MOBILITY OF APEC ENGINEERS - THE OPPORTUNITY IN BELT & ROAD INITIATIVE

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GDP GROWTH OUTLOOK FOR ASIA

- **OECD:** GDP growth in Emerging Asia is expected to remain robust over the medium-term on the back of resilient domestic demand, steady investment and trade recovery. It is expected to post 6.3% growth on average between 2018 and 2022. Southeast Asia’s growth should also remain strong at 5.2% over the same period.

- **ADB:** Developing Asia is forecast to expand by 6.0% in 2018, and by 5.9% in 2019. Excluding Asia’s high-income newly industrialized economies, growth should reach 6.5% in 2018 and 6.4% in 2019.
Belt and Road Initiative: China Plans $1 Trillion New ‘Silk Road’. It envisions new roads, high-speed rail, power plants, pipelines, ports and airports and telecommunications links that would boost commerce between China and 60 countries in Asia, Europe, the Middle East and North Africa.

The Central Asian Regional Economic Cooperation (CAREC) Program is an ADB supported initiative focused on financing infrastructure projects and improving the region’s policy environment in the priority areas of transport, energy, trade policy, and trade facilitation.

The Greater Mekong Sub-region (GMS) Program focuses of the GMS Program is to improve connectivity in the subregion through strengthening linkages in transport, energy, and telecommunications.

Many others cross border infrastructure projects.................
CHALLENGES IN PROFESSIONAL SERVICES IN ASIA PACIFIC

- Cultural Differences
- Different in Languages
- Differences in Professional Qualification
- Local Regulatory Requirement
- Difference in Code of Practices
- Differences in Competency level
- Geopolitical Risk

Solutions ???
GOVERNMENT POLICY IN FACILITATING PROFESSIONAL SERVICES

- DO NOT REINVENTING THE WHEEL – facilitate Mobility of Professional
  - Leverage on experiences
  - Transfer of Technology
  - Capacity Building

- International Bench-Marking on Qualification and Competency Standards
  - Rising qualification standard of the professional
  - Adopting processes on international competency level

- Standardization of local challenges, i.e. Language, Code of Practice etc.

- Facilitate APEC Engineers as Platform for Engineering Services. Recognized by APEC Organization and CPTPP Agreement

- Facilitate VISA entry, "Green Card" for professional, enhance value of the "APEC Card" to facilitate mobility
INTERNATIONAL BENCH-MARKING

Qualification Accreditation

Washington Accord

Competency Agreement

Asia-Pacific Economic Cooperation
APEC Engineer Registry

IPEA AGREEMENT

Federation of Engineering Institutions of Asia and the Pacific (FEIAP)
Provide an individualised Benchmark Competence Standard and assessment framework as a basis for recognising substantial equivalence of governance, standards and quality assurance systems.

Substantial equivalence - a pre-requisite for attaining and maintaining Authorised Membership of an agreement.

Rules, Procedures and Guidelines are defined and are common for all of the competence agreements.
Sets the **Benchmark Competence Standard**, that provides the assessment hurdle for candidates seeking admission to the International Register via the local jurisdiction.

**Standards for APEC Engineer, IPEA require the candidate to demonstrate:**

- a minimum overall level of academic achievement/structured engineering education;
- the professional engineering competence for independent practice in the appropriate occupational category;
- a minimum period of seven years practical experience since graduation;
- a minimum period of two years in responsible charge of significant engineering work.
CODES OF ETHICAL CONDUCT

Covers:
- misrepresentation of qualifications and titles,
- accepting responsibility and working only within one’s domain of competence,
- personal rights as well as legal and cultural values,
- conflicts of interest, confidentiality, not accepting inducements, and contribution to public debate.

As well as:
- maintaining competence,
- providing impartial and analysis and judgement to employers,
- avoiding health and safety dangers, and
- minimising environmental impact.
APEC ENGINEER’S COMPETENCY PROFILES

- Comprehend and apply universal knowledge
- Comprehend and apply local knowledge
- Problem analysis
- Design and development of solutions
- Evaluation
- Protection of society
- Legal and regulatory
- Ethics
- Manage engineering activities
- Communication
- Lifelong learning
- Judgement
- Responsibility for decisions
Sets out the manner in which a jurisdictional section of the relevant international register will be developed and implemented.

- Underpins the requirements for Authorised Membership of the agreements.
- Created as part of the submission for provisional entry to an agreement.
- Critical component of the submission for all steps of international review.
- Documents the assessment methods and quality systems that ensure candidates seeking admission to the International Register will fully satisfy the Schedule 1 - Benchmark Competence Standard.
OBLIGATION OF AUTHORIZED MEMBER

- Setting a localised standard of competence.
- Maintaining a list of all those persons on their jurisdictional register or registers who:
  - satisfy the benchmark competence standard,
  - have agreed to be bound by a Code of Ethics that is consistent with the IEA template.
- Limiting the extent of further assessment to the minimum reasonable necessary when processing local registration applications from persons appearing on any other section of the international register.
- Advising all other Authorized Members via the Secretariat of any changes that are made to the original jurisdictional Assessment Statement.
- Advising all other Authorized Member of plans to substantially change jurisdictional criteria, policies, protocols or procedures.
- Provision of annual reports submitted to the meeting of agreement members - as prescribed in Section C6.2.
BENEFITS OF STANDARDIZATION AND RECOGNITION OF PROFESSIONAL SERVICES

- Promote Best Practices, expedite grow process in economies
- Technology Transfer short cut the learning process
- Product Stewardships benefit the environment, safety and health
- Promote Product Lifecycle process through supply chains
- Facilitate Integration of Asia Pacific market, expedite the economy growth in the region, especially added advantage in promoting mobility of Engineers for the Belt and Road Initiative.
Q & A