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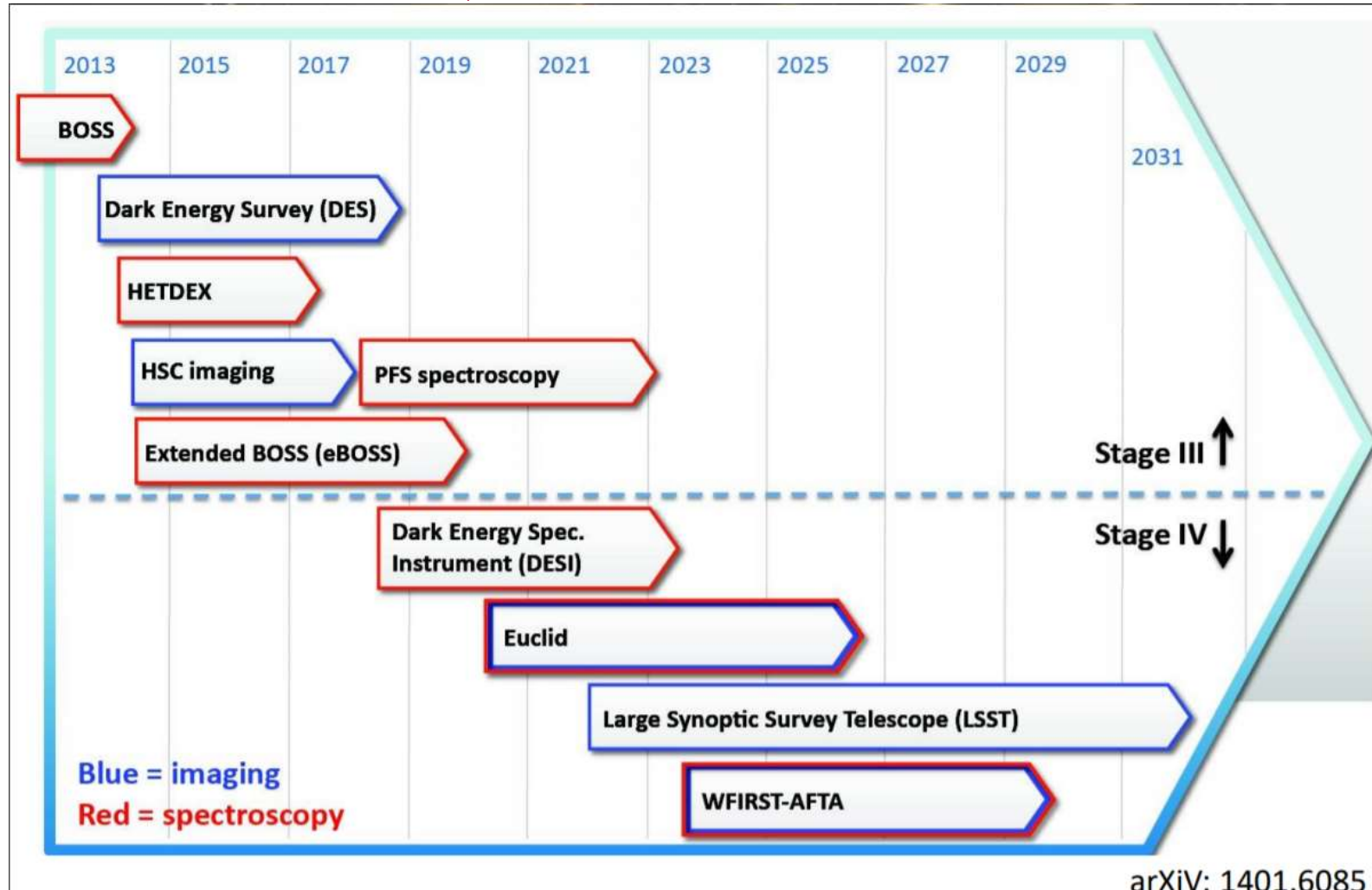


