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HIGH LEVEL DIALOGUE
ON ASEAN ITALY
ECONOMIC RELATIONS

HIGH LEVEL DIALOGUE ON ASEAN ITALY ECONOMIC RELATIONS 2020

2° Digital Round Table

September 30, 2020

PRESENTATION BY RAMON ABIERA

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Opportunities for **Smart Infrastructures** and **Smart Cities** in the Philippines



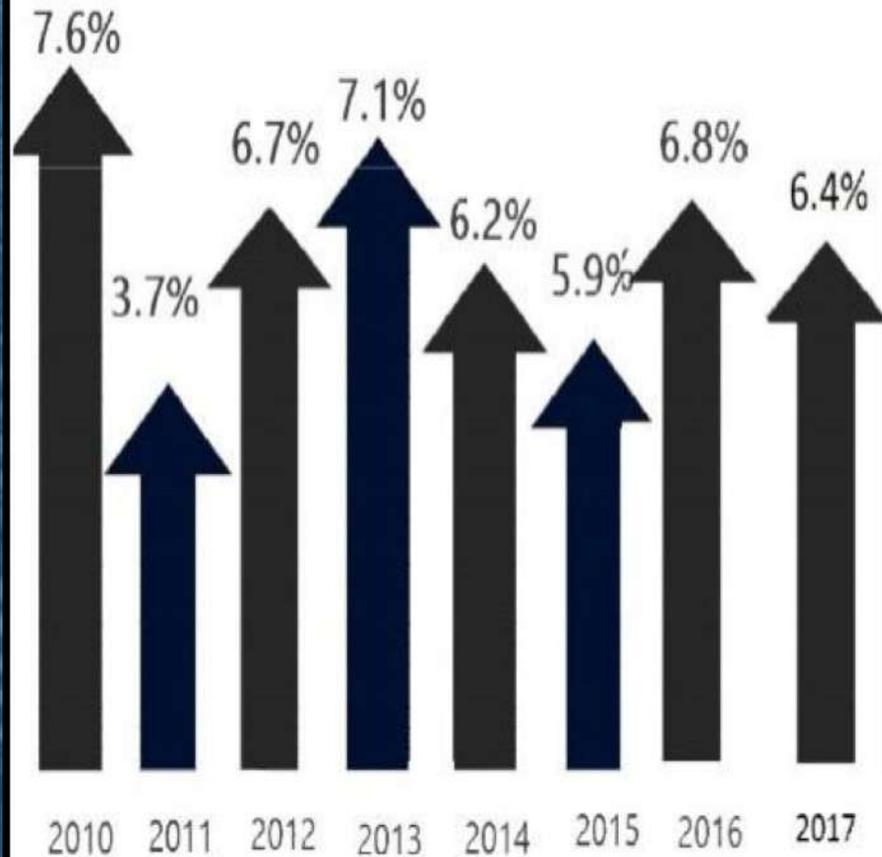
RAMON ABIERA

ICFG Director & UAP Committee Chair on Urban Development,
Green Building and Sustainability.

Former Executive Director of CIAP (Construction Industry Authority of the Philippines)

The Philippines: A Rare Bright Spot in Asia

Fastest Growing Economy Among Select Asian Economies



11th

2016 WORLD INVESTMENT REPORT

TOP 15 PREFERRED GLOBAL FOREIGN DIRECT INVESTMENT DESTINATION IN 2016 TO 2018

10th

2017 WORLD INVESTMENT REPORT

MNEs' TOP PROSPECTIVE HOST ECONOMIES FOR 2017-2019

Source: United Nations Conference on Trade and Development (UNCTAD)

The Philippines: A Rare Bright Spot in Asia

Strategic Location



Within 4 hours from
most key Asian cities

THE PHILIPPINE CONSTRUCTION MARKET

The construction industry in Philippines is expected to record a CAGR of 18.2% to reach PHP 2,221.2 billion (around €3.3 million) by 2024*

*DUBLIN--(BUSINESS WIRE) - COVID-19 Update Q2 2020"



WHAT NEEDS TO BE DONE?

