

"Making is fundamental to what it means to be human. We must make, create, and express ourselves to feel whole.

There is something unique about making physical things. Things we make are like little pieces of us and seem to embody portions of our soul.

Make. Just make.
[source]

THE RISE OF MAKER ED

WHAT IS DRIVING THE MAKER MOVEMENT?

Economic
Individuals are empowered by a growing array of alternative ways to engage in the economy.



Societal
Curiosity, ideology, necessity: whatever the reason, people are relying more heavily on their own hands and brains to meet daily needs.



Technological
The barriers of access to making have come crashing down, as simplified design tools and cost-effective DIY kits provide individuals with cheap means to make extraordinary projects.

BY THE NUMBERS

A **Maker Faire** is "part science fair, part county fair, and part something entirely new." [source]

MAKER FAIRES AROUND THE WORLD



some **465** FAB LABS & **1,146** HACKERSPACES are open for business around the world, with hotspots in Europe and Southeast Asia [source]

2005-2014 \$1B+ of venture capital was invested for 3D printing startups **3,051** patents filed in field, with **1,452** of them filed alone between 2013 & 2014 alone [source]

2006 **22,000** attendees

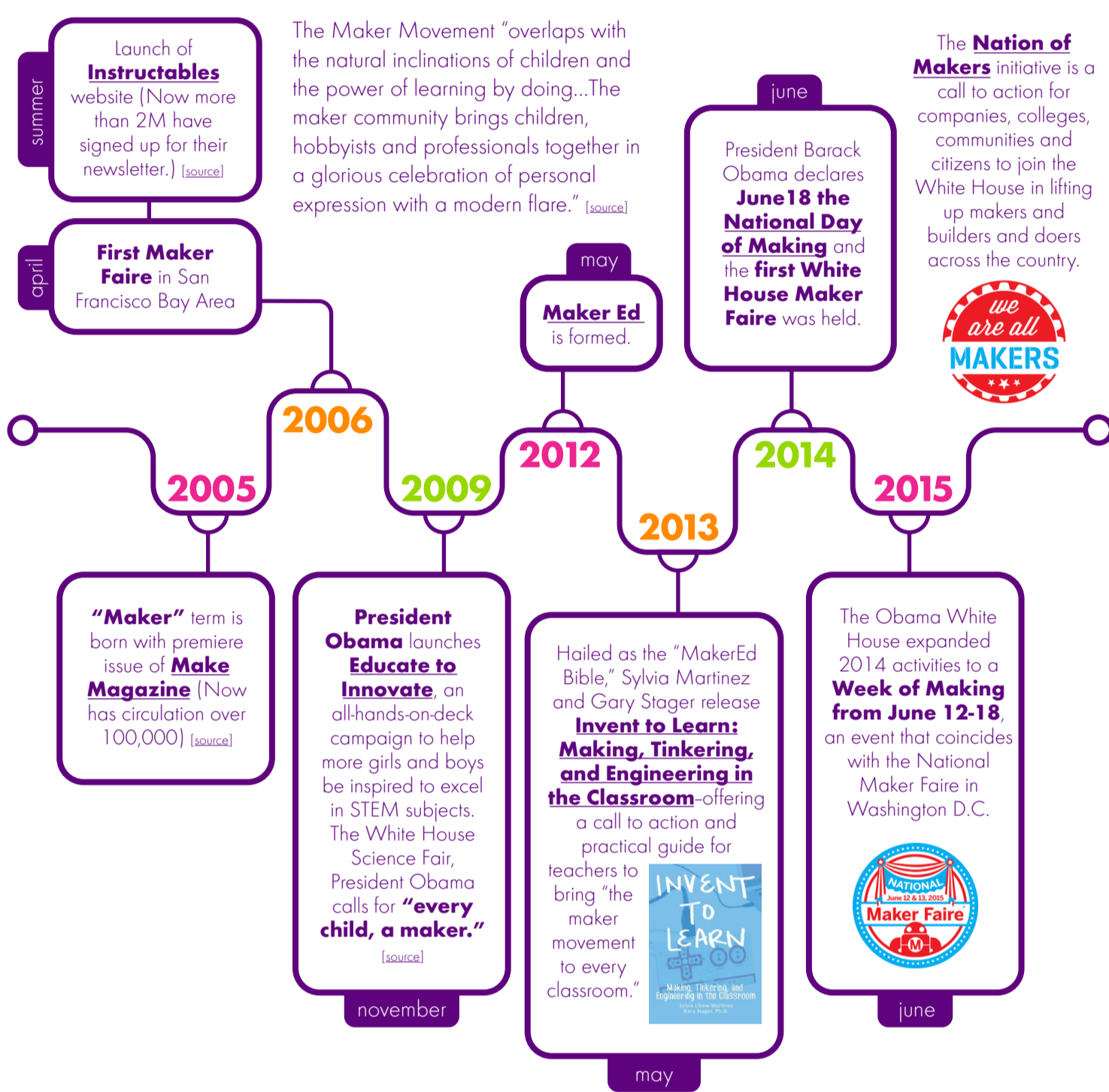
1 MAKER FAIRE

2014 **800,000** attendees

135 MAKER FAIRES

2015 **1,000,000+** attendees (projected) [source]

FROM MAKER TO MAKER ED



"Makerspaces are zones of self-directed learning. Their hands-on character, coupled with the tools and raw materials that support invention, provide the ultimate workshop for the tinkerer and the perfect educational space for individuals who learn best by doing...they promote multidisciplinary thinking and learning, enriching the projects that are built there and the value of the makerspace as an educational venue." [source]

CASE STUDY: A RISE OF MAKER ED



littleBits is a platform of electronic building blocks comprised of color-coded pieces for specific functions (like motion, lights, sound, sensors, internet connectivity) that snap together to make larger circuits. People use littleBits in formal and informal learning settings - from K12 to higher ed and in makerspaces and homes across the globe. With an ever-expanding library of littleBits, educators and students can engage in increasingly complex projects as their technology literacy, critical thinking and creative confidence grows.



LITTLEBITS EDUCATION PRODUCTS & PROGRAMS

littleBits' offerings have evolved to meet the growing demand of educators seeking to bring the Maker Movement to their classrooms.

STUDENT SET (2013) has all the Bits and instructions needed to engage a small group of students in creating circuits in seconds and combining them with craft materials to make projects.

WORKSHOP SET (2014) is designed for a group setting, this set supports up to 32 inventors in your classroom, library, or makerspace.

PRO LIBRARY (2014) is a large, diverse collection supporting up to 72 inventors, it is perfect for entire schools, libraries, makerspaces, and anyone looking to create and prototype inventions.

LITTLEBITS STEAM PD (2015) helps teachers learn about how to use littleBits to integrate STEAM instruction in grades 2-8 through an interactive, hands-on course.

LITTLEBITS INVENTION LAB (2015) is a bundle specifically for makerspaces in libraries and other learning environments.

LITTLEBITS CLASSROOM INTEGRATION (2015) is for schools or districts that want to start integrating invention and STEAM into the curriculum in at least five classrooms.

LITTLEBITS 1:1 (2015) is a bundle that provides every student with their own mobile makerspace to use across subjects, both in and outside school.



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#MakerEd hashtag and chats
GooglePlus Community
K12Makers.org
Maker Pinterest Boards

ACCESS ONLINE RESOURCES:
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Youth Makerspaces Guide
littleBits Educators Guide
Invent To Learn Resources
Getting Smart Maker Blogs

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#makered #makerspace