## HIRAMOTO-KOBAYASHI LAB.

## [Silicon-Based Integrated Nano-Devices]

Department of Informatics and Electronics

Integrated Device Engineering

Department of Electrical Engineering and Information

http://vlsi.iis.u-tokyo.ac.jp/

## **Towards VLSIs integrating everything**

Very large scale integration (VLSI) is the basis of contemporary advanced IT society. Hiramoto/Kobayashi Lab. aims at solving worldwide problems by the technological innovation of future integrated nanoelectronics from the device side. Prof. M. Kobayashi, formerly a researcher in IBM Watson Research, joined the lab in 2014. Based on the vision in Fig. A, we are pursuing the extreme form of integrated nanoelevices.

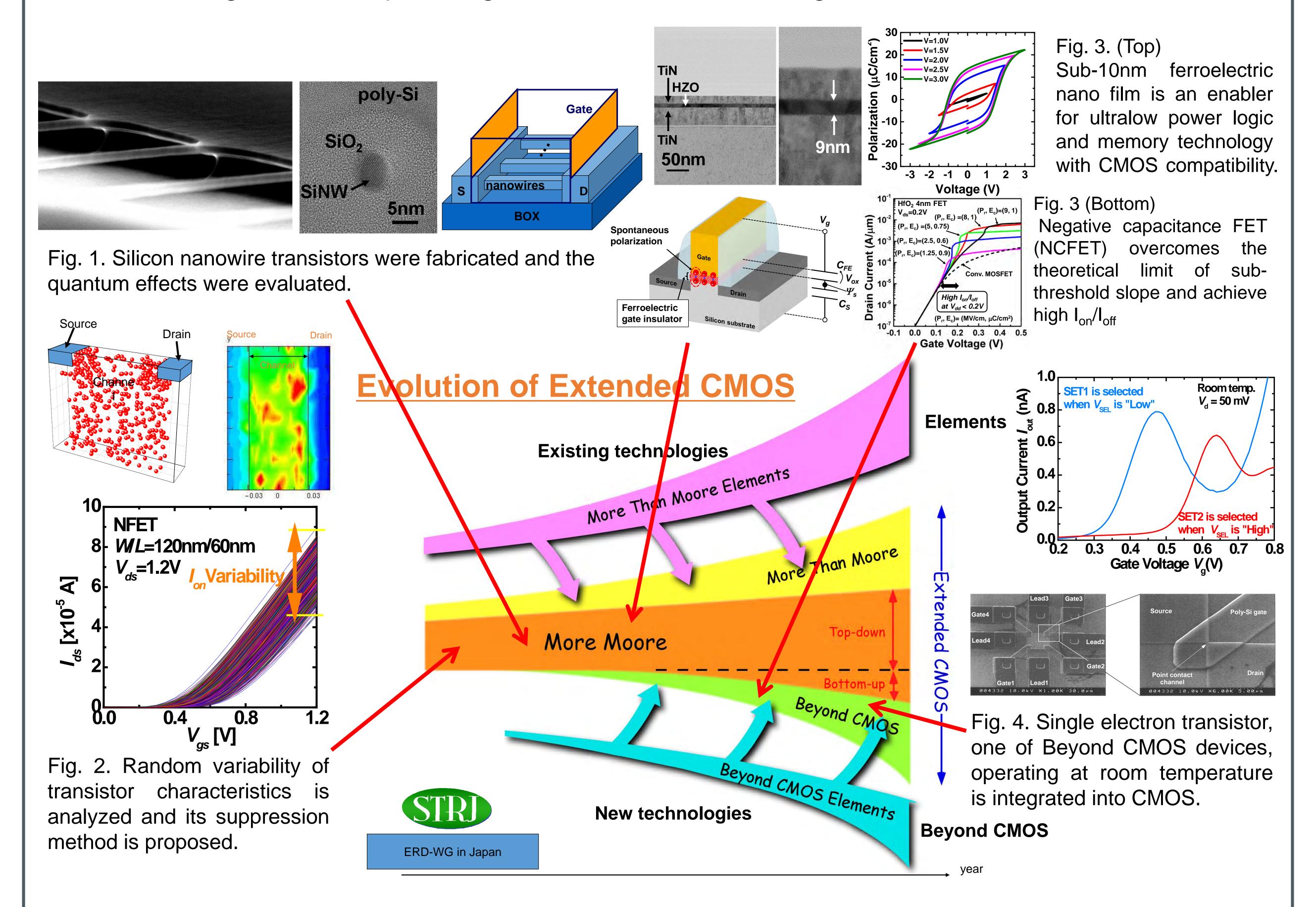


Fig. A. A vision map of the integrated nanoelectronics, drawn by Prof. Hiramoto in Semiconductor Technology Roadmap Committee of Japan (STRJ). A new field of "Extended CMOS" will be created by integrating "Beyond CMOS" and "More Than

