



# KNOWLEDGE PAPERS

## Series 3/2017



### FICCI-KOAN Knowledge Paper - Building India's Future Navy: Technology Imperatives

The FICCI-KOAN Knowledge Paper on "Building India's Future Navy: Technology Imperatives" classifies disruptive technologies into three baskets. The first basket consists of technology that drives information, which is a critical element in designing the battle space and the conduct of war itself. Their development rides on advancements in artificial intelligence, internet of things and big data analysis among other things.

The second basket consists of technological developments in materials. It concerns development of meta-materials, exotic alloys and composites, while also discusses construction/manufacturing technologies such as three-dimensional printing. The third basket concerns autonomous vehicles, the development of which is set to re-envision naval warfare. An additional basket of disruptive technology is in the field of robotics, automation, miniaturisation, and energy generation and storage systems..

<http://www.ficci.in/publication-page.asp?spid=20920>



### Indian Railways Stations Redevelopment - Transforming and Creating New Win - Win Opportunities

Revitalizing the entire Railway network, Indian Railways has taken up the ambitious Station Redevelopment program. Railway stations and adjoining areas will be redeveloped on Smart City lines for enhancing passenger amenities, easy access to stations, and enabling optimal utilization of railway land. This program is one of the biggest Transit Oriented Development project in the entire world. The program is focused on developing smart ergonomic station designs for redeveloping 400 railway stations across the country. Technology is playing a very pivotal role in extending scalability, accessibility and performance for suture rail transportation growth. This report highlights the learning from parts of the world, various modes of station development being deployed by Indian Railways, program details of the first set of station available for bidding under PPP and learning on PPP opportunities and challenges, and the key imperatives to make this program a successful one.

<http://www.ficci.in/publication-page.asp?spid=20921>



### Reforms on Track: Accelerating Indian Railways' Investment Trajectory

The Indian Railways offers immense investment opportunities across all elements including capacity augmentation, de-bottlenecking, redevelopment and improving passenger amenities. The infusion of foreign equity and technology are leading to significant growth in manufacturing and enhancing competitiveness. The Indian Railways is accelerating the development agenda with increased focus on innovative financing solutions, transformation on energy mix, efficient technologies, world class business analytics and automated data collection.

The objective of this report is to study SMART initiatives of Indian Railways for identifying investment opportunities in areas of Railway Station Redevelopment, High Speed Rail Corridors, Safety, Technology, Customer Interaction & Services, and sustainability to enhance operational efficiency, safety and passenger comfort. The report highlights the potential areas of private sector participation, access to finance and recommendations for further fast-tracking growth in this sector.

<http://www.ficci.in/publication-page.asp?spid=20918>



### Building India's Future Navy - Technology Imperatives: Technical Papers

Building India's Future Navy - Technology Imperatives: Technical Papers is a compilation of article written by officers of the Indian Navy. The papers are technical in nature and try to cover the entire gamut of technological requirements for building India's Future Navy. The publication is useful as it offers the Industry a window to look in the work space of the Indian Navy and provides information for building industrial capabilities so as to match the requirements of the future Indian naval force.

<http://www.ficci.in/publication-page.asp?spid=20938>



### FICCI-E&Y Report - "Revival of PPP momentum in the transport sector"

India has witnessed considerable growth in PPPs in last decade and emerged as one of the leading PPP markets in the world. The PPP models being adopted by the government are opening new avenues of investment and modernization. This will also bring in greater productivity and efficiency to the deployed capital. Government has taken a slew of measures to revitalize the PPP model to attract private investment like introducing the Hybrid Annuity Model (HAM) and Toll-Operate-Transfer (TOT) in the road sector, Sagarmala Programme for port-led development, Station Redevelopment Programme in railways sector and the recently launched Regional Connectivity Scheme (RCS) in the civil aviation sector.

The report highlights the current state of PPP in transport infrastructure sector in India, government initiatives, access to finance and recommendations for further fast-tracking growth in this sector. The report has been prepared through detailed analysis of several critical factors influencing PPP projects in India. It also sheds light on the achievements so far in the context of PPP and sector-related experiences.

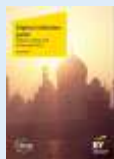
<http://www.ficci.in/publication-page.asp?spid=20931>



### Agriculture Marketing: An Overview and Way Forward

Marketing of agricultural produce is an important economic activity as it needs to balance the affordability and availability of food for consumers with sustained improved incomes to farmers. A strong and transparent agricultural marketing system is imperative for ensuring remunerative returns to the farmers. FICCI has come out with an interesting Report to highlight, discuss and debate the issues in agricultural marketing. Studies have identified challenges in agricultural marketing as small scale of individual production which adversely affects marketing economies for farmers, poor market information systems, insufficient storage and post-harvest value addition at the farm level, post-harvest credit, and high transaction costs for buyers and processors to engage with farmers. These issues can be addressed in a two-pronged approach – one, by developing institutions, and two, by investing in infrastructure. This report consolidates the measures to address the challenges in agricultural marketing in four dimensions – market integration to overcome the problems associated with fragmented markets, market access to farmers, market infrastructure and value addition to raise returns to farmers and generate off-farm employment in the rural areas. The report attempts to provide some answers to the many questions, drawing from various studies and inputs from industry, experts and policy makers.

