

# Initiatives in Italy to Engage Young People and Schools in Informatics

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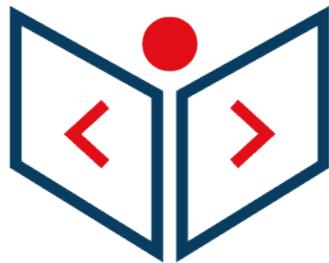


**ECSS 2025, Rennes, 29 October 2025**

# National Lab. "Informatics & School"

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- Dissemination of the scientific culture of informatics
- Research and education on informatics teaching in school
- Spreading in school the knowlegde of informatics as scientific discipline
- Est. 2020 (jun.2017 WG), 36 Nodes, 101 researchers



**INFORMATICA  
E SCUOLA**

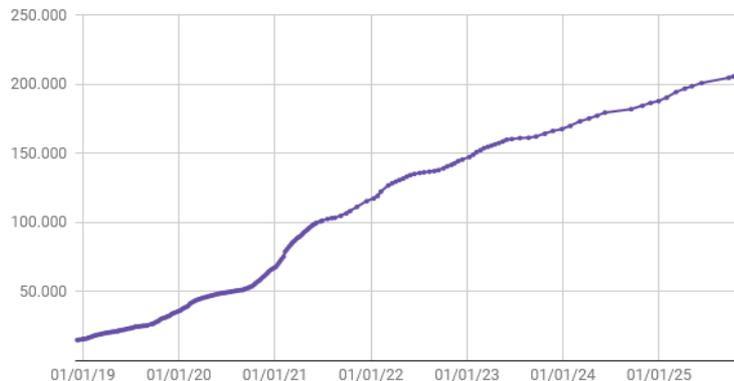
LABORATORIO NAZIONALE 

# Programma il Futuro

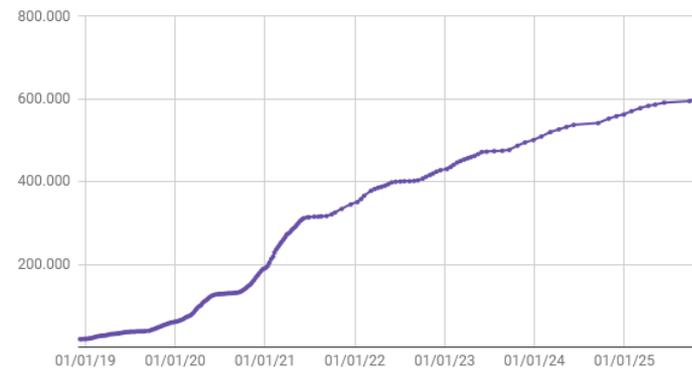
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- Since 2014 spreading knowledge of Informatics as scientific discipline in schools and raising awareness on digital technologies
- Based on Code.org material, with lesson plans and supporting videos in Italian, plus webinars and a yearly national competition for classes
- 40K teachers, 3M students, 90% schools involved
- European and Italian prizes, scientific publications

TOTALE download guide



TOTALE visualizzazioni video



# National Conference on Informatics Education

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- <https://itadinfo.it>
- Since 2022:
  - Scientific presentations and posters
  - On-the-field experiences
  - Educational workshops
- 200 participants

**[ITADINFO]**

**CONVEGNO ITALIANO  
SULLA DIDATTICA DELL'INFORMATICA**

# Bebras

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- Competition for teams in school (9-18 yrs old) on problems inspired as informatics presented as games
  - No specific knowledge is required
  - May be further developed using accompanying material <https://bebras.it/explorer.html>
- 2024: 4M students in 74 countries, 60K in Italy
- Since beginning (2016-17) 400k total in Italy
- Yearly teachers participation: 1200
- Univ. Milano: material adaptation/translation, support during competition period (first half November)
- Present in a couple of school books

# Pinkamp – Girls count!

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- Increasing female presence in STEM
- Univ. L'Aquila free 2 weeks camp to support interested girls (16+ yrs old) towards a STEM career
- A multidisciplinary approach (Anthropology, Law, Ethics and Philosophy, Art, Linguistics) so as to shape digital technology developments in a gender balanced way
- 1<sup>st</sup> wk: lecture, 2<sup>nd</sup> wk: hands-on
- Since 2019: 300 girls. 90% of them attended follow-up initiatives
- Highly useful to build self-confidence and empowerment

# Ragazze Digitali

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- Univ. Modena & Reggio Emilia, since 2014
- 1 week free Summer Camps for girls (16+ yrs old)
- Focusing on informatics
- 300 students involved in 15 camps
- Regional focus (Emilia Romagna, recently Lombardia)
- Since 2024 extensions to 11-15 yrs old girls: 140 participants

