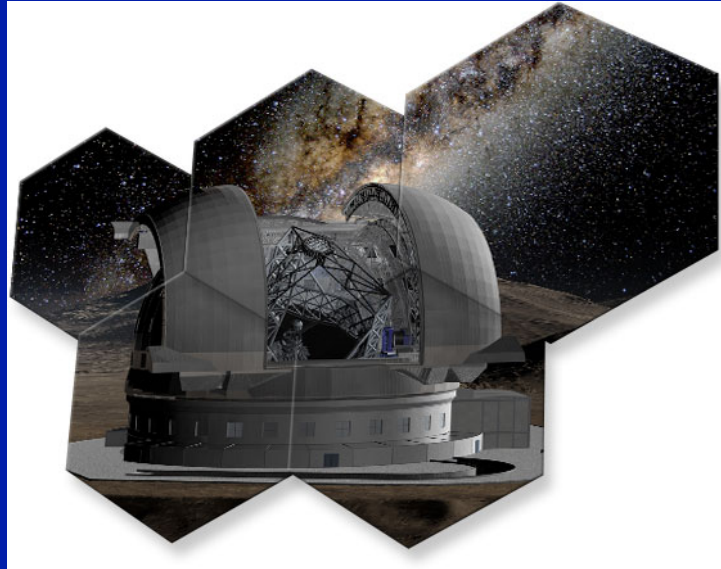


T-REX: Italian technologies for E-ELT



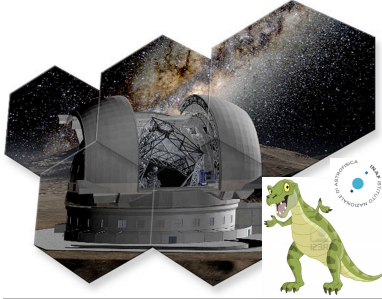
INAF *progetto premiale* awarded by MIUR

Monica Tosi

INAF – Osservatorio Astronomico di Bologna

Bologna, January 14th 2013

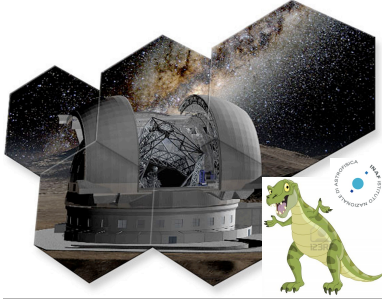




Progetto premiale on E-ELT: T-REX

Following a decision taken by Berlusconi's Government, every year MIUR takes a percentage of 7% out of the budget of all of its Research Institutes (EPR: INAF, INFN, CNR, etc.) and is supposed to redistribute that money to national projects presented by the EPR Institutes on a competitive, peer review basis. These projects, supported by the 7% budget tax, are dubbed *progetti premiali*.

At the end of 2011 MIUR put out the first call for *progetti premiali*. INAF presented 4 such applications and got 3 approved, one of them being T-REX. Notice that the total allocation to INAF turned out to be higher than 7% of its budget: holidays were used fruitfully ... 😊



Progetto premiale on E-ELT

Application: January 2012

PI: M. Tosi

Requested duration: 3 years

Requested budget: 3.9+3.7+3.6 M€

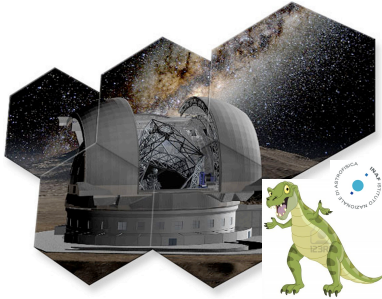
Financed duration: 1 year

Allocated budget: 3.9 M€ (to be spent within 1 year)

Participants: R.C. Butler, S. Cristiani, G. Garilli, R. Gratton, A. Marconi, R. Ragazzoni, A. Renzini, F.M. ...
most of the INAF institutes and

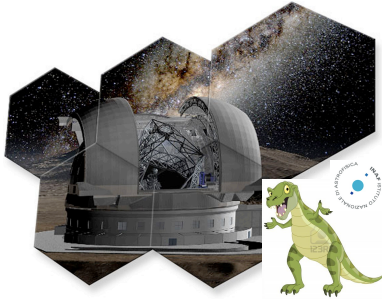
Good news:

**We can (and shall) apply
again for continuation:
deadline February 15th**



Main Objectives

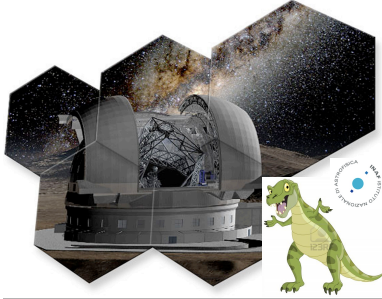
- **Strengthen the position and role of INAF and Italian Universities in the international consortia**, currently under development, for the realization of the E-ELT instruments.
- **Support the executive design phase of the E-ELT instrumentation, strengthening facilities and laboratories.**
- **Promote the formation of young researchers to be employed in the design and construction of instrumentation for the E-ELT** via training by highly qualified personnel.
- **Develop new technologies to ensure the feasibility of the E-ELT instruments.**
Ensure the maintenance/enhancement of scientific and industrial know-how.
- **Promote integration processes between research institutes, universities and industry.**
- **Promote the transfer of technology from the field of astronomical instrumentation to other fields such as renewable energy, medical technologies, information technology and communication and to technologies aimed at nano-electronics using lithographic techniques.**



Main Objectives

- Strengthen the position and role of Italian universities in the international consortia, currently in charge of the E-ELT instruments.
- Support the development and implementation, in Italy, of the E-ELT instruments.
- Promote the design and development of qualified personnel in the field of astronomical instrumentation.
- Develop the feasibility of the E-ELT instruments.
- Ensure the transfer of scientific and industrial know-how.
- Promote the cooperation between research institutes, universities and industry.
- Promote the transfer of technology from the field of astronomical instrumentation to other fields such as renewable energy, medical technologies, information technology and communication and to technologies aimed at nano-electronics using lithographic techniques.

