t. Kauagies D. U



No 835

Serbia Snežana Bogosavljević Bošković for the Minister of Agriculture of the Republic of the Embassy of the Republic of Hungary in Belgrade and, has the honor to transmit herewith the letter of the Minister of Agriculture and Environmental Protection of the Republic of Hungary Sándor Fazekas. The Ministry of Foreign Affairs of the Republic of Serbia presents its compliments to

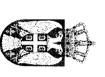
request the Embassy to forward the letter to the mentioned destination. The Ministry of Foreign Affairs of the Republic of Serbia has the honor to kindly

opportunity to renew to the Embassy of the Republic of Hungary in Belgrade the assurances of its highest consideration. The Ministry of Foreign Affairs of the Republic of Serbia avails itself of this

Belgrade, 13 January 2015

#### Република Србија

Министарство польопривреде и заштите животне средине Немањина 22-26 11000 Београд Србија



#### Republic of Serbia Ministry of Agriculture and Environmental Protection 22-26, Nemanjina Str. 11000 Belgrade

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Број / Nº: 350-02-114/2014-16

Датум/Date: 19.12.2014.

#### HUNGARY MINISTRY OF AGRICULTURE Minister, Sándor Fazekas

Kossuth Lajos tér 11. 1055 Budapest

Subject: Notification

Dear Minister,

Republic of Serbia, 2015-2025 and the Environmental report of the Strategy. context, we hereby inform you that the Republic of Serbia is in final phase of development of the Strategy on Development of Waterborne Transport of the assessment to the Convention on environmental impact assessment in a transboundary context, we hereby inform you that the Republic of Serbia is in final phase of In accordance with provisions of the article 10. of the Protocol on strategic environmental

notify us whether you want to enter into consultations. significant transboundary environmental, including health, effects in your country and Please find appropriate to evaluate if the implementation of the Strategy is likely to have

We are enclosing the Notification of proposed activities and the Executive summary of the Strategy on Development of Waterborne Transport of the Republic of Serbia, 2015-

receipt of the present notification letter. We are looking forward to your response in a deadline of three weeks from the date of

Sincerely Yours,

MINISTER

Professor Snežana Bogosavljević Bošković, PH.D

### NOTIFICATION TO AN AFFECTED PARTY OF A PROPOSED ACTIVITY UNDER ARTICLE 3 OF THE CONVENTION

# 1. INFORMATION ON THE PROPOSED ACTIVITY

(i) Information on the nature of the proposed activity

#### Type of plan proposed

Serbia 2015-2025 Adoption of the Strategy on Development of Waterborne Transport of the Republic of

### Is the proposed activity listed in Appendix I to the Convention? YES

#### Scope of proposed activity

Development of:

- Ports in the Republic of Serbia
- Inland Waterways (Fairways)

#### Scale of proposed activity

(e.g. size, production capacity, etc.)

- Extension of port areas of:
- port area, capacity, etc. shall be defined by the technical documentation) capacities up to 100.000 tones, railway connection, intermodal terminal. Size of Port of Bogojevo (reconstruction of port quay, construction of new warehousing
- documentation) connection. Size of port area, capacity, etc. shall be defined by the technical Terminal, Bulk Cargo Terminal, construction of port quay, silos and railway Bačka Palanka (construction of container terminal, Liquid Cargo
- by the technical documentation) Terminal and Liquid Cargo Terminal. Size, production capacity, etc. to be defined Port of Prahovo (construction of new port quay, construction of Container
- Relocation of:
- documentation) Port of Apatin (size, production capacity, etc. to be defined by the technical
- $\omega$ river Danube: Removal of inland waterways (fairways) bottlenecks on following sectors on the
- Bezdan (1429,0 1425,0)
- Siga Kazuk (1424,2 1414,4)
- Apatin (1408,2 1400,0)
- Čivutski rukavac (1397,2 1389,0)
- Ušće Drave (1388,8 1382,0)
- Aljmaš (1381,4 1378,2)
- Staklar (1376,8 1373,4)
- Erdut (1371,4 1366,4)
- Bogojevo (1366,2 1361,4)
- Dalj (1357,0 1351,0)
- Borojevo 1 (1348,6 1343,6) Borojevo 2 (1340,6 1338,0)

- Vukovar (1332,0 1325,0)
- Sotin (1324,0 1320,0)
- Opatovac (1315,4 1314,6)
- Mohovo (1311,4 1307,6)
- Bačka Palanka (1302,0 1300,0)
- Susek (1287,0 1281,0)
- Futog (1267,4 1261,6) Novi Sad ( / )
- Arankina Ada (1247,0 1244,8)
- Cortanovci (1241,6 1235,0)
- Beška (1232,0 1226,6)
- Preliv (1207,0 1195,0)

### Description of proposed activity

#### (e.g. technology used)

## The strategy sets out the basic guidelines for:

- port superstructure for functioning of a port terminals, as well as dredging inside the structures and devices serving for the safe approach and berthing of vessels) including plumbing, sewerage, energy and communication networks, lighting, fences, and other port area or on the waterway access to and from the ports. connections (roads, 1) Construction of port infrastructure (quay walls and similar structures), port paths, railway tracks with accompanying railway devices),
- 2) Removal of inland waterways (fairways) bottlenecks:
- stakeholders consultation within the cross-border Stakeholders' Forum.
- prioritization process (to identify the most critical bottlenecks),
- influence to navigational conditions, environmental impact, costs and technical feasibility multi-criteria analysis for identification of best technical solutions in terms of
- and water quality before, during and after works) related to hydro-morphology, biology and sediment preparation of designs and environmental monitoring programme (monitoring
- implementation of works and monitoring programme

