

Scientix:

Unapređenje STE[A]M vještina pomoću digitalne proizvodnje

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FabLab, **civil association for promotion of digital fabrication**, was **founded in 2013** as a **non-profit** and **based on MIT's Fab Charter**. It is aimed at promoting digital fabrication, encouraging DIY and helping society benefit from the makers movement. Intense activities - in line with **three main missions**:

Education (R)evolution

education related



Give-a-Hand

local community related



Local Solutions Go Global

business related



Education (R)evolution

Introducing new **digital tools** and **design thinking** processes in order to boost **STE[A]M skills**. Facilitating **responsible education and research** in local and global context, by linking **three educational levels**. Long-term goal is to **make children believe** they can turn their ideas into reality and encourage them to remain in the **creative phases** of their minds, as well as support them in development of **soft skills and cooperation** from the early ages.

Give-a-Hand

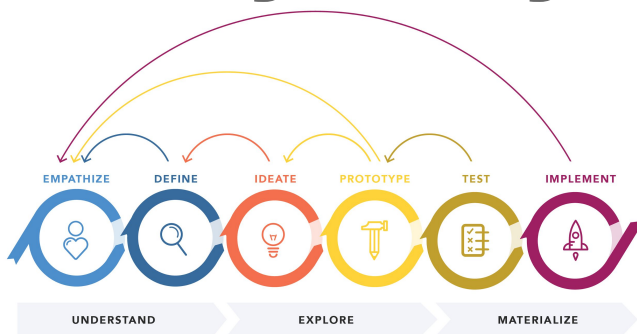
Innovation inspired by situations local community members, especially **persons with disabilities**, are facing on daily basis. **Unlocking creative potential** of local community by **interdisciplinary co-working** and **inclusion** in solving problems and issues.

Local Solutions Go Global

Engaged digital technology which encourages development of **entrepreneurial mindset** by facilitating turning **ideas into products** and leveraging local insights to develop solutions for global market. Co-creation by **merging analogue and digital technology** for **creative and innovative use** on global market in cooperation with **quadhelix stakeholders**.

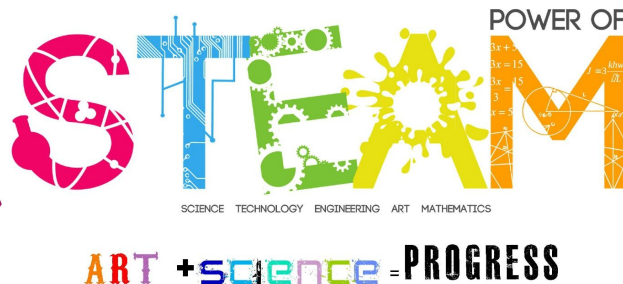
Teaching following skills: Design Thinking, 3D Parametric Modelling, Generative Design, 3D Scanning, Digital fabrication, STE[A]M, Electronics, Robotics, Virtual Reality, Augmented Reality, IoT, BigData, Biosensors, Smart Sensing, DIY, Learning by Doing

Design Thinking



Practice Design Thinking **to engage young population to use Digital Fabrication for improving STE[A]M skills** and become new innovators!

STE[A]M vještine



STEAM is **an educational approach** to learning that uses Science, Technology, Engineering, the Arts and Mathematics as access points for guiding student inquiry, dialogue, and critical thinking. The end results are students who take thoughtful risks, engage in experiential learning, persist in problem-solving, embrace collaboration, and work through the creative process. These are the innovators, educators, leaders, and learners of the 21st century!

Learning by Doing



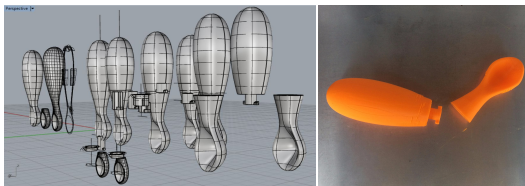
DEMONSTRACIJE DIGITALNE PROIZVODNJE U SVRHU RAZVOJA STE(A)M VJEŠTINA *

Kako izraditi torbu s vlastitim crtežom, napraviti vlastiti pečat ili jednostavni 3D model tlocrta građevine. To su teme digitalizacije, obrade 2D crteža, te 3D modeliranja. Pomoću urađaja digitalne proizvodnje ove digitalne informacije pretvaraju u opipljive osobne predmete. Ovo su samo neki od primjera korištenja tehnologija digitalne proizvodnje koja se mogu primjeniti u realizaciji različitih malih projekata kojima se povezuje umjetnički i tehnički aspekt rada mladih.

Education (R)evolution |
Education



Give-a-Hand |
Local Community



Local Solutions Go Global |
Business





**2016
2017**

Understanding Collective
Awareness Platforms with the
Maker Movement



**2016
2019**

Making central Europe more
competitive by unlocking the
innovation capacity of FabLabs



**2017
2020**

Entrepreneurial skills for young
social innovators in an open digital
world. A European Initiative!



3D Printing Open Days

2016

2013



1. otvoreni dani 3D ispisa
1st 3D printing open days

14. i 15. studeni 2013.
Arhitektonski fakultet, Kačićeva 26, Zagreb



2014



2. otvoreni dani 3D ispisa
2nd 3D printing open days



2015



3. otvoreni dani 3D ispisa 2015
3rd 3D Printing Open Days 2015

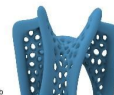


2016



4. otvoreni dani 3D ispisa 2016
4th 3D Printing Open Days 2016
(R)Evolucija učenja / Education (R)Evolution

10. i 19. studeni 2016. / 10 - 18 sati, Arhitektonski fakultet, Kačićeva 26, Zagreb



2017



5. Otvoreni dani 3D ispisa 2017
5th 3D Printing Open Days 2017



DESIGN DISTRICT ZAGREB
16-19/6
2016



2017



fabelgrade



>

2018

Thank You!



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Demonstracije digitalne proizvodnje u svrhu razvoja STE(A)M vještina

Učenici: Lara Škaler (Osnovna škola Lovre pl. Matačića), Robert Lešković, Marko Stošić i Manuel Vidić (Strojarska tehnička škola Fausta Vrančića)

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