R&D Center for Innovative Material Characterization

Since October 1st, 2019

## － Toward innovative measurement and evaluation technologies －

The world is making rapid progress with the aim of creating a sustainable society utilizing IoT and AI. Measurement and evaluation techniques are becoming increasingly important. In this center, we promote the research and development of new measurement and evaluation technologies by making full use of evaluation methods with light and electromagnetic waves, sound waves, electron and particle beams, nanoprobes, etc. and applying the technologies such as machine learning, deep learning, etc to them. Their application fields are generally classified into two fields: the material science field such as nanotechnologies including semiconductors, functional devices, etc. and the medical related field such as pathological diagnosis, drug discovery, etc. Measurement and evaluation technologies are indispensable to them and form the core of Japan's industry. Further development of those technologies bears the future of Japan.

Taking advantage of the accumulated expertise in Tsukuba, we will continue to strive toward achieving innovative material characterization with high accuracy and quality.

Masahide Ito, Ph.D.

Director, R&D Center for Innovative Material Characterization

Mission
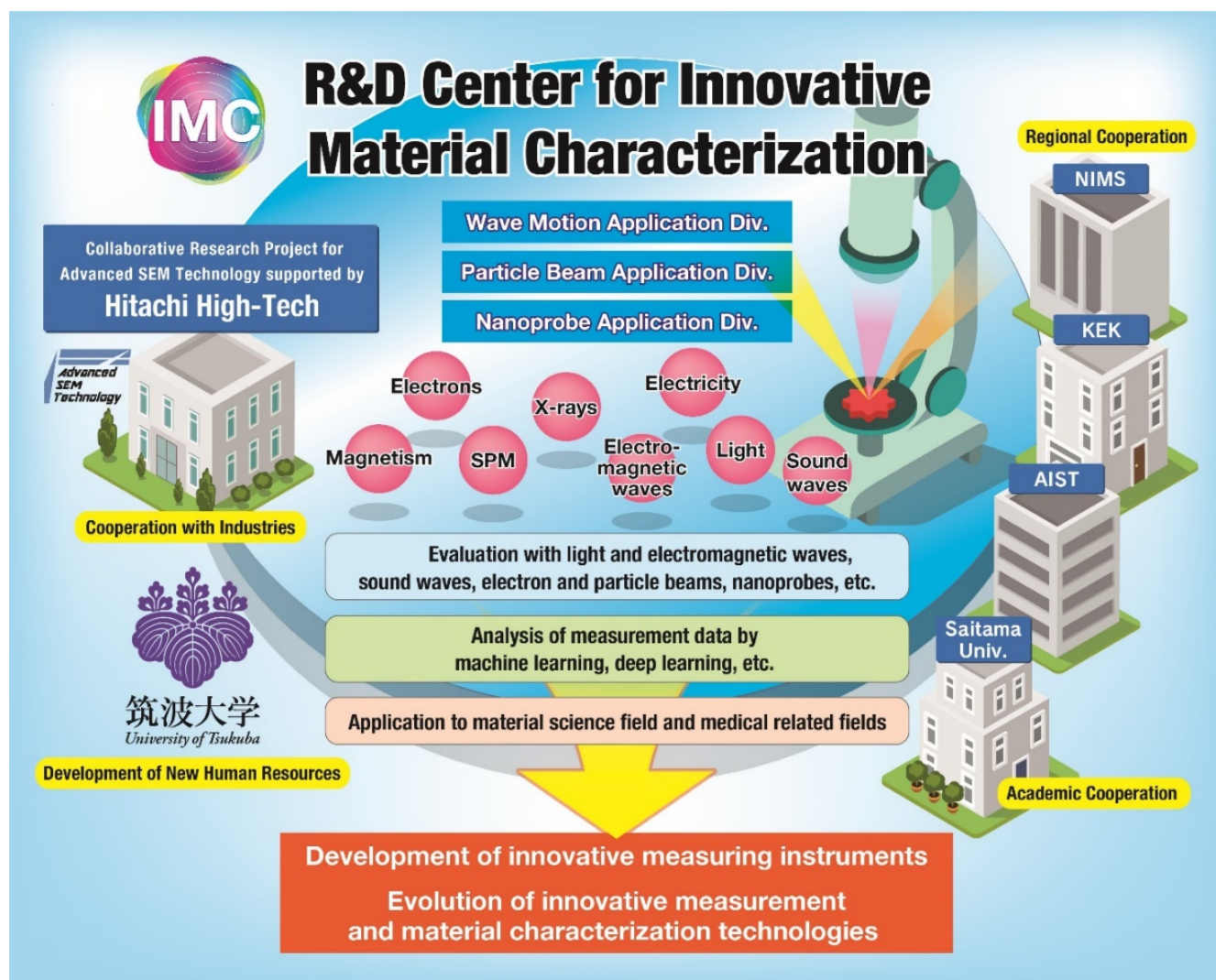
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