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2018

INFRASTRUCTURE
INNOVATIONS
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Innovation

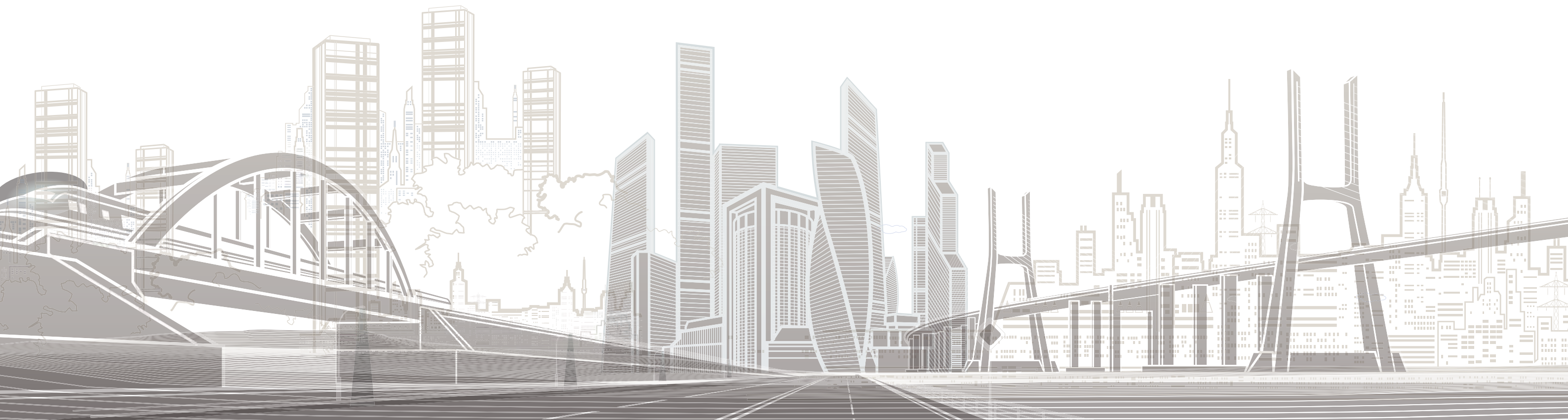INFRASTRUCTURE
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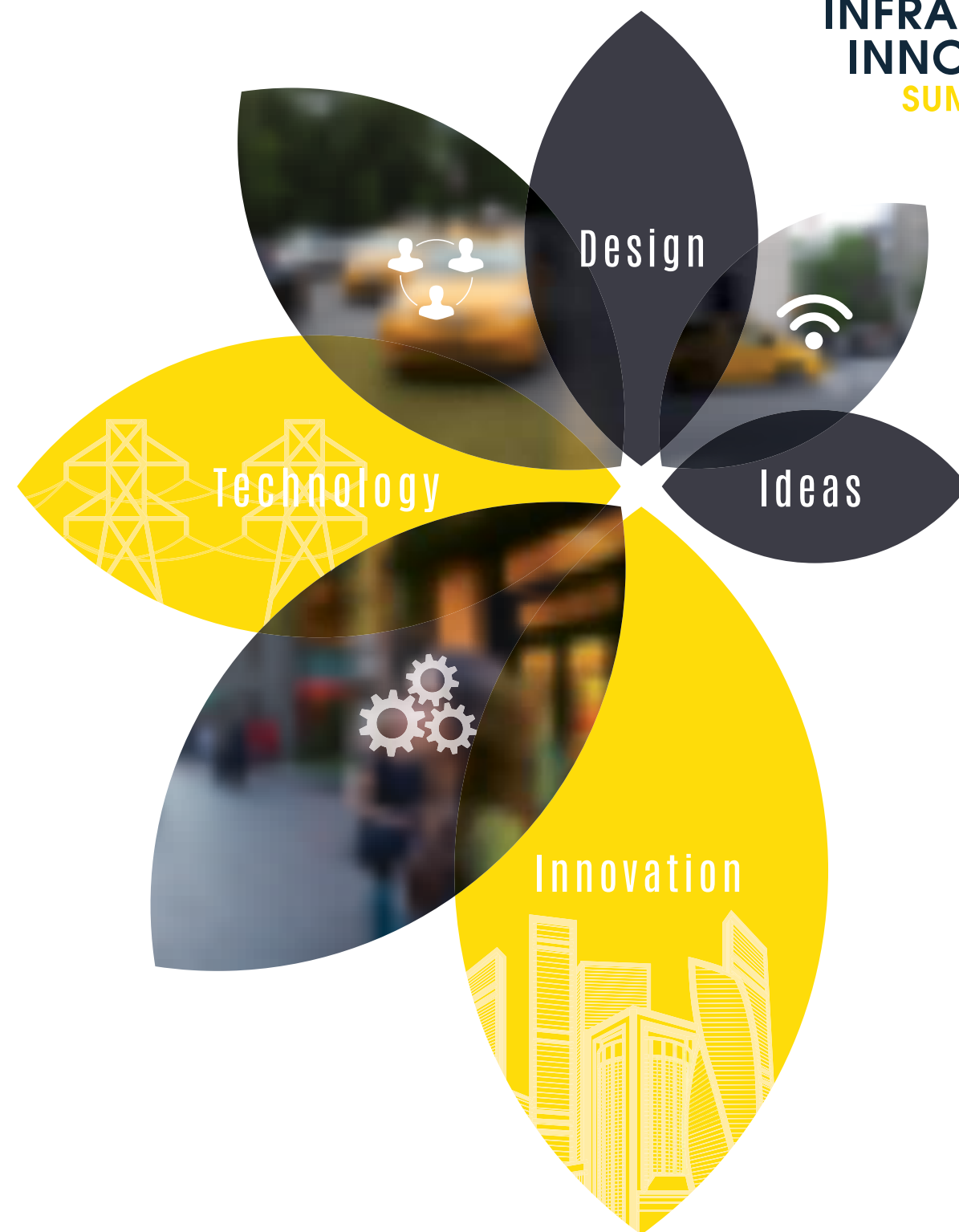
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IIS
2018

