Brazilian SAGE Sites

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What is SAGE™?

- **SAGE** – Scalable Adaptive Graphics Environment
- Operating System software for organizing visualizations and information on scalable display walls to help researchers deal with problems of scale and complexity in their data.
- Streams visualizations from remote servers / supercomputers.
- Developed by University of Illinois at Chicago, Electronic Visualization Laboratory

[www.sagecommons.org](http://www.sagecommons.org)
Now Developing SAGE2™
Scalable Amplified Group Environment

• SAGE2 is a total rewrite of SAGE using web technologies
• Middleware to access, display, and share high-resolution digital media on scalable resolution display environments
• Multi-touch interaction (one or many people)
• Push laptop windows or laptop screens onto a wall

www.sagecommons.org
Brazilian SAGE Community

• Created around a RNP (Brazilian NREN) project to foster advanced visualization capabilities in Brazilian institutions
  – One institution selected for prototype development
    • SAGE ‘Kit’ specification
    • Creating Local Technical Expertise for supporting other institutions
  – SAGE Kits deployment at several institutions for testing with different use cases
    • First kits were deployed at pairs of institutions that already collaborated without SAGE walls, to foster collaborative usage.
  – Dissemination: Kit shown at National & International Conferences held in Brazil
    • Both conferences targeted Research Community and university CIOs
  – Support:
    • Documentation in Portuguese
    • Support through VideoConference/WebConference and SAGE itself
Brazilian SAGE Locations

- UFPB
- HSI Bahiana UCSal
- RNP
- USP (3)
- Mackenzie
- Unicamp
- INPE
- RNP
- UFF

Added in 2014
Some Milestones

• 2011
  • Advanced Visualization RNP Project started in 2011
  • LARC Laboratory at USP (U of São Paulo) selected for developing the prototype
    o 1st Local demo at GLIF 2011 (Rio de Janeiro, Brazil)

• 2012
  o 1st Call for Users: deployment of SAGE Kits to pairs of Institutions for collaborative use cases:
    o Remote Simulation
    o 4K Video
    o TeleMedicine
  o Collaborative demos at RNP Workshop and RNP Forum (with remote participation by EVL/UIC)
Some Milestones

• 2013
  • Support and evaluation of Use Cases at 2012 Institutions
  • Deployment of new portals at USP and RNP
  • Colaborative demo at RNP Workshop
  • 1\textsuperscript{st} Brazilian Community meeting (with remote presentation by EVL/UIC)

• 2014
  • 2\textsuperscript{nd} Call for Users
  • 3 institutions selected. Use Cases: Weather Forecasting, Cinema, Geoprocessing
  • 2\textsuperscript{nd} Brazilian Community meeting
SAGE sites (1)

University of São Paulo (USP) – LARC

- Laboratory of Computer Architecture and Networks
- 4K Visualization, Development and Demonstrations
SAGE sites (2)

University of São Paulo (USP) – LASSU
- Laboratory of ICT Sustainability
- Classroom
SAGE sites (3)

University of Sao Paulo (USP) – LASSU
  – Laboratory of ICT Sustainability
  – Multimedia Conference Room
SAGE sites (4)

RNP – Rio de Janeiro

- Brazilian NREN headquarters
- Divulgation and demonstrations
SAGE sites (5)

RNP – Brasilia

- Brazilian NREN branch in federal capital
- Divulgation and demonstrations
SAGE sites (6)

Fluminense Federal University (Niterói, RJ)
- Games and Simulations Visualization

Display wall installed in a classroom
SAGE sites (7)

Mackenzie University – LabCine (São Paulo)
• Cinema and visual arts
SAGE sites (8)

Bahiana School of Medicine and Public Health (Salvador, BA)

- Telemedicine / medical education
SAGE sites (9)

Santa Izabel Hospital (Salvador, BA)
- Telemedicine / medical education

Display wall installed in an auditorium
SAGE sites (10)

Federal University of Paraiba – UFPB (João Pessoa, PB)

- Video applications (including 4K)
- Telemedicine
Institutions Under Deployment

<table>
<thead>
<tr>
<th>Institution</th>
<th>Usage</th>
<th>Wall</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unicamp</td>
<td>Campinas State University</td>
<td>Cinema</td>
</tr>
<tr>
<td>INPE</td>
<td>National Institute for Space Research</td>
<td>Weather forecast</td>
</tr>
<tr>
<td>UCSAL</td>
<td>Salvador Catholic University</td>
<td>Geoprocessing</td>
</tr>
</tbody>
</table>

- **2015**
  - Upgrade all sites to SAGE2
  - Demonstration in a booth at Brazilian Computer Network Symposium (SBRC) 2015
2014 demo at SBRC
Sage2 Videos from EVL/UIC

1. PR - music - no text titles
0.35 minutes, 24.6 MB, SAGE2 Trailer - Short - Happy.mp4
https://uofi.box.com/s/2766tnxqcq3gbztivt0aysxbht9r0vw6

2. PR - music - with text titles that explain what is shown
1.23 minutes, 50.4 MB, SAGE2 Trailer - Long - Happy.mp4
https://uofi.box.com/s/0737ys8pxfp1xoau84l1kt1xuxemtqj2

3. voice-over; more educational
2.33 minutes, 2.3 GB, SAGE2-9-DRAFT-021315.mov
https://uofi.box.com/s/9poqik4u6gpx2mhisis75wsrj4bcks0g
Thank you!
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For more information:
www.sagecommons.org