















Low level of Awarness



(lack of) Implementation Plans



Main drivers of IoT implementation:

- Cost reduction and sales increase (62%)
- Better quality and new products (43%)

Most cited barriers:

- Demonstrating ROI (22%)
- Risk averse corporate culture (20%)

Source: ABII, 2017





IoT National Plan

Implementing IoT pilots in Brazil

Bilbao, June 07th, 2018





MINISTERIO DO PLANEJAMENTO, DESENVOLVIMENTO E GESTÃO





IoT/Innovation: Next opportunity for new companies and businesses in Brazil



*Non-exhaustive list

During 2017, we achieved a very large engagement among Brazil's IoT ecosystem to build an IoT strategic and action plan



5

3

Associations, businesses, and other agents

invitations to IoT Bytes

participants at Future

Lab to discuss Brazil's

contributions to the National Public Consultation

380+

specialists directly consulted during the study

interviews with key

figures throughout the

IoT aspirations

28

Reports with detailed results about the study

study



Brazilian and international specialists

) National IoT Chamber

Advisory Board and Executive Committee of the plan

McKinsey, CPqD and PMN

BNDES and MCTIC

BRAZIL's IOT ASPIRATION

Accelerate the implementation of the Internet of Things as a tool for the sustainable development of Brazil, capable of...



...strengthening Brazil's manufacturing chains...

...and fostering better quality of life

McKinsey & Company

The study prioritized the environments with highest potential for Brazil, defining specific objectives for each one



Specific objectives reflect the initiatives

- Expand the IoT-qualified workforce in priority environments
- Get young people interested in IoT/ICT
- Strengthen IoT R&D and engineering, bringing it up to world class
- Promote IoT training and development of public managers



Human Capital

International insertion and innovation

- Encourage experimentation and cooperation, and the dissemination of successful business models
- Improve and disclose funding and development tools for ICTs and innovative companies
- Build an environment for continuous and participative monitoring of the IoT plan

- Expand the supply of communication networks as demanded by IoT services
- Articulate the IoT theme in public policies to expand connectivity infrastructure and solutions
- Encourage and promote IoT device, solutions and Network standardization and interoperability



- Structure and create a regulatory framework to suitably protect personal data and encourage innovation and the protection of individual rights
- Identify and address specific regulatory issues along the priority verticals
- Define a suitable institutional design to face the IoT privacy and security challenges





Source: MGI, Brazilian National Plan for IoT



BNDES has several options to support foreign investment in Brazil

Financial Instruments for IoT Solutions

- Credit for IoT solutions
- ICT Companies: €3.25Bi (last 3 yrs)
- Users: financial support for farmers, cities, hospital, industries, etc.

Investment Funds

- €125M+ available for investment in IoT companies (next 3 yrs)
- Co-investment with
 Corporate Venture and
 Institutional Funds (e.g. aerospace with Embraer)

IoT Pilots

- 1st initiative for coordinating IoT pilots in Brazil
- Demand driven applications

✓ BNDES to finance investment in local currency

✓ Co-invest in Funds for IoT companies

✓ Joint investment in IoT pilots

In order to accelerate the adoption of IoT in the these select environments, we decided to start to work on a key initiative: BNDES IoT Pilots

BNDES IoT Pilots Goals

- Use IoT to solve Brazilian problems
- Foster local innovation and IoT ecossystem
- Identify sustainable IoT business models and scale up
- Faster the addressment/mitigate the risks of IoT thresholds (privacy, safety, interoperability, HR etc)



The Pilots will target the goals and applications set for each prioritized area



Non-reimbursable funding is structured through an ICT that should be part of the consortium



BNDES Pilots will trigger a more comprehensive strategy for scaling IoT use in Brazil





Foster the adoption of IoT based solutions on Public Health System ("SUS")

Government initiatives could accelerate IoT adoption



"Plano Safra" (Inova Agro) 100 M EUR ('17)



"Educate" public agents for using technology BNDES financing to municipalities

We have a challenging, but feasible, plan to select and start pilots in 2018



It will be a pleasure to answer your questions.

Thank you!





Contato 0800 702 6337 International calls +55 21 2172 6337

Ouvidoria 0800 702 6307 www.bndes.gov.br/ouvidoria



Fale Conosco www.bndes.gov.br/faleconosco



