

ACTION PLAN

PHILIPPINE CONSTRUCTION INDUSTRY ROADMAP 2020-2030

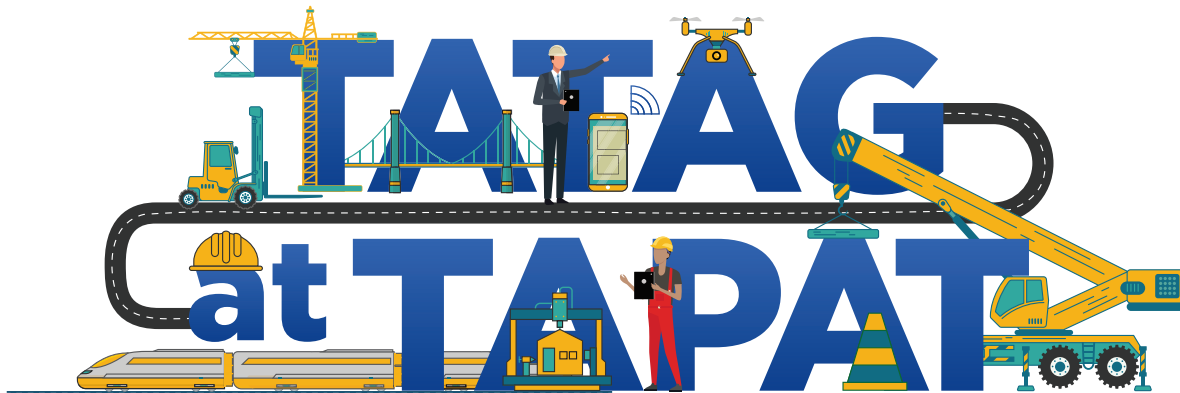






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Philippine Construction Industry Roadmap

The Philippine Construction Industry Roadmap enumerated the overall vision and the values of the construction industry that both public and private sectors have declared for the country.

The Roadmap: A Summary

It aspires a PHP 130 trillion worth of construction business that will be generated between 2020 to 2030 by a proactive government providing the strong foundations of infrastructure development and leveraged by a determined private sector, expanding and multiplying our collective physical investments to support accelerated, sustainable, and inclusive national development.

For this vision to be achieved, we identified the four pillars that will guide and support our actions in the next 10 years. These pillars were a product of the conduct of industry analysis, stakeholder consultations, and benchmarking with other countries.

All these are encapsulated in our tagline: TATAG at TAPAT, which declares our collective commitment towards the different meanings and manifestations of the word INTEGRITY as applied in all aspects of the construction industry.

The Action Plans

“Living Documents” to Support the Roadmap

The timeline of implementation of the Roadmap is 2020-2030.

In order to optimize efforts of various stakeholders towards the vision, the Roadmap was broken into actionable steps.

The 7+1 Action Plans, as we call it contain 7 goals for the construction industry stakeholders to work on, plus the most important goal of revitalizing and strengthening the Department of Trade and Industry - Construction Industry Authority of the Philippines (DTI-CIAP) into an organization that will be responsive to the needs of this dynamic industry. This is an acknowledgement of the significant role that the DTI-CIAP plays in leading and catalyzing the development and regulation of the industry by the appropriate government agencies and private institutions.

These Action Plans are meant to jumpstart simultaneous actions by the stakeholders. They do not in any way exclude any additional and parallel relevant activities and programs, but encourage more of these to be developed through constant dialogue. They are, therefore, “living documents” which will be jointly reviewed and revised every industry congress.

30 ACTION PLANS FOR

2020-2030

A. CIAP REVITALIZATION ACTION PLAN

- 1.** Activate the Steering Committee for the Roadmap (DTI-CIAP's Strategy Management)
- 2.** Create a "New CIAP" organized under a unified legal mandate, integrating related functions and organizations related to the construction industry
- 3.** Modernize the services of CIAP in compliance with the Ease of Doing Business Law, through various funding sources
- 4.** Create a private sector-led funding mechanism for industry development, as prescribed in the Roadmap, in coordination with rationalized responsibilities of a "New CIAP"

B.1. COMMUNICATIONS ACTION PLAN

- 5.** Promote the Roadmap consistent with "TATAG at TAPAT" and "BUILDING with INTEGRITY" through available media
- 6.** Produce materials for Information, Education and Communication (IEC) including the development of knowledge products

B.2. INFRASTRUCTURE MASTERPLAN DEVELOPMENT ADVOCACY PLAN

- 7.** Collaborate in the development of a long-term infrastructure plan for the country
- 8.** Draft and file the bill for a 30-Year Infrastructure Development Plan and provide support such as technical papers, policy notes and statistics.
- 9.** Assist in the drafting of rules and regulations or similar policy instruments that will ensure implementation of a long-term infrastructure masterplan

B.3. PROFESSIONAL, SKILLS, AND PRODUCTIVITY UPGRADING ACTION PLAN

- 10.** Promote competency-based and skills based certification, bridging programs and dual training, and professional licensing program (for construction professionals and managers, supervisors, workers, trade and entrepreneurs), supported by the Government-Industry-Academe (GIA) Partnership Action Plan, supported with one registry and ID system, and provided with productivity-enhancing tools and technologies
- 11.** Promote values formation as part of brand development at the firm/management and individual levels through inclusion of ethics, quality, safety, environment, and health in the curriculum and continuing certification and education programs

- 12.** Institutionalize safety nets for the benefit of the construction workers and professionals through collaboration with the labor sector, the insurance industry, and other relevant agencies in exploring and creating new facilities and products.

B.4. DIGITIZATION AND MODERNIZATION ACTION PLAN

- 13.** Create a Technical Council to propose the national standards for digitization and digitalization (e.g. BIM, Big Data, Automation, Internet of Things, AR/VR)
- 14.** Institutionalize the use of digital technology for regulatory, permitting, and infrastructure life cycle (planning, design, construction, and facility management)
- 15.** Provide and promote incentives for digital transformation (e.g. BIM, Research and Development, facilities, equipment, and the creation of a Philippine BIM Center)

B.5. POLICY REFORM ADVOCACY PLAN

- 16.** Rationalize policies on quarry materials on sourcing, extraction and transport (including taxation)
- 17.** Support improvements of Right-of-Way Acquisition Policies
- 18.** Advocate for the enactment of a new Public-Private Partnership (PPP) Law, and support policy development for standardized PPPs at the local level
- 19.** Support improvement of procurement policies (e.g. policy on electronic bidding beginning with procurement of simple government construction projects, up to more sophisticated design-build-maintain contracts, increase points for innovative technologies in bidding)
- 20.** Pursue trade liberalization policies with reciprocity which includes support to the amendment of Public Service Act.
- 21.** Support biodiversity sensitive strategic environment assessment.
- 22.** Advocate for a law on Security of Payments
- 23.** Enhance Standards and Compliance on Sustainability and Resiliency especially on public infrastructure projects through strict implementation of existing laws, passage of the Philippine Buildings Act, promotion of enterprise-driven efforts, provision of Sustainability incentive programs, and inclusion of PLI for Design-Build projects

B.6. GOVERNMENT-INDUSTRY-ACADEME PARTNERSHIP ACTION PLAN

- 24.** Develop facilities for research and development and training, managed by the construction sector, supported by government and academe
- 25.** Support the continuous development of Construction and Entrepreneurship Curricula and Programs through GIA Tripartite Partnership Agreement, modeling with successful pilots on a localized basis
- 26.** Conduct annual national and regional summits of construction groups, government agencies and academe to strengthen network and foster collaboration (i.e. in the areas of ethics, values formation in curricula, and filling in the gap for NC 3-5 in Dual Training System, and competency-based certification programs).

