

DEVELOPING INSTITUTIONAL CAPACITIES IN DIGITAL TRANSFORMATION FOR A MORE INCLUSIVE & EQUITABLE RECOVERY

SESSION 2: MEASURING NATIONAL AND LOCAL ONLINE PUBLIC SERVICES PROVISION

Alexandre Barbosa December 14th, 2020



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Regional Center for Studies on the Development of the Information Society under the auspices of UNESCO





ABOUT CETIC.br

The Regional Center for Studies on the Development of the Information Society (Cetic.br) has the mission of producing ICT statistics.



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1. KNOWLEDGE CENTER ON ICT-DATA PRODUTION



- ICT public statistics
- Statistics for the SDGs
- Disaggregated data
- Qualitative studies



2. CAPACITY-BUILDING
METHODOLOGIES FOR THE
PRODUCTION AND USE OF ICTSTATISTICS



3. LABORATORY OF IDEAS & METHODOLOGICAL INOVATION



4. MEASUREMENT OF IMPACTS OF ICT IN SOCIETY, PRODUCTION OF STRATEGIC RECOMENDATIONS & POLICY BRIEFS

ANOS ANOS PESQUISAS TIC 15 Years ICT Surveys

ICT SURVEYS & STATISTICS PRODUCTION IN BRAZIL

INTERNATIONAL METHODOLOGICAL FRAMEWORKS















- Households
- Children & Youth
- Education
- Health
- Enterprises

E-government



- Cultural Facilities
- Non-Governmental
 Organizations
- Internet Service Providers
- Public Access Centers

DESIGN & MONITORING: NATIONAL ICT POLICIES AND INTERNATIONAL AGENDA



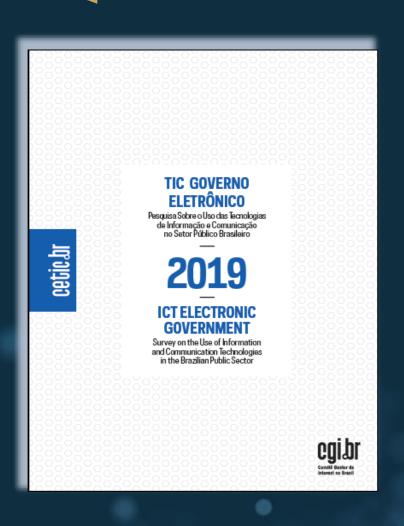


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ICT ELECTRONIC **GOVERNMENT SURVEY IN BRAZIL**



- Federal, State and **Local Government** Levels
- Executive, Legislative and Judicial branches and the Public Prosecutor's Office



A. ICT Infrastructure



B. Digital Governance



C. Electronic Services



D. Access to Information



E. Participation



F. ICT & Urban Management



Available for download at: https://www.cetic.br/media/docs/publicacoes/2/20200707094309/tic_governo_eletronico_201 9_livro_eletronico.pdf

DIGITAL POLICY PRIORITIES: CHALLENGES FOR MEASURING DIGITAL TRANSFORMATION

DIGITAL POLICIES DEVELOPMENT

EXISTING DATA GAPS

Data gaps are getting bigger as the demand for policy data increases and digitally-intensive processes grow

DIGITAL TECHNOLOGIES ADOPTION & DIFFUSION

- Local Government
- Smart & Sustainable Cities
- Al, big data, IoT, robotics, blockchain
- o Digital (Al-related) skills & jobs
- Trust in the digital environment: security, privacy & data protection
- o Digital government, etc.



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DIGITAL POLICY PRIORITIES: CHALLENGES FOR MEASURING DIGITAL TRANSFORMATION

DIGITAL POLICIES DEVELOPMENT

EXISTING DATA GAPS

MEASUREMENT FRAMEWORKS & TOOLS



DATA COLLECTION



DATA USE & ANALYSIS

New concepts, definitions, dimensions and indicators New (disruptive) methods for data collection and new data sources

(New) data literacy, data-driven decision making and data analytics

DIGITAL TECHNOLOGIES ADOPTION & DIFFUSION



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ICT IN URBAN MANAGEMENT: CHALLENGES FOR MEASURING SMART CITIES

- o **PRESENTATION** Demi Getschko (NIC.br)
- o **PROLOGUE** Cristina Bueti (ITU-T)
- INTRODUCTION
- CHAPTER 1 Electronic government and the roads towards smart cities: Differences and inequalities in the adoption and use of ICT by municipalities in Brazil
- CHAPTER 2 Measures of smart and sustainable cities: from global to local
- CHAPTER 3 The experience of extending the smart city maturity model and indicators to an emerging country
- CONCLUSION Public policy recommendations

