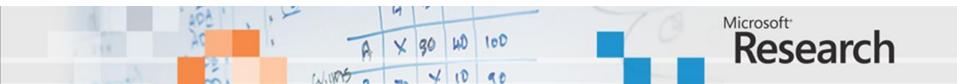
MSR-FAPESP Environmental Science Workshop

Juliana Salles Senior Research Program Manager Microsoft External Research



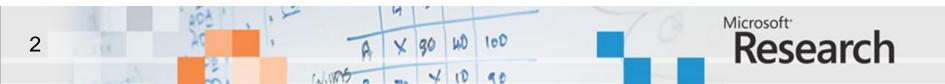
Microsoft Research

- Founded in1991
- ~ 800 people in ~ 60 groups
 - MSR Redmond: ~320 in 32 groups
- World renowned groups



- 14 NAE members, 18 IEEE/ACM Fellows
- Prizes: Kyoto, Fields, Turing, Draper, Oscar



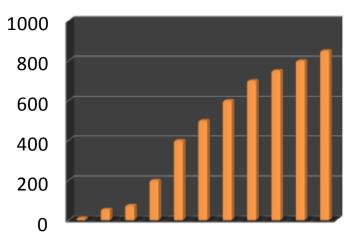


Microsoft Research

(Jan 2005)

(July 2008)

- Redmond, Washington (Sep 1991)
- San Francisco, California (Jun 1995)
- Cambridge, England (July 1997)
- Beijing, China (Nov 1998)
- Silicon Valley, California (July 2001)
- Bangalore, India
- Cambridge, Mass.



1991 1995 1999 2003 2006 2008



MSR Redmond

#PhD Researchers

101

MSR Asia

California



MSR Cambridge, UK



MSR India



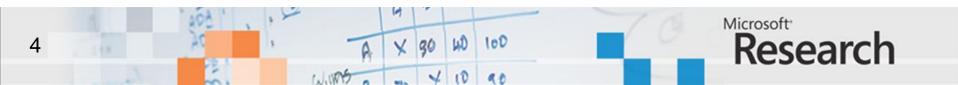
MSR New England

Research



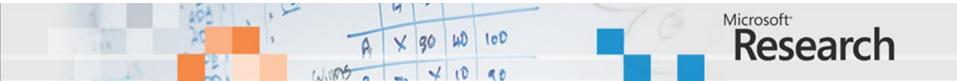
MSR mission statement

- Expand the state of the art in each of the areas in which we do research
- Rapidly transfer innovative technologies into Microsoft products
- Ensure that Microsoft products have a future



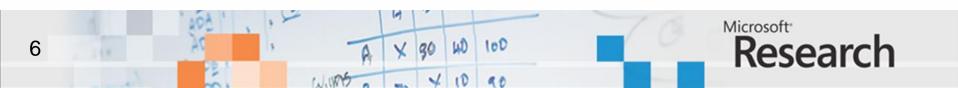
Microsoft External Research in Latin America

- Division within Microsoft Research focused on partnerships between academia, industry and government to advance computer science, education, and research in fields that rely heavily upon advanced computing
- Supporting groundbreaking research to help to build capacity and competitiveness in the region
- Foster regional community development to build a critical mass and connections to the worldwide academic community.
- Support partnerships between universities and organizations in the region; and, with Microsoft Research.



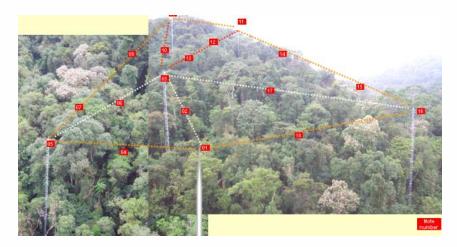
MSR-FAPESP Virtual Institute for ICT Research

- Agreement signed in 2007
- Annual RFPs
 - 4th year
 - Projects in Computer Science, Bioenergy, Biodiversity, eGovernment, Climate Change...