B.7. CONSTRUCTION SERVICES EXPORTS AND OUTSOURCING PLAN

- 27.** Support construction firms and A&E firms to strategically plan, build, and scale capabilities for providing EPC services.
- 28.** Encourage the use of and training on international contracting standards and regulations (e.g. FIDIC, NEC including contract preparation, negotiation, management and administration)
- 29.** Institutionalize a system that will study the scope for expansion of construction and related services in outsourcing, search for foreign market leads on project opportunities, and undertake systematic marketing activities
- 30.** Provide support to construction companies and developers, including professionals and workers exporting their services through fiscal and non-fiscal incentives, and access to low-cost financing and guarantees.

A.

CIAP REVITALIZATION ACTION PLAN

Tatag at Tapat. We build with integrity. We are a construction industry that upholds transparency, honesty, and excellence. The Roadmap is our blueprint for the construction industry's evolution into the future, confident that the ongoing synergy between the government and private sectors will foster a collaborative environment necessary to support the growth momentum of the construction industry.

1. Activate the Steering Committee for the Roadmap (DTI-CIAP's Strategy Management)
2. Create a "New CIAP" organized under a unified legal mandate, integrating related functions and organizations related to the construction industry
3. Modernize the services of CIAP in compliance with Ease of Doing Business Law, through various funding sources
4. Create private sector-led funding mechanism for industry development, as prescribed by the Roadmap, in coordination with rationalized responsibilities of a "New CIAP"

Contexts

- The DTI-CIAP is an organization composed of five (5) implementing boards created with various developmental and regulatory mandates relevant to their specific time.
- The industry is desirous of a central government authority that is responsive to the opportunities and challenges of the Construction Industry supportive of a sustained, accelerated, and inclusive growth.
- However, the new legislation may take time, and immediate support for the activities of the Roadmap needs to be established. The Roadmap Steering Committee shall be formed to complement and supplement the regular activities of the CIAP family, and ensure that programs, activities, and projects are cohesive and contribute to the goals of the Roadmap until the new CIAP is activated and operationalized.

VISION

A future-oriented, biodiversity-sensitive, and globally competitive construction industry capable of partnering with the world in building nations, in building the Philippines, and in building the Filipino family,

Accelerated and sustained increase in business value of the construction industry

EXTERNAL SHAREHOLDERS

Increased generation of highly dignified jobs

Highly skilled construction workforce increased

CORE PROCESSES

Build sustainable and resilient infrastructure supporting economic development and quality of life of families

Enforce Ease of Doing Business Law across construction business life cycle

Craft and legislate a 30-year infrastructure masterplan

Reengineer skills and promote the dignity of the construction labor force

Increase globally competitive Philippine players with expanded scope, scale, and specialization of services

PEOPLE & ORGANIZATION

Promote interconnected integrity between public and private institutions towards inclusive development

Strengthen leadership role of CIAP as the central authority for the development of the construction industry

Strengthen independent monitoring, evaluation, and police powers

RESOURCES

Provide budgetary support to Philippine Construction Industry Roadmap implementation, monitoring and evaluation

Grow and manage resources from external sources

MISSION

Transform the nation with builders who build with integrity

VALUES

TATAG at TAPAT | Building with Integrity

A. CIAP REVITALIZATION ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#1. Activate the Steering Committee for the Roadmap (DTI-CIAP’s Strategy Management)			
Issuance of necessary documents to activate the steering committee	CIAP Board	DTI	Q1-2020
Resource planning	CIAP Board/ OUSec (Planning & Budget Officer) / CIAP EO	DTI	Q2-2020
#2. Create a “New CIAP” organized under a unified legal mandate, integrating related functions and organizations related to the construction industry			
Draft and file bill on the creation of “New CIAP”	Roadmap TWG/ Steering Committee	Congress	Q1-2020
Assist in the drafting of implementing rules and regulations (IRRs)			2020-2022
#3. Modernize the services of CIAP in compliance with the Ease of Doing Business Law, through various funding sources			
Streamline regulatory processes to comply with the Ease of Doing Business Law	PCAB, PDCB	DTI, ARTA, DILG, DICT	2020-2022
No contact policy to be applied to big ticket national government projects (in the short term) and local government infrastructure projects (in the long run)			
#4. Create a private sector-led funding mechanism for industry development, as prescribed by the Roadmap, in coordination with rationalized responsibilities of a “New CIAP”			
	PDCB, POGB CMDF	Private Sector, Donor Agencies	2020-2022

B.1

COMMUNICATIONS PLANS

1. This Roadmap presents the strategic convergence areas for shared commitments of all stakeholders of the Philippine Construction Industry in terms of policy reform, infrastructure master planning and delivery, industry development and institutional strengthening programs, echoing the core value we all committed to uphold: Integrity, which is the soul of our battlecry “*Tatag at Tapat*”.
2. **INTEGRITY** evokes the kind of strength that the industry aims for in the next decade. It is a strength that is manifested outwardly, erected in the stability of structures, institutions, systems, and infrastructure; And a strength that is primarily internal in nature, erecting the desire of the stakeholders to uphold transparency, honesty, and a strong adherence to standards of excellence.

TATAG at TAPAT =

“Building with integrity”

This theme highlights the stability and renewed strength that the industry aims for. It is rooted in the integrity in all construction activities from the regulatory and procurement process down to the workmanship, design specifications, and functional quality of the structures to be built.



TATAG AT TAPAT BUILDING WITH INTEGRITY

We need integrity to become the global partner we aspire to be.

INTEGRITY OF INSTITUTIONS

We need to strengthen Government and Private institutions to allow inclusive development

- Enhance powers and CIAP
- Independent M&E
- Policy reforms
- Enforce laws
- Legislate infrastructure Master Plan

CULTURE OF INTEGRITY

We need to establish a culture of integrity, professionalism, and innovation as we increase productivity through technology and methodology.

- Reduction of project delivery time
- Achievement of sustainable development
- Increased productivity rate

INTEGRITY OF STRUCTURES AND HARMONIOUS SPACES

We need to build sustainable and harmonious structures and spaces

- Reduced CO₂ emission
- Reduced worker injuries
- Increase in green certified buildings

INTEGRITY OF THE FILIPINO INDUSTRY PLAYER

We need to expand our scope, scale, and specialization to be globally competitive.

