

Brazil's perspective



Side Event
Climate Change

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Contents

■ Introduction

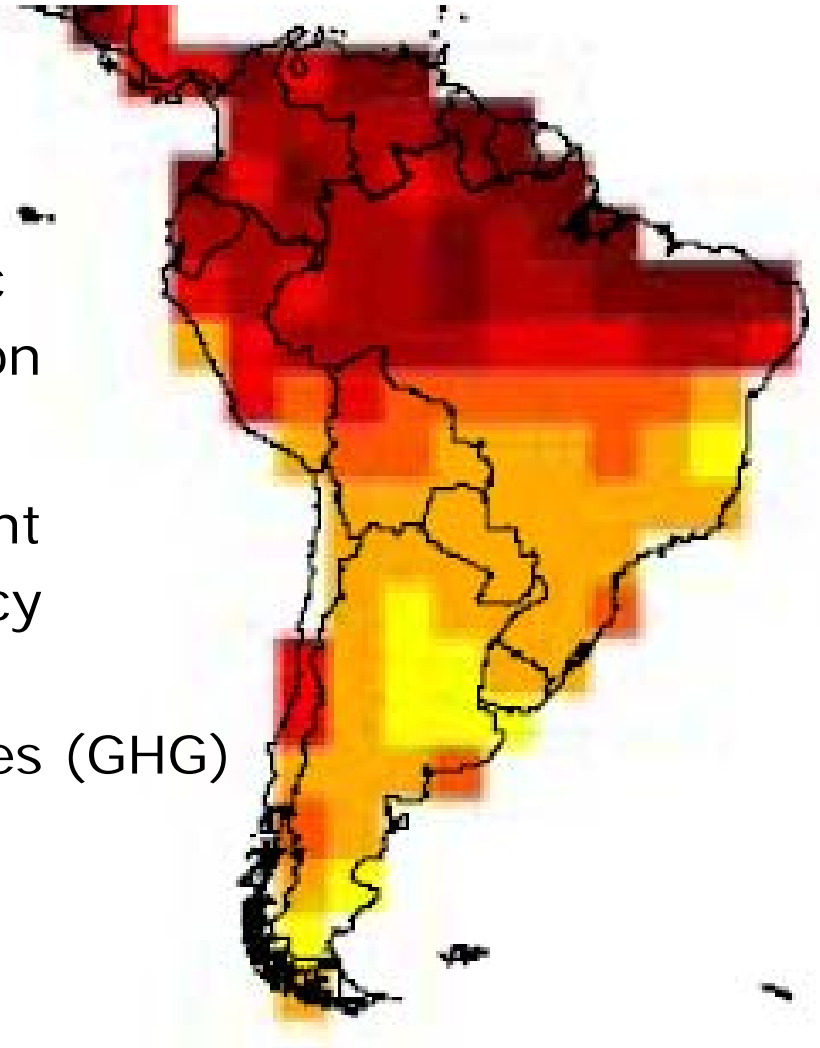
- Temperature rise in Brazil
- Tornados in South Atlantic
- Desertification in NE Region

■ Role of ICT

- Monitoring the environment
- Promoting energy efficiency
- Substituting for travels
- Reducing greenhouse gases (GHG)

■ Conclusions

- Proposals to ITU-T



Introduction



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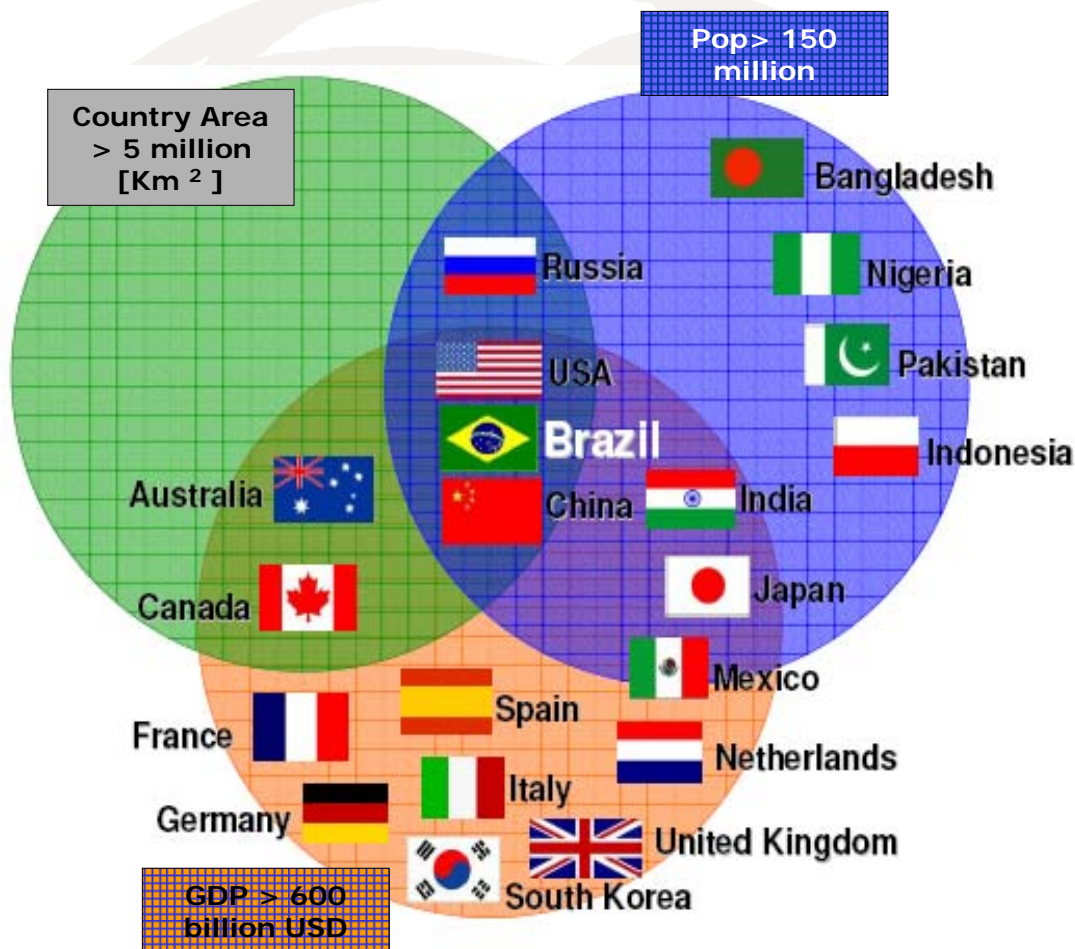
Is our planet warming ?