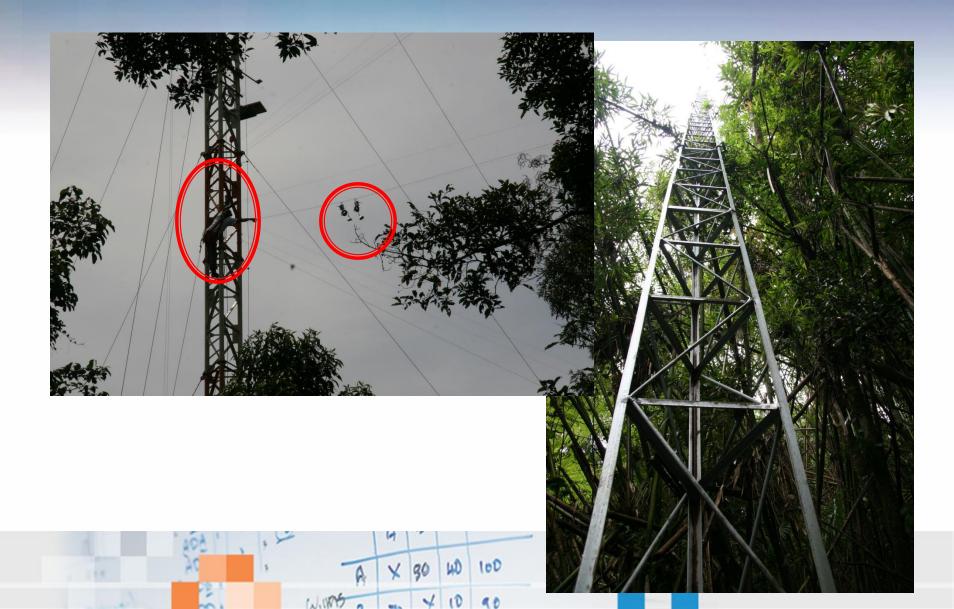
Environmental Science WS

- Deployment of a sensor net in a tropical forest
- Collaborative project involving INPE, USP, JHU and MSR





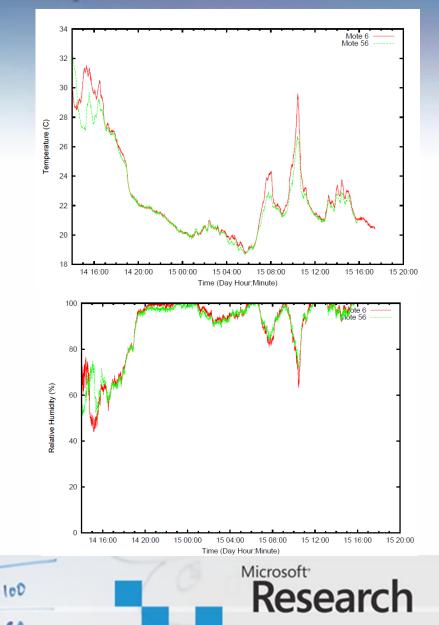
Sensornets in a Tropical Forest



Sensornets in a Tropical Forest

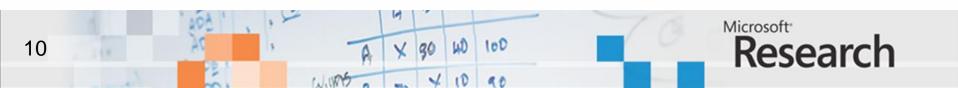
Pilot

- 52 sensors deployed (6 spares)
- 20 million data points collected over 6 weeks
- What are the next steps?



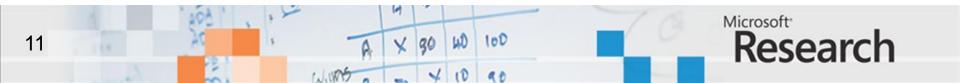
Environmental Science WS

- How technology can enable new scientific findings?
- What research questions would we like to focus on?
- What is the impact on the methodology?
- How your discipline can benefit from new data and new methods?



Environmental Science WS

- What are the science problems you would like to explore and currently can't?
- How technology can enable new scientific discoveries in your field?
- Some key aspects
 - Collaboration
 - Multidisciplinarity
 - New scientific challenges
 - Technology enabling new research scenarios



Questions?

