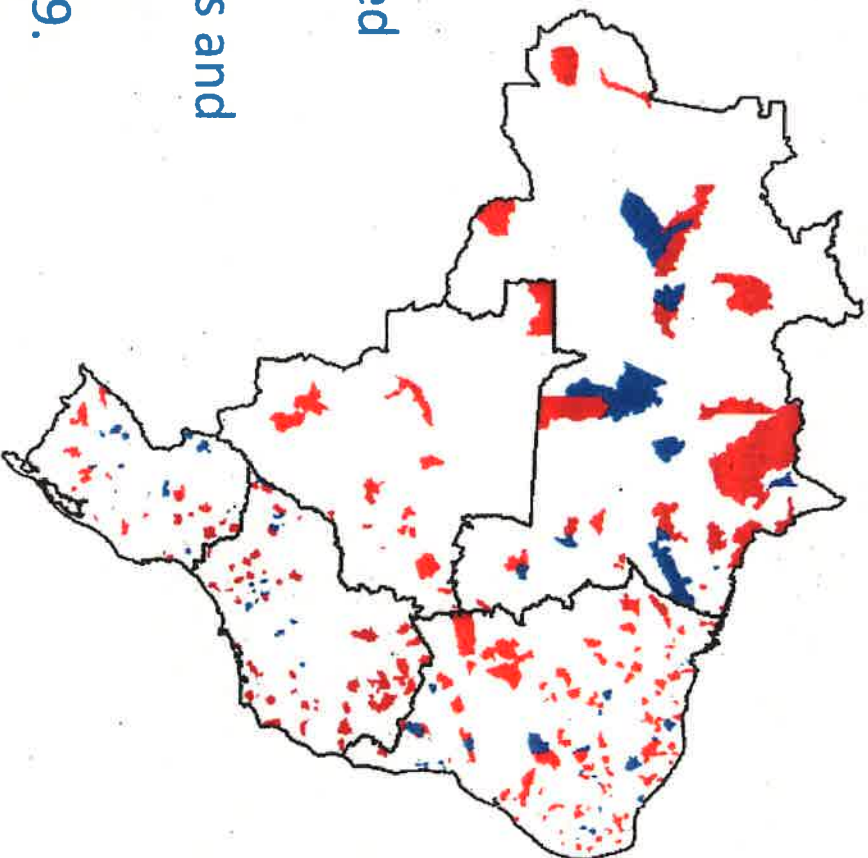
- Population 210 Million (May 2019).
- 5.570 municipalities .
- Broadband Infrastructure:
 - Fixed (in service) = 32M (cable/xdsl/fiber) -> 43% of domiciles
 - Mobile (in service) = 186M (3G/4G) -> 99% / 93% pop. coverage
- Broadband Uptake:
 - Fixed + Mobile (active online) = 75% of domiciles
 - Smartphone = 66% of population



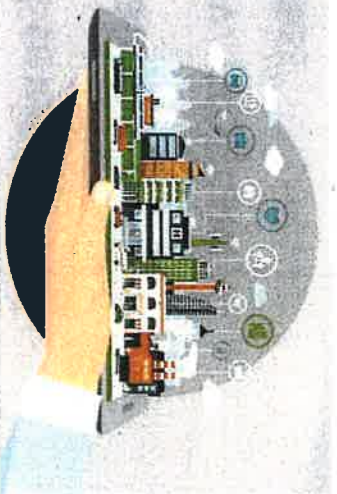


Cidades Digitais

- ✓ Existing Program (since 2012)
- ✓ 139 selected municipalities received investments in Optical Fiber Rings.
- ✓ Aimed at increasing Internet access and the provision of digital services.
- ✓ Additional 78 municipalities in 2019.
- ✓ Will be replaced by new program: “Smart Sustainable Cities”



Programa Brasileiro para cidades inteligentes Sustentáveis



✓ ITU-T Recommendations:

- Smart Sustainable Cities Maturity Model.
- Assessment Framework for Digital Transformation of Sectors in Smart Cities.



