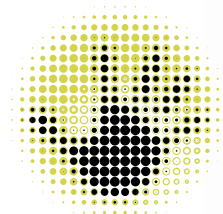


Discover the project results and learn more about interface material innovation.



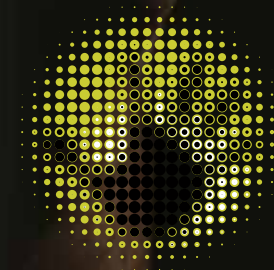
[io.tudelft.nl/ltm](http://io.tudelft.nl/ltm)



LTM YouTube Channel

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Thin, flexible, luminous and touch-sensitive: the LTM materials enable smart interfaces for any kind of application.



**light.touch.matters**  
the product is the interface

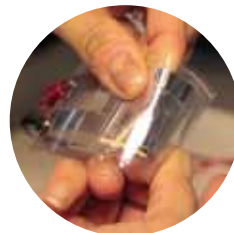
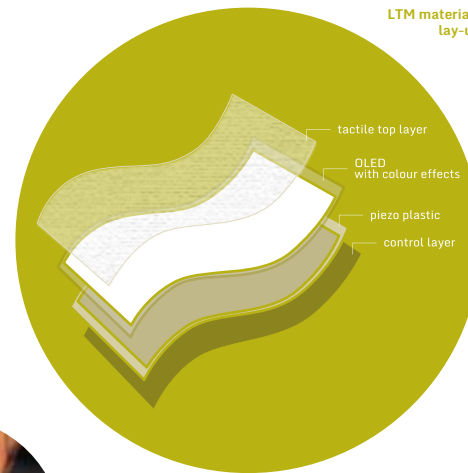


“Light.Touch.Matters” is a one-of-a-kind initiative based on a unique cooperation between **product designers and material scientists**, 17 entities from all around Europe. Designers and scientists joined forces to develop new smart materials that combine **touch sensitivity with luminosity**. This “design-driven material innovation” is carried out through a methodology consisting of iterated cycles of **material-inspired and design-driven** materials research with direct and prolonged design-researcher interaction.

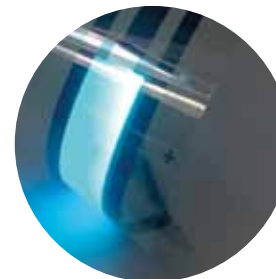
The novel “LTM materials” are thin, flexible, luminous and touch-sensitive, thanks to flexible **OLEDs** combined with an advanced Lead free **polymeric piezo** material. Manufactured on plastic substrates, they expand design freedom and unlock totally new ways of user-product interaction through affordable and intuitive user interfaces. Together, these unique features allow seamless integration of the LTM materials into parts and products, up to the point where **the product becomes the interface**.

The LTM designers have developed several **design projects** starting with applications for care & well-being. Each developed concept has contributed during its design process to the definition of the LTM materials and is, at the same time, a demonstrator of the **wide range of application possibilities**.

Highly attractive, the LTM materials are easy to use and integrate into products, able to create **smart interfaces** for any kind of application and industry: from consumer goods and visual communication to healthcare, sports and even the automotive sector.



LTM piezo plastic  
Lead free polymeric piezo sensor



LTM OLED  
thin and flexible R2R manufactured OLED



Globuddys \_ patient experience tool  
by Fuelfor



MeLITE \_ intuitive headphones  
by Pilotfish



LifeSaver \_ AED vest  
by VanBerto