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Brazil: 5th world market for ICT



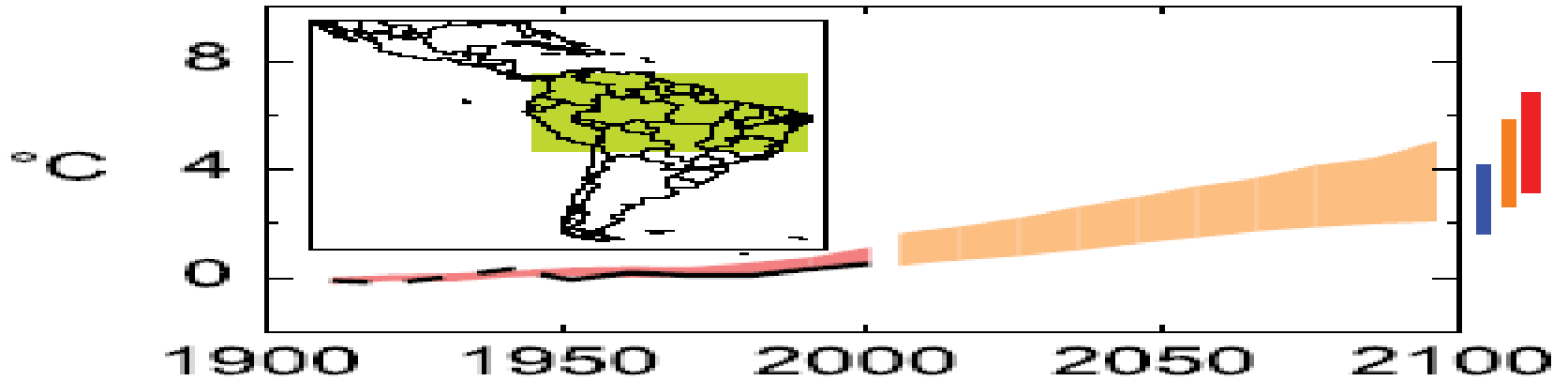
- **Population**
 - 190 million¹
- **Area [km²]**
 - 8.5 million
- **Gross domestic product ¹**
(based on purchasing-power-parity, 2008)
 - US\$1.98 trillion
- **Per capita GDP ¹**
(based on purchasing-power-parity, 2008)
 - US\$10,298

¹ Estimated values

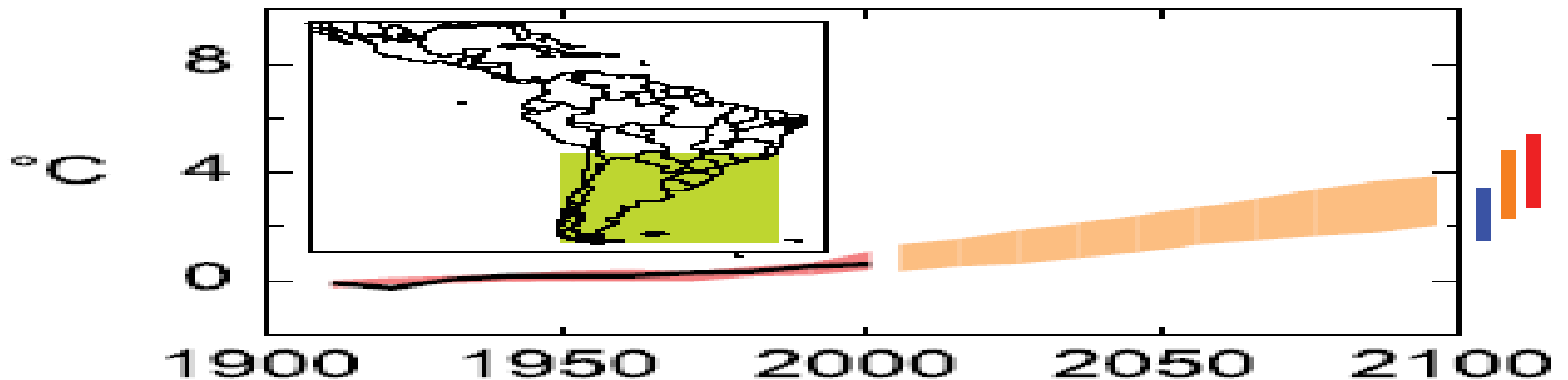
Source: International Monetary Fund - 2008 World Economic Outlook