INFRASTRUCTURE
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A distinct platform for leaders and innovators to share, network and learn the status quo and future prospects of the infra-revolution.

AGENDA

Timing
9–9:15 AM

OPENING REMARKS CHIEF GUEST

Spearheading Housing for All by 2022

Timing
9:15–9:50 AM

SPEARHEADING

- Making Pradhan Mantri Awas Yojna financially viable.

- Augmenting affordable housing through housing finance companies and real estate builders.

- Challenges in building 'affordable' houses on already scarce urban land.

- Tapping the potential of multimillion vacant houses through rental reforms.

9:50–10:20 AM – High Tea (Break)

Infrastructure – A catalyst for affordable housing

Impact of Retrofitting

Timing
10:20–10:55 AM

Timing
11:30–12:05 PM

INFRASTRUCTURE

RETROFITTING

- Extensive transportation network for catalysing affordable housing

- Pragmatic investments in developing corridors

- Rental housing – A complmentary solution to affordable housing

- The inequation of sizable unsold inventories and supposed housing demand

**Networking Break
10:55–11:30 AM**

- Improving the building performance through retrofitting. Possibilities and Challenges

- Retrofitting techniques to convert normal buildings to seismic resistant and green buildings

- Plan for energy efficient retrofitting.

Urban Planning –
Need to create liveable spaces with resilient disaster management systems

Timing 12:05–12:40 PM

URBAN PLANNING

- Setting pragmatic policies for housing increasing numbers and providing seamless civic amenities with limited resources.
- Challenges for city-planners and real-estate developers to create the optimal fusion of commercially viable and socially thriving development projects.
- Alarming need for stricter safety norms, more robust and responsive disaster management systems.

Urban Mobility Solutions for Seamless Connectivity

Timing 12:40–1:15 PM

URBAN MOBILITY

- India's vision and strategies for sustainable urban mobility over a long run.
- Potential for the application of Intelligent Transportation System (ITS) through traffic management centres to improve safety, efficiency and convenience of existing infrastructure.
- Smart parking solutions for optimal use of urban spaces.
- Innovative methods for engaging commuters into following traffic rules.

1:15–2:15 PM (Lunch)

INFRASTRUCTURE INNOVATIONS SUMMIT 2018

HDA INSIGHTS

PANEL DISCUSSION

High rise structures in India

Timing
2:15–3:15 PM

- Emergence of high-risestructures in developing economiesto counter rampant urbanization and space constraints.

- Evaluating regulations impacting height limitations for high-rise structures.

- Future prospects for high-rise construction in mega-cities of India – lessons from rest of the world.

- Road ahead for the Indian codes and standards to enable domestic designers to spearhead the creation of high-rise structures in India.

- Striking a balance between architectural and engineering aspirations, buyer's expectations and developer's economics.

Smart Cities in India – A Holistic Approach for Development

Timing
3:15–3:50 PM

SMART CITIES IN INDIA

- Setting the basic infrastructure in place – Maiden step towards making Indian cities smart.

