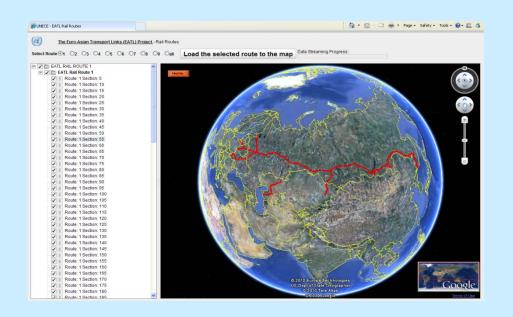


UNITED NATIONS ECONOMIC COMMISSION FOR EUROPE

7th session of the Expert Group on Euro-Asian Transport Linkages



EATL GIS Work and Internet Application

The EATL Phase II
October 2011



GIS work Objectives

EATL Phase II work plan

Expected Accomplishment

Further developed and updated GIS database

Main Activities

Review, update and extend Collect country data existing GIS database based on country inputs

Description of Action

Subject to quality inputs update database and projects

Secretariat's vision has targeted far beyond

Develop an Internet Application for the presentation of the EATL GIS work in Internet environments for access free to interested users



EATL GIS Status

- GIS MapInfo Professional version 7.5 and EATL Database
- Basic layers & data merged: Provide nodes, line sections, objects situated along sections
- Workspaces and maps designed, to be published on Internet and printed documents
- EATL GIS database and predefined workspaces ready to be delivered



Topics covered by GIS

- Defined rail line sections and routes
- Defined road sections and routes
- Nodes: Cities, rail, road, stations, BCP
- Inland Waterways
- Maritime and inland ports
- Border crossing points
- Rail Projects
- Road Projects



GIS Layers

Predefined – from official sources

Border Shapes

Rivers and Lakes

Cities (Capitals, Small Cities, Populated places, Build up areas)

Railway Lines - all

Railway Stations

Road by categories

EATL Specific – Nodes

EATL Rail Routes

EATL Road Routes

EATL Rail Line Sections with associated data

EATL Road Line Sections with associated data

EATL Rail Projects

EATL Road Projects

Sea and inland ports

Border crossing points



EATL GIS Application based on available Web technologies

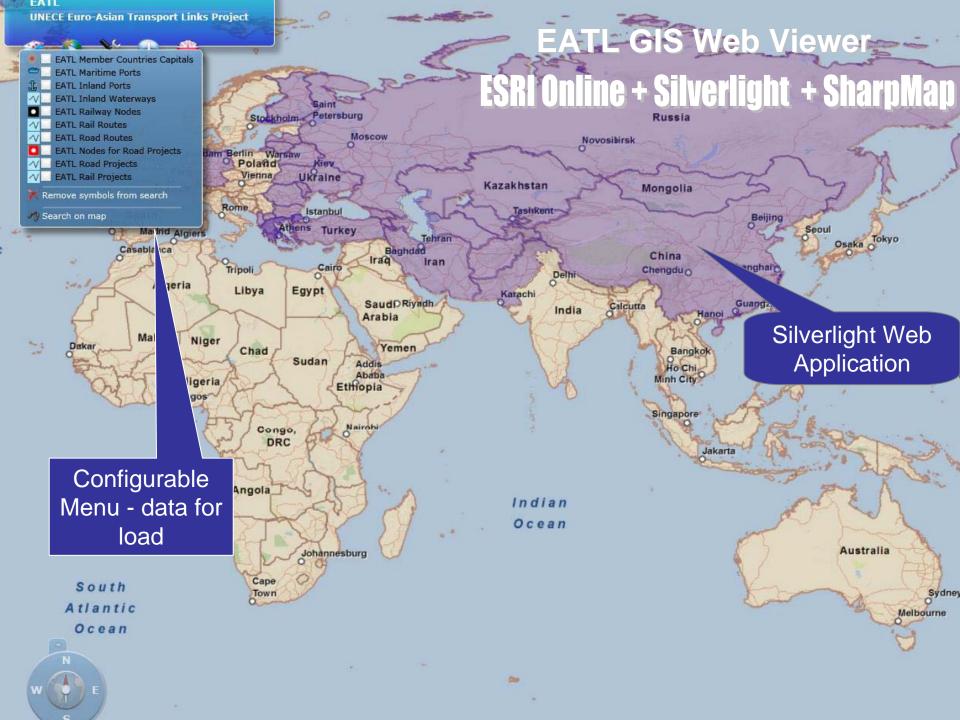
ESRI GIS Map Server Online + Silverlight + SharpMap

