

INAF

ISTITUTO NAZIONALE DI ASTROFISICA
NATIONAL INSTITUTE FOR ASTROPHYSICS

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A "YOUNG"
INSTITUTE WITH A
LONG TRADITION

ALTHOUGH INAF WAS BORN ONLY 5 YEARS
AGO, IT HAS INHERITED THE LONG HISTORY AND
THE CULTURE OF ALL ITALIAN ASTRONOMICAL
OBSERVATORIES AND INSTITUTES OF
ASTROPHYSICS, GIVING THEM MORE
STRENGTH AND INTERNATIONAL
VISIBILITY.

SPACE ASTROPHYSICS

A LARGE FRACTION OF THE SCIENCE
PROGRAMMES CARRIED OUT BY INAF
REQUIRES THE USE OF OBSERVATIONS FROM
SPACE. EXPLOITING THE COMPLEMENTARITY
BETWEEN THE GROUND-BASED AND
SPACE BORN OBSERVATIONS HAS BECOME
INDEED A COMMON PRACTICE IN MODERN
ASTROPHYSICS AND COSMOLOGY.

INAF MISSION

INAF PROMOTES, REALIZES AND
COORDINATES RESEARCH ACTIVITIES
IN ASTRONOMY, RADIO ASTRONOMY, SPACE
ASTROPHYSICS AND COSMIC PHYSICS, IN CLOSE
CONNECTION WITH RESEARCH PROGRAMMES OF
THE EUROPEAN UNION AND OTHER INTERNATIONAL
ORGANIZATIONS. INAF COLLABORATES BOTH
WITH UNIVERSITIES AND WITH PUBLIC AND
PRIVATE, NATIONAL AND INTERNATIONAL,
ORGANIZATIONS.

