

Regional Development Forum 2008

“Bridging the Standardization Gap in Developing Countries”

Brasília, May 20, 2008

DIGITAL INCLUSION INITIATIVES OF THE MINISTRY OF COMMUNICATIONS

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Brazil

Brasília, May 20, 2008

SUMMARY

- Kits for Digital Inclusion Centres (DIC)
- Digital cities
- Gesac
- Challenges



EXCLUSION X INCLUSION - 2007

Current Situation:

- More than 2,200 municipalities without cell
- More than 3,000 municipalities without ADSL
- Many municipalities without ISP's

This is rapidly becoming a thing of the past:

- 3G auction
- Broadband in all municipalities (obligations change)
- Connexion of 55,000 urban schools
- 3.5 GHz future auction

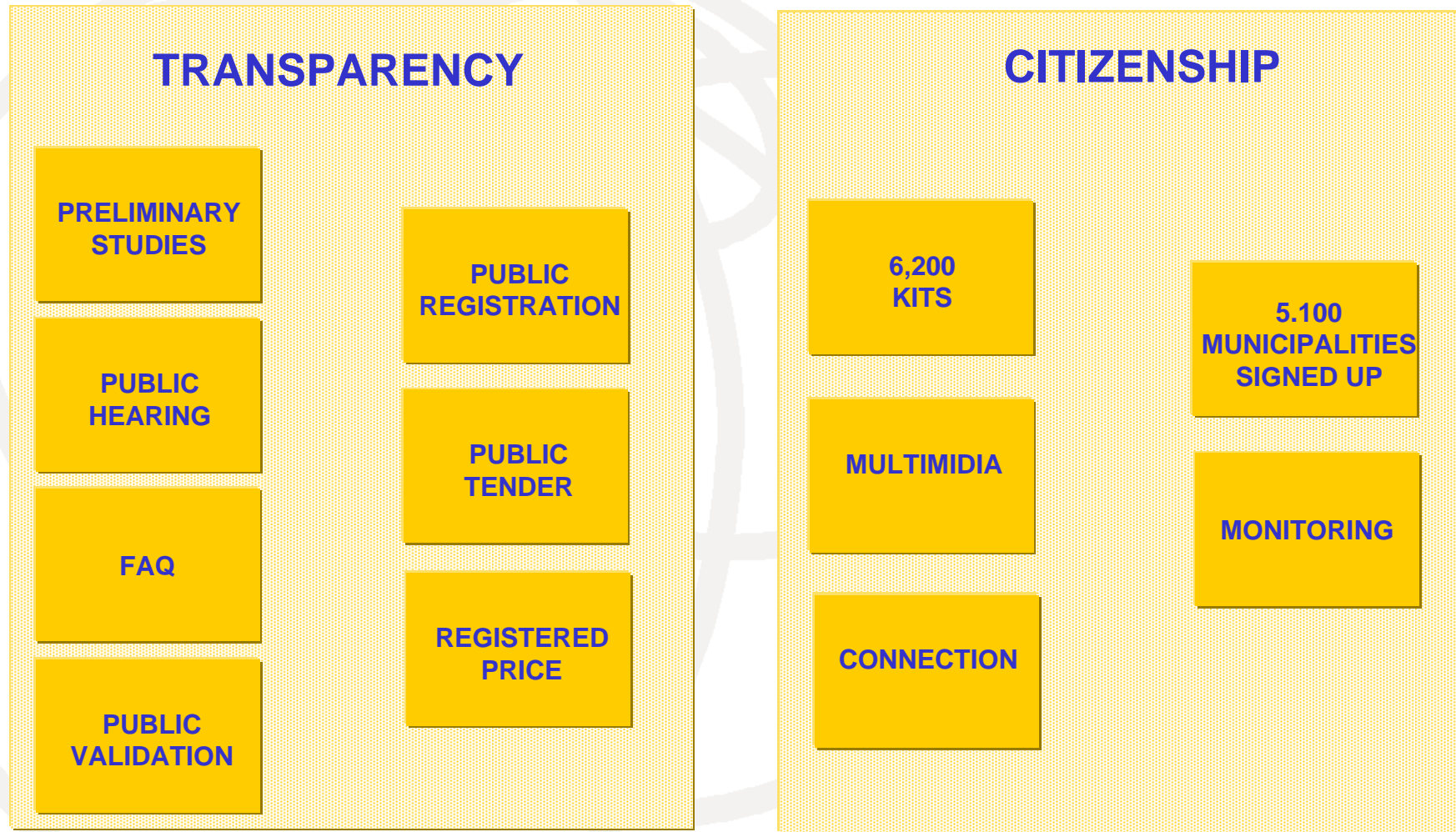


KITS FOR DIGITAL INCLUSION CENTRES

- The kits included:
 - 10 workstations, 1 server, LCD monitor (low energy), 1 network printer
 - 1 wireless local area network
 - 1 Multimedia Projector
 - Furniture
- Donation with obligations:
 - Public registration on MC website
 - Infrastructure: space (> 48 sq.mt.), electrical, security
 - Instructors and Management Committee
- At least one DIC per each municipality
- 5,100 municipalities have signed up
- All DICs will be delivered until June 30th
- Monitoring Center will be installed by May 31st, in MC



KITS FOR DIGITAL INCLUSION CENTER



DIGITAL CITIES

DEFINITION:

Digital City is one that presents,
in all its geographic area,
infrastructure for telecommunications and Internet,
for public or individual access, providing to its population
information and public and private services
in a virtual environment.