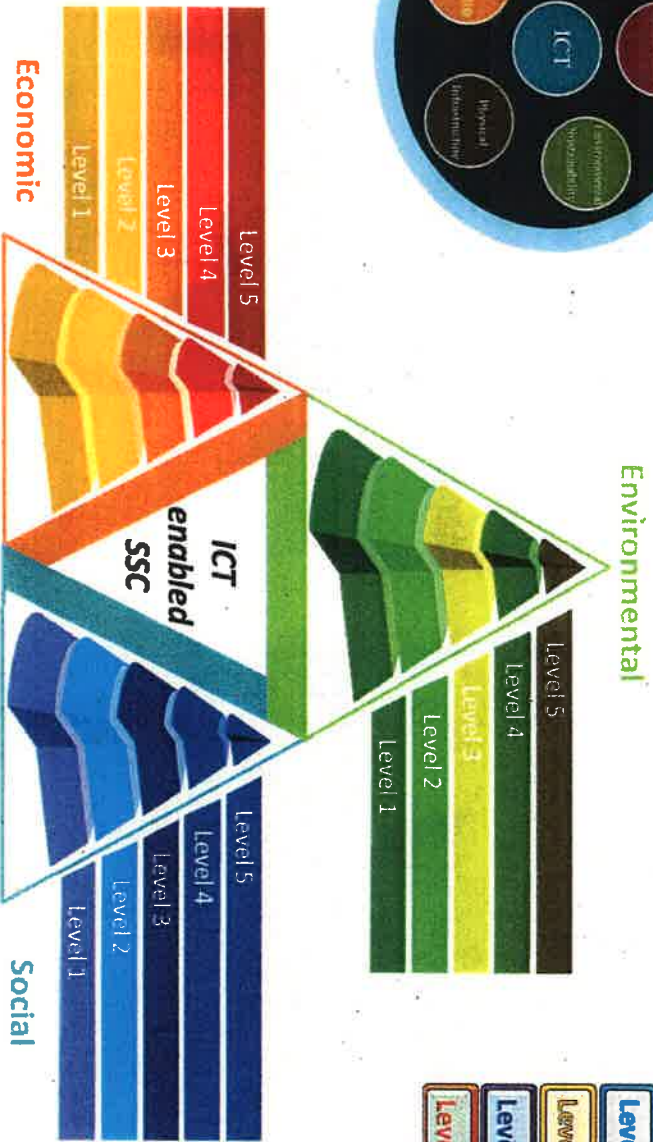
✓ Definition:

"A smart sustainable city is an innovative city that uses information and communication technologies (ICTs) and other means to improve quality of life, efficiency of urban operation and services, and competitiveness, while ensuring that it meets the needs of present and future generations with respect to economic, social, environmental as well as cultural aspects".



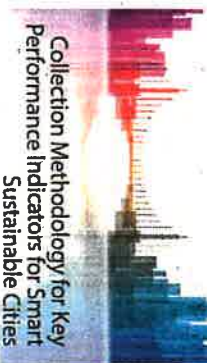


SMART SUSTAINABLE CITIES MATURITY MODEL

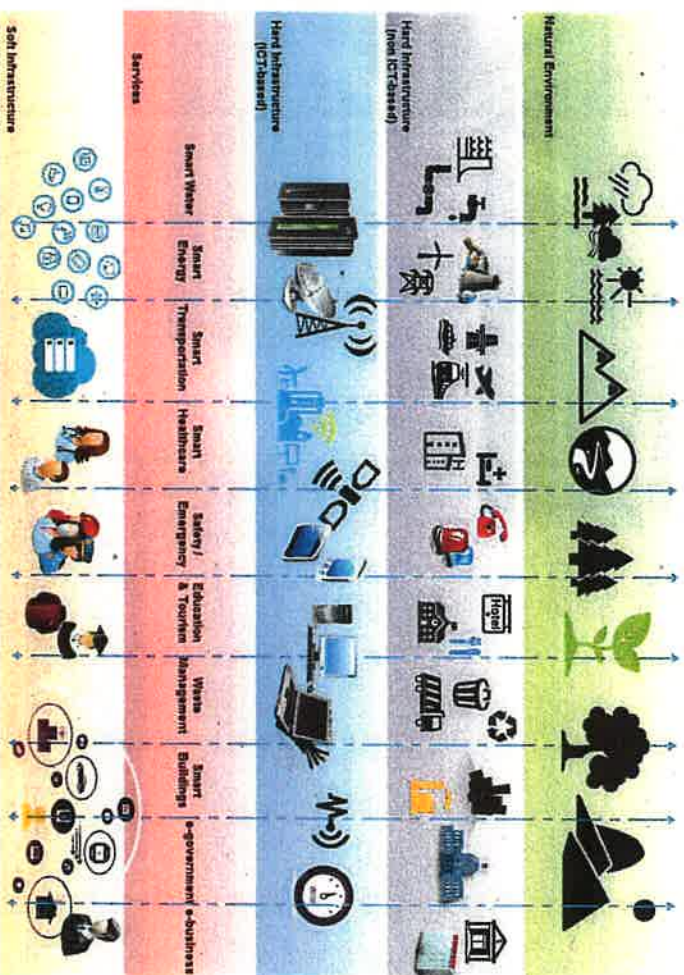


- Level 5 Continual Improvement
- Level 4 Integration
- Level 3 Deployment
- Level 2 Alignment
- Level 1 Planning