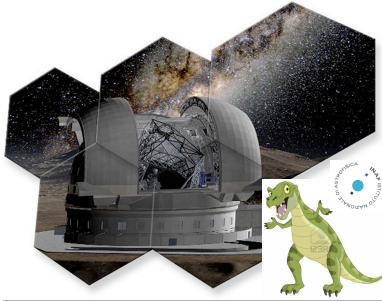
Maximize Italian contribution to E-ELT technology and corresponding return



T-REX

Operating Units (and coordinators)

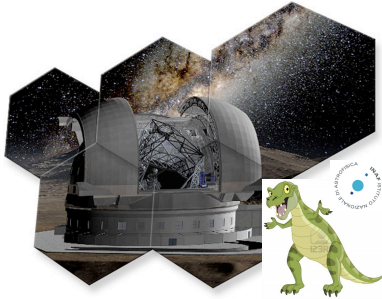
- OU-1 ELT-INAF COORDINATION (M. Tosi)
- OU-2 ELT-MIRRORS (F.M. Zerbi)
- OU-3 ELT-CAM (E. Diolaiti)
- OU-4 ELT-HIRES (L. Origlia)
- OU-5 ELT-MOS (B. Garilli)
- OU-6 ELT-PCS (R. Gratton)



T-REX

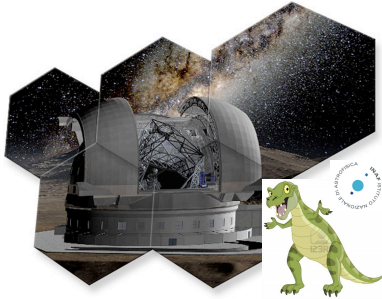
Operating Units (and coordinators)

- OU-1 ELT-INAF COORDINATION (M. Tosi)
- OU-2 ELT-MIRRORS (see Pareschi's talk)
- OU-3 ELT-CAM (E. Diolaiti)
- OU-4 ELT-HIRES (L. Origlia)
- OU-5 ELT-MOS (see Fontana's talk)
- OU-6 ELT-PCS (R. Gratton)



Management ⁽¹⁾

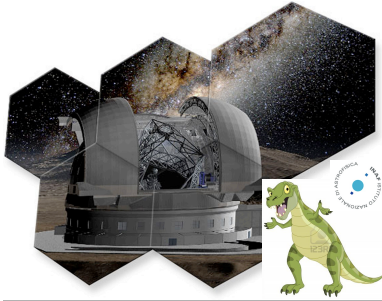
T-REX is managed in tight connection with the INAF Science Directorate (as all science and technology projects of national and international relevance must)



Management ⁽²⁾

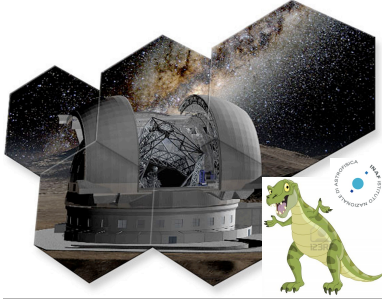
T-REX is managed in tight connection
with the INAF Science Directorate

- We discuss with the Science Director all the major issues/needs.
- We have decided together how to distribute both the funds awarded to T-REX (3.9 M€) and the extra-budget allocated to INAF for E-ELT in 2012 (6 M€, most of which will go directly to ESO as annual fee for our participation to the project).
- In agreement with the CdA, we will devote 10% of the budget to PRIN INAF for projects of interest.



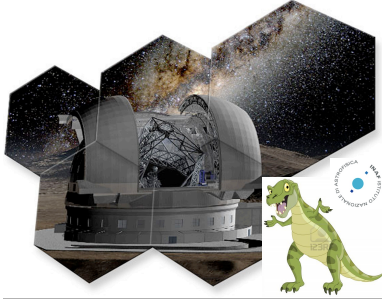
Management (3)

- The OU coordinators are in charge of the activities of their OU, of their financial and FTE requests, and are responsible for the allocated resources.
- The members of OU1 are in charge of the coordination of the OUs and of discussing the allocation of resources.



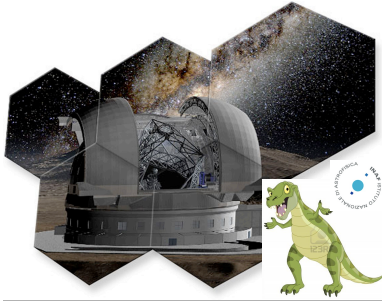
First year (in practice 2013)

- For h/w investment we have given highest priority to activities for projects related to E-ELT first light:
2.7 M€ to OU2-MIRRORS for Metrology Lab
1.5 M€ to OU3-CAM for Maory
- We allocated 1.2 M€ to the OUs for 15 FTEs and 60 K€ for mobility.



Second year (starting tomorrow...)

- We will apply in response to the new call for *Progetti Premiali* (deadline Feb 15th).
- Baseline: same format successful last year, i.e. same PI, same layout of project, same OUs.
- However: open to new entries, in terms of techno-projects of strict interest for E-ELT with high visibility of Italian contribution (e.g. PI or high level responsibility) and high probability of success within ESO
- ESO feedback highly appreciated ...



Watch next presentations for details.

Thank you



www.bo.astro.it/premiale.elt