- Increase in exports
- Increase in POCB registered contractors
- Global mobility of construction industry players

B.1 COMMUNICATION PLANS

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#5. Promote the Roadmap consistent with “TATAG at TAPAT” and “BUILDING with INTEGRITY” through available media			
Produce and monitor news articles or communication materials on new developments, events, activities of CIAP; the progress on the Roadmap Clusters (pages 44-52 of the Roadmap); outputs / outcomes related to the Sustainable Development Goals & AmBisyon Natin 2040	CIAP Implementing Boards	DTI-PRU / DTI-KMIS	Q1-2020
Collate these news articles and references, including academic papers, relating to the industry in a database.	CIAP PPCMD		Q1-2020
Produce monthly newsletter and regularly update social media accounts	CIAP Comms Team/ Roadmap Steering Committee		Q1-2020
Create directory of construction industry players (materials and service suppliers), practitioners, partners, media partners, government agencies.	PDCB, POCB, PCAB	Private Sector, Media, DTI	Q1-2020
Maintain database of construction industry players (materials and service suppliers), partners, government agencies	PCAB, PDCB	Private Sector, Media, DTI	Q1-2020

B.1 COMMUNICATION PLANS

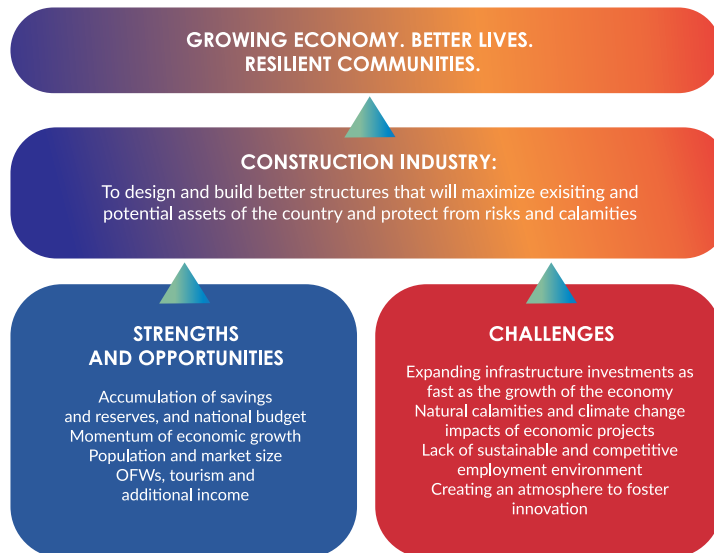
ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
Promote the developments in the industry through formulation of a website	CIAP PPCMD	Private Sector, Media, DTI	Q1-2020
Investor Relations Forum –to showcase the present technologies and the future in investments in the construction industry.	PDCB, POCB, CMDF	Industry Stakeholders, DTI-FTSC, BOI, BSP-IRO, PEECC	Q2- Yearly
Best Practices Fora – to share its present strategies and projects in applying the principles of the Roadmap	CIAP Implementing Board Members	Industry Stakeholders	Q3- Yearly
Policy Dialogue with IFIs –to fill the gaps of IFI’s policies and the construction industry’s practices can be a good exercise to uphold the principles of the Roadmap.	CIAP Implementing Board Members	Industry Stakeholders	Q3- Yearly
#6. Produce materials for Information, Education, and Communication including the development of knowledge products			
	CIAP Implementing Boards /CIAP Comms Team	DTI KMIS	2020

B.2

INFRASTRUCTURE MASTER PLAN DEVELOPMENT ADVOCACY PLAN

We have set our sights to a future that is not so distant, and not at all impossible. But like any built structure, our resolve and commitment to each other must stand on strong foundations and should be for the long-term.

THE PHILIPPINE ECONOMY AND THE CONSTRUCTION INDUSTRY



1. The AmBisyon Natin 2040 has set the vision of the government towards a predominantly middle class society with growing economy, better quality of lives, and resilient community.
2. There is, however, a lack of long term (e.g. 30-Year) infrastructure master plan that will support this 2040 vision. There is only a 6-year, administration-based infrastructure planning and implementation. Moreover, government construction priorities, plans and budgets are determined separately by each implementing agency with different timelines, subject to policy changes under each administration.
3. Therefore, there is a need for accelerated and continuous infrastructure spending to provide direction for private sector development efforts in catalyzing business and economic activities nationwide.

B.2 INFRASTRUCTURE MASTER PLAN DEVELOPMENT ADVOCACY PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#7. Collaborate in the development of a long-term infrastructure plan for the country			2020-2029
Create a directory of construction industry players (materials and service suppliers) and practioners. Call all agencies with infrastructure requirements to review mid-term plans, and to prepare and submit a long-term insfrastructure plan with corresponding budgeting strategy, media partners, and government agencies.	NEDA	Roadmap Steering Committee, Industry stakeholders, DPWH, DOTR, GPPB, NGAs	2020-2023
#8. Draft and file the bill for a 30-Year Long-term Infrastructure Development Plan and provide necessary support (such as technical papers, policy notes, and statistics)			
Drafting of the bill / policy	Roadmap Steering Committe	Industry Stakeholders, Congress	2019-Completed
Preparation and presentation to and endorsement by the NEDA INFRACOM		Congress, NEDA, DPWH, DOTR, other NGAs, Industry Stakeholders	
Preparation of the briefing papers and presentations			2020

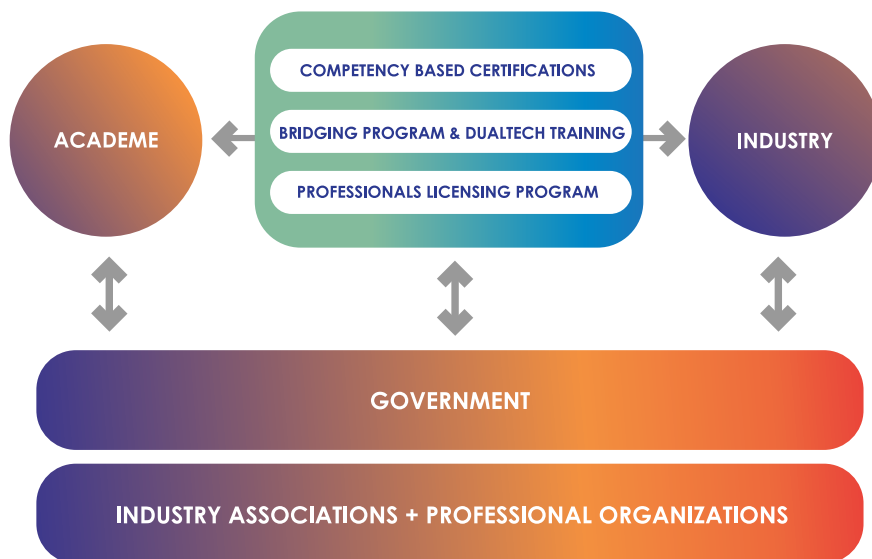
B.2 INFRASTRUCTURE MASTER PLAN DEVELOPMENT ADVOCACY PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
Brief with potential sponsors and champions in the House of Congress and Senate	Roadmap Steering Committee	Congress, NEDA, DPWH, DOTR, other NGAs, Industry Stakeholders	2020
Assistance to relevant House and Senate Committees (e.g. Public Works, Transportation) through Technical Papers, Discussions, and Representation in Technical Working Groups			
Continuous meetings with the Implementing Agencies regarding Core Infrastructure Projects			
Coalition-building for the bill			
Pursue/ collate amendment of the bill based on two versions	CIAP Board	Congress	2021
Briefing for Presidential Legal Liaison Officer		NEDA, NGAs	
Endorsement to the President		Congress	
#9. Assist in the drafting of rules and regulations or similar policy instruments that will ensure implementation of long-term infrastructure masterplan			
	CIAP Steering Committee; Technical consultants	DPWH, DOTR, other NGAs	2021-2022

