HIRAMOTO-KOBAYASHI LAB.

[Silicon-Based Integrated Nano-Devices]

Department of Informatics and Electronics

Integrated Device Engineering

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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 nanodevices.

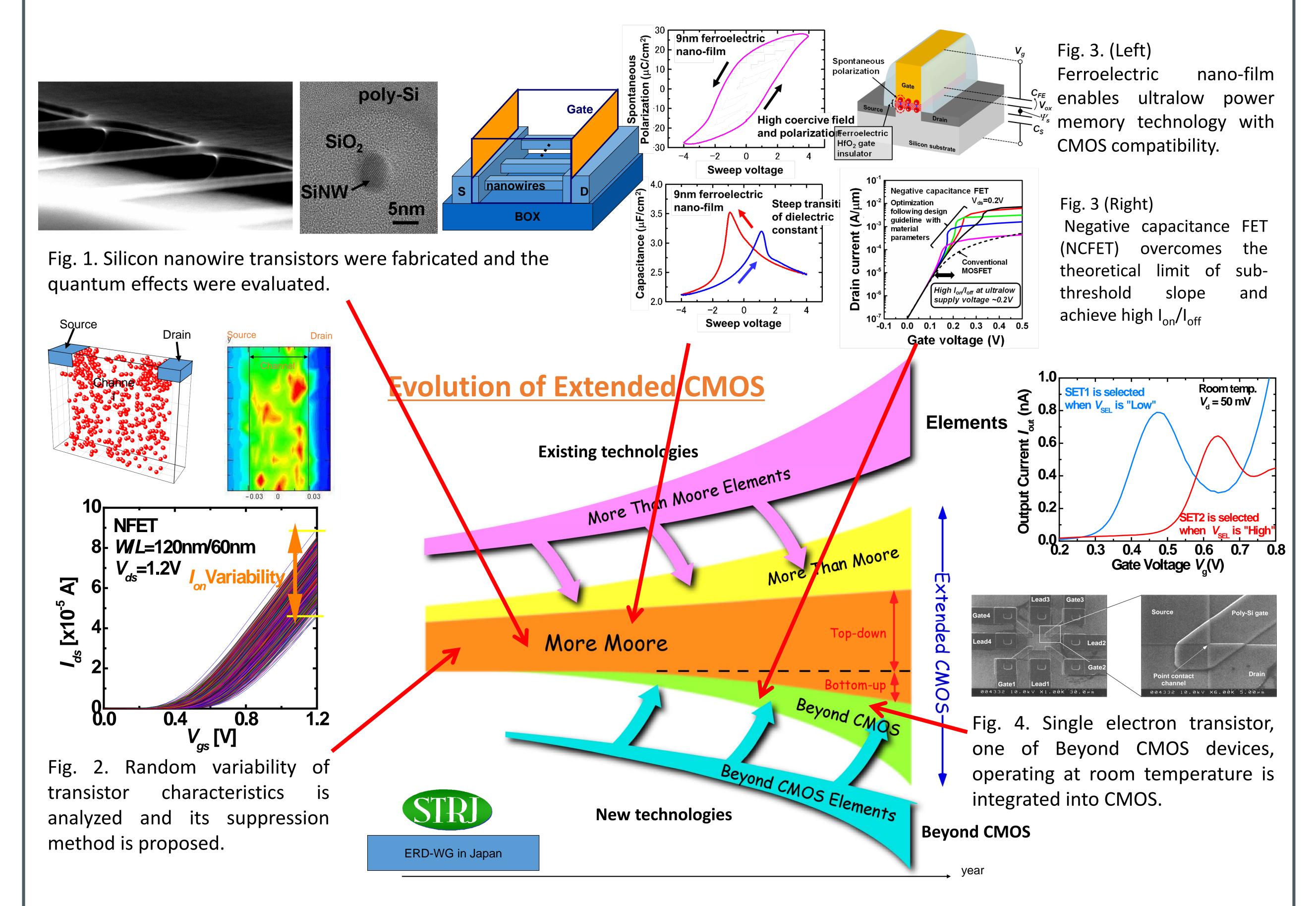


Fig. A. A vision map of the integrated nanoelectronics, drawn by Prof. Hiramoto in Semiconductor Technology Roadmap Committee of Japan (STRJ). A new field of "Extended CMOS" will be created by integrating "Beyond CMOS" and "More Than Moore" into CMOS base