# Social4School

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- Game based approach for raising awareness towards social networks and internet content
- Interaction on a simulated social network and discussion of issues of privacy, cyberbullying, hate speech, truthfulness, biases, in connection with content related to school subjects
- <https://www.social4school.net/#/home>
- <https://www.youtube.com/@social4school600>
- Since 2015: 3000+ students, 200+ teachers
- 280 master students in Education Sciences have used project's material
- Univ. Torino

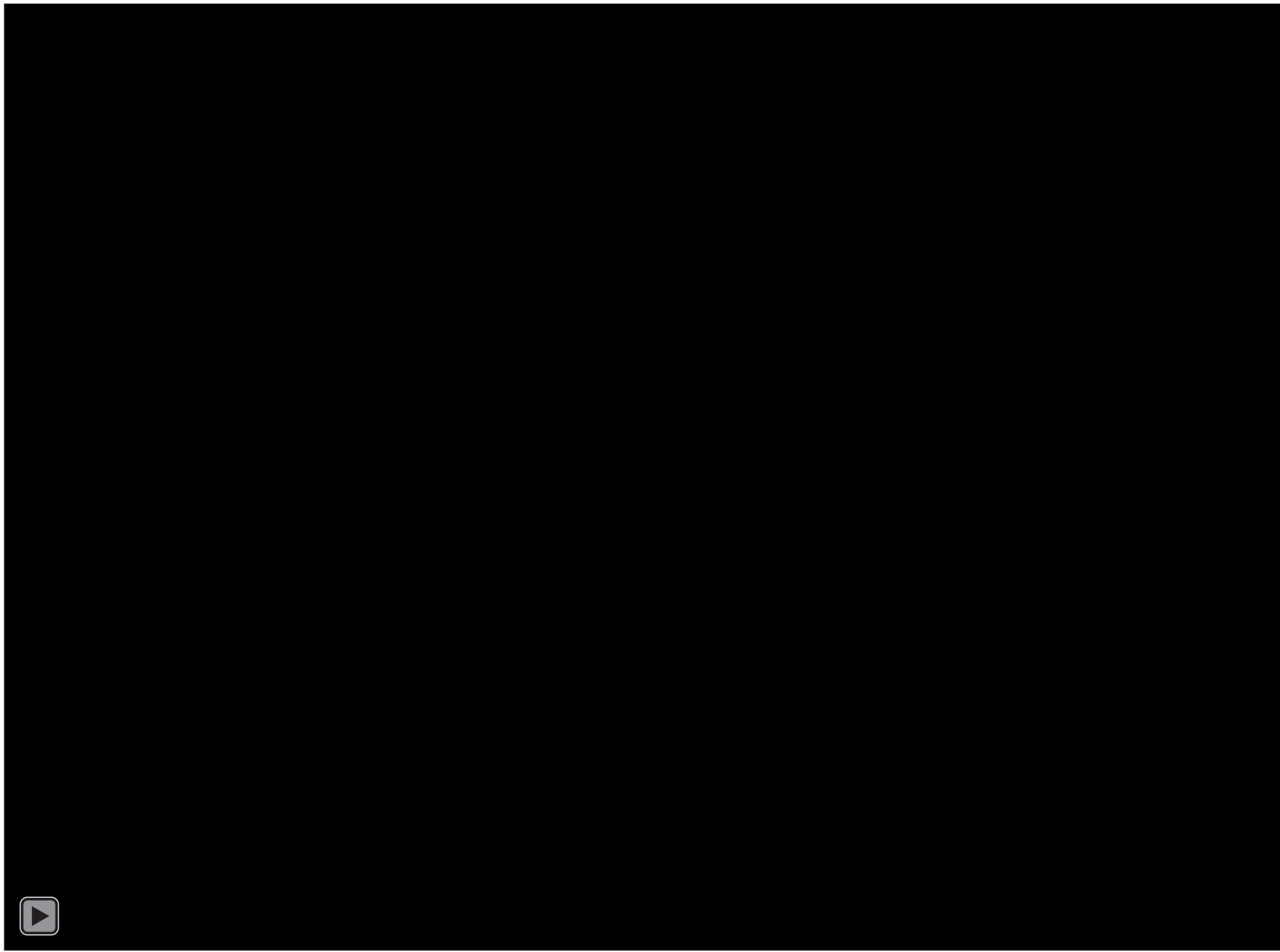
# Proxy

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- A 3-D virtual teen-aged character to attract youngsters to informatics as a science
- A series of 6 short videos
- <https://a-scuola-di-informatica.it>
- Since feb.2021, a team of 7 Italian colleagues, cooperation with professional video maker company
- Presented at the international competition "Cartoons on the bay" (jun.2022)
- Trying to build a cross-media product
- Presented at Palermo Comics Convention (set.2024)
- Become part of Programma il Futuro and ITADINFO
- Stimulating teachers/students contribution



# Proxy video (to watch open PDF with Reader)



# GRAZIE!

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