INAF IS THE MAIN ITALIAN INSTITUTION FOR THE RESEARCH IN ASTRONOMY AND ASTROPHYSICS

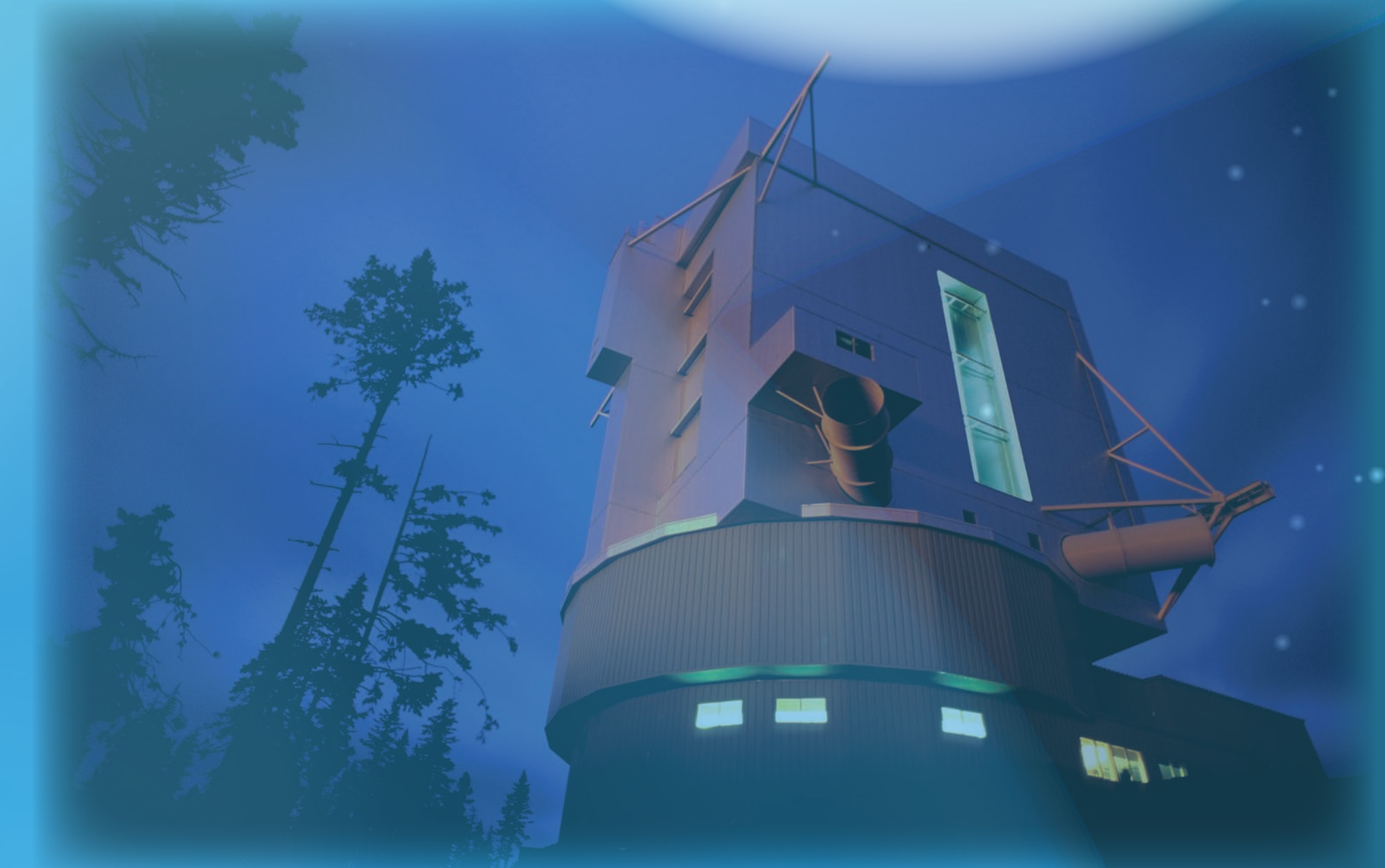


INAF: FUNDAMENTAL RESEARCH AND TECHNOLOGY DEVELOPMENT FOR A MORE COMPETITIVE COUNTRY

NOWADAYS THE CHALLENGE OF ASTROPHYSICAL
RESEARCH IS A GLOBAL ONE AND ITS SPIN-OFFS FOR
TECHNOLOGY AND INDUSTRY ARE GLOBAL TOO.

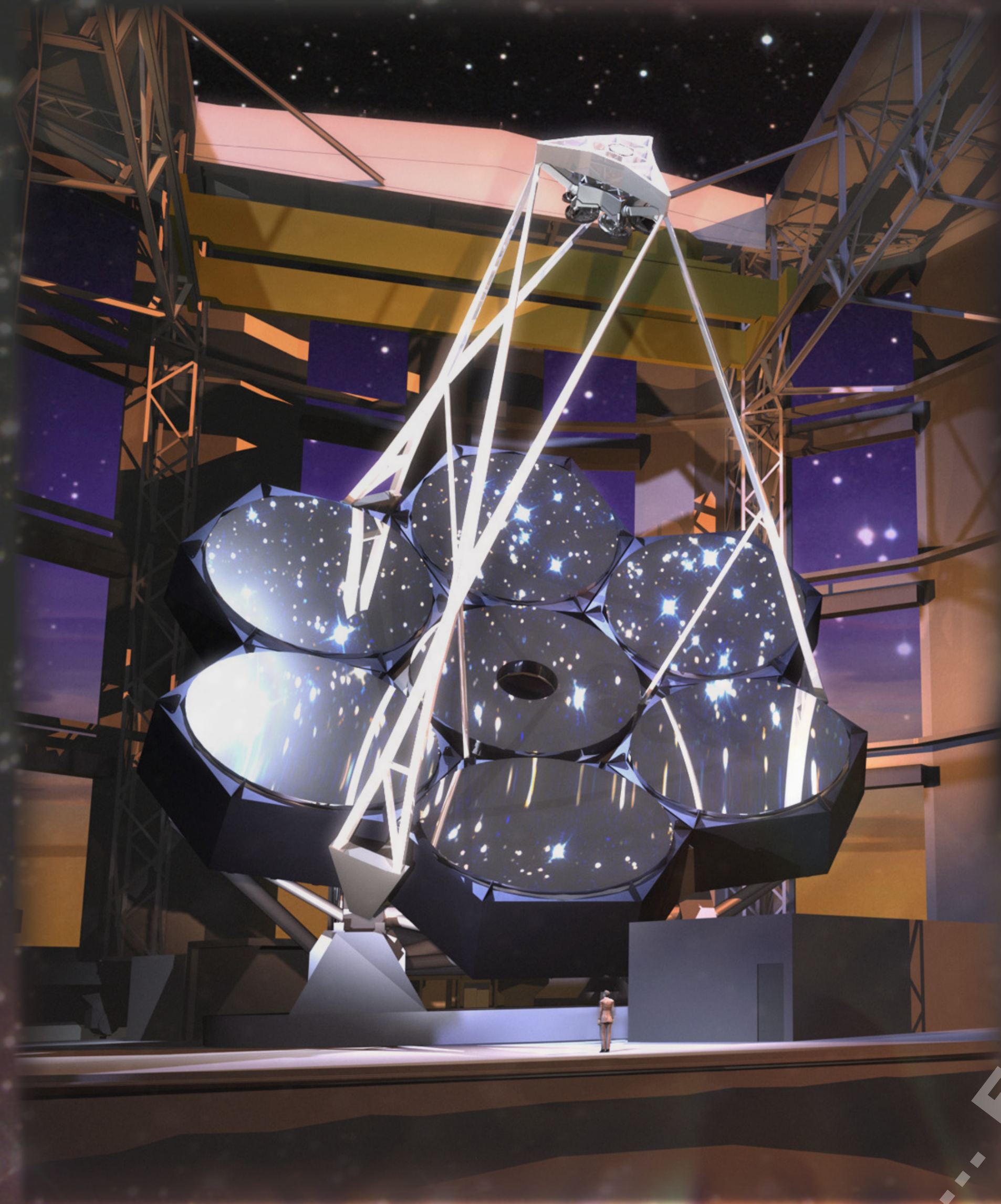
GOOD SCIENCE PRODUCES GOOD RESULTS: ITALY IS
THE FIFTH COUNTRY WORLDWIDE IN ASTROPHYSICS
AND SPACE SCIENCE (SOURCE: ISI 2005) AND OUR HOME
INDUSTRY TAKES PART IN INTERNATIONAL TENDERS,
GETTING EXCELLENT RESULTS.