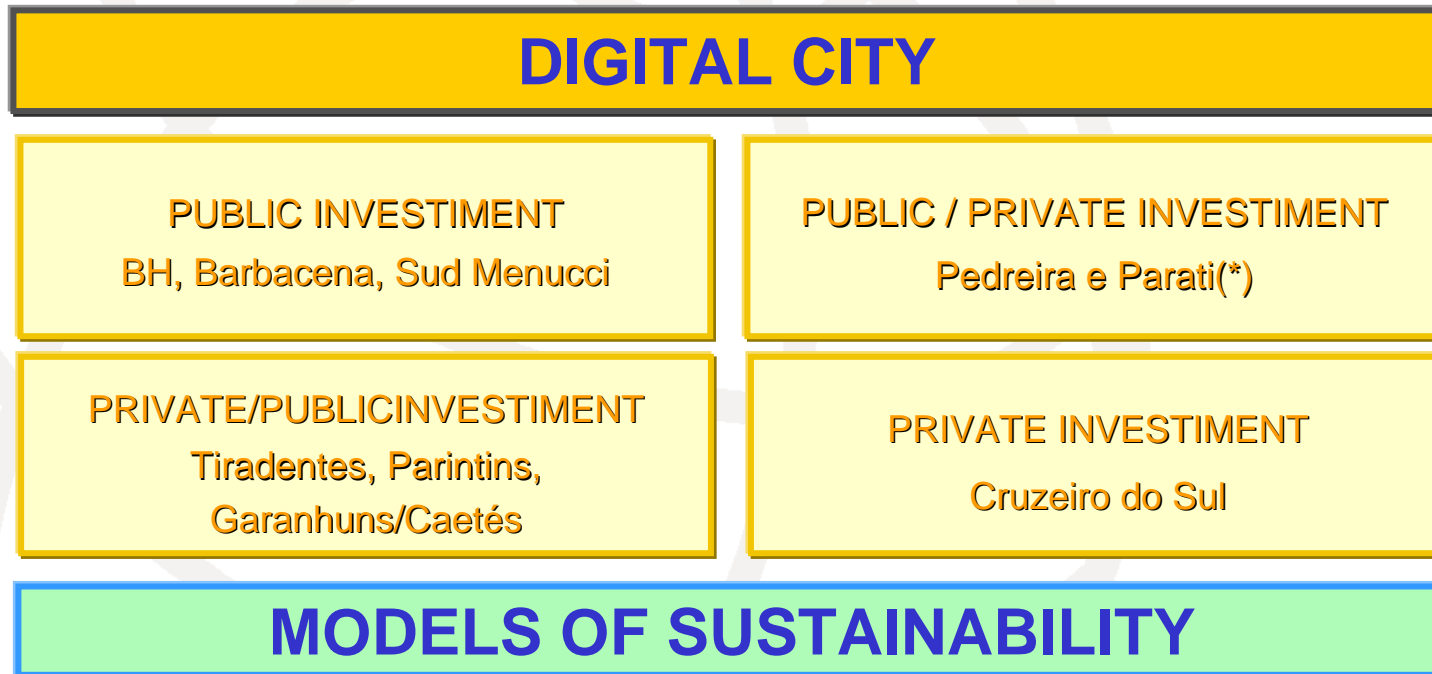
“As cidades digitais no mapa do Brasil”, p.66



