In recent years there have been significant shifts in the cultures of many universities to better align their interests in innovation with those of their key stakeholders and to strengthen their linkages with industry and business partners to facilitate exciting new innovations and inspire transformational innovators. The University of Sydney has strong relationships with business and industry and its Faculty of Engineering and Information Technologies and Sydney Business School have significant international activities with other like-minded global universities as well as with national and international industry/business partners. Partnering relationships need to identify areas of business innovation and entrepreneurial spirit and stimulate them with motivated staff and students to inspire both the university communities and its business partners, to enhance their innovation cultures. A number of key strategies to support these relationships and to encourage understanding and trust will be outlined in this paper. Also presented will be a number of national and international case studies that focus on dynamic industry sectors including, robotics, biomedical technology and energy.

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Technical Talk on "Industrial Big Data Analytics for Smart Manufacturing Transformation"

The goal of Industry Big Data and Industry 4.0 is to transform manufacturing into Smart factories and manufactured goods into smart products and service innovation. Smart factories will be able to manage complexity while avoiding disruptions to operations and would be able to produce parts/goods more efficiently. Meanwhile, smart products will be uniquely identifiable, can be tracked any time and will have a record of its own history, and other self-aware capabilities. This lecture is organized to give an introduction about Industrial Big Data Analytics as well as its impacts to future product design, manufacturing, and services innovation. First, changing global business environment and Industry Big Data is introduced. Second, Industrial Big Data Analytics and Its Value for Digital Manufacturing and Product Innovation is discussed. Third, Dominant Innovation Tools and Case Studies in selected global leading companies are examined. Finally, summary of future product design and manufacturing is given with open discussions about how companies can develop and deploy Dominant Innovation systems for customer value creation.

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