- Perceiving the term 'smart' in the Indian context with emphasis on sanitation, sustainability, employment, resource productivity, public aspirations and good governance with the touch of technology.

- FDI or innovative local funding, global smart solutions or 'Made in India' technologies, what can drive the smart city operations better?

3:50–4:20 PM
High Tea (Break)

HDA
INSIGHTS

High-rise Structures –
The powerhouses of developing economies

Timing
4:20–4:55 PM

HIGH-RISE STRUCTURES

- Coalition of architectural ideas and engineering solutions for designing high-rise structures to resist wind and earthquake.

- Fusion of traditional and contemporary architecture for creating culturally, socially and economically vibrant high-rise structures.

- Evolving disaster management systems tailored for high-rise structures.

- Recent developments in collaborative computing and software for simulating the behavior of high-rise structures.

- High-performance facade to tackle the challenging climatic conditions in India

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DAY

Thursday

24th May, 2018

Vertical Transportation

Timing
9–9:15 AM

OPENING REMARKS
CHIEF GUEST

Timing
9:15–9:50 AM

VERTICAL
TRANSPORTATION

- Intelligent VT systems for optimal waiting and transit time, adequate capacity, minimum redundant circulation and maximum safety.

- Emerging emergency evacuation systems in elevators for super-tall buildings.

- Striking a balance between the functionality, cost, user experience, space optimization and energy efficiency of a VT system from a designer's perspective.

9:50–10:20 AM
High Tea (Break)

Mobilizing – High performance materials and equipment in construction

Timing
10:20–10:55 AM

MOBILIZING

- Advent of high-performance construction materials in special infrastructure projects like high-rise structures, long-span bridges, tunnels, etc.

- Use of smart materials for energy efficiency in buildings.

- Implications of automated construction in labour-intensive economies.

- Integration of autonomous systems, machine learning and robotics with traditional construction equipment.

Breakthrough Innovation In Construction Systems And Methodologies

Timing
10:55–11:30 AM

BREAKTHROUGH INNOVATION

- Emerging innovations and solutions to accelerate the delivery of vital infrastructure.

- Mobilising proven management systems and affordable technology to increaase the productivity of fragmented SMEs.

- Viability of 3D printing and robotics for large-scale and high-volume applications.

- Performance analysis of 3D modular construction and pre-fabricated structural components.

HDA
INSIGHTS

Internet of Things and Big Data for Improved Infrastructure Productivity

Building Resilient – Cyber-Security Systems

Timing
11:30–12:05 AM

Timing
12:05–12:40 PM

IOT

BUILDING RESILIENT

- Building information modelling (BIM) for effective multi-disciplinary coordination and optimal decision making.

- Big data for optimal scheduling of construction activities, improved equipment efficiency and logistics management.

- IoT for energy efficiency, performance analysis, proactive maintenance, and safety management.

- Identification of key threats pertinent to various cyber-systems.

- Building adequate secured and resilient systems that are capable of protecting, responding and recuperating from breaches.

- Allocation of adequate funding and dedicated teams of experts for mitigation cyber-threats.

12:40–1:40 PM (Lunch)

HDA
INSIGHTS

PANEL DISCUSSION

Policies for fostering innovation in infrastructure

Timing
1:40–2:40 PM

- Formulation of policies for innovative financing in infrastructure systems.

- Shifting role of privatization as a catalyst in infrastructure development and operation.

- Wider adoption of performance based allocation of infrastructure projects for quality and timely delivery.

- Emergence of performance assessment in projects' financial evaluations before, during and after its construction.

- Emphasis on regulations for maintaining, retrofitting and improving existing infrastructure to maximise its quality service life.

- Policies for stimulating scientific and engineering research in public, academic and private sectors.

Renewable Energy Infrastructure – Planning for a Sustainable Future

Timing
2:40–3:15 PM

RENEWABLE ENERGY

- Financial and operational strategies for fostering Indian renewables.

- Pursuit of sustainable, profitable and scalable business models.

- Role of off-grid RE units in meeting domestic demands and India's RE targets.

- Solutions to variable power generation, storage of excess energy and distribution challenges.

HDA
INSIGHTS

Augmenting EV – Charging infrastructure for India's 'Mission EV 2030'

Timing
3:15–3:50 PM

AUGMENTING EV

- Technological complexities in fetching millions of electric vehicles (EVs) in the Indian market.

- Strategies for developing ample EV charging infrastructure across the country.

- Types of business models, reliable power source, supply and storage, and type of public-private partnerships for making the EV charging infrastructure sustainable.

3:50–4:20 PM
High Tea (Break)

THANK YOU!

HDA INSIGHTS