



Realizing Europe's potential in a world redefined by the Digital Transformation

Organized by the **SOI Industry Consortium**

TechArena2, 13:15-15:40, November 13, 2018

Microelectronics has enabled the digital transformation that is impacting all the aspects of daily life, from manufacturing productivity through health diagnostics to consumer goods. It impacts the import/export balance and industrial capability of a country. It is a very strategic sector that shapes the economy of entire countries. China is a very good example of this.

On the other hand, microelectronics itself is a sector in constant renewal. In particular, the connectivity revolution has moved the microelectronics center of gravity from being digital-centric to hybrid architectures with RF/analog mixed signal and signal processing capability. IC development has moved away from targeting high speed at any price, instead the major focus of the IC industry has become delivering performance at the lowest possible energy consumption.

Europe is well positioned in the field of connectivity with RF-SOI and ultra low power consumption with the FD-SOI technology which involves key European actors as NXP, STMicroelectronics, GlobalFoundries, CEA-Leti, and Soitec, just to mention a few. FD-SOI is a technology that applies to all core verticals of Europe bringing numerous advantages. In the field of RF, European industries have achieved an important position with RF-SOI, a platform that has become the incumbent technology for the RF Front End Module for probably 100% of smart phones manufactured in the world.

The SOI Consortium organizes since 2013 the Shanghai 2018 FD-SOI Forum and International RF-SOI/5G Workshop in Shanghai. It is an event that has grown to about 400 participants. It brings together decision makers of the whole China ecosystem and heads of key investment funds; in addition to decision makers from non Chinese leading companies and organizations. It has the attention of government officials from Beijing, Shanghai, Chengdu, who also attend the event.

To set the stage the SOI Consortium will present the key highlights from the Shanghai 2018 FD-SOI Forum and International RF-SOI/5G Workshop from 18-19 September. The presentation will be followed by 5min of Q&A.

Europe has numerous industrial strengths. The following panel will be centered on the industrial European ecosystem and what could be done to further amplify its strengths in RF and ultra low power microelectronics. The panel will discuss the European microelectronics FD- & RF-SOI ecosystems from the industrial robustness point of view focusing on strategic industrial pillars for Europe. FD-SOI is a game changer technology that enables ultra low power solutions, and helps solve the critical power supply issue. The central questions to be discussed will be:

- Importance of robust microelectronic clusters of manufacturing, R&D, SMEs, and innovation
- Europe contribution to the growth of a healthy microelectronics ecosystem to secure European strategic industries