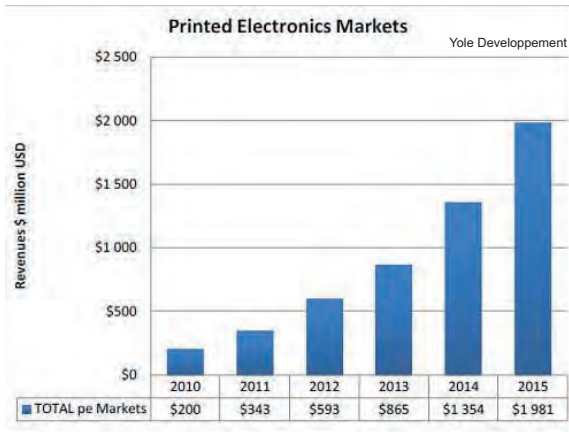


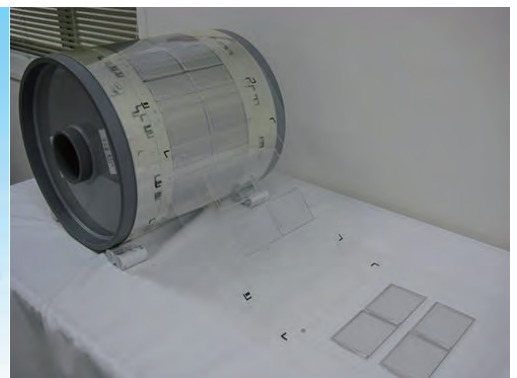
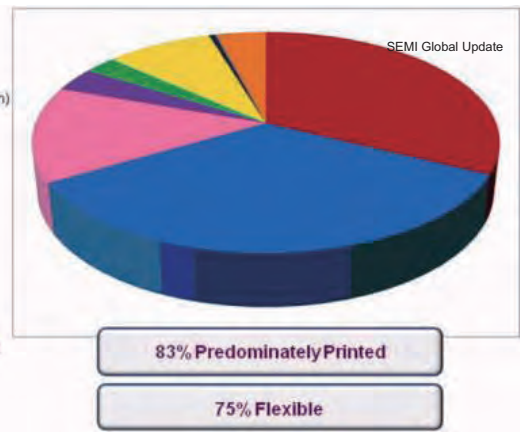
Ambient Condition Printable Metal Nanoink

Okayama University Masayuki KANEHARA

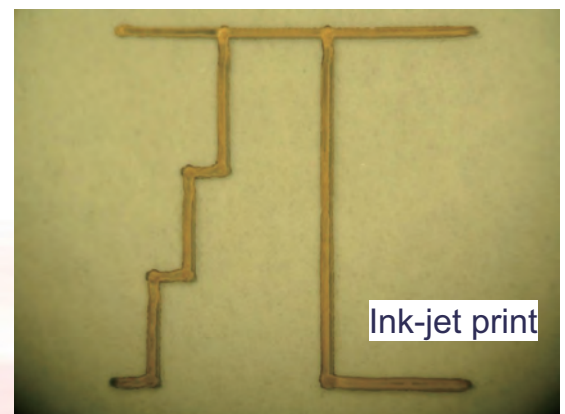
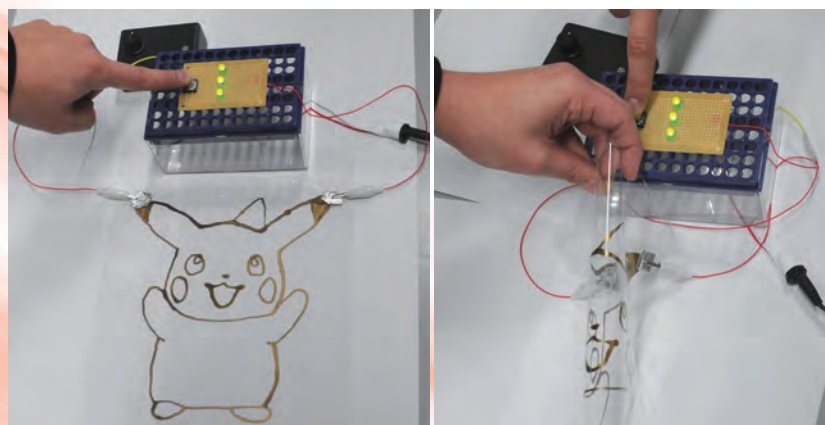
Printed Electronics: Huge market (trillions of Yen), 30 years later



- **OLED Display & Lighting \$19 billion**
- **Photovoltaics \$17 billion**
(Excluding CdTe and Conventional Silicon)
- **Transistors: \$8 Billion**
- **Other inks: \$2 billion**
- **Sensors: \$1.6 billion**
- **E-paper displays \$6 billion**
- **Inorganic Electroluminescent displays \$0.4 billion**
- **Others \$2.75 billion**
(Batteries, other displays etc.)



Low temperature processes is necessary in Roll to Roll mass production using low cost plastic substrates.



By Printing and drying under ambient condition, electrodes and circuits can be fabricated on any substrate.

Ambient Conductive Metal (Au, Ag) Nanoink

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