B.3

PROFESSIONAL, SKILLS, AND PRODUCTIVITY UPGRADING ACTION PLAN

Raising productivity is the principal factor underlying the long-term growth strategy of the government and the Construction industry. AmBisyon Natin 2040, the medium term development plan crafted by the national government, specifically calls for investment in human capital so that Filipinos are equipped to learn and adapt to new technology and the changing profile of society.



1. With a different set of professionals and skills needed by the construction industry leading to 2030 and beyond, who are equipped with necessary skills competence that incorporates technology and digitization, there is an inclination towards competency-based certification over HEI credentials. Only small part of the construction workers (around 10.8%) of the four million construction workforce comprising of professionals, and there is a need to bridge the gap between what the industry needs, today and in the future, and what the academe produces, with government providing an agile environment to enable this.
2. Under the Roadmap actions plans for Professional and Skills Upgrading Program to be supported by the Government-Industry-Academe Partnership Action Plan, a framework that would work towards the following:
 - **Competency-based Certifications**
 - **Bridging Program and Dualtech Training**
 - **Professional Licensing Program**

B.3. PROFESSIONAL, SKILLS, AND PRODUCTIVITY UPGRADING ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#10. Promote competency-based and skills-based certification, bridging programs and dual training, and professional licensing program (for construction professionals and managers, supervisors, workers, trade and entrepreneurs), supported by Government-Industry-Academe Partnership Action Plan and supported with one registry and ID system, provided with productivity-enhancing tools and technologies.			
Strengthen the use of Construction Industry One Registry System (CIORS) in partnership with TESDA and private sector	CMDF, PDCB	TESDA, Private Sector, DOLE-BLE	2020-2022
Tap Philjobnet and TESDA 911 as a local registry of skilled construction workers for job matching in the local and national construction projects.	CMDF, PDCB	TESDA, DOLE-BWC, DOLE-BLE	2020-2022
Support the industry-TESDA dialogue on the regular matching of training available with the industry needs	CMDF, PDCB	DOLE, TESDA	2020-2022
Mapping of skills needed based on the Master Plan on Infrastructure Development	CMDF, PDCB	TESDA, DOLE-BLE	2020-2022
Modification of curriculum to include project immersion of at least one semester and Occupational Safety And Health (OSH) topics	CHED	CMDF, TESDA, DEPED	2020-2022
Licensure examinations to include practical questions related to project development and management	PRC	CMDF, Industry Stakeholders, TESDA, DOLE-BWC, DOLE-BLE	2020-2022

B.3. PROFESSIONAL, SKILLS, AND PRODUCTIVITY UPGRADING ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
Standardization of knowledge and requirements: DPWH's requirement on the Project Engineers (PE) for civil, electrical, mechanical and others; Materials Engineer	DPWH	CMDF, PDCB, Industry Stakeholders	2020-2022
Establishing Career Progression Approach in the CPD Units in Expanded Tertiary Education Equivalency Accreditation Program for Masteral and Doctoral Programs (in view of developing specialists) including the expansion programs to include procurement, contract development and management and the inclusion of regulatory set –up laws	CMDF, PDCB, PRC	DOLE, CHED, Industry Stakeholders	2020-2022
Increase ACPE registered engineers	CMDF, POCB, PRC	DOLE, Industry Stakeholders	2020-2022
Promote industry-wide certification on the qualified construction workers	TESDA	CMDF, PDCB, DOLE, Industry Stakeholders	2020-2022
Expansion of the Competency Assessment and Certification for Workers (CACW) on assessment and certification of workers to cover future skills requirements	TESDA	DOLE, CMDF, PDCB, Industry Stakeholders	2020-2022
Train Assessors based on the skill requirement of the industry	CMDF, TESDA	DOLE, Industry Stakeholders	2020-2022
Leveling of Philippine Qualifications Framework and ASEAN Qualification Framework and Registry	CMDF	PQF Council, Industry Stakeholders	2023-2025

B.3. PROFESSIONAL, SKILLS, AND PRODUCTIVITY UPGRADING ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#11. Promote values formation as part of brand development at the firm/management and individual levels through the inclusion of ethics, quality, safety, environment, and health in the curriculum and continuing certification and education programs.			
Inclusion of ethics in the curriculum and CPDs consistent with the Blooms Taxonomy (Knowledge, Skills, Values)	CMDF, CHED, DEPED, PRC	DOLE, Industry Stakeholders	2020-2022
Include values formation and OSH in the Authorized Managing Officers (AMO) Seminars	PCAB, CMDF	DOLE-OSHC, DOLE-BWC, DOLE-ECC, DOLE-SPECS, Industry Stakeholder	2020-2022
Promote firm-level initiatives (e.g., toolbox training)	CMDF, PDCB	Private Sector	2020-2022

B.3. PROFESSIONAL, SKILLS, AND PRODUCTIVITY UPGRADING ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#12. Institutionalize safety nets for the benefit of construction workers and professionals through collaboration with the labor sector, the insurance industry, and other relevant agencies in creating new facilities and products			
Consult with the labor sector for the promotion of the welfare of workers and the development of safety nets program	Roadmap Steering Committee	DOLE-BWC, Industry Stakeholders	2020-2022
Provide affordable housing loan packages for workers and professionals	Roadmap Steering Committee	SSS, Industry Stakeholders	2020-2022
Discuss with relevant agency/ies (e.g., SSS) the creation of new facility for such safety nets	Roadmap Steering Committee, CIAP Board	SSS, Industry Stakeholders	2020-2022
Collaborate with the insurance industry in designing products fit on the peculiarities of the construction industry and development projects	Roadmap Steering Committee, CMDF	IC, Industry Stakeholders	2022-2023
Consider the requirement of ISO certification on Quality Environment Safety Health; determine which category and size of projects we will require such ISO certification	PDCB	DOLE, Industry Stakeholders, GPPB	2022-2023

