Carlos da Fonseca

Brazilian Digital Transformation Strategy: Preparing For the Future

Brazilian Ministry of Foreign Affairs
Information Society Division
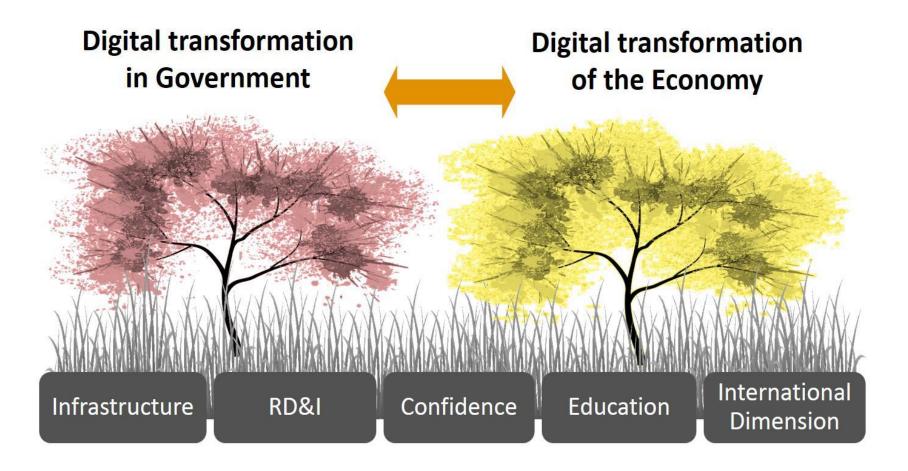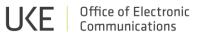
Brazilian Digital Transformation Strategy

GOOD PRACTICES FOR ACCELER-
ATING DIGITAL TRANSFORMATION

Digital transformation in Government ⟷ **Digital transformation of the Economy**

| Infrastructure | RD&I | Confidence | Education | International Dimension |

Office of Electronic Communications

Brazilian Digital Environment

- Internet traffic =   1.5 Exabytes/month (2016)
                         3.5 Excabytes/month (2020, est.)

- Machines per Tld = 45 million

- Domain names = 4 + million

- Digital economy = 22% GDP (2016) / 25% (2021, est.)

- With digital strategy = + 5,7% in GDP (U$ 115 billion)

- WEF CGI = 80th

Brazilian Digital Challenges

- Connectivity: 21 million households without fixed broadband Internet (30%), 4,5 million people digitally excluded

- Connectivity costs: 5% + average month income

- Digital skills: 24 million did not use Internet for lack of skills

- Innovation: 30% startups shut down for lack of capital

- Security: 265.000 DDoS attacks (2017) / 350.000 + cyber incidents (2017) / 62 million victims of cybercrime (2017) / U$ 22 billion in losses (2nd after China)

Brazilian Digital Strategy

Digital Citizenship

- E-government
- Digital public services
- Transparency and participation
- Open Government Data

ICT Access and Use

- Infrastructure (focus on remote, rural areas)
- Bridging the digital divide
- New connection technologies

Research, Development and Innovation

- Production policy
- Technological policy
- Research infrastructure

Confidence in the Digital Environment

- Consumer Protection
- Privacy and Personal Data Protection
- Cybersecurity, cyberdefense and cybercrimes

Education, Jobs and Capacity Building

- Teaching IT at basic education
- New technologies as teaching tools
- Skills for new careers and jobs of the future

International dimension

- Management of Internet critical resources
- Regional integration
- Global markets

Digitalization of the economy

- Digitalization of production
- Internet of Things
- Digital platforms, marketplaces and collaborative economy
- Entrepreneurship
- Creative digital economy

Normative framework: investment, innovation, rights and obligations

Office of Electronic Communications

5

Brazilian Digital Strategy

1. Diagnosis of current situation

2. Set of strategic goals (5 years)

3. Set of indicators:

   - ITU ICT Development Index (IDI)
   - ITU Global Cybersecurity Index (GCI)
   - ITU Measuring the Information Society
   - UNCTAD B2C E-Commerce Index
   - UNCTAD Information Economy Report
   - Open Data Barometer
   - UNIDO Industrial Development Report
   - WIPO Global Innovation Index
   - UN E-Government Development Index (EGDI)

Brazilian Digital Strategy (methodology)

- 5 WG (Infrastructure, Digital Citizenship/Government, RDI, Trust/security, Digital economy)

- 25 WG meetings

- 130 experts

- 4 workshops(privacy & data protection, education, indicators, security)

- Open public consultation (700 + contributions)

- Next steps: Executive Order & possible agency (2018)