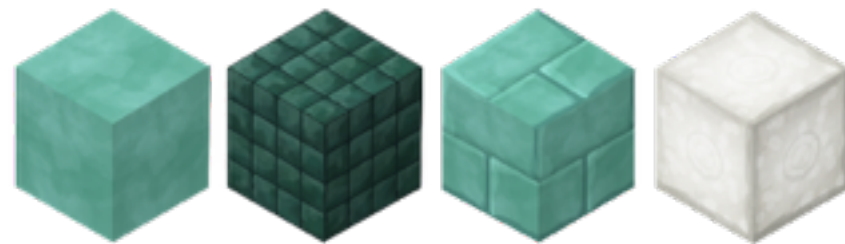


# Introducing Maker Spaces in Libraries: Awareness, Engagement and Creativity



**Dr Ernesto Priego, @ernestopriego**  
**City University London**  
**Carlos Izsak, @Carlitosi71**  
**#MakerCart Project**

Tuesday 1 March 2016, @claphamlib  
#codegreen

# Awareness



Educational institutions, libraries, museums are changing

Learning happens everywhere, all the time

Modern technology has had a dramatic impact  
on how young people learn and pursue their interests

We need a new model for learning that  
fits the realities of the digital age

-Mark Surman, Executive Director, Mozilla Foundation

<https://medium.com/remake-learning-playbook/networks-are-transforming-how-we-teach-learn-35bdd48f1bd3>

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# Digital Literacy

- 'the capabilities which fit someone for living, learning and working in a digital society.
- from <https://www.jisc.ac.uk/guides/developing-students-digital-literacy>
- “ digital literacy = digital tool knowledge + critical thinking + social engagement”
- Josie Fraser, social and educational technologist, Leicester City Council, from <http://www.theguardian.com/higher-education-network/blog/2012/may/15/digital-literacy-in-universities>

# Engagement



“The real challenge we face today is one of spread, scale and equity. We need to spread the innovations we see emerging so they reach everyone’s hands and minds.

When people build things together they tend to own them emotionally and want to roll them out after they are created.”

-Mark Surman, Executive Director, Mozilla Foundation

<https://medium.com/remake-learning-playbook/networks-are-transforming-how-we-teach-learn-35bdd48f1bd3>



# Creativity



## **Maker Learning:**

Participants learn how to work together and to reshape the world through hands-on tinkering, hacking, and building with real tools and materials, making combines physical and digital skills from science and engineering, technology and media, crafting, and the arts to learn how to work together to reshape the world.