Temperature is rising

AMZ



SSA



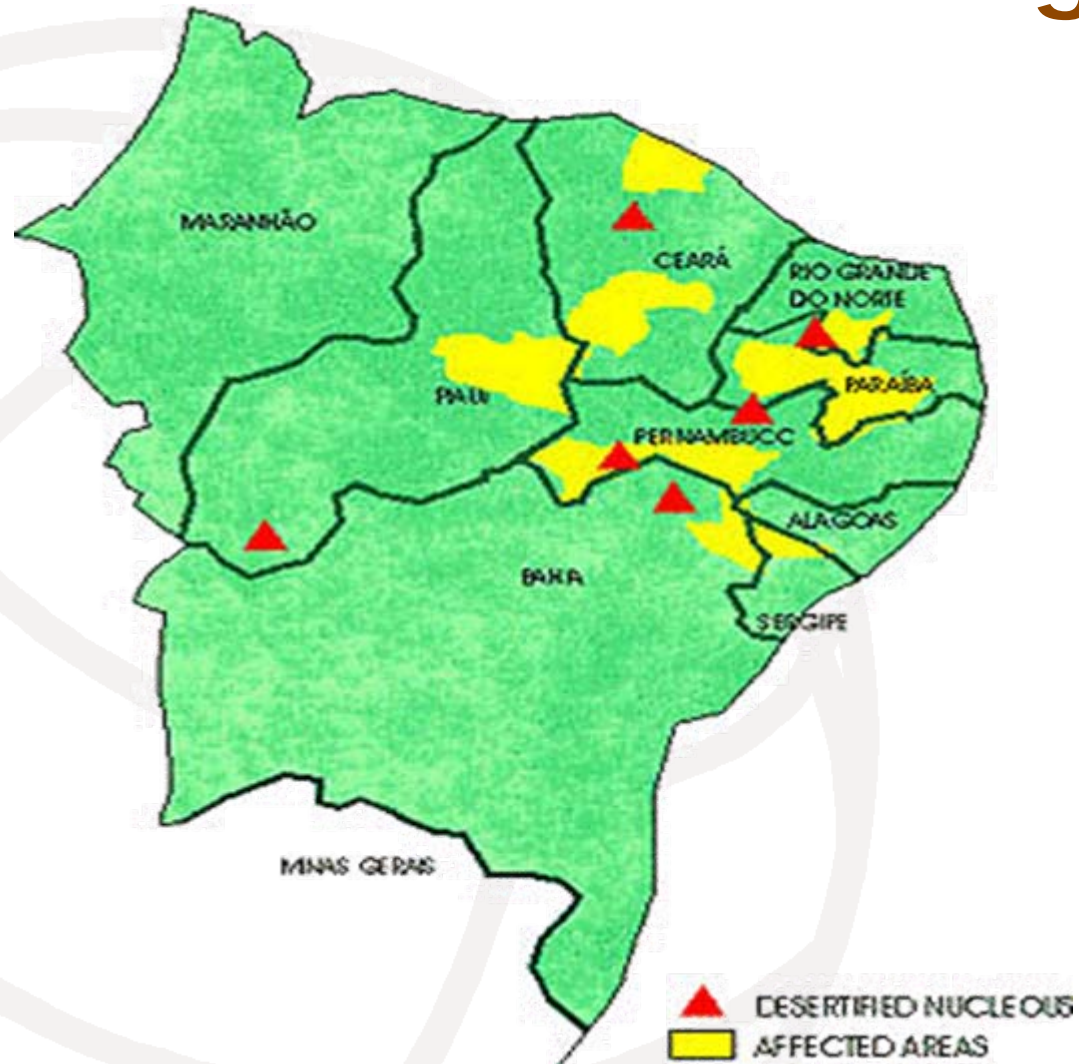
Hurricanes in South Atlantic



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Desertification in NE Region