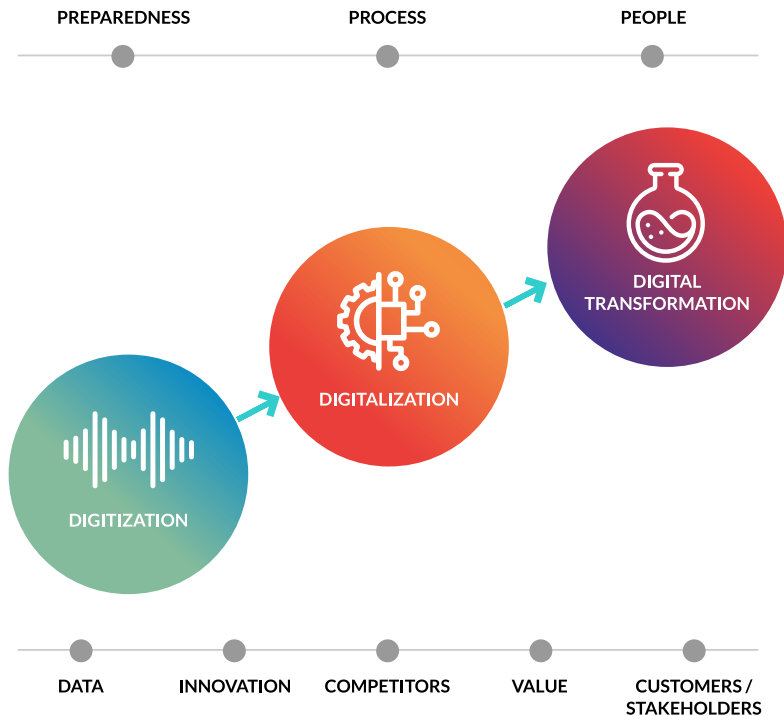
B.3. PROFESSIONAL, SKILLS, AND PRODUCTIVITY UPGRADING ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
Require contractors to upgrade frequency and quality of safety training	PDCB, PCAB	DOLE, Industry Stakeholders, GPPB	2020-2022
Facilitate the provision of Employees Compensation Rehabilitation Program for work-related construction contingencies thru info exchange with the involved stakeholders regarding construction-related accidents.	DOLE-OSHC, DOLE-BWC, DOLE-EEC, Roadmap Steering Committee	CMDF	2020-2022
Revise the COA ceiling of total project cost (0.1%) for safety expenses to take into account the inherent risk involved in the project	PDCB	COA, GPPB	2020-2022
Study the possibility of requiring engineers who will practice their profession to secure PII / PLI	PDCB	PRC, GPPB, COA	2020-2022
Communicate with the insurance firm to establish the minimum rate	PDCB	Insurance Commission, GPPB, COA	2020-2022

B.4

DIGITIZATION AND MODERNIZATION ACTION PLAN

With Roadmap implementation, the construction industry will develop new improved sets of skills and professional competencies that incorporate modern technology, innovation, and digitization to greatly improve worker productivity.



1. As Trade Secretary Ramon M. Lopez was quoted, the Roadmap is a “proof of the government’s holistic commitment in improving the quality of construction services consistent with the principles of sustainability, increasing the number of globally competitive Filipino construction-industry players, and equipping the whole project cycle with efficient and modern technologies.”
2. Digital technologies are gradually entering the construction industry, changing how infrastructure, real estate and other built assets are designed, constructed, operated, and maintained. Those technologies include Building Information Modeling (BIM), prefabrication, wireless sensors, automated and robotic equipment, and 3D-printing.

B.4 DIGITIZATION AND MODERNIZATION ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#13. Create a Technical Council to propose national standards for digitization and digitalization (e.g., BIM, Big Data, Automation, Internet of Things, AR/VR)			
Formulation of standards for digitization and digitalization	CIAP Implementing Boards	DICT, DPWH, DOTR	2020-2022
Provide data storage infrastructure (through DICT, which can be contracted to private sector as long as the data warehouse is in the Philippines)	CIAP EO	DICT	2020-2022
Trainings need to be available (enterprise-based approach, through training vouchers for companies)	TESDA, CMDF	Industry Stakeholders	2020-2022
BIM technology and processes to be included in the curriculum and training modules	CMDF, TESDA, PDCB	CHED, Industry Stakeholders	2020-2022
#14. Institutionalize the use of digital technology for regulatory, permitting, and infrastructure life cycle (planning, design, construction, and facility management)			
Draft Policy (through an executive issuance or legislation) citing SONA 2019 on use of technology for government transactions	CIAP Board	DILG, DICT, NGAs	2020-2022

B.4 DIGITIZATION AND MODERNIZATION ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
Regular dialogues with DICT, DOST and academe	CIAP Implementing Boards	DILG, DICT, NGAs	2020-2022
Related policy by DICT and others on: 1) public key infrastructure; 2) data storage/ warehousing; 3) one-stop shop for building permits	DICT, PDCB	DPWH, DILG, Industry Stakeholders	2020-2022
Officially adopt digital technology such as BIM, drones, robotics, remote monitoring, smart centers, and modern methodologies for large public infrastructure projects	PDCB	DICT, DOST, NGAs, GPPB, COA, Industry Stakeholders	2020-2022
#15. Provide and promote incentives for digital transformation (e.g. BIM, Research and Development, facilities, equipment, and the creation of a Philippine BIM Center)			
Dialogue with BOI on tax incentives on the adoption of technology	Roadmap Steering Committee	BOI, Industry Stakeholders	2020-2022
Expand the shared service facility to the construction industry (BIM technology) that can also function as training centers	CMDF	DTI, DICT, DOST, Industry Stakeholders	2020-2022

B.5

POLICY REFORM ADVOCACY PLAN

“Now that our economy is experiencing a high momentum of growth, the sustainability and integrity of our infrastructure and structures are of national urgency and importance in the menu of legislative agenda.”

- Senate President Vicente C. Sotto III

Comprehensive approach in supporting the development of the Construction industry led by DTI-CIAP.

As a strategic framework of the future of the Philippine construction industry, aligned with the Philippine Development Plan and the United Nations' Sustainable Development Goals, it highlights what the industry envisions itself to become by 2030, i.e., as a global partner in building nations, through the attainment of the four integrated pillars:

Productivity

Equipped with efficient, modern, and digital technologies.

Sustainability

Improve the quality of construction consistent with the principles of sustainability.

