

## Main Efforts for the Creation of Regional Innovations

### Hokkaido University Research & Business Park

Development of "health care innovations" such as the formation of an "integrated center for health science and medical technology" focusing on the functionalities of food

The Hokkaido University Research & Business Park, which is composed of 16 research institutes engaged primarily in life science research, has been addressing the creation of a health science industry by forming a hub to analyze and evaluate the functionalities of food and by enhancing the added values of regional foodstuffs. In addition, it also aims to form an innovation hub for the development of world-leading medical technologies and new drugs as well as for the integration of health science and medical technology with a focus on the bio-functionalities of food, by maximizing accumulated knowledge and technologies. Furthermore, the Hokkaido University Research & Business Park promotes "health innovation" aimed at maintaining, promoting, and restoring people's general health condition, such as medical tourism and fitness backed by the most advanced medical technology, in order to contribute to creating a health-longevity society.



Hokkaido University Research & Business Park

### Yamagata Organic Electronics Innovation Strategy Promotion Region

Commercialization of Organic Electronics Technology through industry-academia-government collaboration —Establishment of Yamagata model's regional innovation system—

While competition is becoming increasingly intense worldwide in the field of organic electronics, the Yamagata Organic Electronics Innovation Strategy Promotion Region promotes through industry-academia-government collaboration further advancement and commercialization of the general organic electronics technology fostered in the area, including OLED lighting technology, organic solar cells, and organic transistors (e.g., development of mass production technology for an innovative printing method in terms of easy operability and cost reduction), and aims to attract companies to the area through technology transfer efforts. With the Yamagata University Innovation Center for Organic Electronics, which begins full operation this year, at the center, the Yamagata Organic Electronics Innovation Strategy Promotion Region focuses on the establishment of the Yamagata innovation model from fiscal 2013 and strives to make the Yamagata area a "global center of organic electronics."



Flexible OLED lighting

### Nagano Super Module Supply Hub for Next-Generation Industries (the greater Nagano Prefecture)

Creation of synergy-creating innovations driven dually by research-seeds-oriented and market-needs-oriented industry-academia-government collaboration systems

The "research-seeds-oriented industry-academia-government collaboration support system", which combines material technology seeds of knowledge-rich institutions such as Shinshu University and Nagano Prefecture's acclaimed ultra-precision technology, was added with a "market-needs-oriented product commercialization promotion system" for the development of medical modules/equipment that meet the clinical medical needs of university hospitals and others. The revamped industry-academia-government collaboration support system aims to accelerate the establishment of the Nagano Super Module Supply Hub for Next-Generation Industries in the greater Nagano Prefecture. This region is focused on promoting international activities, such as sales of superb technologies possessed by local companies, such as ultrahigh-speed PCR equipment, high-sensitivity clinical examination systems utilizing fluorescent magnetic beads, and other medical equipment developed and commercialized in the region, and the establishment of a network connecting to overseas universities and research organizations, with the aim of creating an internationally competitive center for the medical equipment industry.



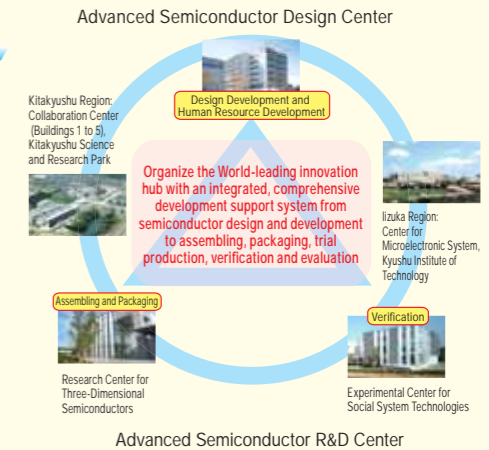
Nagano Booth at COMPAMED 2012 (Germany)

Achievements made by the regional science and technology promotion policies promoted in the past by the industry-academia-government collaboration are further advanced with the aim of establishing sustainable regional innovation systems.

### Fukuoka Next-Generation Social System Development Promotion Hub

Promotion of the progression of regional new growth industries by implementing social-needs-directed development

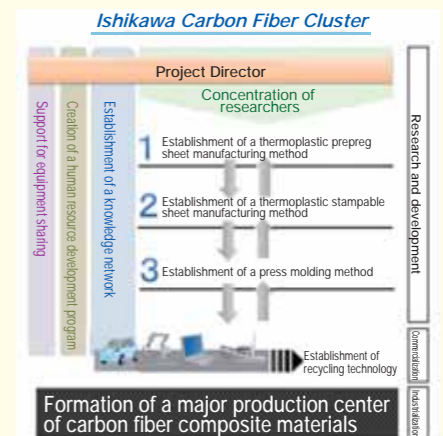
This region aims to organize an innovation hub which powerfully leads the further development of the Japanese economy by strengthening the international competitiveness of the new growth industries such as advanced semiconductor, biotechnology, nanotechnology, automobile, hydrogen energy, robotic, information content, and low carbon society which they have been engaged, and they also try to introduce transnational powers to Fukuoka mainly from Asia. To meet the challenge of various problems the world faces today such as highly informative, low-carbon, and longevity society, and to create innovation continuously, this region is actively engaged in the development of various Next-Generation Social Systems which can solve those problems, and also work on the establishment of "Society-leading R&D model". In addition, by going forward with the global standardization of research and development results, they aim at organizing of "Fukuoka Next-Generation Social System Creation Hub" as a world-class innovation center that will lead Asian countries.



### Ishikawa-Style Environmental Value Creation Industry Development Area

Promotion of development of technologies and products with high added value from an environmental perspective toward the creation of the Ishikawa-Style Environmental Value Creation Industry

This region currently promotes the development of technologies and products for the carbon fiber field, which are expected to find application in automotive parts and contribute to reducing carbon dioxide emissions, by maximizing the superb technologies of local industries, such as weaving and dyeing technology of the textile industry and press working technology of the machining industry, as well as the knowledge possessed by universities and other research institutes. To further accelerate these activities, the "Ishikawa-Style Environmental Value Creation Industry Development Area" invites researchers and fosters specialists in the pertinent fields, promotes sharing of machines and instruments, and arranges business promotion coordinators toward the establishment of a major carbon fiber composites production center.



### Renewable Energy Pioneer Fukushima Innovation Strategy Promotion Region

Concentration of industries and establishment of a sustainable recycling-oriented society toward the realization of "Renewable Energy Pioneer Fukushima"

This region strives to create a wide range of innovations for industries related to renewable energy by promoting the establishment of renewable energy research facilities and achieving industrial concentration in Fukushima Prefecture as a pioneer in the field of renewable energy. The region invites and accumulates researchers in pertinent fields to further increase employment, cultivates human resources in the renewable energy industry sector for continual creation of industries, and conducts coordination activities for the establishment of a network with pertinent companies and universities, in an effort to further advance local industries in relevant areas and strengthen research functions.