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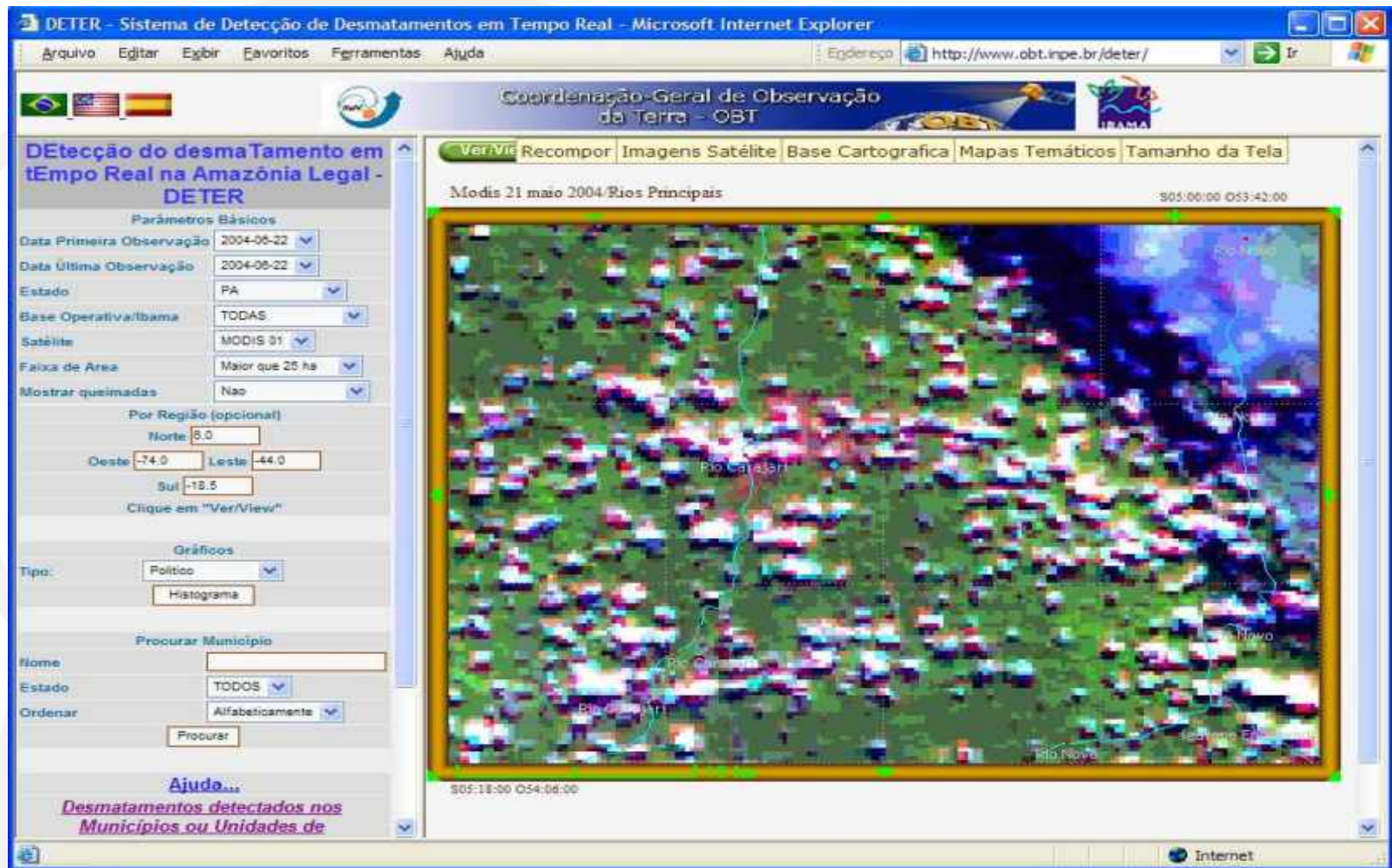
Role of ICT