TECHNOLOGY



THE NATIONAL INSTITUTE FOR ASTROPHYSICS, INAF, IS THE ITALIAN
RESEARCH INSTITUTION FOR ASTRONOMY AND ASTROPHYSICS.
THE HEADQUARTERS ARE IN ROME AND 19 ASTRONOMICAL
OBSERVATORIES AND LABORATORIES ARE SPREAD ALL OVER THE
COUNTRY. OVER 1000 STAFF PEOPLE WORK AT INAF. NEARLY 60%
ARE RESEARCHERS. MOREOVER, ALSO ALL ITALIAN UNIVERSITY
RESEARCHERS AND PROFESSORS OF ASTROPHYSICS BELONG TO
INAF AS "ASSOCIATE RESEARCHERS"

NATIONAL FACILITIES OUTSIDE THE COUNTRY:
TNG (GALILEO NATIONAL TELESCOPE) IN LAS CANARIAS
ISLANDS, LBT (LARGE BINOCULAR TELESCOPE) IN ARIZONA
(PARTNERSHIP WITH USA & GERMANY)



**TOWARDS
EXTREMELY
LARGE
TELESCOPES**

THE INAF LONG TERM SCIENCE ROADMAP INCLUDES THE ENTIRE FIELD OF THE SCIENCE OF THE UNIVERSE, FROM STUDIES ON THE SOLAR SYSTEM TO OBSERVATIONAL AND THEORETICAL COSMOLOGY.

THE COMPLEXITY OF THE OBSERVED PHENOMENA AND THE NEED TO DEEPLY EXPLORE THE UNIVERSE REQUIRES THE DEVELOPMENT OF MORE AND MORE EFFECTIVE TELESCOPES AND, ABOVE ALL, ADVANCED TECHNOLOGY.

THE INNOVATIVE ADAPTIVE OPTICS TECHNOLOGY DEVELOPED BY INAF IS ESSENTIAL FOR THE FUTURE EXTREMELY LARGE TELESCOPES.

TWO SPIN-OFFS FOR THE APPLICATION OF THIS TECHNOLOGY TO BIOMEDICINE AND PRODUCTION OF CLEAN ENERGY HAVE ALSO BEEN SET UP.

... A ROADMAP FROM THE LARGE BINOCULAR TELESCOPE ... TO ...
... A ROADMAP FROM THE LARGE BINOCULAR TELESCOPE ... TO ...

... EXTREMELY LARGE TELESCOPES ...
... EXTREMELY LARGE TELESCOPES ...

... TO ...
... TO ...