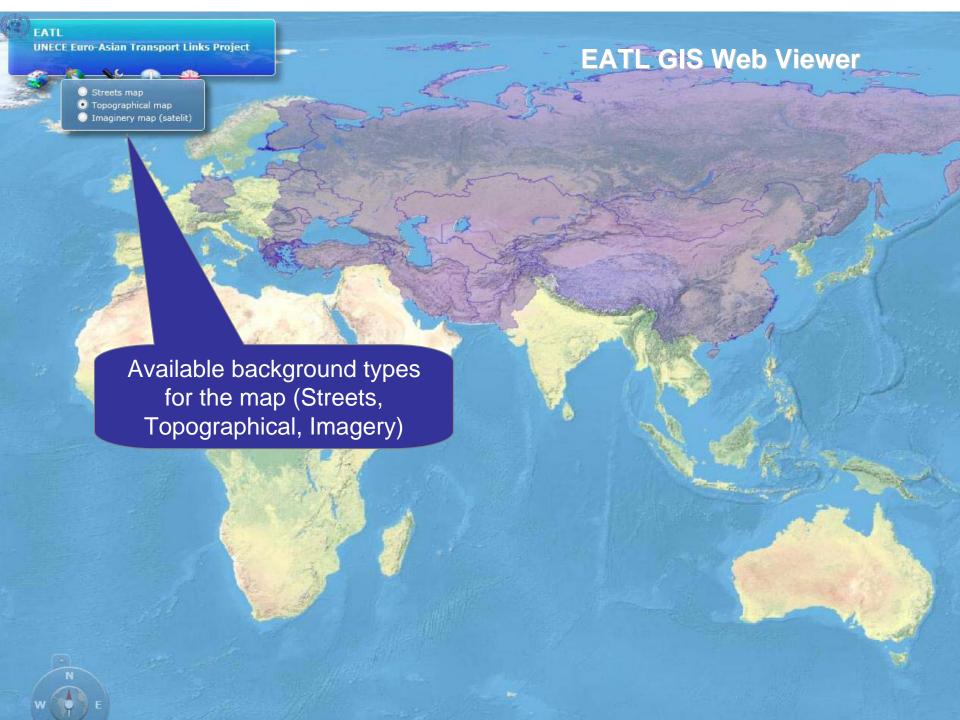
- Query Web GIS Services from ESRI Online Map Server Online for background layers (images)
- Require Silverlight plug-in installation on end user computer (free)
- Load shape files (ESRI)
- No GIS server needed for EATL GIS Data
- Need a set of libraries to be installed in an Microsoft IIS server of the application publisher (UNECE-EATL)
- Good security level for EATL GIS Data Managed offered
- Designed to view and query Data placed on Map