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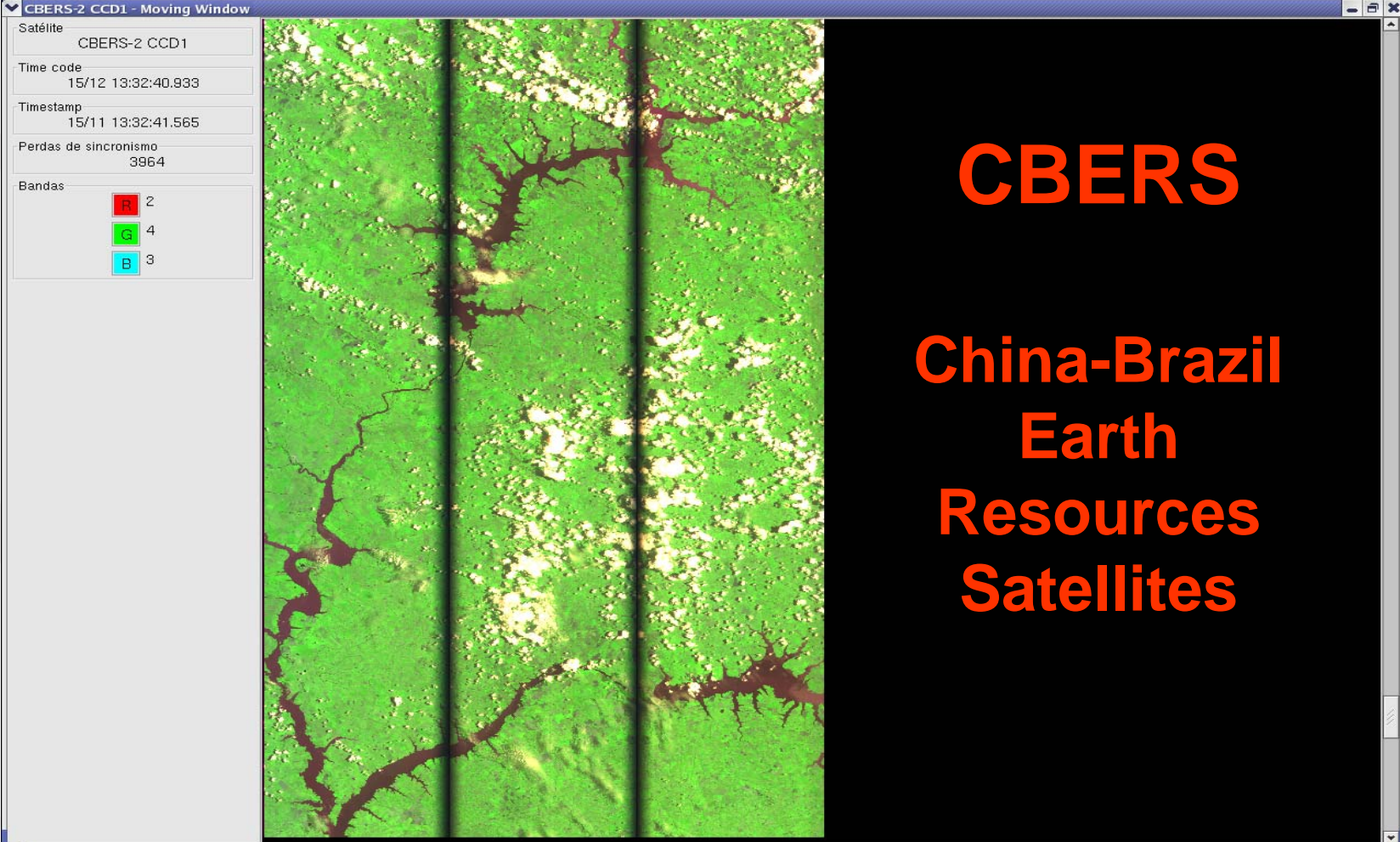
Environment Monitoring



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China-Brazil Cooperation



The screenshot shows a software window titled "CBERS-2 CCD1 - Moving Window". On the left, there is a metadata panel with the following information:

- Satélite: CBERS-2 CCD1
- Time code: 15/12 13:32:40.933
- Timestamp: 15/11 13:32:41.565
- Perdas de sincronismo: 3964
- Bandas: R 2, G 4, B 3

The main area of the window displays a satellite image of a lush green landscape with a prominent, dark brown river network. The image is presented in a vertical strip format, with the central portion being wider than the side portions.

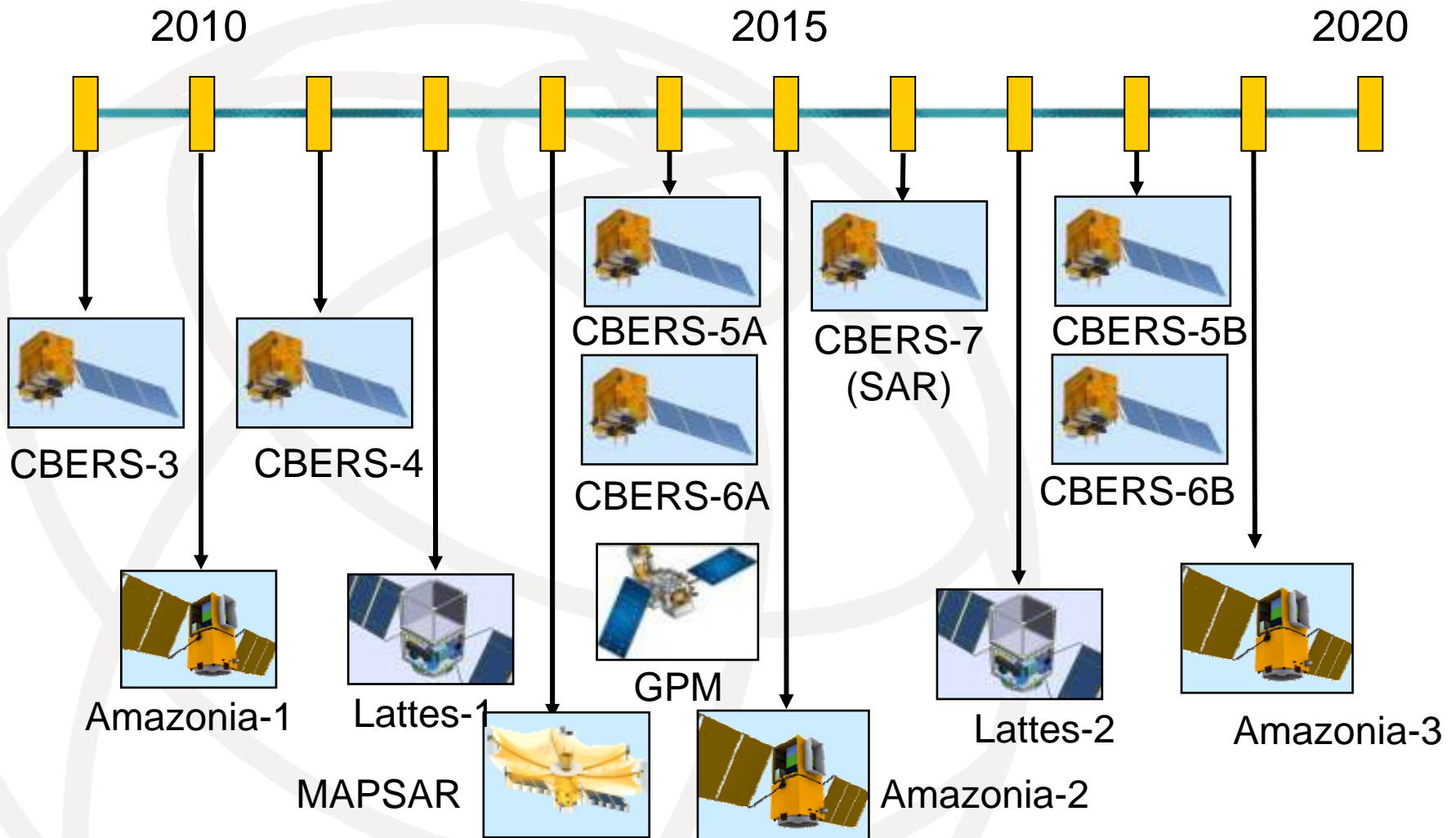
CBERS
China-Brazil
Earth
Resources
Satellites



