"International Networking for Device Development for Healthier, Safer and Securer Society"

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Osaka University

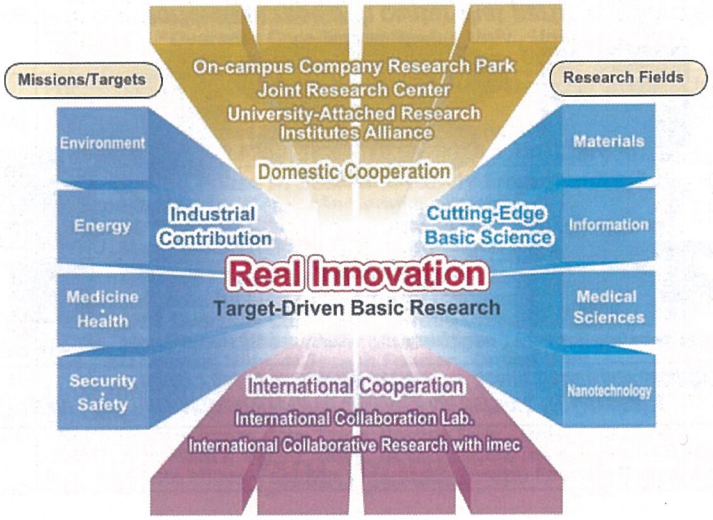
ISIR Pursues Target-Driven Basic Research Leading to Real Innovation

The Institute of Scientific and Industrial Research, Osaka Univ.

SANKEN 2012

www.sanken.osaka-u.ac.jp

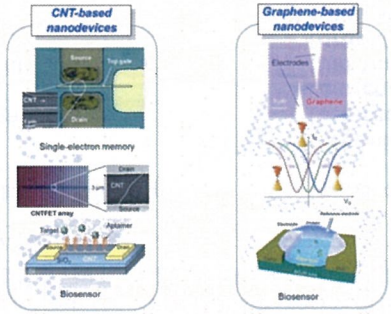
Mission Statement of ISIR



Interview with the Project Director

Professor Matsumoto, Vice-director of SANKEN

Professor Matsumoto is a pioneering and innovative existence in the field of carbon nanotube and graphene in the global context. Nanocarbons such as carbon nanotubes (CNT) and graphene are expected for fabrication of devices because of their unique structures and superior electrical properties. In this department, synthesis of nanocabons, fabrication and characterization of nanocarbon-based nanodevices are investigated.



Objectives

Under the auspices of the above JSPS Program, ISIR, as a Japanese core/hub institution, has launched a five years Core-to-Core Program (from April 1, 2013 to March 31, 2018)

Our program was designed to form a world-top-level collaboration network including 5 European and 1 USA research institutions by sharing a subject of Developing Highly Functional Sensing Devices for Health and Safety/Security.

Core members

ISIR Osaka univ.

<Coordinator>

Prof.vice director Matsumoto	(nano-carbon devices)

