

Dr. Patricia Henning, Director of New Mexico Operations National Radio Astronomy Observatory

Presentation to the Legislative Finance Committee July 16, 2024 Socorro







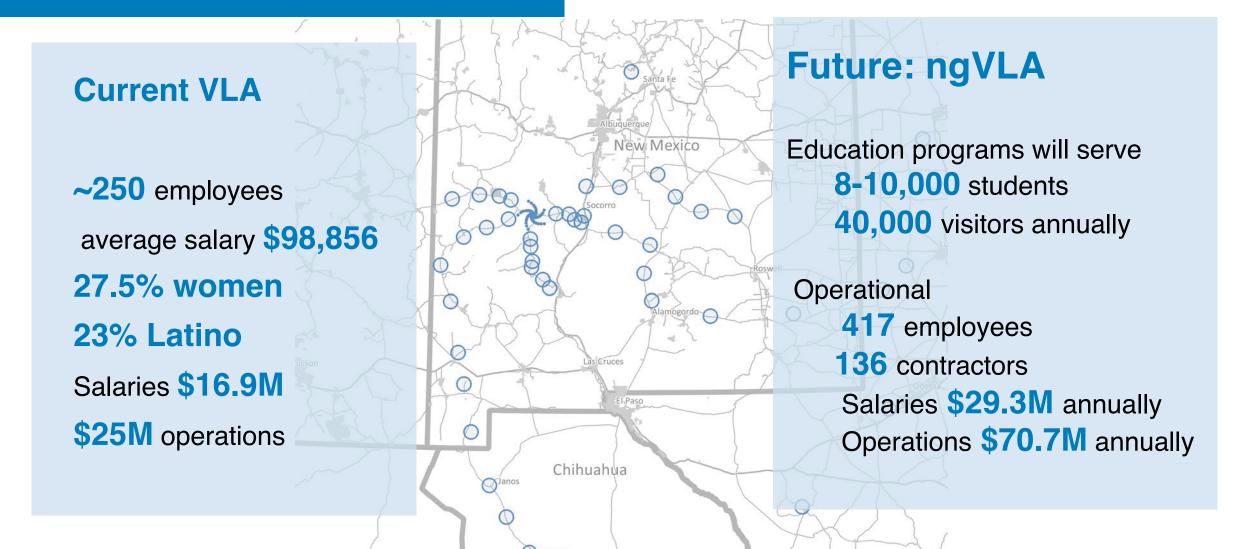
Who Operates the Very Large Array?





National

NRAO Impact in New Mexico



National Radio

Astronomy Observatory



• GPS support • Space situational awareness

> Management of electromagnetic spectrum

• 5G technology

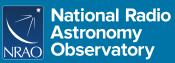
• Satellite downlink

• Data processing techniques • Visualization tools

• Advances in complex senor techologies

• Advanced in sensitive electronics





ngVLA Expansion Needs



Removal of **Barriers to** Recruiting Employees



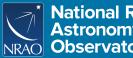
Viable Solutions to design and Development Needs

Building Pathways into STEM jobs



Attracting Tourists





National Radio Astronomy Observatory

Partnerships with State and Federal Agencies

| The Honorable John J. Chairman. | Nershan | |
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| Room 338 | ne risance committee | |
| The Capital | | |
| Santa Te., New Texico | #7543 | |
| Lanta Fe, New Sealco | 87903 | |
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| information concerning Center would attract a | the VLA and its pro samp visitors to a ma- ir visits much more | eets, photographs and some othe gram, Construction of the Vis- jor scientific site in a remot- informative and bring tourist |
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Federal partnerships include

• US Navy, NASA, Smithsonian, FCC

Historic Partnership with State

• Previous Visitor center development

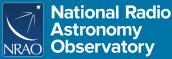
New Mexico Tech and University of New Mexico

- Annual Symposium

Next Generation STEM Learning Center

- Total economic impact \$53M
- 387 jobs during construction
- **\$22.1M** in local income





Economic Impact of the Next Generation STEM Learning Center

Short Term (2026-2029) \$25.5M direct construction spending \$20M indirect & induced 387 jobs \$22.1M worker income Long Term (2029 on) 21 permanent local jobs \$1.23M annual worker income \$2.86M annual output Educational Infrastructure

- Federal CDS commitment
- Serve every K-12 student in New Mexico
- Enthusiastic stakeholder support
- Strong track record running STEM learning center in rural area

From economic impact study conducted by Dr. Kelly O'Donnell in 2024.







This is a unique opportunity for New Mexico to leverage this substantial federal investment to enhance scientific and educational prospects for students of all ages throughout the state.

Thank you for the opportunity to speak with you today and thank you for your service to our state.

We are grateful for your time and consideration.

Presentation to the Legislative Finance Committee





National Radio Astronomy Observatory