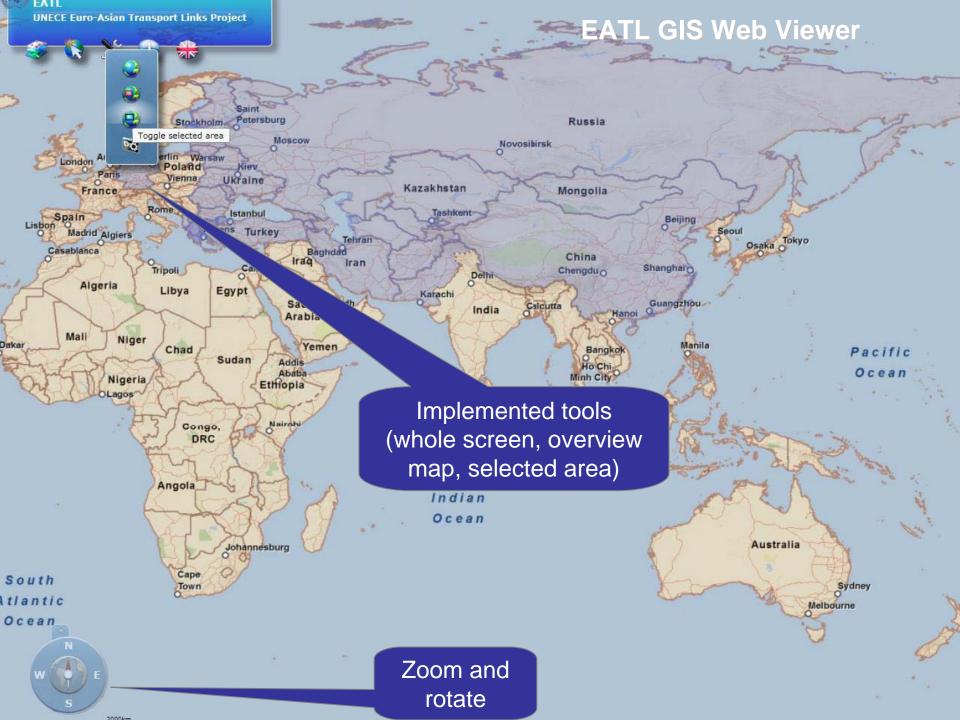


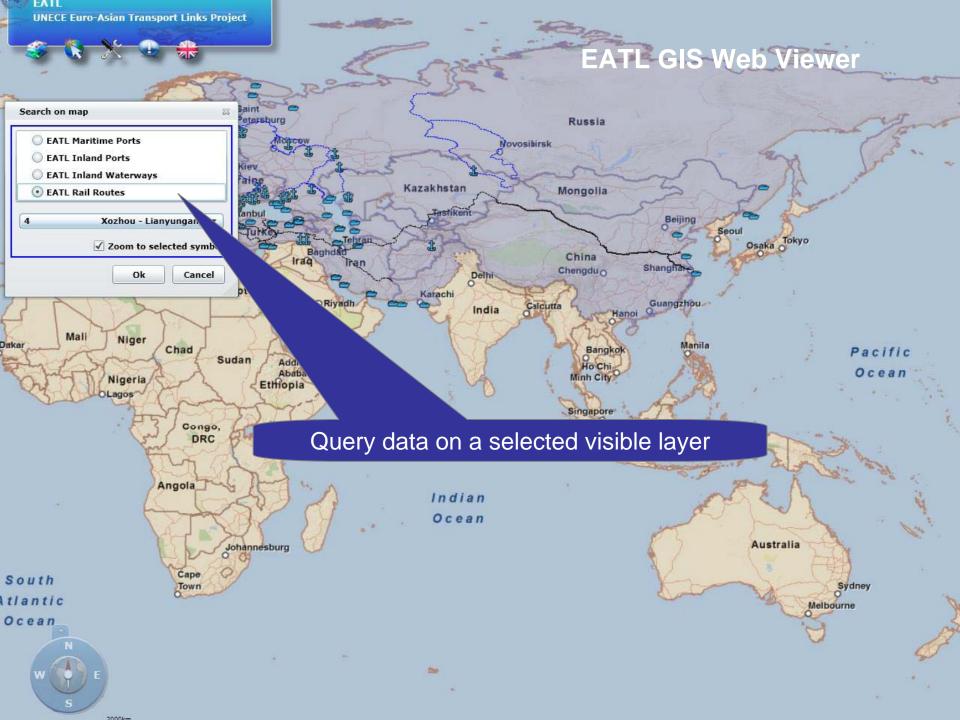
View and Query Data

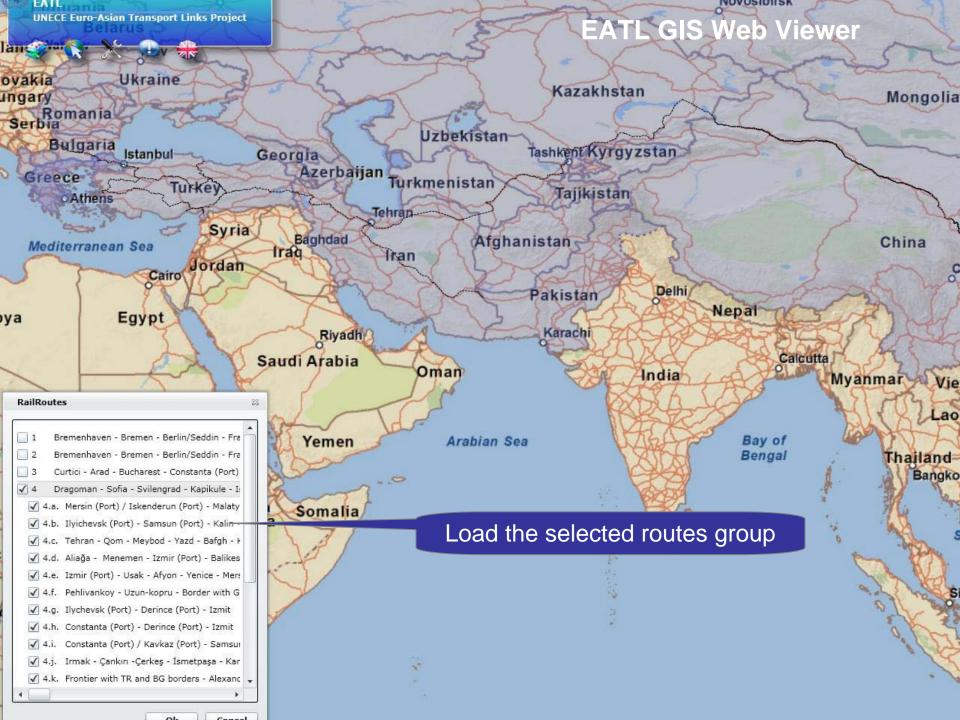
- Application allows the following queries:
 - Point and click to identify the GIS object
 - Mouse over to get the figures of the pointed GIS "object"
 - Query the data of selected layer based on the figure of an attribute
- Three types of backgrounds available to be selected:
 - Streets view
 - Topographic Map
 - Worldwide Satellite Imagery Map
- Implemented tools are:
 - Toggle visibility of the base map switcher
 - Toggle visibility of the overview map
 - Toggle visibility of the magnifying glass
 - Area object select

