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STMicroelectronics and Arduino Launch Cooperation to Expand Maker-Community Access to STM32 MCUs and Sensors

- *First Arduino board based on STM32 ARM® Cortex®-M MCU*
- *Delivers high-performance graphics, TFT touch display, wireless link, and connectivity for audio, MicroSD, USB OTG, and camera*
- *First demos at Bay Area Maker Faire, May 20-22*

Geneva, Switzerland and San Mateo, California, May 19, 2016 – Moving to enable makers to make even more than before, STMicroelectronics, a global semiconductor leader serving customers across the spectrum of electronics applications, and Arduino, the world's leading open-source ecosystem for Education, Maker, and IoT markets, today announced an agreement that brings the industry-leading STM32 family of microcontrollers (MCU), along with ST's full portfolio of sensing, power, and connectivity technology, even closer to the Arduino maker community. The first product of the STAR (ST and Arduino) program, the [STM32F469-based STAR Otto baseboard](#), will be demonstrated at the Bay Area Maker Faire, May 20-22 2016. Now, IoT developers and other makers can build high-performance graphics into their smart devices using accessible hardware and software to improve their applications with easy-to-use touch displays and audio for command and control as well as for media-streaming use cases.

STAR Otto presents to the Arduino environment exceptional performance from the 32-bit STM32F469 MCU, which includes ST's Chrom-ART™ graphics accelerator and MIPI DSI¹ display interface along with an open-source software graphics library. Moreover STAR Otto uniquely provides a pre-integrated wireless link and audio capabilities, enabled by an ST MEMS² microphone together with the necessary open-source drivers. This efficient and optimized approach lets

¹ MIPI DSI = Mobile Industry Processor Interface Digital Serial Interface defines a serial communication protocol for the display controllers for mobile products.

² MEMS = Micro-Electro-Mechanical Systems

makers focus on their value-add and makes integration a breeze while enabling a broad range of Smart Home and Smart Industry applications.

In addition to the STAR Otto microcontroller baseboard, the cooperation aims to deliver a range of Arduino shields that expand the functional possibilities. DSI-display and NFC-reader shields are planned for Q2 2016 and a Sensor shield is scheduled to be available in H2 2016. Moreover, several STM32 Nucleo expansion boards and software libraries, including those for environmental sensors and proximity detection, have already been ported to the Arduino Integrated Development Environment (IDE) and can seamlessly be used with the new STAR Otto baseboard.

“By adding ST’s broad family of industry-leading STM32 ARM Cortex-M-based microcontrollers to the Arduino universe along with a broad array of ST sensors and other components, makers will have at their fingertips the ability to design, build, and manufacture just about anything,” said Daniel Colonna, Marketing Director, Microcontroller Division, STMicroelectronics. “Because of the tremendous enthusiasm within the maker community for Smart Home and Smart Industry applications, we’re supporting those development efforts with our audio- and graphics-friendly STM32F469 MCU and other exciting products from ST broad portfolio.”

“Arduino has grown by encouraging kids – from 10 to 100 years old – to learn electronics and programming to make projects by building on the learnings of others and now we’re excited to add the STM32 family into the Maker community, to broaden learning with new features such as audio input/output and touchscreen display control,” said Federico Musto, CEO & President of Arduino S.r.L. “We fully expect commercial IoT companies to also use these new features to easily design new smart home devices and applications, or improve products that drive industrial automation and control.”

About STMicroelectronics

ST is a global semiconductor leader delivering intelligent and energy-efficient products and solutions that power the electronics at the heart of everyday life. ST’s products are found everywhere today, and together with our customers, we

are enabling smarter driving and smarter factories, cities and homes, along with the next generation of mobile and Internet of Things devices.

By getting more from technology to get more from life, ST stands for life.augmented.

In 2015, the Company's net revenues were \$6.90 billion, serving more than 100,000 customers worldwide. Further information can be found at www.st.com.

About Arduino

Arduino is the world's leading open-source software and hardware ecosystem. The Company offers IoT developers and Makers of all ages the ability to build smart, connected and interactive devices using affordable technologies. Please check us out at www.arduino.org.

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