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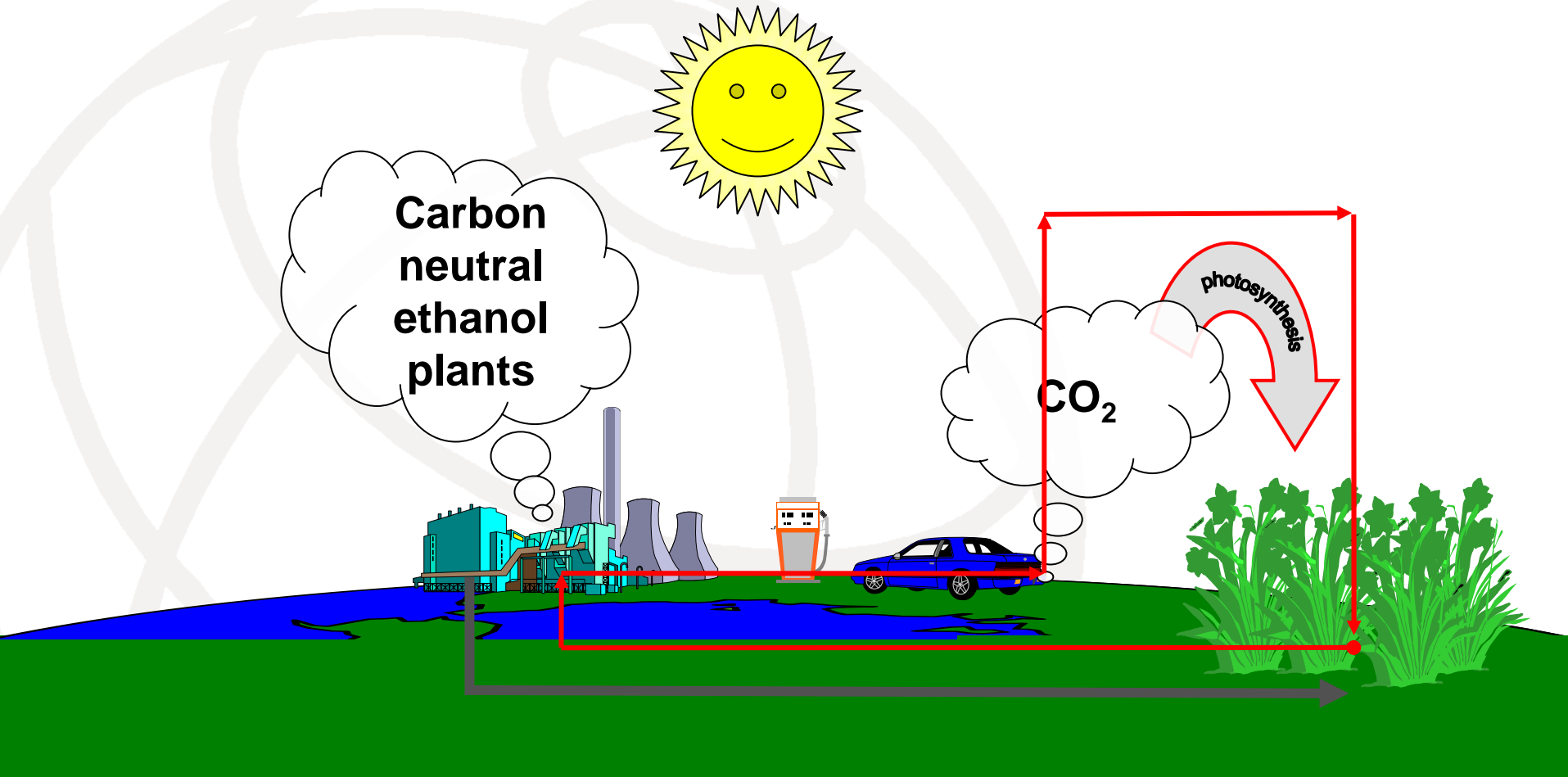
Future Satellites