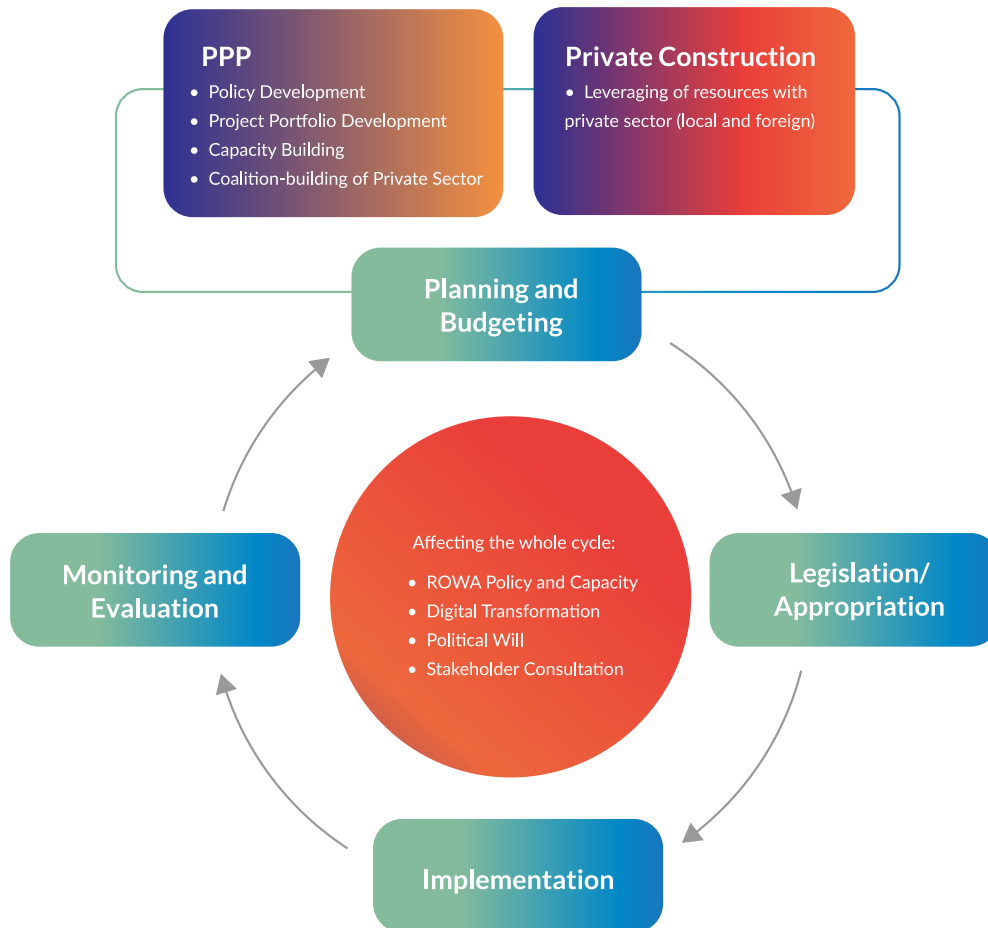
Globalization

Globally competitive players with increased scope, scale, and specialization.

Institutions

Strong government leadership and regulations supported by a highly interconnected network of private institutions working towards inclusive development.

Infrastructure Delivery in the Context of the National Budget



B.5 POLICY REFORM ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#16. Rationalize policies on quarry materials on sourcing, extraction and transport (including taxation)			
Crafting of implementing rules regarding quarry materials on standardization of policies	PDCB	DPWH, DILG, DENR, DTI-BPS	2020-2022
#17. Support improvements of Right-of-Way Acquisition Policies			
Amendment/ improvement of legislation	DPWH	Roadmap Steering Committee, Industry Stakeholders	2020-2022
Amendment/ improvement of IRR			
Improvement of DPWH right of way manual			
Development of Right-of-Way Acquisition manual for infrastructure procuring agencies	NGAs		

B.5 POLICY REFORM ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#18. Advocate for the enactment of a new Public-Private Partnership (PPP) Law, and support policy development for standardized PPPs at the local level			
Advocate for the new Public-Private Partnership law	Roadmap Steering Committee	PPP Center	2020-2022
Support the development of local government Public-Private Partnership code			
#19. Support improvement of procurement policies (eg. Policy on electronic bidding beginning with procurement of simple government construction projects, up to more sophisticated design-build-maintain contracts)			
Amendments to the procurement law	PDCB	GPPB	2020-2022
Support development of electronic bidding			
Dedicated facility for the procurement of infrastructure projects		GPPB, IFIs, MLOs, DTI-EODB	
#20. Pursue trade liberalization policies with reciprocity which includes support to the amendment of Public Service Act			
Release restriction on foreign ownership of utility generator / constructor in select industries such as transport, etc.	PDCB, POGB	Industry Stakeholders	2020-2022

B.5 POLICY REFORM ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#21. Biodiversity sensitive strategic environment assessment			
Advocate for research and development and use of alternative sustainable materials	PDCB	DENR, DPWH, Industry Stakeholders	2020-2022
Advocate for comprehensive and integrated strategic environmental assessment of infrastructure programs and projects that is sensitive to biodiversity	PDCB	DENR, Climate Change Commission	2023-2025
Sustainability Incentive Program for reduction of greenhouse gas emissions in built environment, and for construction of disaster-resilient infrastructure	PDCB	DENR, BOI, Industry Stakeholders	2023-2025
#22. Advocate for a law on Security of Payments			
Benchmarking and review of related policies implemented across various countries	Roadmap Steering Committee	DBM, GPPB, COA, DFA, DTI-FTSC	2020-2022
Dialogue with legislators to gather support for the draft bill	CIAP Board	DBM, GPPB, COA	2020-2022
Drafting of the bill	CIAP Board	DBM, GPPB, COA	2023-2025

B.5 POLICY REFORM ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#23. Enhance Standards and Compliance on Sustainability and Resiliency especially on public infrastructure projects through strict implementation of existing laws, the passage of the Philippine Buildings Act, promotion of enterprise-driven efforts, provision of Sustainability Incentive Programs, and inclusion of Professional Liability Insurance (PLI) for Design-Build projects			
Review of existing laws and policies related to environment and sustainability (e.g. Clean Air, Water, Solid Waste Management, Hazardous etc)	PDCB	DPWH, DENR	2020-2022
Promote enterprise-driven effort to increase compliance	PDCB	DPWH, DENR, Industry Stakeholders	2020-2022
Include in the government project estimates (i.e. Approved Budget Cover) the budget for: a) environment / sustainability costs, b) security, c) peace and order, d) Professional Liability Insurance (especially for the Design and Build Projects), and e) digitization (BIM)	PDCB	NGAs, DENR, DBM, GPPB, COA	2020-2022
Create an avenue for NGAs and GPPB-private sector dialogue on increasing compliance	PDCB	DPWH, DENR, DBM, GPPB, COA	2020-2022
Require the inclusion of the PLI and Comprehensive General Liability Insurance for Design-Build Projects	PDCB	IC, GPPB, COA	2020-2022
Restructuring of the PCAB Points system (to include compliance on Quality, Environment, Safety and Health)	PCAB, PDCB	DENR, DOLE	2020-2022
Support of the implementation of the law set as guidelines on Quality, Environment, Safety, and Health (QESH) especially for large infrastructure projects	DENR, PDCB	DPWH, GPPB, COA	2020-2022
Institutionalize uniform standards for CO ₂ measurement, benchmarking, and reduction approaches	DENR, PDCB, DTI-BPS	DPWH, GPPB, COA	2026-2029

B.6

GOVERNMENT-INDUSTRY-ACADEME PARTNERSHIP ACTION PLAN

The potential role of construction in raising average incomes at the regional level is based on the strong positive correlation between the share of construction to regional GDP and regional GDP per capita. The wide geographical reach of its business network of suppliers and input service providers provides a suitable engine for growth at the national and local levels of development. Thus, there is an urgent need for greater collaboration between government and private sectors to adopt modernization and technological mega-trends to boost the productivity of all construction-related jobs and ensure that wage rates follow accordingly.