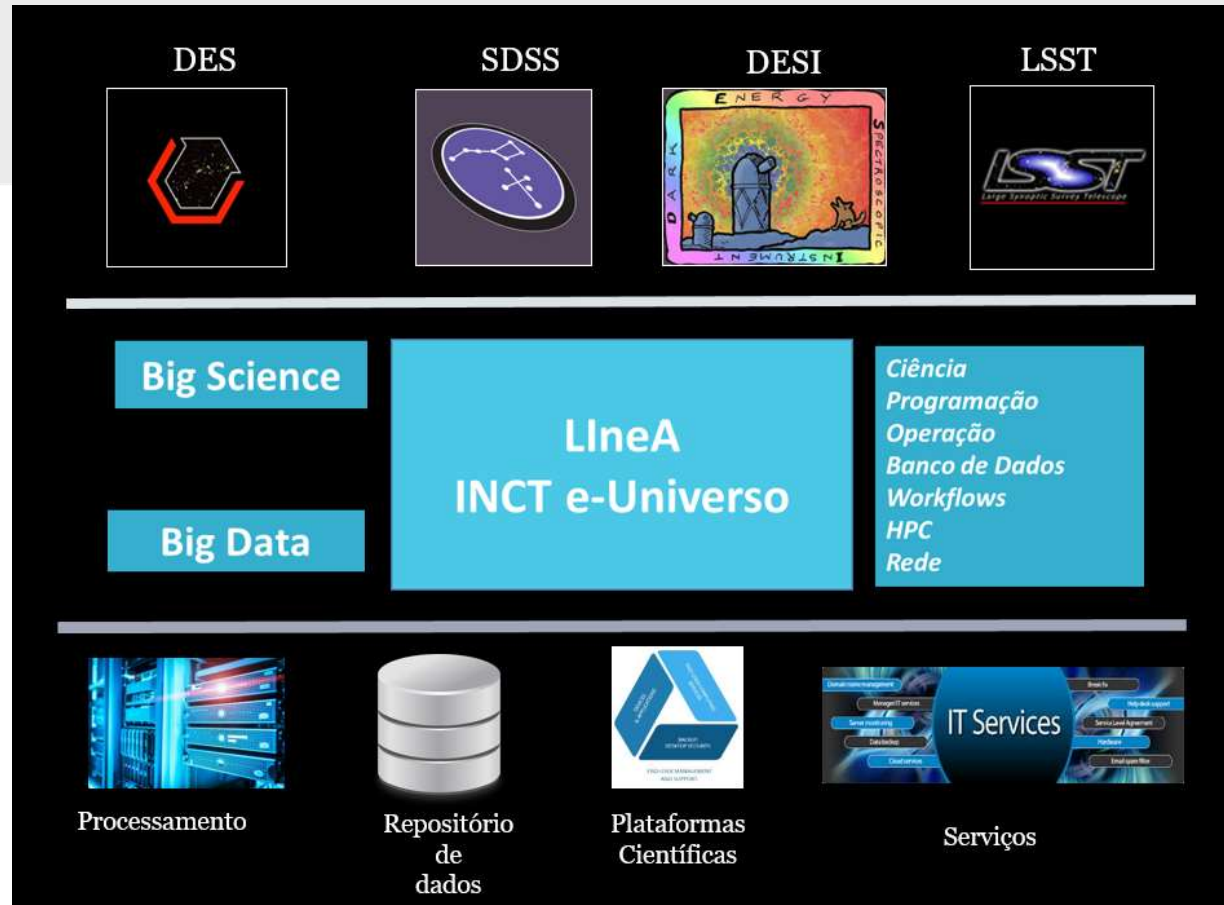
Rubin Observatory Legacy Survey of Space and Time

Rogério Rosenfeld
IFT-UNESP&ICTP-SAIFR&LineA



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Participation of the brazilian community in state-of-the-art cosmology projects