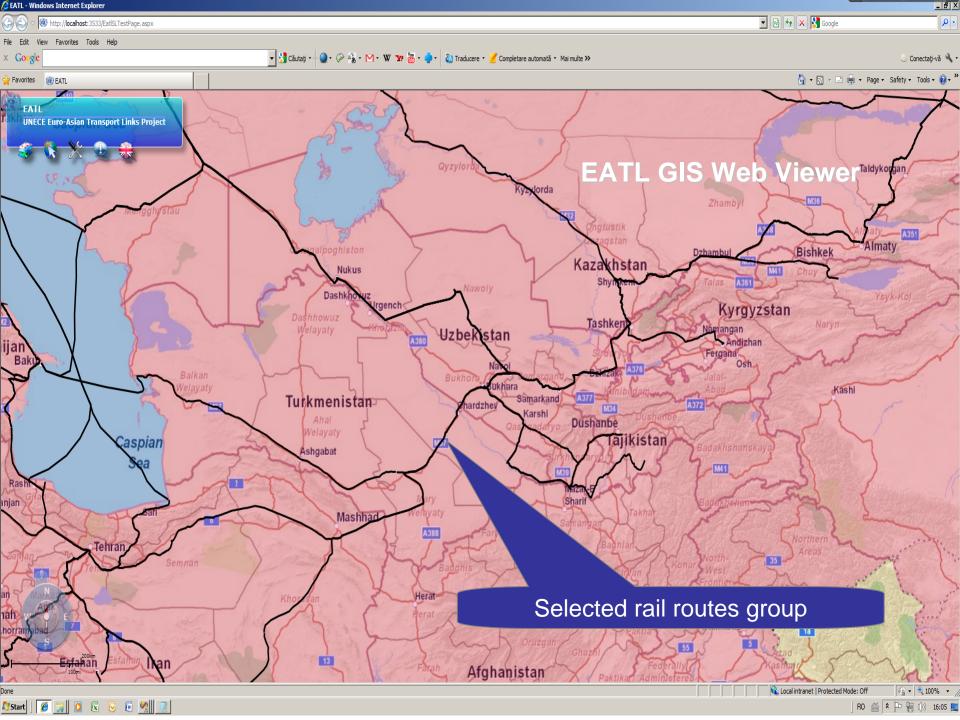


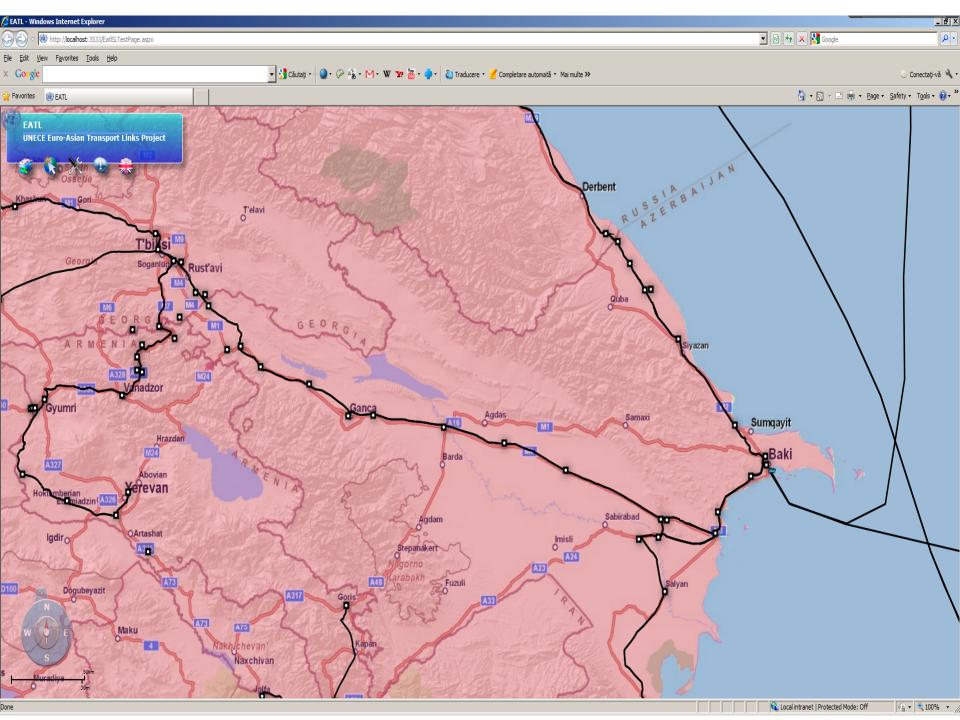


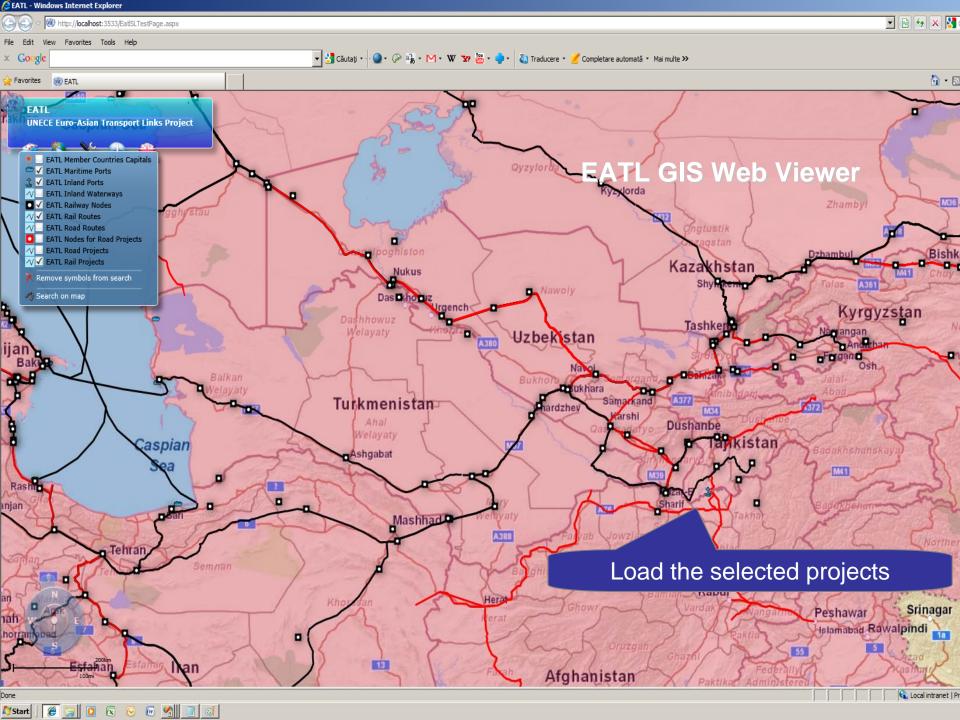