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Energy efficient processes



Ethanol as fuel since 1925



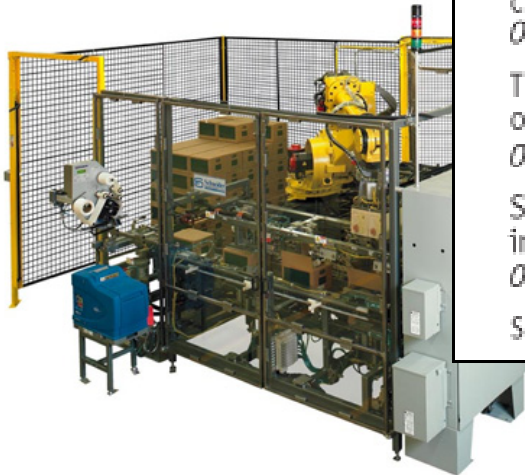
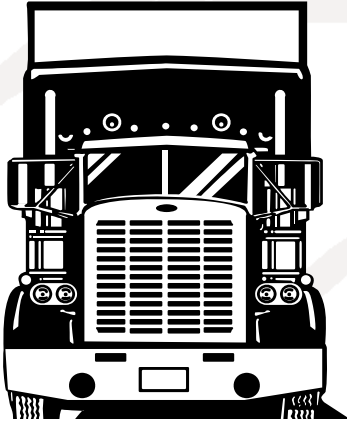
Videoconference, remote work



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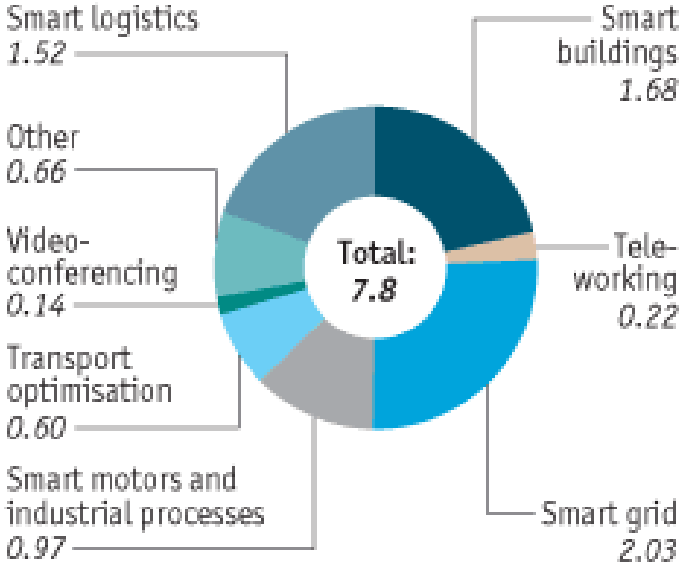


Greenhouse gas emissions



More silicon, less carbon

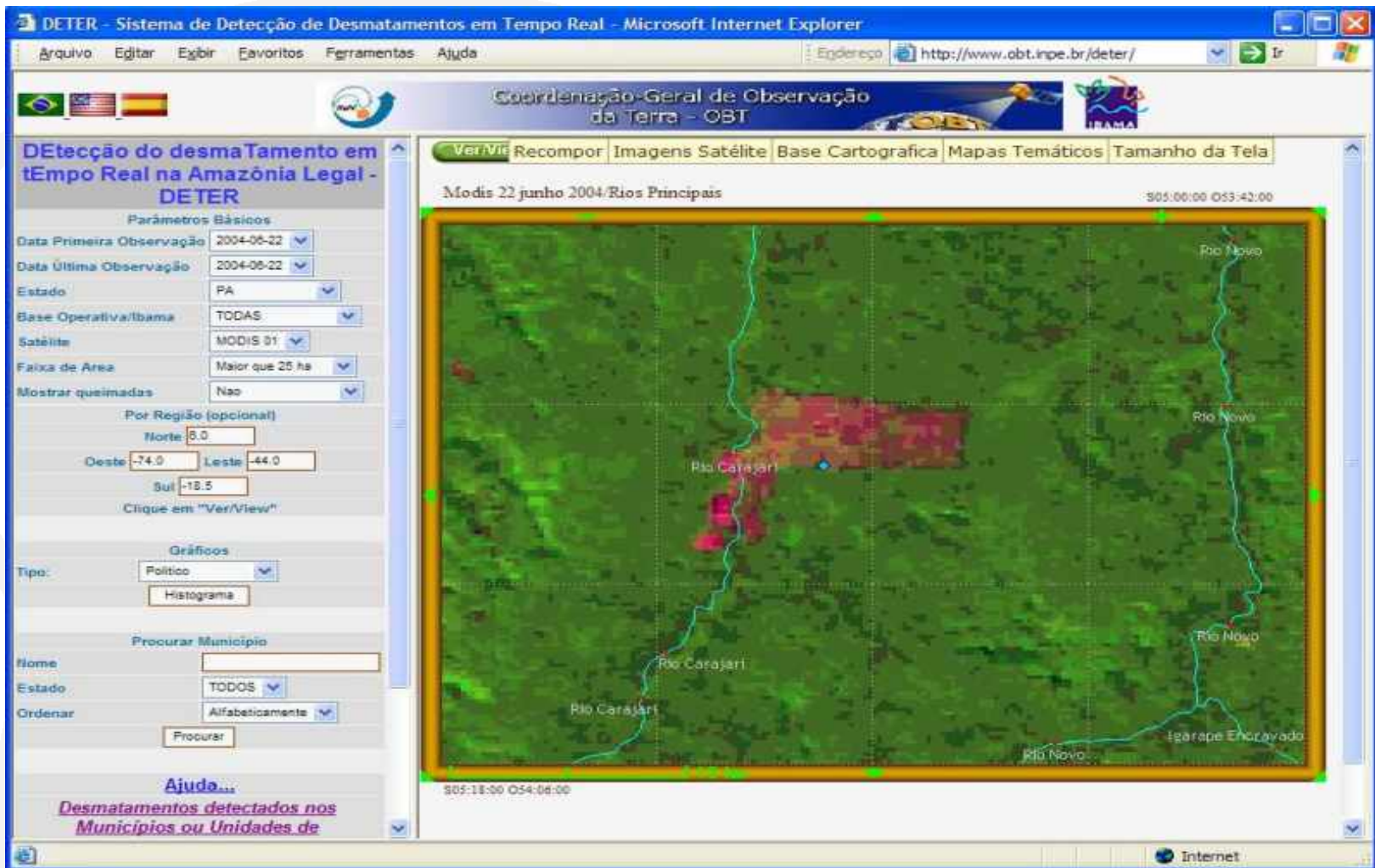
Possible ICT-enabled savings in emissions
2020, gigatonnes of carbon-dioxide equivalents



