



NATIONAL RADIO ASTRONOMY OBSERVATORY



# Introduction

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**ngVLA**  
The Next Generation Very Large Array

# Welcome

- **Scientists, engineers, educators, artists, administrators, international partners... amazing group.**
- **ngVLA – large-N cm/mm array, pursuing key science goals, 2028+**
- **Factoids & Assumptions:**
  - **\$1.5B, 3\*VLA Ops cost,**
  - **Foreign partnership: 33-50% critical,**
  - **Design/Development Phase (\$40-50M/five years),**
  - **Primary Mission: 20 yrs,**
  - **Options: Low-frequency & VLBI,**
  - **Key Science – exciting!**



- SKA – remarkable initiative, important for our field.
- ngVLA is US route into SKA, not competitor. Strong synergies possible.
- **Timing**
  - Decadal survey approaching... this concept, now.
  - Science funding - ??? Note: ALMA funded during dot-com bubble bursting..
  - Scientifically – ngVLA promise directly connected to key community interests, public/political interest is high...
  - $\Rightarrow$  Timing is OK.
- **Key factors: Science promise, quality of definition, community support.**
- **US Groundwork has been underway for a few years... broad interest.**



June 15th



# This Meeting

- Focus on ngVLA. Convergence of concepts important.
- Don't get weird about the tools – use them, note the caveats/impacts.
- There are many topics and voices. Take turns, & choose your moment.
- Science rules. Perfection is the enemy. Politics makes decisions too.
- ngVLA: Time is right, momentum is building... this is an important moment for the project. Glad you're here 😊 Have a good meeting.





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