

First Session of the Asia-Pacific Information Superhighway Steering Committee, 1-2 November 2017, Dhaka, Bangladesh.

**DRAFT SUBMISSION OF Monenco Iran Consulting Engineers
PROJECTS/ACTIVITIES/STUDIES**

October 21st 2017

Objective: This form is sent to the representative of each organization in order to prioritise activities and better align broadband connectivity gaps with solutions. All organization submissions will be consolidated as per AP-IS Pillar and subregion to develop an implementation plan for 2018 and will be presented by the Secretariat during the First Session of the Asia-Pacific Information Superhighway (AP-IS) Steering Committee, 1-2 November 2017, Dhaka, Bangladesh. A similar template is sent to ESCAP member countries to identify their planned activities.

Please complete this form and submit to ESCAP (escap-ids@un.org) by **no later than 25 October 2017.**

(a). Background Information

(i). Organization:

Monenco Iran Consulting Engineers
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(ii). Organization's Focus:

Monenco Iran consulting engineers, a leading global provider of professional engineering and consulting services was formed in 1973 as a joint venture between the private sector of Iran and Montreal Engineering Company of Canada and started its activities in Iran energy industry. Currently, Monenco Iran Consulting Engineers is a private entity which Mapna Group, AMEC Foster Wheeler, and MIR Engineering and Technology Management Company (Employees' share) are the main shareholders.

Monenco Iran Consulting Engineers is built around teams of talented senior level consultants who offer real world implementation experiences. Therefore, experienced qualified personnel, using modern systems & international standards, providing high quality services, and considering principle of customer satisfaction are the main key factors that led Monenco Iran Consulting Engineers to grow widely and achieve significant success in the target markets globally.

Monenco Iran provides A-Z engineering and consultancy solutions to a wide range of industries such as telecommunication, oil and gas, water and waste water, ports, steel as well as power and transportation. Monenco Iran is growing rapidly in the field of dispatching and ICT while dealing with enter-technological and high-tech businesses (responding to the needs of the country for advanced ICT utilizing activities). Having technical teams dedicated for

SCADA and telemetry, dispatching and monitoring, AMI and smart solutions, mobile and fixed telecommunication networks, IT systems (Big Data, Data Centers, Data Model, ...), telecommunication master planning and telecommunication business and strategic planning has made Monenco Iran a reliable and unique consultant for our clients in providing total solutions to them. Benefiting from highly qualified engineers, software, hardware infrastructures and the valuable experience of the company, the success of our clients in their plans and portfolios is guaranteed.

(b). Challenges and Opportunities on promoting broadband connectivity:

Within the scope of the AP-IS four pillars

- (1). Connectivity;
- (2). Internet Traffic & Network Management;
- (3). E-resilience; and
- (4). Broadband for all,

ESCAP member countries and partners outlined seven strategic initiatives in the AP-IS Master Plan (http://www.unescap.org/sites/default/files/pre-ods/CICTSTI1_2E_rev1.pdf) to be implemented between 2016-2018 (please refer to attached chart of AP-IS 4 Pillars and AP-IS Strategic Initiatives).

The AP-IS seven strategic initiatives are as follows:

1. Identification, coordination, deployment, expansion and integration of the regional backbone networks at the cross-border intra- and interregional levels, in collaboration with member countries and subregional organizations;
2. Establish a sufficient number of Internet exchange points at the national and subregional levels and set out common principles on Internet traffic exchange to prevent Internet traffic tromboning, decrease transit costs and improve service quality
3. Regional social and economic studies;
4. Enhancing ICT infrastructure resilience in the Asia-Pacific region;
5. Policy and regulations for leveraging existing infrastructure, technology and inclusive broadband initiatives;
6. Capacity-building; and
7. Asia-Pacific information superhighway project funding mechanism based on public-private partnerships

(c). AP-IS 7 Strategic Initiatives Implementation Plan 2016-2018: priority challenges and proposed activities

In order to match your organization's current and planned activities with country's/sub-region's/region's priorities within the scope of the AP-IS seven

strategic initiatives, please complete the matrix below accordingly. Please add a row as deemed necessary.

