

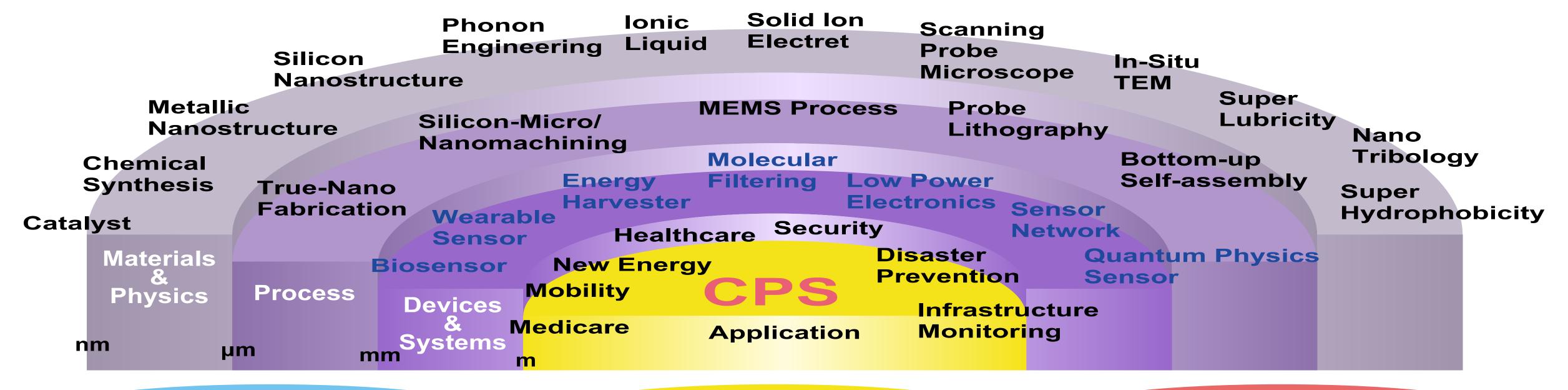
Centre for Interdisciplinary Research on Micro-Nano Methods (CIRMM)



Materials Engineering
Precision Engineering Department
Department of Advanced Interdisciplinary Studies
Department of Electrical Engineering and Information Systems

http://www.cirmm.iis.u-tokyo.ac.jp/

MEMS and True-Nano Technology for Cyber-Physical-System (CPS) Implementation



True Nano Physics

Novel devices beyond the scale of conventional principles

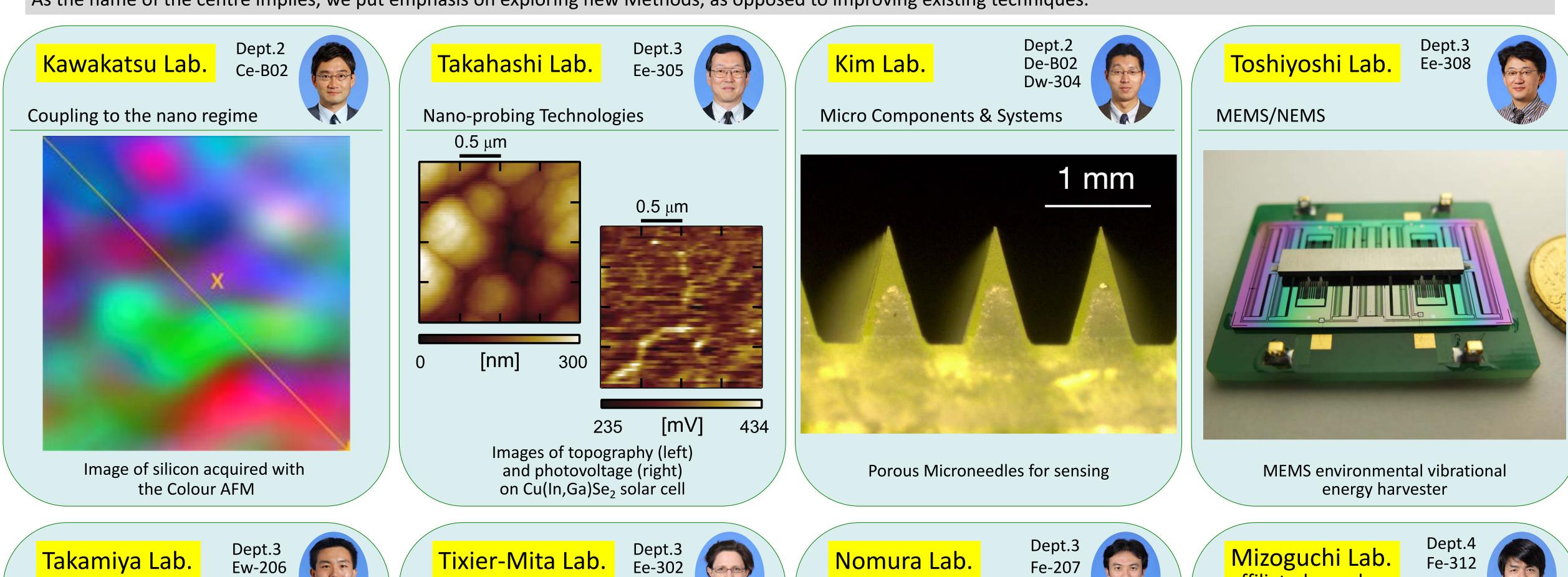
CPS Implementation

MEMS as edge computers and gateway to cloud of big data

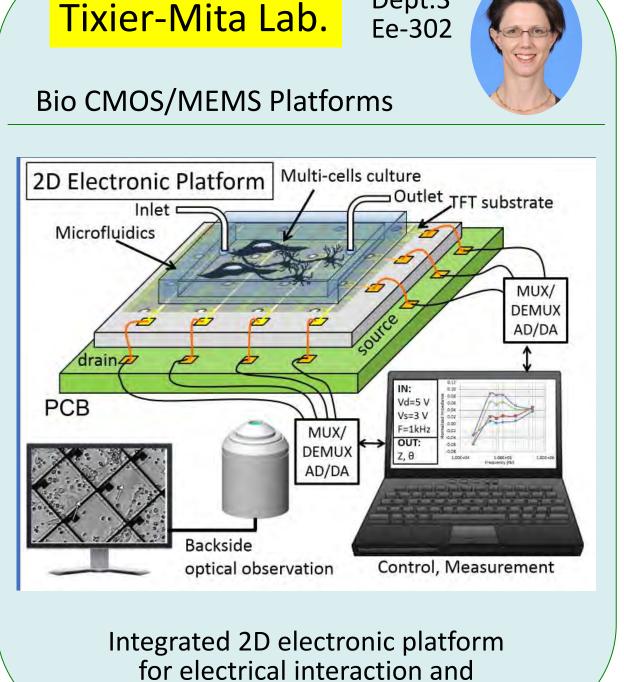
Nano Fabrication

In-house Fab-Lab for cutting-edge manufacturing

We focus on exploring new methods of detection, imaging, selection and filtering of molecules and atoms, harvesting of energy from the nanometric level, control of friction, fabrication, diagnosis and even treatment. In parallel, we envisage large scale implementation of things small, such as sensors, energy harvesters, optical and diagnostic nano tools. As the name of the centre implies, we put emphasis on exploring new Methods, as opposed to improving existing techniques.







manipulation of biological cells