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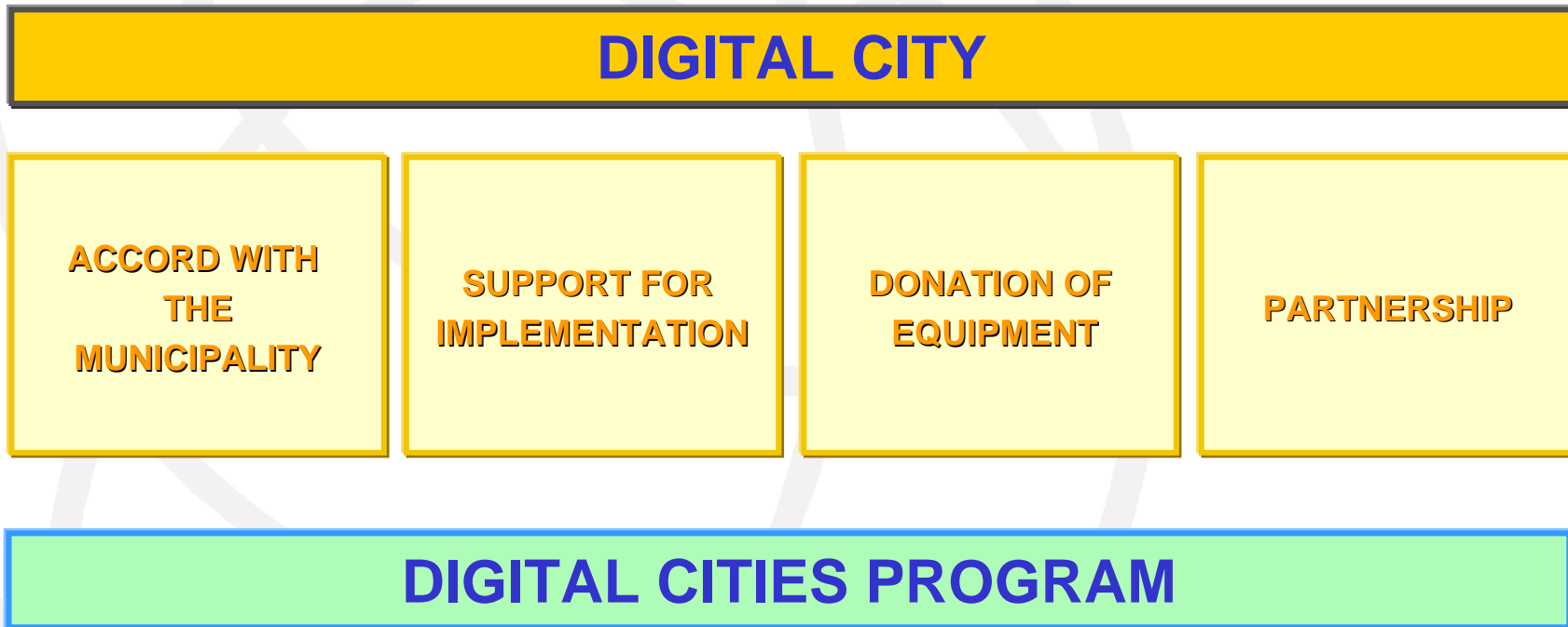
DIGITAL CITIES

- Broadband massification and universalization



DIGITAL CITIES

- Broadband massification and universalization



DIGITAL CITIES

■ TECHNOLOGIES

■ Piraí (RJ)	Hybrid (Wi-Fi, xDSL, fiber, Satellite etc)
■ Tiradentes (MG)	Wireless Mesh
■ Ouro Preto (MG)	Pre-Wimax
■ Belo Horizonte (MG)	Hybrid (Pre-WiMax, fiber e Mesh)
■ Barbacena (MG)	Hybrid (Pre-WiMax e Mesh)
■ Parintins (AM)	Satellite + Wimax + Wi-Fi
■ Barreirinhas (MA)	PLC + Wi-Fi
■ Candiota (RS)	PLC
■ Garanhuns/Caetés (PE)	Mobile Wimax + Wi-Fi
■ Pedreira (SP)	Fiber + Wi-Fi



GESAC

The Brazilian government's largest digital inclusion program

Implemented by the Ministry of Communications,
in partnership with other ministries and entities

GESAC is the infrastructure for citizenship and digital inclusion

3,540 GESAC POPs in 2,200 municipalities



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GESAC

■ CHALLENGES



- Large Country
- Vulnerable population
- Low educational level
- Rare digital inclusion experiences
- High telecom prices
- Low internet penetration (<18%)
- Social exclusion X Digital exclusion



GESAC

- Internet connection
- Digital inclusion initiatives for communities serviced:
 - ➔ Training
 - ➔ Workshops
 - ➔ Events



GESAC

■ NEW PHASE

- Expansion to 12 thousand points of presence - POPs (2009)
- 7,500 public schools
- 4,000 kits (more than 1,000 are schools)
- Bidding for two lots:
 - Lot SA - Northeast: 5,917
 - Lot SB - Other regions: 6,002
- New speed of data transmission
- 256 kbps up to 8 Mbps
- Satellite or terrestrial
- Additional services: Multicast, VoIP, wireless networks



GESAC AND THE MINISTRY OF EDUCATION

- 2,440 schools connected by GESAC
- Broadband in the Schools Project
 - Urban schools
 - Connection of 55,000 until December 2010 (agreement with the telecom operators)
 - 22,000 in 2008; 22,000 in 2009; 11,000 in 2010
 - 86% of all public students
 - Rural schools
 - 90,169 rural schools without connection
 - GESAC will connect 7,500 to 10,000 rural schools (contract amendment)
- Connection of UABs
 - e-university
 - If satellite must use multicast primarily
- Connection of Municipal Councils of Education



CHALLENGES

- Universalization of broadband access
- Connection of rural schools
- Training for the community
- Use of communication and information technologies to further the development of local communities
- Instructors / Agents of Digital Inclusion for the DICs
- Integration of several government digital inclusion initiatives
 - Working Group coordinated by Cezar Alvarez (Presidency of the Republic)
 - Center Fellowships
 - Training Center
 - Public policies



Thank You

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