Opportunities and needs for the development of smart infrastructures and smart cities

01

ALIGN with new realities

02

Research and development, planning and strategic foresight

03

Embracing new technology to improve productivity, efficiency and Quality

Capacity over time
in face of disturbances



Resilience

Sustainability



Capacity to preserve the system
in the long run

ALIGN with new realities

- Importance of the Resiliency/ sustainability of our Environment
- Importance of uplifting the skillset, protection and safety of our human resources
- Significance of social distancing and decentralization of government facilities
- More resilient and sustainable developments
- Embracing new technologies
- Enhancing our Health capacity and Facilities



Research and Development, Planning and Strategic foresight

- Strengthening of our research and development efforts to leapfrog our Economy
- Establish to develop Strategic Foresight to align our short and medium term Planning Goals
- Encourage Private and Government to invest more in R&D. Perhaps collaborate more with each other
- Change the mindset from catching up to Leapfrogging and adapt more blue ocean strategy



Embracing new technology to improve productivity, efficiency and Quality

- Embracing new technology that offers improvements in efficiency thereby increasing productivity
- Avoiding sunset technology that may prove to be limiting our vision of leapfrogging
- Improving productivity, efficiency and Quality is a hallmark of a Globally competitive industry
- The rapid change to adapt a new mindset becomes critical in achieving the above

OPPORTUNITIES AND NEEDS FOR THE DEVELOPMENT OF SMART INFRASTRUCTURES AND SMART CITIES



Human Resource



Designers , Planners and
Developers



Materials, Tools & Equipments,
Methodology and Operation



Human Resource

- Providing our valuable human resources more specific tools/equipment and other assertive technology
- New realities require new skill sets and competencies to adapt to new technology
- Protective and safety to our human resource is essential to sustain and reduce accidents/occupational hazards
- Developing specialized trades/craft will improve the overall quality, efficiency and productivity
- We all need to acknowledge the importance and contribution of our human resources to the success of any development



Designers , Planners and Developers

- Research and scanning to bring latest available design and solution to achieve smart cities
- Adapting Design and planning technology
- Adapting sustainable Design solution to include environmental impact and choice of green materials
- Utilizing other construction methodology in realizing projects
- Comprehensive pre design upto post construction operability and management

Materials, Tools & Equipment, Construction Methodology and Operation

- **Developing strategic Value Chain**
- **Developing more resilient and sustainable products**
- **Specific Tool development to improve quality and efficiency**
- **Adapting construction methodology that improve safety, reduce cost and increase efficiency**
- **Utilize project management technology to improve operations and decision making**



What is being done at the moment for building smart cities and bringing innovation to the sector?

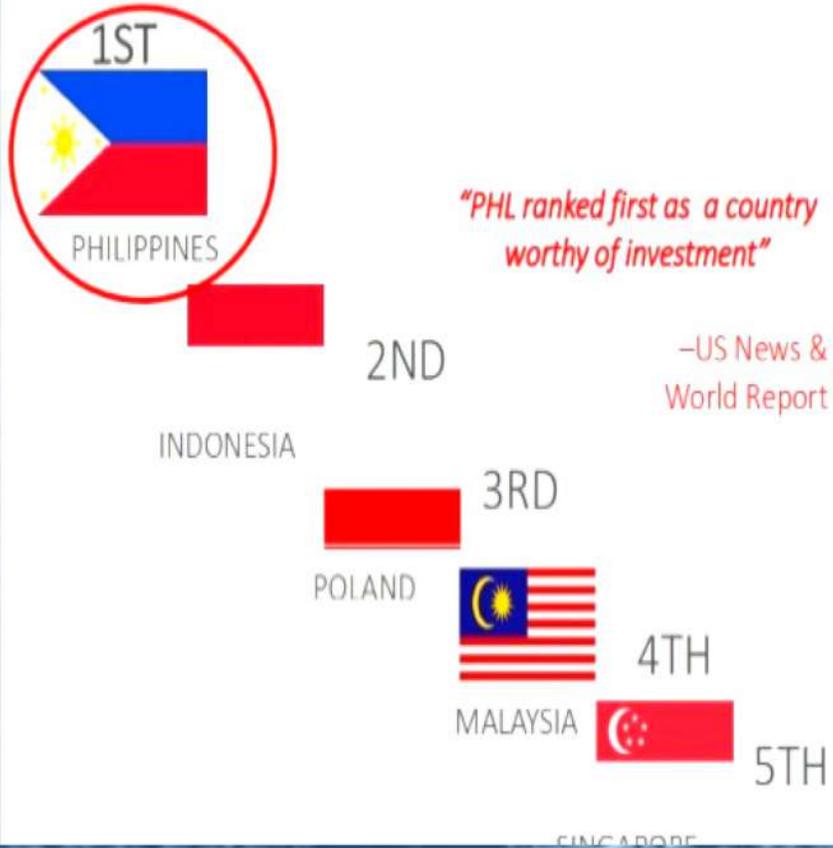
- **World's biggest smart city to rise in the Philippines - New Manila Bay City of Pearl.**
- **Ongoing construction on new smart green city in Philippines masterplanned by Broadway Malyan, a green disaster-resilient city- New Clark City.**
- **Philippines launches Digital Cities 2025 initiative to sustain the rapid growth of the Information Technology and Business Process Management (IT-BPM) sector and promote countryside development.**