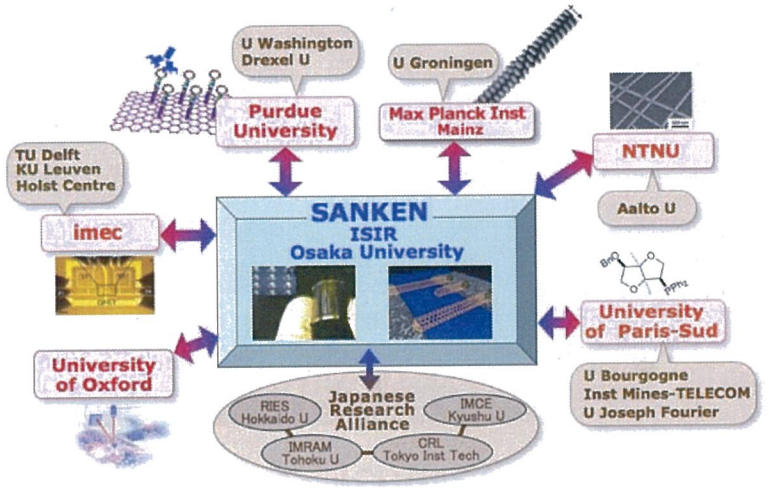
<Researchers>

Prof. Takeya	(organic semiconductor)
Prof. Suganuma	(printed electronics)
Prof. Nakatani	(bio-chemistry)
Prof. Yamaguchi	(bio-function)
Prof. Sasai	(organic composition)
Prof. Washio	(data mining)
Prof. Numao	(data mining)
Prof. director Yagi	(sensor processing)
Prof. Ogura	(advanced CMOS process)

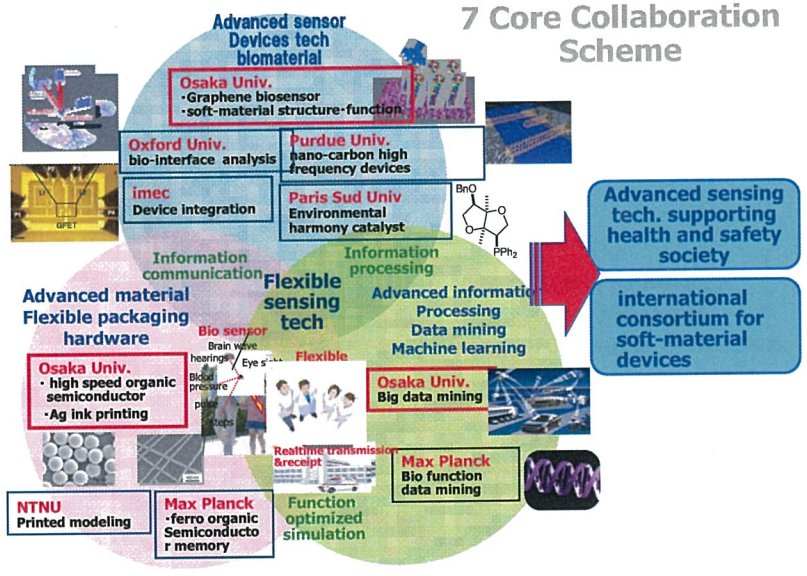
EU·USA 6 core institutions <coordinators>

Dr.P.Blom	Max Planck Mainz lab. Director	(organic semiconductor)
Dr. S.Contera	Univ. Oxford Lecturer	(bio sensor)
Prof. J.de Boeck	imec CTO&SVP	(bio electronics)
Prof. Z.Zhang	NTNU	(printed electronics)
Prof. D.Jane	Purdue univ.	(nano-carbon bio sensor)
Prof. G. Vo Thanh	Paris Sud. univ.	(Green Chemistry)

Collaboration Networking

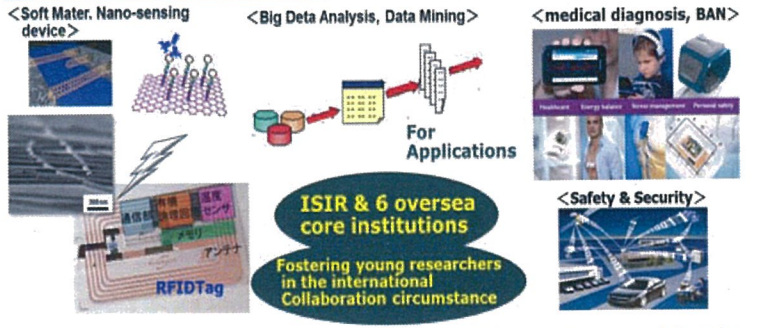


7 Core Collaboration Scheme



Our Goals

Program Title : International Research Collaboration Network for Developing Highly Functional Sensing Devices for Health, Safety and Security



To create top world-class research center that partners with other core research institutions in the world under the program