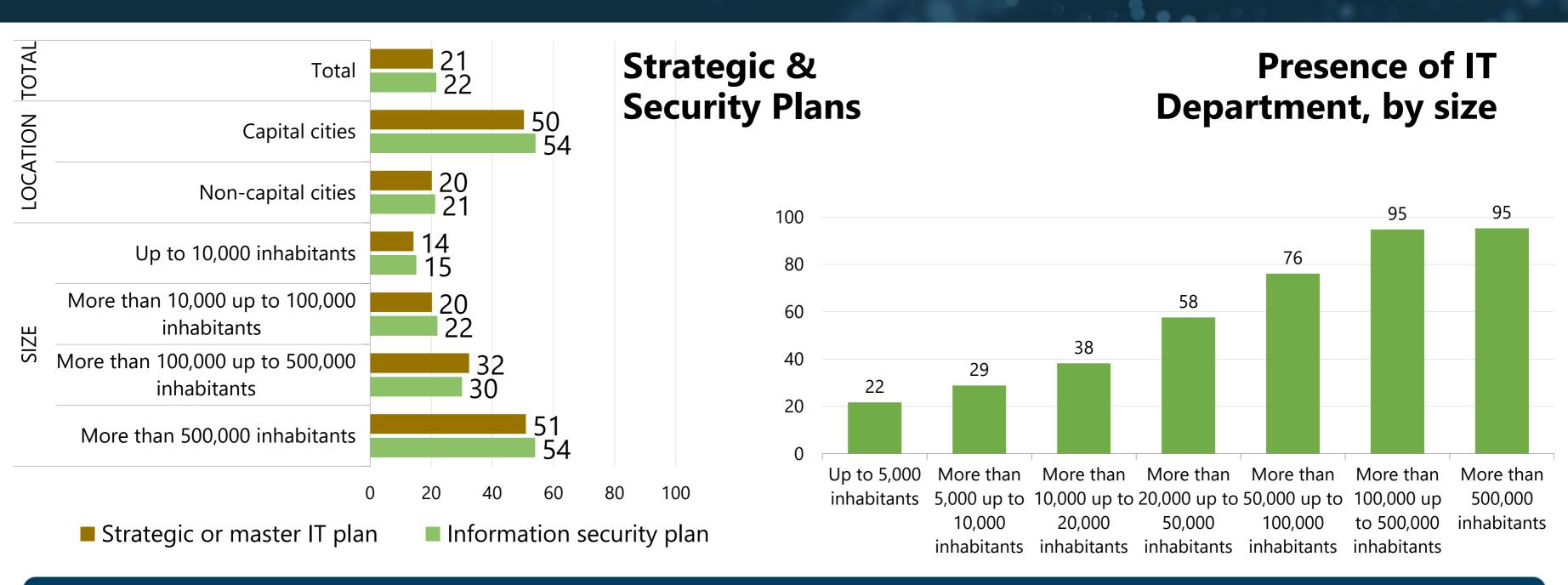


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DIGITAL GOVERNANCE

Total number of local governments with an IT department (%)

