International Cooperation for R&D: European Union-Brazil

Wanderson Paim de Jesus

National Research and Education Network (RNP)
In general, IoT prospections are focused in market potential

IoT Market Predicted To Double By 2021, Reaching $520B

Source: GlobalData, Technology Intelligence Centre
• **IoT** or other emerging technologies is much more than

• This is a **narrow vision** of the whole **potential impact** of emerging technologies
• It is necessary to emphasize what comes **beyond the market potential**

• What will be the **social impacts**, environment sustainability, gain of scale, mobility, farming/industry productivity or even reduction of inequalities?
When it comes to IoT in the scenario of **International Cooperation**, the impacts go even further.

We're talking about **diplomacy**, **exchange of know how**, **about sharing** **research infrastructures**, **interchange of researchers** **and an alignment of how to tackle** **global challenges**, such as the **SDGs**, stated by UN.
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COORDINATED CALL
BRAZIL - EUROPEAN UNION
• **EU-BR Coordinated Calls on ICT**

  - 1st EU-BR Coordinated Call (2010)
  - 2nd EU-BR Coordinated Call (2012)
  - 3rd EU-BR Coordinated Call (2014/2015)
  - 4th EU-BR Coordinated Call (2016/2017)

• **Last prioritized topics:**
  - Cloud Computing, HPC, Experimental Platforms, 5G Networks and Internet of Things

• **Statistics of the collaboration**

  • 193 proposals received
    - 43 in the 1st Call
    - 61 in the 2nd Call
    - 38 in the 3rd Call
    - 51 in the 4th Call

  • 20 projects selected

  • Europe and Brazil already applied

  • **€50 millions** total
How it comes to reducing inequalities?
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EU-BR Coordinated Calls Working Process

1. Negotiate topics and budget
2. Launch the Call in BR and EU
3. Joint Selection
4. Grant agreements with RNP in BR and EC in EU
5. The same projects starts at the same day in Europe and Brazil
6. Joint RNP-EC monitoring procedures (quarterly and annually)
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208,5 million people

GDP contribution per region
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GINI Index

GINI Index Denmark: 28.2

GINI Index BR: 51.3
4th EU-Brazil Coordinated Call

- 6 projects
- € 8 millions (each side)
- Maximum duration: 3 years
- Cloud Computing
- Internet of Things Pilots
- 5G Networks
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http://maps.ctic.rnp.br
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<th>Brazilian Partners</th>
<th>European Partners</th>
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**Website**

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@SwampProject
There are still many **global challenges** for **EU-BR Cooperation** to address.
Brazil dam: Startling pictures of Brumadinho collapse

The number and impacts of disasters have increased in Europe in the period 1998-2009, a new report by the European Environment Agency (EEA) concludes. The report assesses the frequency of disasters and their impacts on humans, the economy and ecosystems and calls for better integrated risk disaster management across Europe.

The trail of destruction caused by the collapse spreads over an area equivalent to more than 100 football pitches.

Dramatic pictures have emerged of the collapse of a dam in southern Brazil at an iron ore mine which left more than 300 people dead or missing.

The Buncefield fire, UK, 2005
Paris and London are Europe’s most congested cities

São Paulo: 29.164.426 cars
International Cooperation for IoT

It maximizes social impacts, environment sustainability, gain of scale, farming/industry productivity and even reduction of inequalities while still delivering - and potentially increasing - market value.
Thank you!

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