Legacy Survey of Space and Time Vera Rubin Observatory

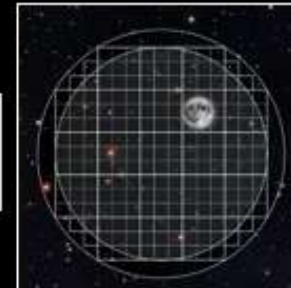


2022-2032 (10 anos)
20,000 graus quadrados
800 visitas em cada filtro ugrizy

15 Tb/noite
10 milhões de alertas/noite
36 bilhões de objetos



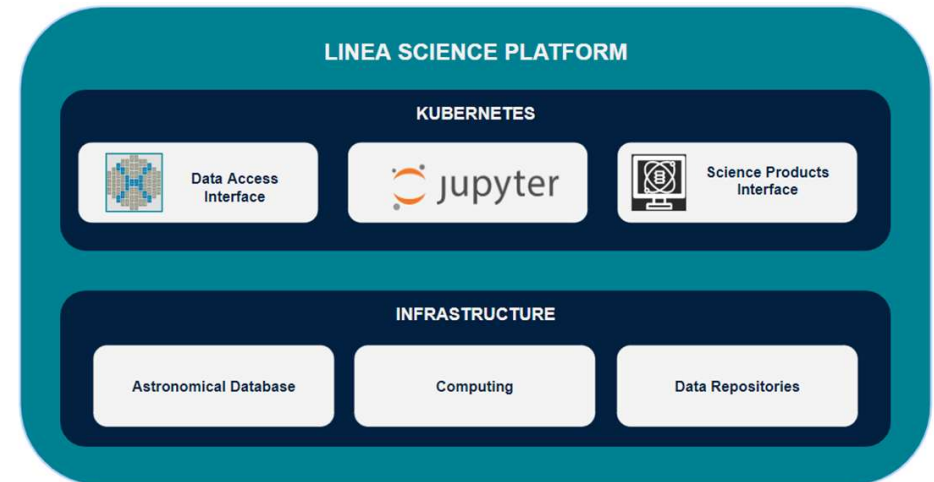
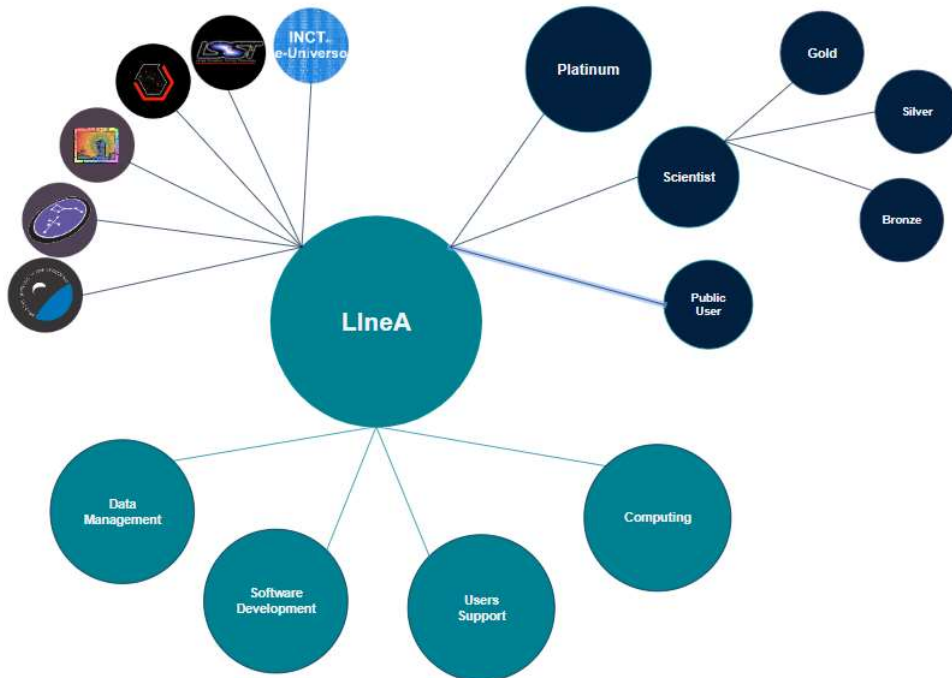
3.2 Gpix
189 CCDs
40 luas