41%
of local governments
have an IT Department

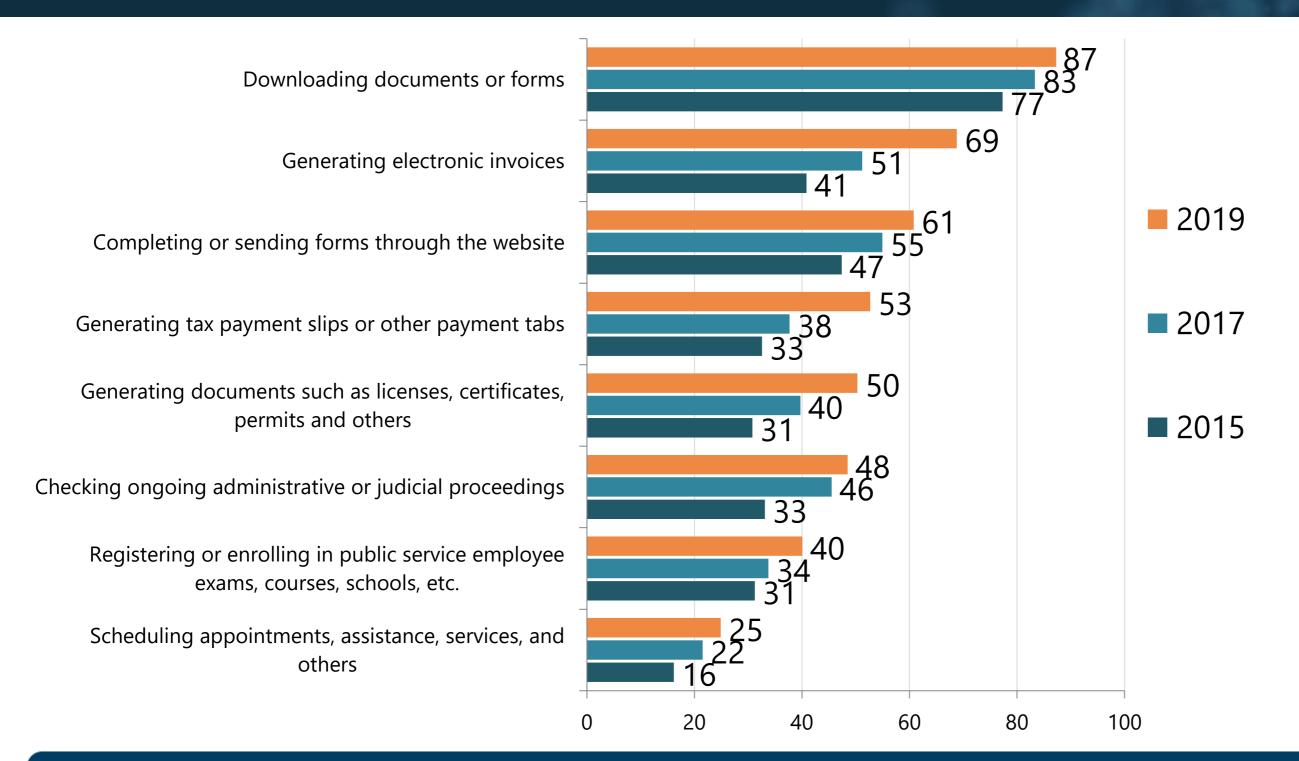






ELECTRONIC SERVICES ON THE WEBSITE

Total number of local governments with a website (%)



95%

Local governments had a **website**

100%

Municipalities with 100,000+ inhabitants had a **website**



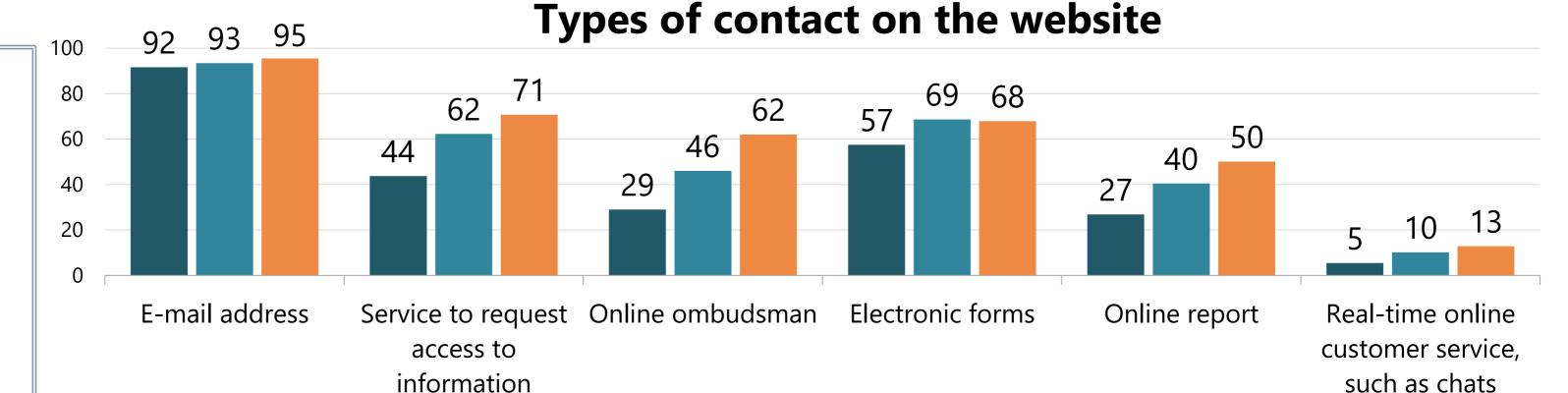


TYPE OF CONTACT ON THE INTERNET

Total number of local governments with Internet access (%)



