

GENESIS-SKA outreach

How to catch general public, how to engage business

Caterina Boccato, Serena Pastore





Our commitment is to do Communication, Public and Industrial Outreach Activities

The search is on! And SKA will be at the forefront of one of humankind's greatest quests

What are the proper conditions (chemicals, dynamical, environment ...)

– during the early formation phase(s?) of planetary systems - which can determine the rise of life?



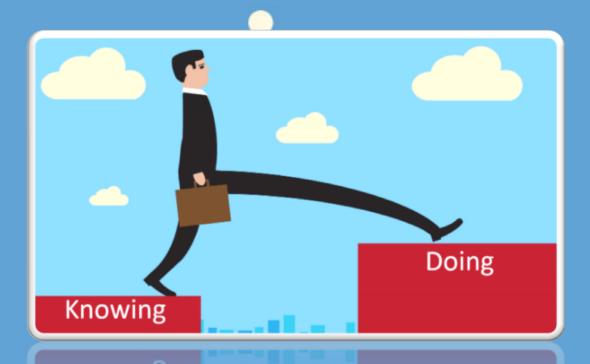
GENESIS-SKA Outreach main goals

- 1. To communicate and disseminate the main scientific aspects of this project to general public and schools always promoting the image of the National Institute for Astrophysics
- 2. To develop our activities always working in synergy with the contex
- 3. To study one, or more, actions also for industrial target in order to strengthen the relationship between INAF and national industries





The importance of being competent



Being competent in a specific field doesn't mean that a person knows how to do everything in that field, but rather that they know what to do and how to get it done



People involved

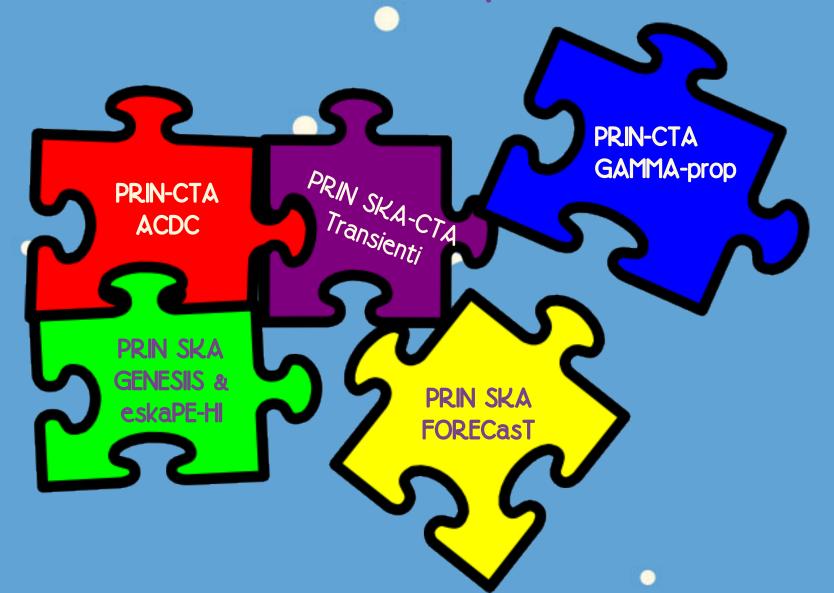
Caterina Boccato - Padova - Coordination



For more than 20 years we have been professional in the field of education and communication in Astronomy and Science

INAF ROLE coordination and optimization









VISION

An organization's vision describes what the organization hopes to become in the future. Well-constructed visions clearly articulate an organization's aspirations.

Astronomy for a better world Conoscere il cosmo per migliorare il mondo

> #astronomyforabetterworld #eduinaf #inaf

INAF outreach goal is to establish a positive public image of our Institute

To reach this goal we need to implement internal, or external, best practices in order to grow up as professional community