Activity/Project/Study	Description
Description of the Activity/Project/Study (existing or planned)	(i) Feasibility Study of ICT Ministry Capital Asset Acquisition (ii) Realization of a Telecommunication Architecture Study Throughout PAEW Service Area (iii) Consulting Services for Analysis, Confirmation, Design, Implementation and Operation of FTTx NBN in Iran (iv) Comprehensive Study of Communication Infrastructure for Imam Khomeini Airport (v) Engineering services for complementation of optical fiber comprehensive plan (vi) Supervisory on service and performance quality of fixed/mobile operators (vii) Iran Railways Telecommunication Master Plan
Link of the activity/project/study to the AP-IS Strategic Initiatives (1-7)	(i) I1, I2, I3, I5 & I7 (ii) I1, I4 & I6 (iii) I1, I3, I4 & I6 (iv) I1, I3, I4 & I6 (v) I1, I3, I4 & I6 (vi) I2 & I7 (vii) I3, I5 & I7
Link of the activity/project/study to the AP-IS Pillars (1-4)	(i) P1, P2 & P4 (ii) P1 & P3 (iii) P1 & P4 (iv) P1 & P4 (v) P1 & P4 (vi) P1, P2 & P4 (vii) P1 & P3
Beneficiary Organizations/Countries of the Activity/Project/Study	(i) ICT Ministry/Iran (ii) Public Authority for Electricity and Water(PAEW)/Sultanate of Oman (iii) Iranian-Net(the 4 th telecommunication operator in Iran)/31 provinces across Iran (iv) Imam Khomeini International Airport/Iran (v) Regional Electricity Division Companies/Different provinces of Iran (vi) Communication Regulatory Authority of Iran/Iran (vii) Iran's Railway Company
Outcome of the Activity/Project/Study for Beneficiaries	(i) Data gathering, basic & detailed feasibility study with consideration of technical, economic, financial, social/cultural environmental & passive defense aspects in order to realization of ICT ministry public budget in below 5 subsidiaries: (i-1) "Developing modern knowledge & technologies in ICT section"

	<ul style="list-style-type: none"> (i-2) “Creating & developing national market, electronic government & native content infrastructures” (i-3) “Developing regional balanced ICT services” (i-4) “Developing data exchange infrastructures & national information network” (i-5) “Creating & developing infrastructures and applied services of the ICT section” <p>(ii) Formation of the database and network drawing for the existing telecom network, a detailed report on the gaps in the telecom network, OTDR test required for a complete design report for the existing FO network, a detailed design report with drawings and specification for establishing a complete protected telecom network using the existing FO network and a telecom network management system, a detailed report for closing the gaps in the existing FO network so as to cover the entire assets of the client with an FO network, manpower assistance to the client for project monitoring for a period of 18 months.</p> <p>(iii) Data gathering in 31 provinces of Iran, National broadband market investigation, Providing business plan, High level design, Marketing & sale strategy determination, providing needed RFPs, Cooperation in holding tenders & financial assessment and cooperation in selecting of contractors.</p> <p>(iv) Making feasibility study in order to provide telecom infrastructures for the airport in four phase, Investigation of existing infrastructures (passive & active network, telephone exchanges, radio network) and design an appropriate scenarios in order to cover the gaps based on the comprehensive study on technologies with the consideration of regulatory limitations and available solutions, Investment study based on the best practices of international airports.</p> <p>(v) Data gathering, Feasibility study to provide fiber optic comprehensive plan, Providing and setting tender documents, Technical and financial assessment and selecting qualified contractor.</p> <p>(vi) Compilation of communication SLAs in fixed & mobile networks based on the operators data, global standards & other countries regulatory experiences including QoS parameters & related formula according to Nokia, Huawei, Ericsson, Siemens, ZTE & other vendor’s systems and extraction of acceptable range of values with determining the measurement & monitoring method, needed equipment & facilities and their specifications.</p> <p>(vii) Current network status analysis, Target definition and guide line to proposition to meet the target, Preparation of road map and task definition to meet the road map & SWOT matrix analysis, Prioritized the task based on technical and financial issues, Reduced Capex as well as Opex due to integration between telecommunication section.(Fiber, Radio, Pabx, Data), Increase the traveling capacity of train along railway due to best and new proposed signaling and telecommunication equipment.</p>
Timeframe of the activity/project/study	<ul style="list-style-type: none"> (i) March 2017 to September 2017 (ii) Jan 2017 to October 2017 (iii) Feb 2014 to May 2014 (iv) Sep 2010 to Sep 2011

	<p>(v) Jan 2011 to Sep 2012 (vi) July 2014 to April 2015 (vii) October 2014 to April 2015</p>
<p>(iv). Any other suggestions/issues:</p>	