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#24. Develop facilities across all regions for research and development and training, managed by the construction sector, supported by government and academe			
	CDMF, PDCB, PO CB	TESDA, DOST, DTI-ROG, Industry Stakeholders	2020-2025

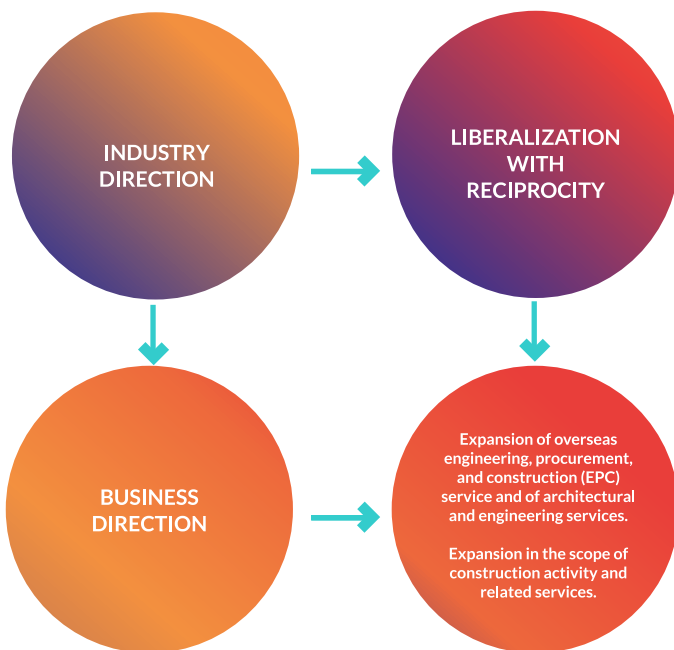
B.6 GOVERNMENT-INDUSTRY-ACADEME PARTNERSHIP ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#25. Support Construction and Entrepreneurship Curriculum through GIA Tripartite Partnership Agreement, modeling with successful pilots on a localized basis			
Formulation of GIA Tripartite Agreement (state universities, industry chapters and government)	PDCB, CMDF, TESDA, DTI-BSMED, DTI-PTTC	Industry Stakeholders, DOLE, CHED, DEPED, PRC	2020-2022
Artisan/ Skills competition sponsored by local chapters of the Industry to foster productivity			2020-2022
Pilot test of Construction and Entrepreneurship Curriculum thru GIA Partnership			2023-2025
#26. Conduct annual national and regional summits of construction groups, government agencies, and academe to strengthen network and foster collaboration (i.e., in the areas of Ethics and Values Formation in Curriculums and Filling in the gap for National Certificate (NC) 3-5 in Dual Training System, and competency-based certification programs).			
Annual convention of industry stakeholders, relevant government agencies, and the academe	CIAP EO	DOLE, CHED, Industry Stakeholders	2020-2022
Fill in the gap for NC 3-5 in Dual Training System thru forming of a TWG to develop standard qualification criteria for each level	PDCB, CMDF, DTI-BPS, TESDA	PQF Council	2020-2022

B.7

CONSTRUCTION SERVICES EXPORTS AND OUTSOURCING PLAN

“We can fulfill our inevitable role as a GLOBAL PARTNER IN BUILDING NATIONS, becoming the vitality that the world economy needs.”



- In a world that is changing faster than ever before, the role of innovation in construction development that leverages on the strengths of the Filipino human capital, is very important. Having set our sights to a future that is not so distant, and not at all impossible, our resolve and commitment to each other must be for long-term and stand on strong foundations, and selfless proactivity of all stakeholders are key.
- The world is still increasing its demand for construction
- Our neighbors are advanced in technology and are ready to take up the construction challenge but they are running out of workers, and existing workers and services are getting expensive
- The Philippines, on the other hand, has talented and adaptable workers however, a huge part of local contractors works are still outdated.

B.7 EXPORT SERVICES AND OUTSOURCING ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#27. Support construction firms and A&E firms to strategically plan and build capabilities for providing Engineering Procurement Construction (EPC) services.			
Media statement on future strategic plans of PH construction firms to expand its EPC services: call of DTI/CIAP and PCA to its members.	POCB, CIAP Communications Team	DFA, PCA, DTI-FTSC	2020-2022
Information dissemination on what EPC is all about based on the experiences of foreign construction firms in their home country	POCB, PCA	DTI-FTSC, PCA, DFA, Foreign Embassies	2020-2022
PCA to sponsor seminar hosting experts invited by POCB on what it is to become an EPC firm	POCB, PCA	DTI-FTSC, PCA, DFA, Foreign Embassies	2020-2022
Identify challenges (e.g. regulations, market barriers and restrictive visa provisions) expected to confront Philippine construction firms. Leverage on the embassies and business councils situated in the Philippines.	POCB	Foreign Embassies, Local and Foreign Business Chambers, DTI-BITR, NEDA, DTI- FTSC, DFA	2023-2025
#28. Encourage the use of and training on international contracting standards and regulations (e.g., FIDIC, NEC including contract preparation, negotiation, management, and administration)			
	POCB	Industry Stakeholders, ADB, MLOs, IFIs	2020-2022

B.7 EXPORT SERVICES AND OUTSOURCING ACTION PLAN

ACTION PLAN and the Related Tasks	Responsible Units	Partners and Allies	Timeline
#29. Institutionalize a system within POCB that will study the scope for expansion of construction and related services in outsourcing, search for foreign market leads on project opportunities, and undertake systematic marketing activities			
Study the scope for expansion of construction and related services in outsourcing	POCB	DFA, DTI–FTSC, Foreign Embassies, Industry Stakeholders	2020-2022
Undertake systematic marketing activities abroad for local construction firms			2020-2022
Institutionalize search for foreign market leads on project opportunities especially in key markets			2020-2025
#30. Provide support to construction companies and professionals and workers exporting their services through fiscal and non-fiscal incentives, and access to low-cost financing and guarantees			
Provide access to low-cost financing and private/public guarantees for overseas construction projects	POCB	DOF, PhilGuarantee, MLOs, DFA, DTI-FTSC	2020-2025
Reconfigure/ revive fiscal/ non-fiscal incentives for construction services exporter firms (POCB Registered Companies)		BOI, DOF, EDC	2020-2025
Support POCB-accredited construction firms in terms of deploying resources overseas.		DOLE, POEA	2026-2029