Source: Global eSustainability Initiative and the Climate Group



Sustainable development



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Proper disposal of equipment



Conclusions

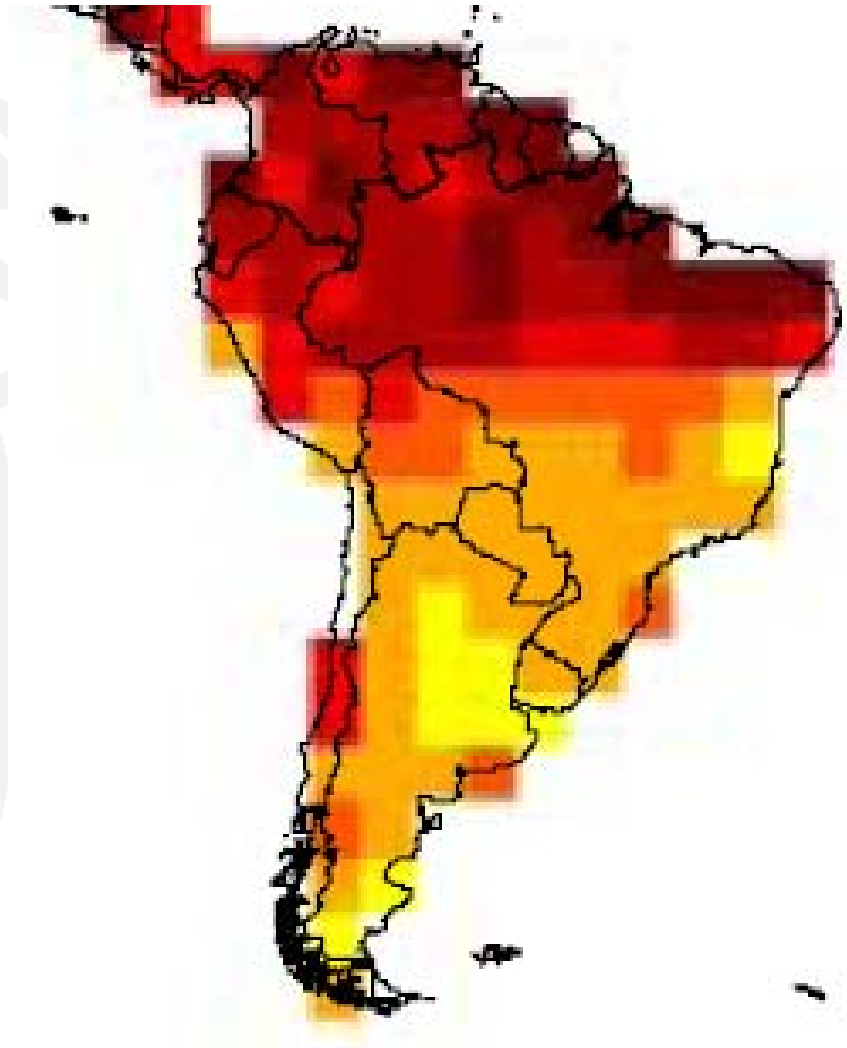


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Proposals

- Studies
 - TSAG Focus Group
 - Regional Symposia on ICT and Climate Change
 - Consideration of climate change issues in ITU's Study Groups
- Actions
 - Paperless meetings
 - ITU standards focused on climate change
 - Radio-frequency spectrum for climate monitoring and early warning systems



Thank You

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