We also need to share meanings and objectives

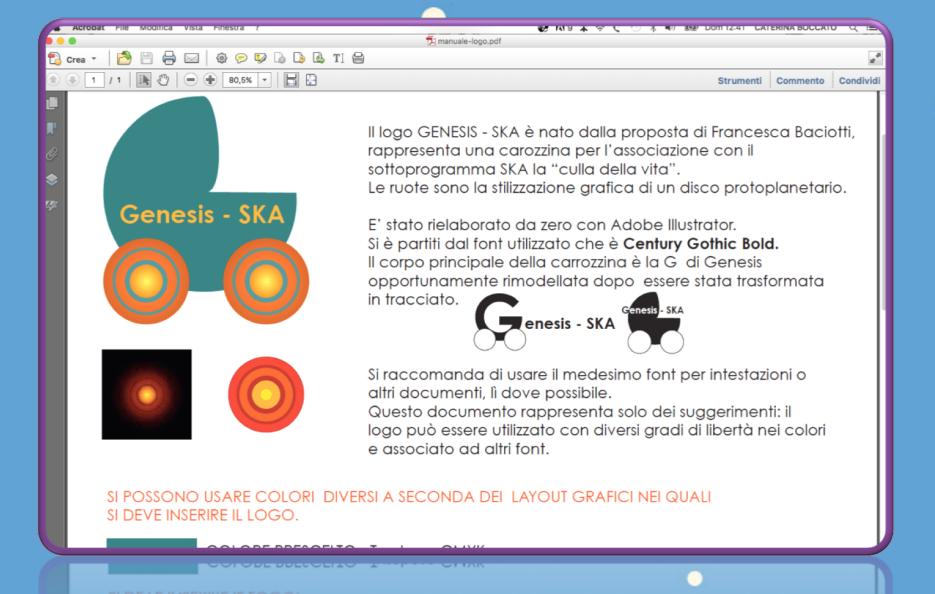
Actions



- Visual identity
- Virtual reality
- Public talk (e.g. Costellazione Manga)
- Educational edu.inaf
- Directly from SKA
- Industrial Outreach