Real-time online customer service: 500,000+ inhabitants



Presence on social networks

■ 2019 **■** 2017 **■** 2015

2017: 75%

2019: 82%

Up to 10,000 inhabitants: 76%

More than 500,000 inhabitants: 98%

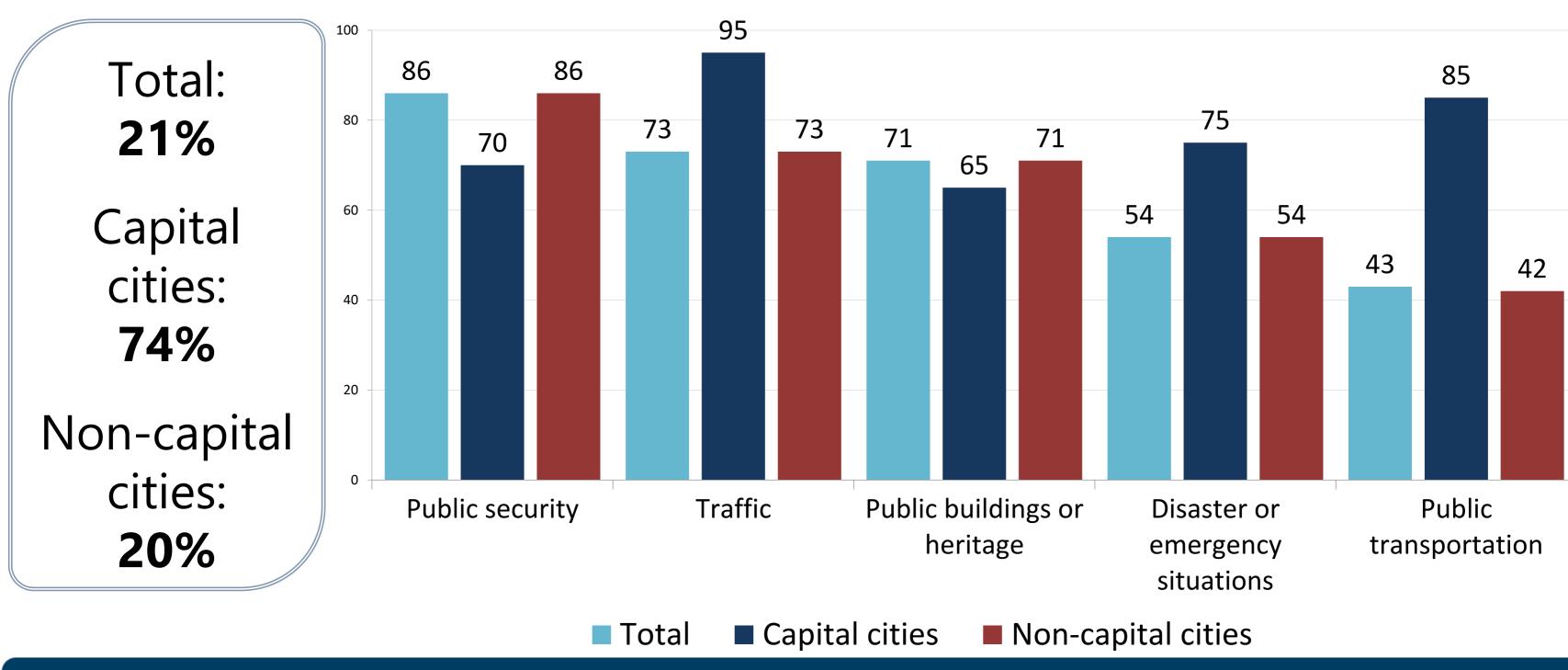
16% Real-time online customer service





CENTER OF OPERATION, BY MONITORING AREA

Total number of local governments with a center of operation (%)







TECHNOLOGY ADOPTION IN URBAN MANAGEMENT

Total number of local governments (%)