SMART SUSTAINABLE CITIES KEY PERFORMANCE INDICATORS



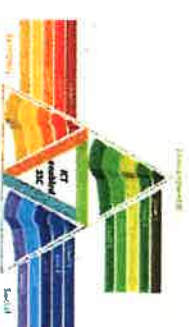
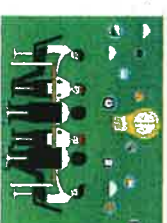
- ✓ ITU-T has developed a set of key performance indicators (KPIs) to assist cities in integrating ICT services into their existing urban operations.
- ✓ These KPIs provide cities with a credible monitoring system for their smart city transitions.



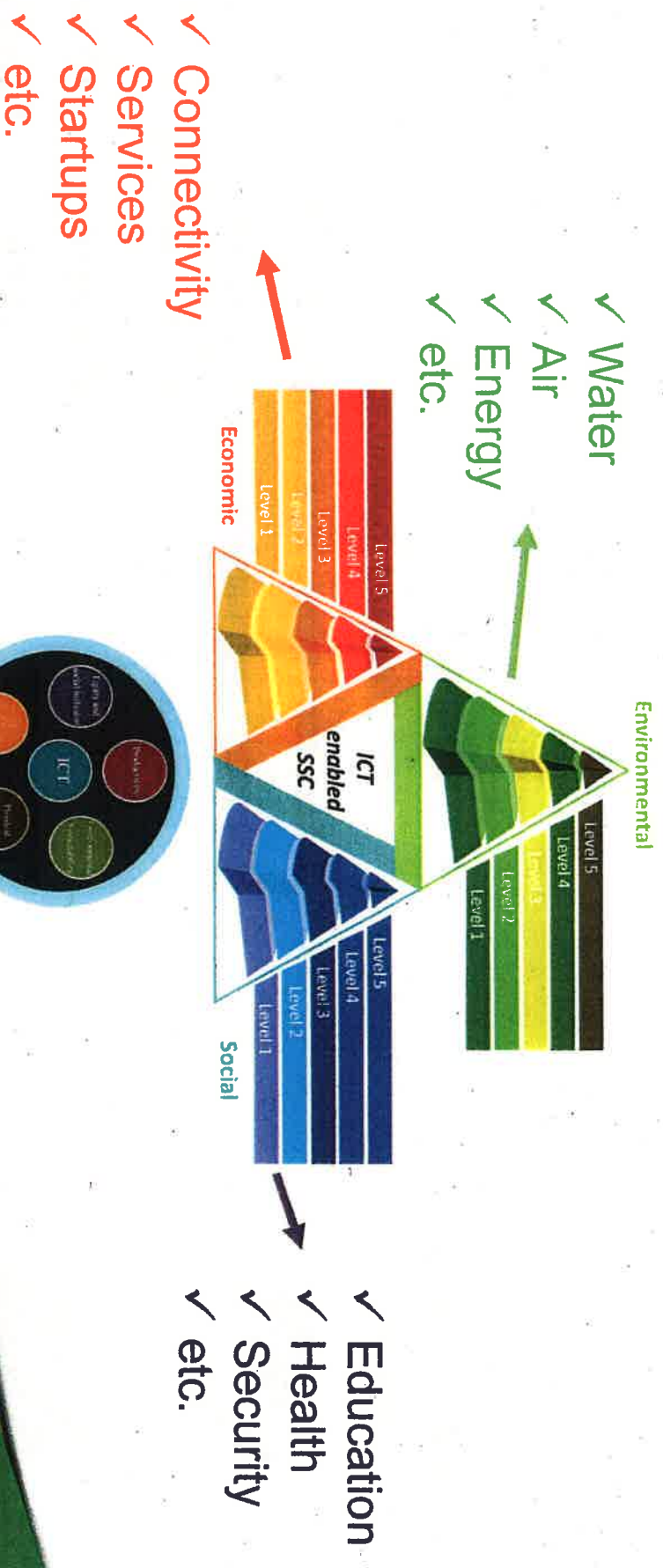


Brazil Roadmap:

- Governance Instance (*Chamber for Smart Sustainable Cities*)
- Policy for Smart Sustainable Cities (*Decree*)
- Selection of Indicators for Smart Sustainable Cities
- Assessment Framework Leveling
- National Strategy for Smart Sustainable Cities:
 - ✓ Implementation.
 - ✓ Maturity Model for Smart Sustainable Cities.
 - ✓ Certification of Smart Sustainable Cities.



SMART SUSTAINABLE CITIES STRATEGY IMPLEMENTATION



Thank you!

Questions?

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