



fab CONNECT her

Future Female
Innovators In STEAM

The challenge: “*Fab & Fierce*”

Celebrate a woman who made a difference in STEAM by turning her story into something tangible — a creation that reflects her impact and inspires others to dream big.



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The challenge: “Fab & Fierce”

Choose a woman — past or present — who has made an impact in a STEAM field (Science, Technology, Engineering, Arts, or Mathematics). Research her story, understand her achievements, and reflect on what makes her inspiring. Then, create a prototype, artwork, or digital piece that shows why she matters — to you, to your community, and to the world.

Objectives and Strategic Alignment

- Celebrate female inspiration in STEAM: by researching and honoring a woman who has made an impact in the fields of Science, Technology, Engineering, Arts, or Mathematics;
- Develop STEAM and creative skills: using digital and manual tools to express ideas;
- Design with purpose: combining technology, storytelling, and social themes;

Let your ideas shine! Combine creativity and tech to tell the stories of women who made a difference — and pave the way for future changemakers.

Why this challenge matters?

This challenge helps you:

- ✓ Discover and honor women hidden in history
- ✓ Reflect on representation and role models
- ✓ Express your ideas through technology and creativity
- ✓ Use STEAM to tell stories that inspire change



Who can apply?

The challenge is open to girls and women aged 16 to 25+ from all backgrounds and experience levels.

Participants can be:

- High school students
- Vocational or university students
- Young professionals or women in career transition
- Participants in Fab Labs, makerspaces, or STEAM programs

Small teams (up to 3 people) are welcome to join. No previous technical experience is required — just curiosity, creativity, and a passion for making a difference!



What you need to do

1. Pick your heroine

She can be a scientist, technologist, engineer, digital artist, mathematician, or someone who used creativity and technology to change the world. But also someone who combined some of these qualities. The most important thing is that you think she is a heroine, for what she did or accomplished!

2. Research her story and legacy

Find out:

- What did she do?
- What obstacles did she face (especially as a woman)?
- How did she inspire you? How did she change the world?
- What is special about her?
- *And anything else we need to know about her!*

3. Create something inspired by your heroine

Use any STEAM tools, materials, or media to express her impact.

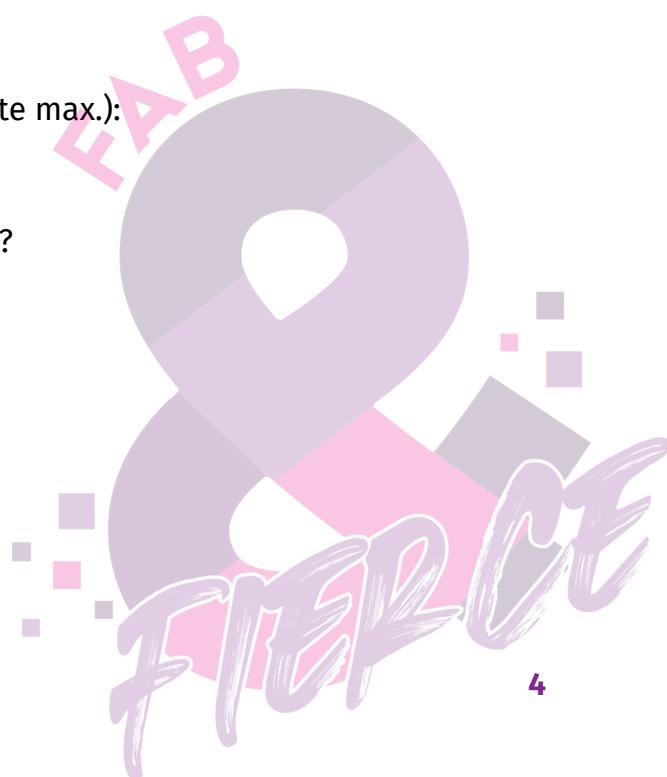
For example:

- Laser-engraved portrait or quote
- Mini website, timeline or interactive video about her life
- Robot or prototype inspired by her work
- Wearable project (or e-textile) that symbolizes her values
- Game where she's the main character
- stop motion video about her
- 3D model or sculpture showing her invention or mission

4. Present your project

Tell your story in a short video (vertical and 1 minute max.):

- Who is your STEAM heroine?
- What did you make, and why?
- How does she inspire you as a future innovator?



