

## Plastic Logic unveils next step in its organic flexible AMOLED demonstrator programme

Cambridge, UK – 04 June 2014 – Plastic Logic, experts in the development and industrialisation of flexible organic electronics, has shown the second in its series of all-plastic flexible AMOLED display demonstrators.

Building on the first demonstrator, shown at the Flextech Conference in Phoenix, AZ in February, the new display features an increased brightness, 256 grey levels, and full 30fps image rendering. The display offers further proof that organic transistor technology offers display makers the best path to truly flexible, ultra-thin, lightweight AMOLEDs, and is the world's first all-organic AMOLED display made using a toolkit of processing capabilities already proven industrially.

[To view a video of the new demonstrator display, please click](#)

[To view a longer video, including industrialisation information, please click](#)

One application for the technology is wearables – a market calling out for displays and sensors that can conform to the curved and irregular shapes of the human body. OTFT is the only transistor technology offering the true flexibility needed for wearables: for example in smart bracelets, the size of usable screen area can be significantly increased once you can bend a display around your wrist.

The flex AMOLED display was made using Plastic Logic's truly flexible oTFT backplane technology, combined with Novaled's OLED frontplane materials. The market for flex AMOLED displays is set to grow to \$23bn by 2023 (IHS 2014 report), fuelled by the pull for flexible displays for wearables and the Internet of Things.

Through its OTFT development and industrialisation process, Plastic Logic has created unique IP and a highly transferable process-flow, and has a Partner Programme to work with leading global display makers and consumer electronics companies to enable flexible, plastic AMOLED supply chains through licensing and technology transfer to existing manufacturers. Plastic Logic is now actively seeking companies to join its Partner Programme to take flexible electronics and wearable technology into mainstream production. Indro Mukerjee, CEO of Plastic Logic, commenting on the second demonstrator said: 'The speed with which the second demonstrator display followed the first is a testament to the depth of the IP and know-how in manufacturing processes, materials sets and architectures that Plastic Logic has built up over the past 13 years. Colour is our next target.'

**Update:** Those attending SID at San Diego, June 1<sup>st</sup> – 6<sup>th</sup>, are welcome to see our flex OLED demonstrator at the iZone, Tuesday 3<sup>rd</sup> and Wednesday 4<sup>th</sup>, as well as hear Mike Banach, Engineering Director – speaking on *Flexible AMOLED display driven by organic TFTs on a plastic substrate* on Wednesday 4th June and Paul Cain, Marketing Director, on *Flexible Displays - portable & wearable devices* on Thursday 5th June.

### About Plastic Logic

Plastic Logic is the recognised leader in organic thin-film transistors (OTFT) and is at the forefront of research and investment in plastic electronics. The company has industrialised the process technology and now manufactures a

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range of high-quality, shatterproof, ultra-thin and ultra-lightweight plastic displays. These offer huge advantages over conventional screens, as they are extremely flexible with proven lifetimes. Solutions for sensor and other non-display applications are in development, enabling revolutionary design possibilities, set to transform existing markets such as wearable and mobile devices, signage, and automotive, as well as many others. Plastic Logic is backed by major investors including Rusnano and Oak Investment Partners.

Find out more about Plastic Logic and its robust, flexible displays by visiting <http://www.plasticlogic.com>. and <http://www.youtube.com/plasticlogic>.

Companies interested in working together with Plastic Logic should contact [info@plasticlogic.com](mailto:info@plasticlogic.com).

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