

Report on the activity in the framework of the European Inventor Network



To be sent to:

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Name of the alumnus who implemented the activity

María del Carmen Serna Moreno

Short description of the activity

On 11 February 2026, as part of the International Day of Women and Girls in Science, I had the opportunity to visit the school “Colegio de Educación Infantil, Primaria y Secundaria Fábrica de Armas” in Toledo (Spain). The visit was designed to give 8-year-old students an interactive introduction to basic principles of structural design. The workshop connected structures with cinema, bringing engineering into the classroom from a creative and engaging perspective. Students worked with interactive Mola structural kits, which were acquired thanks to funding from the European Patent Office’s commitment to fostering a culture of innovation and inspiring future generations. This invaluable hands-on experience allowed the children to explore the fundamentals of structural design and classical mechanics in a tangible and intuitive way. Posts:

Instagram: https://www.instagram.com/p/DUoQKeQAo6F/?img_index=3

X: https://x.com/eiia_toledo/status/2021648179926905336

Additionally, on 14 November 2025, during the Science Week at the University of Castilla-La Mancha (UCLM), I participated in the activity “Science in Family,” designed to engage students under 12 years old in multidisciplinary science and technology activities. By combining technical topics with multimedia content and hands-on participation, the aim was to demystify complex concepts and show students how they can actively shape the future through creativity and knowledge. The enthusiasm, curiosity, and level of engagement shown by the students were truly remarkable. The structures workshop using the Mola kits was one of the most popular activities among children aged 7 to 9. Post:

X: https://x.com/eiia_toledo/status/1989775525003370977

Date and place of the activity

1. International Day of Women and Girls in Science (11/02/2026).
School: Colegio de Educación Infantil y Primaria Fábrica de Armas, Toledo (Spain).
2. Science Week UCLM. Activity "Science in Family" (14/11/2025).
Center: Escuela de Ingeniería Industrial y Aeroespacial, Toledo (Spain).

Audience (number and age of the participants)

44 students aged between 7 and 9 years old.

Outcomes and achievement

Ex: qualitative information , such as testimonials or success stories

The students were able to assemble, visualize, and physically explore the structures with their own hands. Through this experience, they gained an understanding of the need for lightweight structures, the importance of structural form, the correct way to load truss structures at their joints, and how to identify members under tension and compression.

The students not only absorbed information but also connected with it in a meaningful way, challenging themselves and each other. Children, parents, and teachers expressed sincere appreciation and requested follow-up visits, highlighting the long-term value of this type of engagement. The success of this initiative reaffirms the vital role that institutions like the EPO can play in supporting educational development and nurturing talent across Europe.

Recommendations

Ex: any recommendation for Future activities based on the Experience and outcomes of This grant-funded activity

Go on with this wonderful initiative.

Attachments: Any supporting documents (such as photographs, testimonials or other relevant materials) that help illustrate the activity's impacts and effectiveness should be sent to mchopin@epo.org. These supporting documents might be posted on the European Inventor Network webpage.