5. Upload and share your project

When your 1-minute video is ready, it's time to share your heroine's story with the world! Post your video on Instagram, TikTok, or YouTube Shorts and make sure to:

- Tag @fabconnecther
- Use the hashtags **#FabConnectHer** and **#Fab&Fiercechallenge**

You can also upload your project directly on our website:

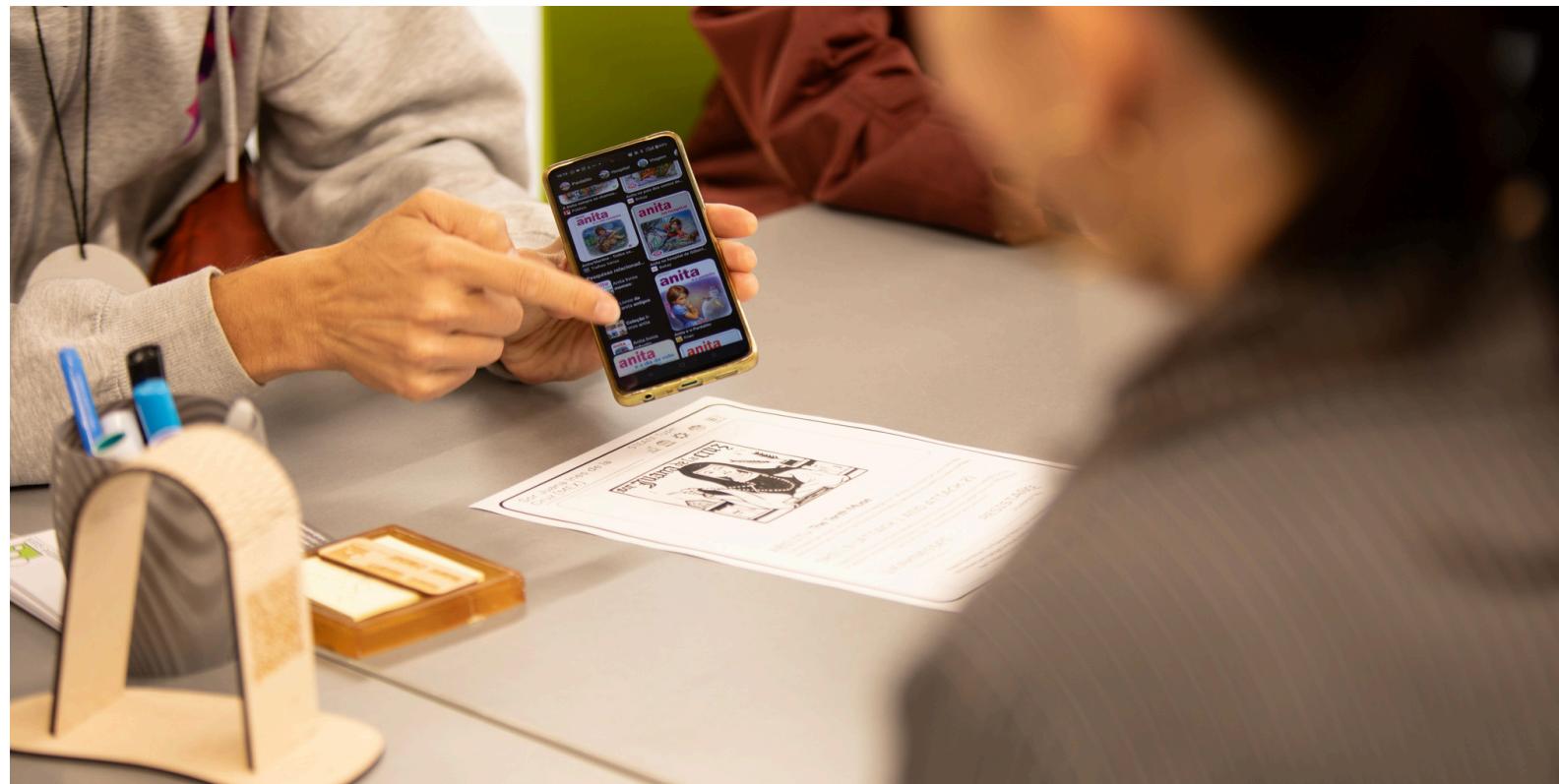
www.fabconnecther.eu/challenge

Stay connected and get inspired by other projects:

- Instagram: [instagram.com/fabconnecther](https://www.instagram.com/fabconnecther)
- TikTok: [@fabconnecther](https://www.tiktok.com/@fabconnecther)
- Facebook: [Facebook.com/Fabconnecther](https://www.facebook.com/Fabconnecther)



Scan to upload your video!



TIPS TO DEVELOP YOUR PROJECT

Why Go to a Fab Lab to Develop Your Project?

Fab Labs are open, creative spaces equipped with professional tools and technologies that make it possible to bring your ideas to life — even if you're just starting out.

By working in a Fab Lab, you can:

✓ Access real STEAM tools

Use laser cutters, 3D printers, Arduino kits, vinyl cutters, and more — all under one roof.

✓ Get support from mentors

Fab Labs often have experienced educators, makers, and technicians who can guide you with skills, safety, and problem-solving.

✓ Explore and prototype creatively

From coding to crafting, electronics to textiles — Fab Labs are ideal for experimenting with ideas in hands-on, playful ways.