	Total	More than 50,000 up to 100,000 inhabitants	More than 100,000 up to 500,000 inhabitants	More than 500,000 inhabitants
Electronic card or ticket for citizens to use public transportation	9%	29%	65%	86%
Public bus with a GPS tracking device	13%	19%	46%	71%
Lighting system connected to a communication network	7%	4%	8%	11%
Remote-controlled traffic lights	6%	21%	35%	64%

Source: ICT Electronic Government Survey 2019 (CGI.br)

ICT COVID-19 PANEL SUVEY

SURVEY OVERVIEW

Target population

Internet users 16 years old or older in Brazil

Coverage

National

Sample

2,408 respondents

Data collection

Between July 29 and August 20, 2020 Interviews online or by telephone



Themes



Activities online



Public services online



Telehealth



Privacy

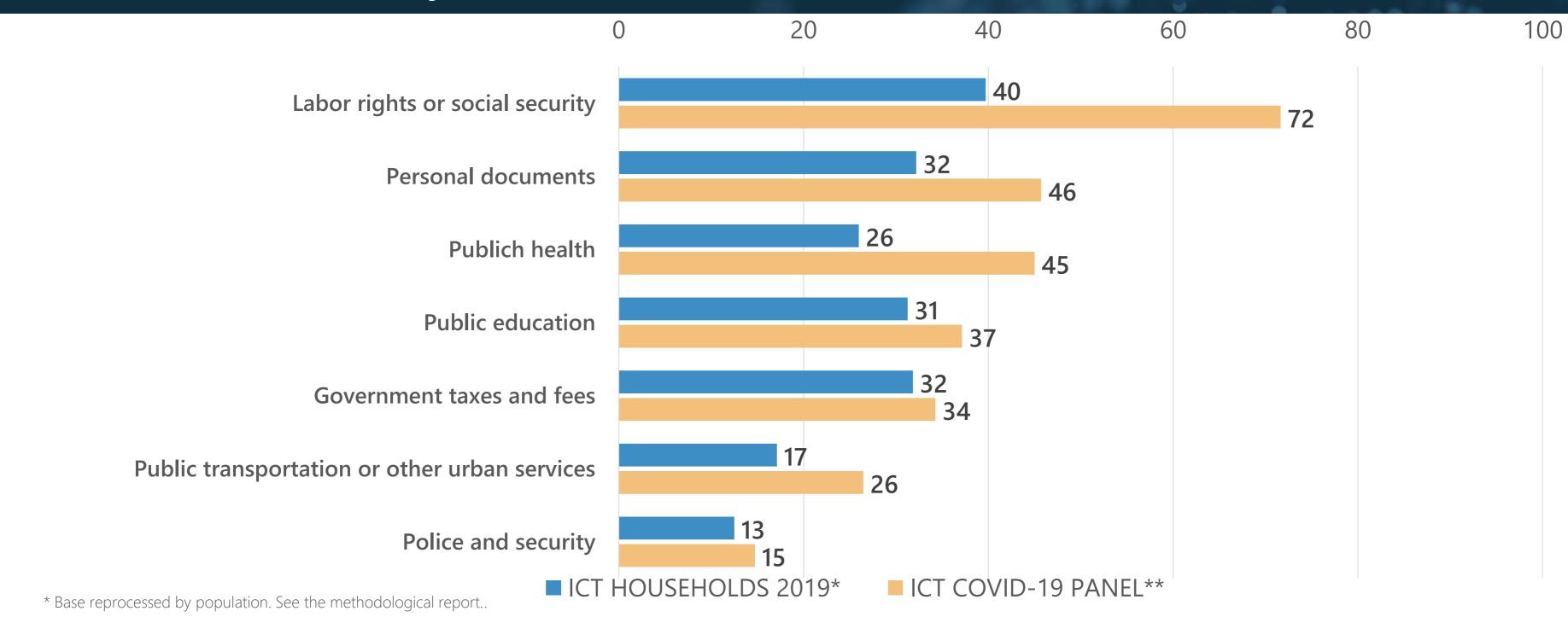






SEARCHING FOR INFORMATION OR CARRYING OUT PUBLIC SERVICES ONLINE

Internet users 16 years old or older (%)



^{**} The reference period adopted by the ICT Household survey was 12 months. In the ICT COVID-19 Panel, the reference period considered was since the beginning of the pandemic.









Obrigado! alexandre@nic.br

Thank you!

¡Gracias!

Merci!

Спасибо!

شكر!

谢谢!



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