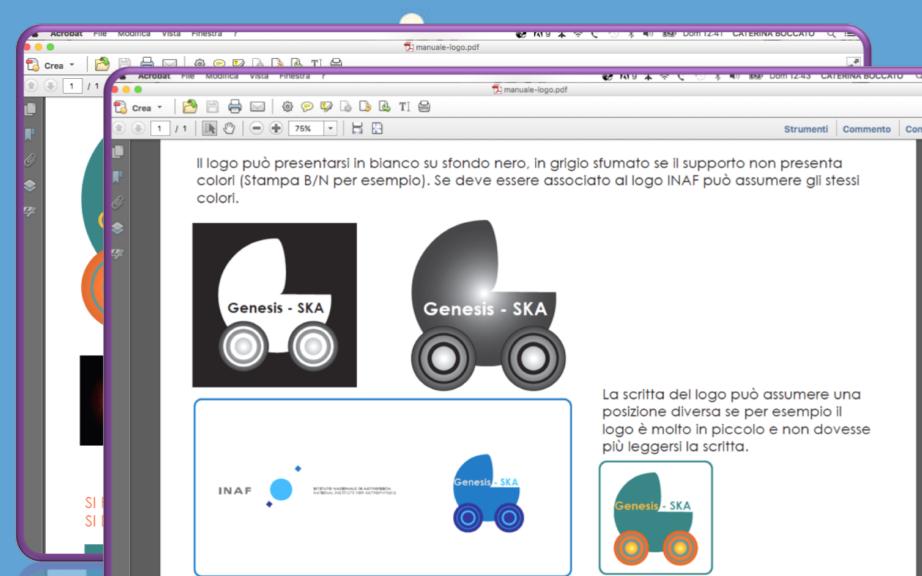


Visual Identity

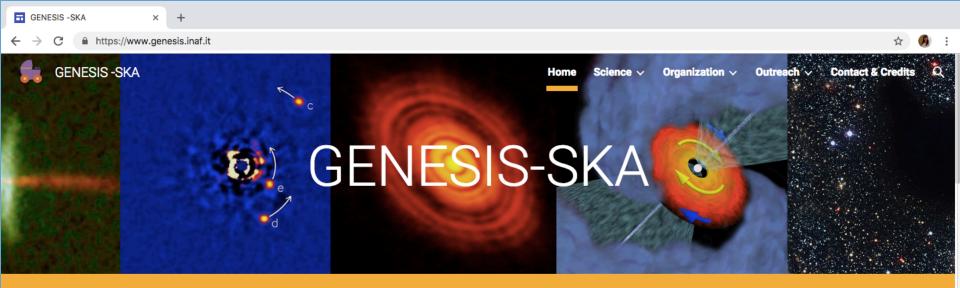




Visual Identity



Web site www.genesis.inaf.it/



GEneral conNditions in Early planetary Systems for the rISe of life with SKA

C. Codella¹, J.M. Alcala², A. Ciaravella³, R. Gratton⁴, G. Lodato⁵, B. Nisini⁶, M.E. Palumbo⁷, D. Turrini⁸, C. Boccato⁴, L. Testi⁹, and the **GENESIS team**

The recipe to make a habitable planet like our own Earth requires a relatively small rocky planet, at the right distance from the host star, with a not too thick atmosphere rich in volatiles and capable of developing complex organic chemistry. The GENESIS-SKA project, supported as PRIN-INAF, is carrying on studies of planet formation, and pre-



Virtual Reality

WOW factor

We are involved in two big science projects which are not still physically realized





The previous is a popularization activity



What does popularization mean?

Communication activity (formal or informal) towards general public

Dissemination (outreach) objectives

Science as shared environment, connections and entertainment

- 1.tickle citizens' interest about results and methodologies
- 2.allow citizens and scientists dialogue
- 3.facilitate the citizens' participation to the cultural process
- 4.stimulate critical thinking

Then, we plan and/or perform educational activities



Designing and TESTING educational activtiies related to INAF - SKA projects - FORMAL

Propose SKA science to unconventional audience with different background and interests – INFORMAL











Notti d'estate ad Arcetri 2018

MARTEDI 4 SETTEMBRE

COSTELLATIONE MANGA LE STELLE NEL FUMETTO E NEL CINEMA DI ANIMATIONE GIAPPONESE



Daria Dall'Olio, Chalmers University of Technology di Göteborg, e Claudio Codella, INAF Osservatorio Astrofisico di Arcetri







Ufo Robot Grendizer

stars, planets, planetary nebulae

What is a star? What is a planet?

And a planetary nebula?

Vega: does it really have a planetary system?

Costellazione Manga: the core pillars

Costellazione Manga is an efficient pedagogical tool to popularise and communicate astronomy.

Common language of anime and manga

Comparison between fiction and science

- stimulates critical thinking and curiosity,
- motivates people to learn more about astronomy,
- helps people to remember concepts,
- builds connections between different topics.

Costellazione Manga: the core pillars

Costellazione Manga is an efficient pedagogical tool to popularise and communicate astronomy.



Costellazione Manga: the core pillars



Common langu



ections between different topics.

Riferimenti astronomia
mei mange e ensur





AstroEdu and Edu.inaf.it





FUTURE ACTIVITIES

GENESIS Labs

Labs can contribute to educational material of big interest for schools because they are interdisciplinary In fact they play a crucial role into the study of very simple molecules, in particular the Formammide, which is important to understand:

- 1. the processes that bring to the formation of prebiotic elements and
- 2. how they survive in the different astrophysical environments subjected to cosmic radiation and cosmic rays

Infographic with LED light effects





From SKA





The Cosmic Adventures of Alice & Bob is a fully-illustrated comic book that was produced by CAASTRO, the Australian Research Council Centre of Excellence for All-sky Astrophysics, to communicate ideas about science research, innovation, and astronomy to primary school children. The book can be read on a number of different levels and the classroom ideas presented here can be adapted to the various interests and abilities of students. The book is most suitable for children in Years 3 to 6, but this could be extended to Year 2 and Years 7 and 8 depending on individual students

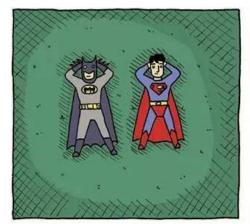




THANKS!

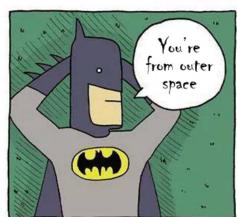
Questions?

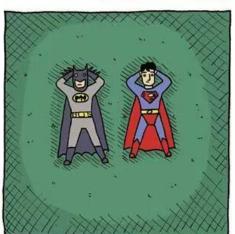
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