✓ Be part of a community

You'll meet others who are passionate about technology, design, and social change — a perfect network for collaboration and inspiration.

✓ Learn by doing

Even if you've never used a machine before, Fab Labs are made for learning by trying — mistakes are part of the process.



Tools you can use in a Fab Lab

- Laser cutter or vinyl cutter
- 3D printer
- Micro:bit or Arduino
- Scratch, Canva, Tinkercad, Inkscape
- Recycled materials, cardboard, textile
- Any creative or digital tool that tells a story!

Find a Fab Lab near you:

Fab Labs are open, creative spaces where anyone can turn ideas into reality.

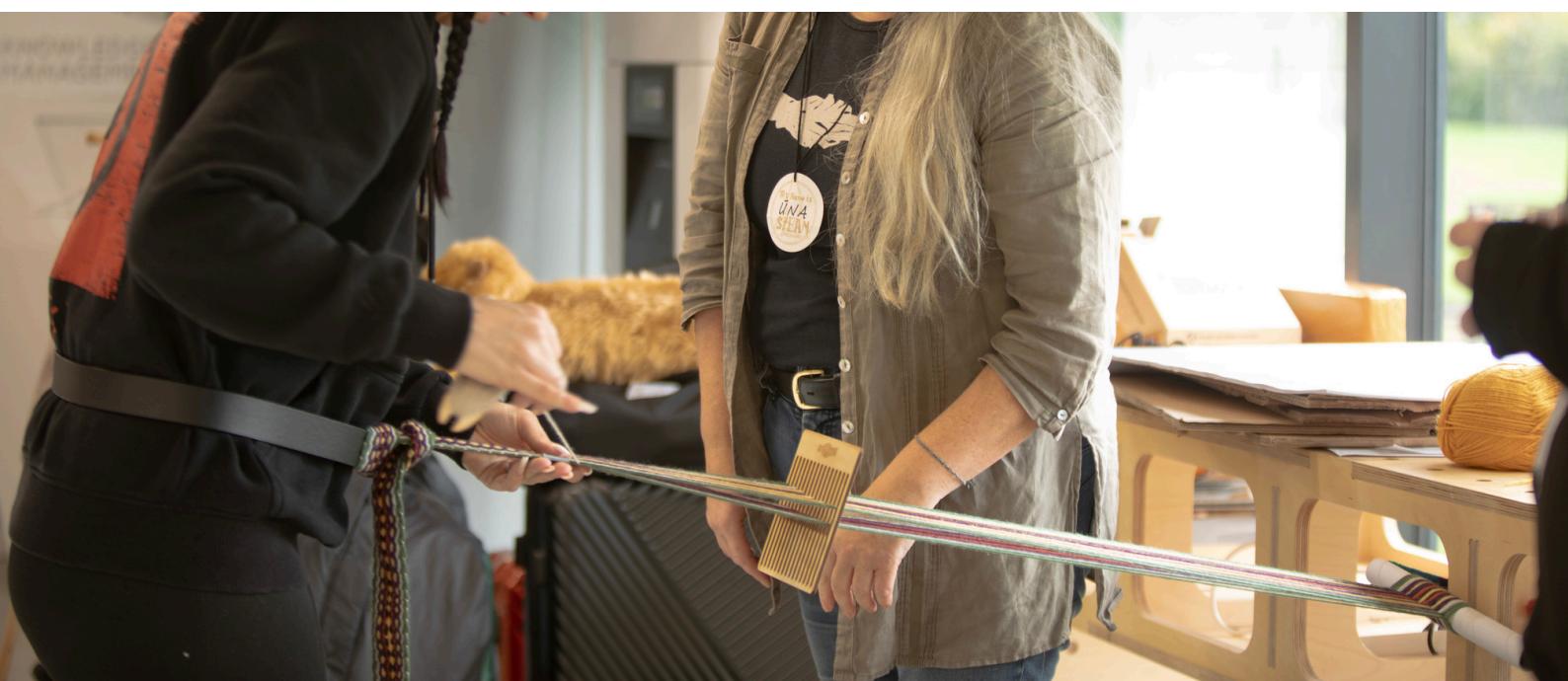
Discover the global network of Fab Labs and see which one is closest to you:
fablabs.io/labs/maps

Examples of STEAM heroines

- Marie Curie – Nobel-winning physicist and chemist
- Mae Jemison – the first Black woman in space
- Gitanjali Rao – teenage scientist and TIME Kid of the Year

Need more inspiration?

Explore stories of women innovators from around the world on fabconnecther.eu or follow the FabConnectHer socials to meet heroines in STEAM!



Project Selection Criteria

Projects will be evaluated by a local and/or international jury based on the following criteria:

Criterion	Weight (%)
Clarity and impact of the heroine's story	25%
Creativity and originality	25%
Use of STEAM tools and materials	20%
Technical execution quality	15%
Presentation (1-minute video)	15%

