TECHNICAL WORKSHOP
ON THE TRANSPORT GIS APPROACH HARMONIZATION
BETWEEN ESCWA, UNECE AND IDB
BEIRUT, UN HOUSE, 9-11 JULY 2019

ESCWA Transport GIS Platform
Ongoing Project with the support of IDB

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Project Background

- The 15th Session of ESCWA Committee on Transport held in Rabat on 27-28 January 2015 requested the development of an e-platform for periodic future updates of information concerning the components of the Integrated Transport System in the Arab Mashreq (ITSAM).
- In the same session, the League of Arab States (LAS) requested ESCWA support to expand ITSAM railways and roads networks to cover all Arab Countries.
- The Project Concept was presented and endorsed at the 16th Session of ESCWA Committee on Transport held in Cairo on 23-24 November 2016. A prototype project was developed in cooperation with the United Nations Interim Force in Lebanon (UNIFIL).
- First Training workshop on GIS, Cairo 22 January 2016
- A Web Based GIS version is underdevelopment with IDB support
GIS Components

Five Layers:
1. COUNTRY
2. ROADS NETWORK
3. RAILWAYS NETWORK
4. AIRPORTS
5. PORTS

Table of attributes:
Inspired from the Glossary of Technical Data of the Trans-European Network GIS of the European Commission (Version 6 February 2014)
Country Layer (Polygons)

18 Countries (February 2016)

- Population
- Area
- Length of Roads
- Length of Railways
- Nr. of Airports
- Nr. of Ports
- Nr. of Registered Vehicles
- Volume of Transit Transport
- Etc.
Roads Network Layer (Arcs)

Infrastructure Attributes (by segment)
- ID Code
- Length
- Administrative Classification
- Functional Classification
- ESCWA Classification
- Nr. of Lanes
- Type of Pavement
- Design Speed
- Design Axle Load
- Etc.

Operation Attributes
- Traffic Volume
- Average Speed
- Level of Service (LOS)
- Nr. of Crash Fatalities
- Fatality Rate
- iRAP classification
- Etc.
Railways Network Layer (Arcs)

Infrastructure Attributes (by segment)

- ID Code
- Length
- Type
- Traction
- Capacity
- Vehicle Loading Gauge
- Design Speed
- Control & Command System
- Etc.

Operation Attributes

- Status (under construction, Operating, etc.)
- Actual Speed
- Actual Train Flows (Passengers and Freight)
- Ridership and Freight Rates
- Etc.
Airports Layer (Points)

- City Name
- Airport Name
- Airport Name in Arabic
- Website (URRL)
- Type (International/Domestic)
- Activity (Freight/Passengers/Both)
- Nr. of Runways
- Length of longest runway
- PCN Category
- ILS Category
- Capacity
- Passengers Traffic Flow
- Freight Traffic Flow
- Etc.
Ports Layer (Points)

- City
- Port name
- Port name in Arabic
- Website (URRL)
- Activity
- Total Area
- Water Area
- Lengths of quays
- Maximum draught
- Maximum draught for Containers Vessels
- Port Traffic
- All Cargo Traffic Flow
- Containers Traffic Flow
- Passengers Traffic Flow
- Etc.
Accessibility Arrangements:

Mapping Geometrics:
ESCWA

Attribute Editing (information):
National Focal Points+ Official Authority

Reading, Query and Analysis:
Public, through registration
Coordination Meeting on Regional Connectivity
IDB, ESCWA, ECE, CETMO
Beirut, 24 April 2018

Adding 2 layers
  Border Crossings
  Logistic Zones

Consolidated Mega Template for Transport GIS
  ESCWA, ECE, CETMO

ESCWA Open Source QGIS
IDB Support for regional training workshop
Screen Pictures
From QGIS
Screen Pictures
From Cloud GIS
Thank you