20 years Project - 15 TB of data per night (passing through Brazil)
Agreement with LSST for the Brazilian infrastructure (U\$2 milhões)
Allows for 10 Principal Investigators from Brazil (+40 in teams)

Challenge: Regional Center for e-Science

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Challenge: Regional Center for e-Science

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Recent european initiative

European Science Cluster of
Astronomy & Particle physics
ESFRI research Infrastructures

ESCAPE part of 2020 European Strategy for Particle Physics
HOME / NEWS / ESCAPE PART OF 2020 EUROPEAN STRATEGY FOR PARTICLE PHYSICS

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Challenge: Regional Center for e-Science

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Astrophysics
Cherenkov Telescope Array

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Astrophysics
EGO-Virgo

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Astrophysics
Rubin Observatory Legacy Survey of Space and Time (LSST)

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Could this be an interesting framework for LA?

CosmoSur III

Cosmology and Gravitation in the Southern Cone

[Home](#)

[Plenary talks](#)

[Participants](#)

[Timetable](#)

[Organization](#)

[Talks](#)

[Pictures](#)



Dates: from August 3 to August 7 of 2015

Place: Observatorio Astronómico de Córdoba - Laprida 854, Córdoba - Argentina

South American Workshop on Cosmology in the LSST Era

December 17-21, 2018

São Paulo, Brazil

ICTP-SAIFR/IFT-UNESP



[Home](#)

[List of Speakers](#)

[Videos & Files](#)

[Program](#)

[Photos](#)

[Additional Information](#)

Galaxy surveys are instrumental for the study of the large scale structure of the Universe. These surveys are becoming larger and deeper, producing cosmological (and non-cosmological) results of great importance. The next large survey will be conducted by the Large Synoptic Survey Telescope (LSST), which will have its first light in 2020. In addition, there are several other projects that will have a significant impact on cosmology planned for the same period, with important synergies with LSST. Therefore it is timely to discuss what can be expected from these projects and how we can be prepared to extract information from the future experiments in an efficient and coordinated way. The aim of the workshop is to attract experts in different areas of observational cosmology to discuss recent challenges in the field coming from on-going and planned projects, as well as to enhance the visibility and participation of the South American community in these projects. The format will be of short talks with time for discussions. Contributed talks will be accepted depending on time availability. We also plan to have a Poster and Early Career Scientist sessions. *There is no registration fee.*

Organizers:

- Luiz Nicolaci da Costa (Observatório Nacional & LIneA, Brazil)
- Jeff Newman (University of Pittsburgh, USA)
- Jorge Noreña (PUC-Valparaiso, Chile)
- Rogerio Rosenfeld (IFT-UNESP & ICTP-SAIFR & LIneA, Brazil)
- Domenico Sapone (University of Chile)
- Michael Strauss (Princeton University, USA)

Supposed to take place in April in Buenos Aires

GrACo IV

IV Reunión Argentino-Brasileña de Gravitación, Astrofísica y Cosmología

IV Reunião Argentino-Brasileira de Gravitação, Astrofísica e Cosmologia

POSTPONED UNTIL FURTHER NOTICE DUE TO COVID-19

2020 Activities

Latin American Workshop on Observational Cosmology December 14-19, 2020

Organizers: Cora Dvorkin, Nelson Padilla, Miguel Quartin & Rogerio Rosenfeld

A field of galaxies, including spiral, elliptical, and irregular shapes in various colors (blue, orange, white), set against a dark background. The text "Thank you" is overlaid in a light blue color.

Thank you