Acknowledgement

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Philippine Construction Industry Roadmap 2020-2030

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Philippine Construction Industry Roadmap 2020-2030

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Domingo, Maria Felissa	Philippine Institute of Interior Designers	Balote, Jerome Christopher	Sta. Clara International Corporation
Cola, Roberto	Philippine Iron and Steel Institute	De Jesus, Shara	Sta. Clara International Corporation
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Lim, Crisanto H.	Philippine Society of Plumbing Engineers	Tolentino, Vincent	Sta. Clara International Corporation
Magos, Jason	Philippine Society of Plumbing Engineers	Magsajo, Ronald Jr. C.	SteelAsia Manufacturing Corporation
Landicho, Bernard	Philippine Society of Ventilating, Airconditioning And Refrigerating Engineers	Villanueva, Rainier	Subdivision and Housing Developers Association
		Sabidong, Edgar	Subdivision and Housing Developers Association
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Alcantara, Lyndon John	Research, Education, Institutional Development Foundation	Valdepeñas, Rosalinda P.	Technological Institute of the Philippines
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Aquino, Thomas G.	Research, Education, Institutional Development Foundation	Tablante, Ronald	ThermaPrime Drilling Corporation
Bae, John Brylle	Research, Education, Institutional Development Foundation	Siosoyco, Ronnie	Trion Group
Balbieran, Romilyn M.	Research, Education, Institutional Development Foundation	Toreja, Dionisio	Trion Group
Balbieran, Ronilo	Research, Education, Institutional Development Foundation	Regalado, Brian Ernest L.	United Architects of the Philippines
Bico, Czen	Research, Education, Institutional Development Foundation	Vazquez, Elizabeth G.	Wallcrete Company, Inc.
Capistrano, Maricris V.	Research, Education, Institutional Development Foundation	Francisco, Ma. Elena Go	Women in Infrastructure Foundation, Inc.
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ACTION PLAN

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Mesias, Vince Gerard	University of the Philippines
Navata, Martin Julian	University of the Philippines

Foreign Chambers, Embassies and Delegations, and Multilateral Organizations

Morel, Alain	Asian Development Bank
Stalnes, Noel	Asian Development Bank
Razo, Sean Patrick C.	Embassy of Japan - Economic Section
Galvez, Alvin	Enterprise Singapore
Jamaji, Minoo	Federation of Indian Chambers of Commerce and Industry
Bandelow, Charlotte	German Philippine Chamber of Commerce and Industry
Loveres, Tristan	German Philippine Chamber of Commerce and Industry
Inigo, Ma. Franchesca	International Organization for Migration
Ziller, Lorens	Italian Chamber of Commerce of the Philippines, Inc.
Hanafiah, Siti	Malaysia External Trade Development Corporation
Naing, HE Win	Myanmar - Foreign Mission
Chotrani, Johnny	Philippine-India Business Council
Piedada, Jose	Timor Leste - Foreign Mission
Montesines, Bebe	U.S. Commercial Service, U.S. Embassy
Manroy, Teddy	United Nations Industrial Development Organization

List of Abbreviations

ACPE	ASEAN Chartered Professional Engineer	DTI-ROG	Department of Trade and Industry- Regional Operations Group
AMO	Authorized Managing Officers	EDC	Export Development Council
ARTA	Anti-Red Tape Authority	EPC	Engineering, Procurement, Construction
A&E	Architectural and engineering	FIDIC	International Federation of Consulting Engineers
BIM	Building Information Modelling	GIA	Government-Industry-Academe
BOI	Board of Investments	GPPB	Government Procurement Policy Board
BSP-IRO	Bangko Sentral ng Pilipinas - Investor Relations Office	HDMF	Home Development Mutual Fund
CHED	Commission on Higher Education	HEI	Higher education institution
CIAP Board	Construction Industry Authority of the Philippines Board	IC	Insurance Commission
CMDF	Construction Manpower Development Foundation	IFIs	International Financial Institutions
COA	Commission on Audit	ISO	International Organization for Standardization
CPD	Continuing Professional Development	IRR	Implementing rules and regulations
DBM	Department of Budget and Management	MLOs	Mortgage Loan Originator
DENR	Department of Environment and Natural Resources	NEC	New Engineering Contract
DFA	Department of Foreign Affairs	NEDA	National Economic Development Authority
DICT	Department of Information and Communications Technology	NGAs	National Government Agencies
DILG	Department of Interior and Local Government	OUsec	Office of the Undersecretary
DOF	Department of Finance	OSH	Occupational Safety and Healthy
DOLE	Department of Local and Employment	PCA	Philippine Constructors Association
DOLE-BLE	Department of Local and Employment - Bureau of Local Employment	PCAB	Philippine Contractors Accreditation Board
DOLE-BWC	Department of Local and Employment - Bureau of Working Conditions	PDCB	Philippine Domestic Construction Board
DOLE-ECC	Department of Local and Employment - Employee Compensation Commission	PEECC	Philconstruct Events, Exhibitions, and Conferences Corporation
DOLE-OSHC	Department of Local and Employment - Occupational Safety and Health Center	PLI	Professional Liability Insurance
DOLE-SPECS	Department of Local and Employment - Special Program for the Employment of Students	POCB	Philippine Overseas Construction Board
DOST	Department of Science and Technology	POEA	Philippine Overseas Employment Administration
DOTR	Department of Transportation	PPP	Public-Private Partnership
DPWH	Department of Public Works and Highways	PPP Center	Public-Private Partnership Center
DTI	Department of Trade and Industry	PQF Council	Philippine Qualifications Framework Council is composed of Department of Education (DepEd), Commission on Higher Education (CHED), Technical Education and Skills Development Authority (TESDA), Professional Regulations Commission (PRC) and Department of Labor and Employment (DOLE).
DTI-BSMED	Department of Trade and Industry - Bureau of Small and Medium Enterprises	PRC	Professional Regulation Commission
DTI-BPS	Department of Trade and Industry - Bureau of Philippine Standards	QESH	Quality, Environment, Safety, Health
DTI-PRU	Department of Trade and Industry - Public Relations Unit	SSS	Social Security System
DTI-KMIS	Department of Trade and Industry - Knowledge Management and Information Service	TESDA	Technical Education and Skills Development Authority
DTI-EODB	Department of Trade and Industry - Ease of Doing Business	TWG	Technical Working Group
DTI-FTSC	Department of Trade and Industry - Foreign Trade Service Corps		
DTI- PTTC	Department of Trade and Industry - Philippine Trade Training Center		





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