# Maker Spaces

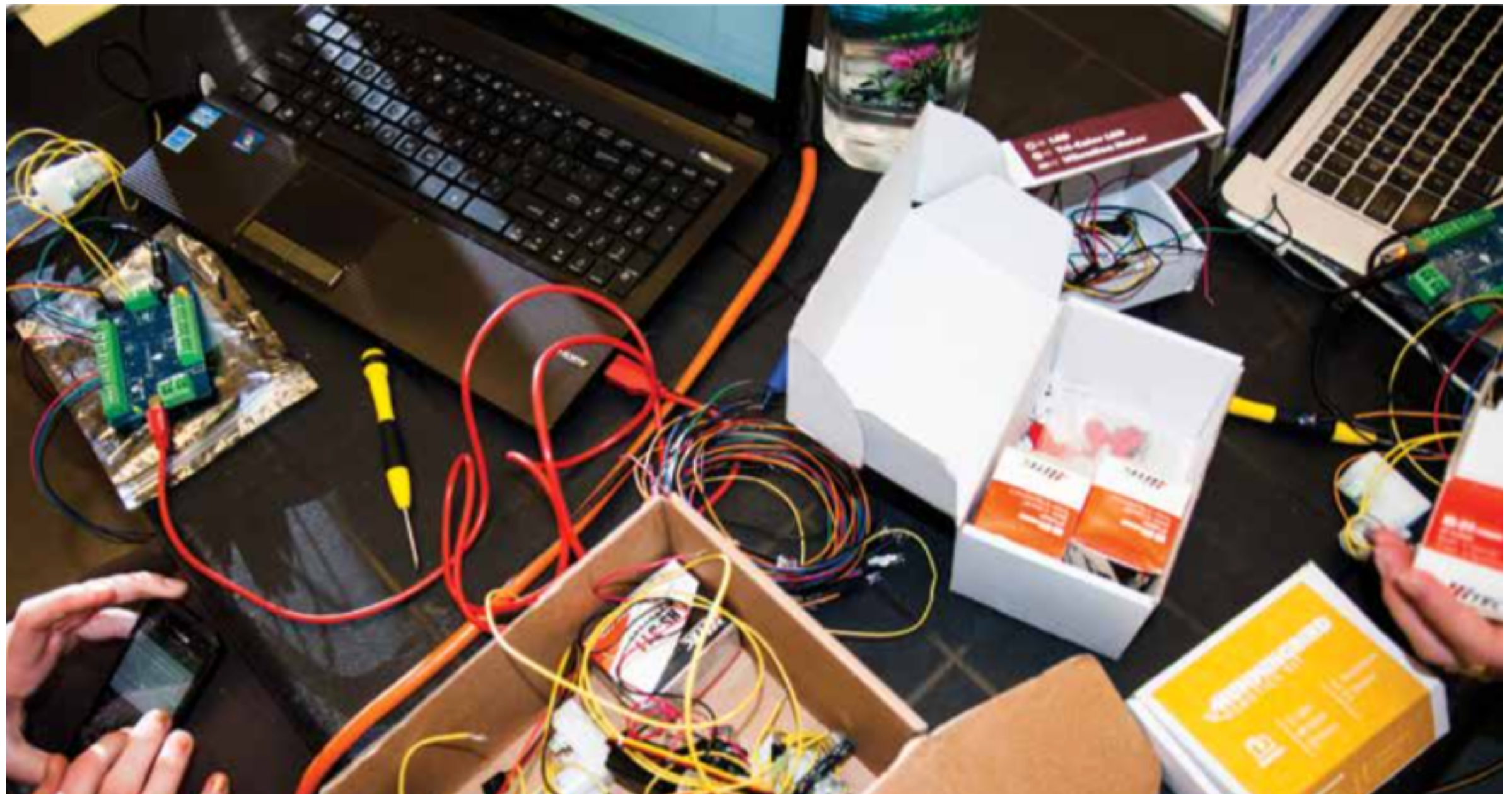


Image CC-BY SA Remake Learning



# The Public Library of Mount Vernon and Knox County, Ohio, USA



Small Tech, Big Impact: Designing My Maker Space online at SLJ & Teen Library Toolbox, Karen Jensen

- START SMALL
- DIGITAL PHOTOGRAPHY
- STOP-MOTION ANIMATION
- CODING, ROBOTICS, AND MICRO-COMPUTERS
- CIRCUITRY AND ELECTRONICS
- VINYL CUTTERS AND 3-D PRINTER PENS

<http://www.teenlibrariantoolbox.com/2016/02/the-school-library-journallibrary-journal-maker-workshop/>

[http://www.slj.com/2016/02/technology/small-tech-big-impact-designing-my-maker-space/#\\_](http://www.slj.com/2016/02/technology/small-tech-big-impact-designing-my-maker-space/#_)  
<http://www.teenlibrariantoolbox.com/2013/11/the-pop-upmobile-makerspace-moment/>

# FabLab Devon



Imagine. Invent. Create.

- The Fab Lab project is funded by Devon County Council, the ACE Bridge Challenge Fund run by the Real Ideas Organisation and the Digital Makers Fund (run by Nesta and Nominet Trust, in partnership with Autodesk). The University of Exeter and Exeter College also support the Fab Lab.

<https://www.fablabdevon.org>

# #MakerCart



**Ernesto Priego**  
@ernestopriego

Follow

#inm34815 students making a banana piano, trying 3D printing out and giving @littleBits a go #citylis

11:01 AM - 7 Dec 2015



4



**Ernesto Priego**  
@ernestopriego

Follow

Making in the Library Toolkit [teentechweek.ning.com/page/making-to...](http://teentechweek.ning.com/page/making-to...) #inm34815 #citylis