<http://www.ficci.in/publication-page.asp?spid=20928>



### Digital inflection point: Indian media and entertainment

The Indian media and entertainment (M&E) sector now finds itself at a new inflection point — digital media. With India becoming the second largest smartphone market and 53% broadband penetration expected by 2020, the scale and impact of potential digital content consumption is enormous. This presents M&E companies, foreign and domestic, with an exciting opportunity to develop digital businesses that cater to a new generation of Indian digital consumers. Through this report, we look at the Indian M&E landscape and the opportunities it presents to investors.

<http://www.ficci.in/publication-page.asp?spid=20929>



### India Matters for America / America Matters for India

This project explores the important and multi-faceted relationship between the United States and India. Part of the Asia Matters for America initiative, this publication and its corresponding website provide tools for a global audience to explore the growing connections in the US-India relationship in the 21st century. The report broadly covers topics as Bilateral trade, Jobs from Trade, Bilateral investments, Educational exchange between countries.

<http://www.ficci.in/publication-page.asp?spid=20933>



### India-U.S. collaboration - Natural alliance for mutual growth and inclusive prosperity

This paper highlights bilateral relations of India and United States as well as the converging interest in sectors such as aerospace & defence, media & entertainment, energy, information and communication technologies, pharmaceuticals, agriculture and food processing and retail.

KPMG in India collaborated with FICCI as its knowledge partner for the FICCI-IIFA Global Business Forum 2017 and shared an industry perspective on India's economy, the India-U.S. business dynamic and outlined the opportunity landscape in some of the key sectors in this report.

<http://www.ficci.in/publication-page.asp?spid=20934>



### ASEAN-India: Growing Together

ASEAN India have emerged as strong trade and investment partners in the Asian region. With this relationship beginning as sectoral partners in 1992, India and ASEAN became strategic partners in 2012. Government of India's "Act East Policy" is focussed to further strengthen the relationship with ASEAN. This report highlights the key investment opportunities for ASEAN member countries in India, particularly in digital and creative industries.

<http://www.ficci.in/publication-page.asp?spid=20936>

## UPCOMING EVENTS

**FICCI-IPO Joint IP Awareness Programme**

August 25, 2017, NOIDA

**India Pavilion at Textilegprom 2017**

August 29-September 01, 2017, Moscow

**Call for Application for FICCI Road Safety Awards 2017**

August 31, 2017, FICCI, New Delhi

**Seminar on Contemporary Tax Issues (BEPS)**

August 31, 2017, New Delhi

**India Gas Infrastructure Conference 2017**

September 05, 2017, FICCI, New Delhi

**Effective Implementation and Internal Audit of ISO/IEC 17025 Laboratory Management System (LMS) and NABL Criteria**

September 05-08, 2017, Hotel Suba International, Mumbai

**14th Annual Capital Markets Conference - CAPAM 2017**

September 06, 2017, Trident, Nariman Point, Mumbai

**Educational Conclave - Emerging Trends in Technical Education**

September 06-07, 2017, Chandigarh

**Massmerize 2017**

September 07-08, 2017, FICCI, New Delhi

**Annapoorna: World of Food India**

September 14-16, 2017, Mumbai

**Global MICE Travel Mart 2017**

September 14-16, 2017, New Delhi

**The Big 5 Construct India 2017**

September 14-16, 2017, Mumbai

**Workshop on Secret of Peak Performance**

September 15, 2017, Jaipur

**India Transgrid 2017: International Conference on India's Power Transmission Networks**

September 15, 2017, New Delhi

**Global Skill Summit 2017**

September 15, 2017, New Delhi

**Smart Border Management 2017**

September 18-19, 2017, FICCI, New Delhi

**FICCI Smart Cities Summit 2017**

September 20-21, 2017, The Lalit Hotel, New Delhi

**Korea Expo 2017**

September 20-22, 2017, New Delhi

**Vastra 2017**

September 21-24, 2017, Jaipur

**4th North East Connectivity Summit 'Connect North East 2017'**

September 22-23, 2017, Kohima

**Conference on 'Institutional Participation in Commodity Derivative Markets'**

September 26, 2017, Mumbai

**Indian Conference on Life Cycle Management (ILCM) 2017**

October 09-10, 2017, FICCI, New Delhi

**MASCRAD 2017 - Movement Against Smuggling and Counterfeit Trade**

October 12-13, 2017, New Delhi

**Advantage Healthcare India 2017**

October 12-14, 2017, Bengaluru

**Odisha Travel Bazaar 2017**

October 15-17, 2017, Bhubaneswar

**India Telecom 2017**

October 26-27, 2017, New Delhi



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