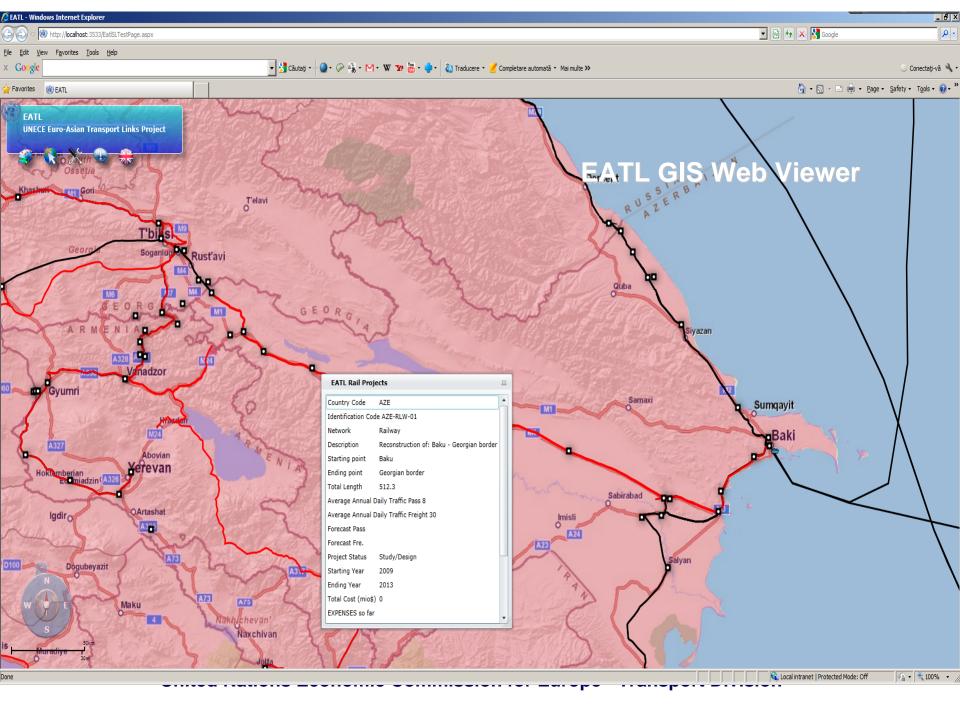


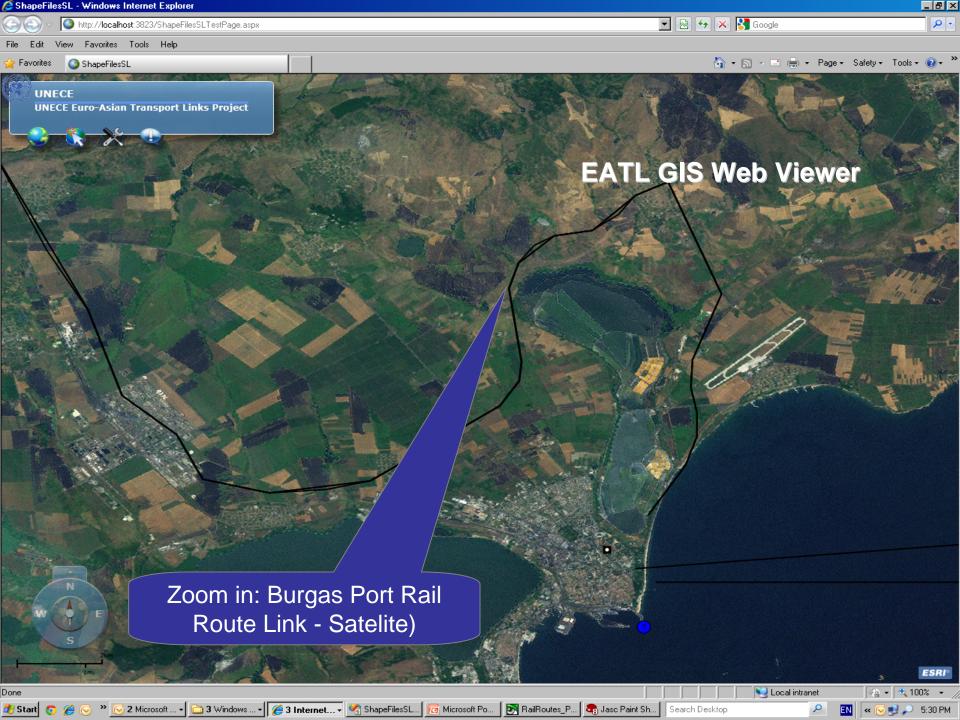














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