WHAT IS BUILD BUILD BUILD PROJECT?

INFRASTRUCTURE INVESTMENTS IN THE BUILD BUILD BUILD PROGRAM

BEST COUNTRIES TO INVEST IN



PHL INVESTMENT PLEDGES

"Investment pledges in PH soared due to influx of infrastructure investments under the BUILD BUILD BUILD"



The "BBB" program consists of around 20,000 infrastructure projects nationwide, involving roads, highways, farm-to-market roads, airports, seaports, terminals, evacuation centres, lighthouses, hospitals, schools, government centres, and the like.

BUILD BUILD BUILD STATUS?



In more than four years since the “BBB” program was launched in 2017, it has already built roads, bridges, classrooms, and flood control facilities among others, that to a considerable extent, have improved the lives of many Filipinos. To note, the “BBB” program was able to complete around 121 airport projects – 114 are ongoing and 75 are for procurement; 369 commercial, social, and tourism seaports.

Current Exemplary Projects



Clark City

Manila Bay Rehabilitation



Mactan Airport



Current Opportunities for Foreign and Italian companies in the Philippines

Opportunities for Investors and Business

Infrastructure Development



378 Economic Zones and Investment Promotion Agencies

74 Manufacturing EcoZones
262 IT Parks and Centers
21 Agro-Industrial EcoZones
19 Tourism EcoZones
2 Medical Tourism Zones



Public Private Partnerships In-Infrastructure Development

NAIA Expressway
LRT Line 1 Cavite Extension
Daang Hari-SLEX Link Road
Southwest Integrated Transport System (ITS)
Cavite-Laguna Expressway
Bulacan Bulk Water Supply



Ongoing Infrastructure Projects

MRT Line 7
Metro Manila Skyway Stage 3
Projects under Procurement
New Bohol Airport Operations, Maintenance and Development
NLEX-SLEX Connector Road

Infrastructure and Construction Focus Group (ICFG)

European and Filipino companies have the opportunity to subscribe to the Infrastructure & Construction Focus Group. This organization provides the latest insights, industry news, exclusive content, trends and development for the Philippine Construction sector. With the help of its vast network and market entry tools ICFG is definitely the best partner in this sector for doing business in the Philippines. Visit www.infraph.com and subscribe.



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CONCLUSION



- There are opportunity for collaborative R&D to develop infrastructure and smart cities
- More efficient and multi-task equipment for construction
- Digital technology designers, Planners, construction operation /monitoring and post construction/management
- New sustainable materials ,Process and Methodology
- Logistics and value chain management
- Human resource training and skillset development
- Safety, protection and health protocols
- Specific tool development for improving quality, Efficiency and Productivity
- Project management technology

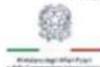
THANK YOU AND STAY SAFE EVERYONE

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