11:15 AM - 7 Dec 2015



3

<https://blogs.city.ac.uk/dita15/2015/12/08/makercart-dita2015/>

# Making Without Maker Spaces (without £!)

## **folkelab**

- “The People’s Lab” - Folkelab, Denmark
- <http://folkelab.dk/>



# Great Resources



<http://remakelearning.org/playbook/>

<https://rowman.com/ISBN/9781442253018/Makerspaces-in-Libraries>

# Group Discussion

1. How do you think a Maker Space or MakerLab would be useful in your community?

A. To offer a creative, safe space for people of different ages?

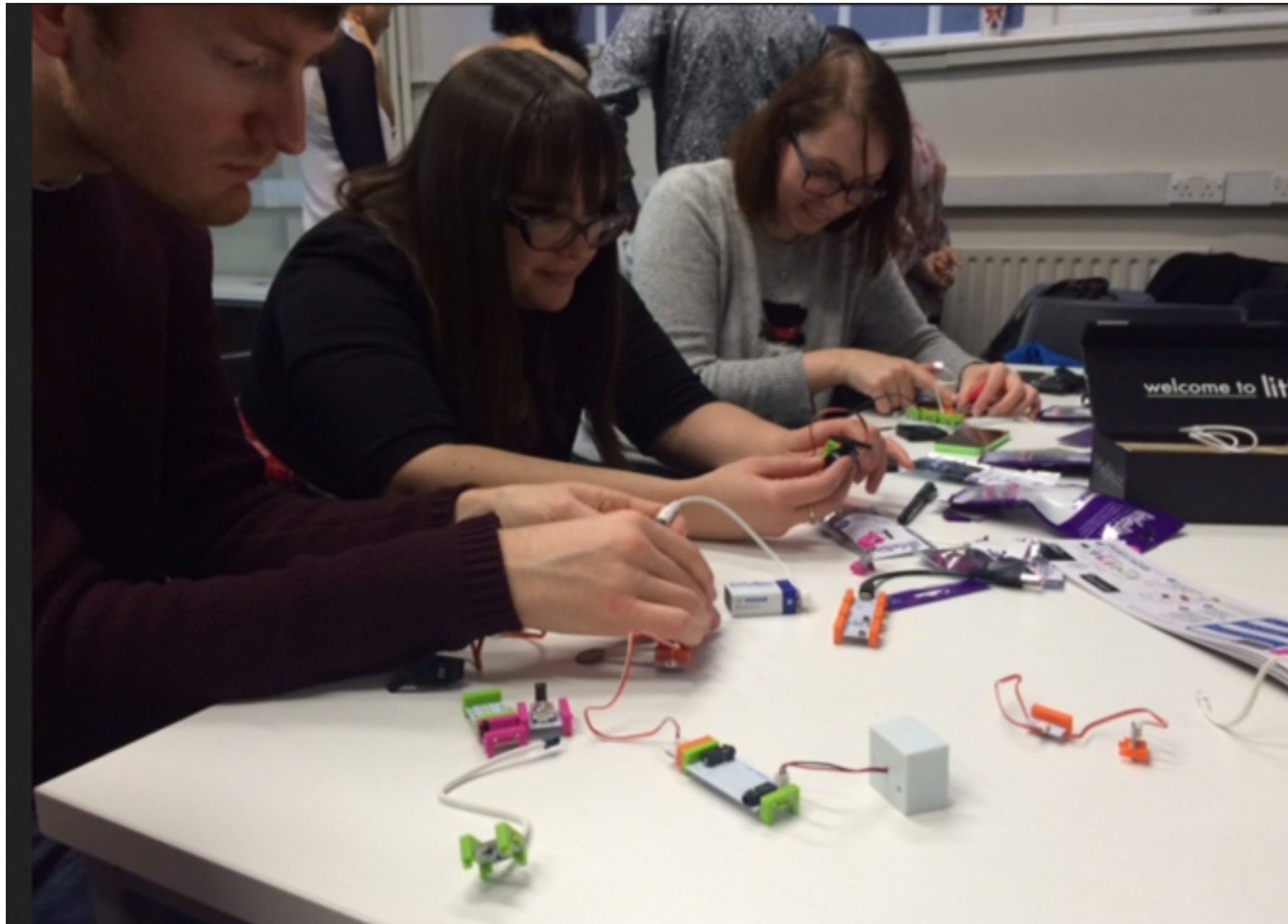
B. To engage members of the public with the institution?

C. To encourage creativity and entrepreneurship?

D. Other ways?

2. Which 'literacies' they think Maker spaces should require or help develop. e.g. digital literacy?

# Over to the #MakerCart!



<https://blogs.city.ac.uk/dita15/tag/makercart/>

#citylis #inm348 students in a making session.  
Photo by Ernesto Priego

This presentation was created by  
Ernesto Priego and Carlos Izsak with  
contributions from Kate Lomax.

It reuses images and text sourced from *Remake Learning's Playbook*. Our gratitude to the authors. The Playbook is available from <http://remakelearning.org/playbook/>.

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