## Description of purpose of proposed activity

- 1) Extension of port areas and construction or reconstruction of port infrastructure,
- 2) Removal of inland waterways (fairways) bottlenecks

### Rationale for proposed activity

## (e.g. socio-economic, physical geographic basis)

balanced regional development of the Danube region within the Republic of Serbia waterborne transport as economical and environmental friendly mode of transport, Economic development of ports hinterlands, percentage increase in the of use of

#### Additional information/comments Z<sub>o</sub>

# (ii) Information on the spatial and temporal boundaries of the proposed activity

#### Location

river Tisa) as well as Canal Danube-Tisa-Danube River Danube Basin within the Republic of Serbia (which includes river Sava and

Description of the location (e.g. physical-geographic, socio-economic characteristics)

mining, metallurgy, chemical and oil industries, etc.). and their hinterlands (industrial centers). Several industries may export goods on Bogojevo, Bačka Palanka, Novi Sad, Beočin, Beograd, Pančevo, Smederevo and Prahovo). River Danube is main axis of inland water transport network which and Romania. On the Serbian part of the river Danube are located 9 ports (Apatin, of 587.6 km, from the border with Hungary (rkm 1433.1) to the border with Bulgaria foreign markets mainly via inland waterway transport, (e.g. Construction industry, facilitate Serbian export and import as well as connection of domestic ports/harbours (rkm 845.5). Part of this river forms a natural border with the Republic of Croatian Danube River is international waterway with the length within the Republic of Serbia

River Sava is international waterway with the length within the Republic of Serbia of Sremska Mitrovica). Herzegovina. On the Serbian part of the river Sava are located 2 harbours (Šabac and 210.8 km. Part of this river forms a natural border with the Republic of Bosnia and

km. On the Serbian part of the river Tisa is located Port of Senta River Sava is interstate waterway with the length within the Republic of Serbia of 164

construction has been designed as a unique waterway integrated with Danube and is of immeasurable importance for the sustainable development of this part of the 600 km. Republic of Canal network Danube - Tisa - Danube in regard to the regulation of the water regime Tisa inland waterways. The total length of navigable canal network is approximately Serbia. This channel network simultaneously in all stages of its

Rationale for location of proposed activity (e.g. socio-economic, physical-geographic

Physical-geographic location of the rivers Danube, Sava and Tisa

operation) Time-frame for proposed activity (e.g. start and duration of construction and

2015-2025

proposed activity Maps and other pictorial documents connected with the information on the

Enclosed to the Notification

Additional information/comments NO

# (iii) Information on expected environmental impacts and proposed mitigation

alternatives, sustainable development issues, impact of peripheral activities, etc.) Scope of assessment (e.g. consideration of: cumulative impacts, evaluation of

capacity of the natural system and wetlands ecosystems, as sources of water supply or for land drainage. Sustainable dams, weirs, locks, groyne systems, bank protection, etc. Canal and river systems, systems and adjacent areas (wetlands, flood plains) and associated river training works: intermediate and long run between the objectives of various water users and the carrying waterway development and management necessitate striking besides being used as waterways, usually have other important functions as part of river navigation, flood control, agriculture, ecology, natural parks), for both canal and river waterway development and relate to competition for use of the waterway (hydropower, and biological processes). The major problems reported on the planning of inland waterways must also maintain their ecosystem functions (their natural physical, chemical current velocity. with certain physical characteristics related to depth, clearance, width, alignment and and related infrastructure. To sustain navigation, waterways must be safe and reliable, Inland waterway development requires the improvement or development of navigation To sustain their ecological character and environmental ದ balance over

Cumulative impacts and measures:

the ecology nor the flood risk. Water level - The simulated long term water level change does not significantly impact

provided so that stone aggregate or fine fractions are not dissipated. water and during the transport on the fairway by barges, all necessary measures should be River Ecosystem - if dredging, transport of dredged material should be done on the

national and international legislation the type of anti-fouling agents to be used. Pollution from waste and wastewater originating from ships - restrict and regulate by

energy efficient equipment. Air pollution and energy consumption during construction works use of modern and

### magnitudes) Expected environmental impacts of proposed activity (e.g. types, locations,

an occupation with a high risk of accidents and health implications for workers. workers and users, in line with applicable health and safety legislation. Port work remains essential to have a system in place to protect the health, safety and welfare of port occupation with a high risk of accidents and health implications for workers. the preservation of natural habitats and the quality of urban life. Port work remains an areas may often have to balance the development and management of port activities with pollution and fragmentation of habitats. Ports located close to densely populated urban workers and users, essential sometimes Port activities give rise to significant impacts in terms of emissions, noise, water and soil to have a system in place to protect the health, safety and welfare of has severe in line with applicable health and safety legislation. Dredging impacts, especially when sediments port

the dynamics of sediment transportation shape of river courses to improve navigation affects bottom and bank characteristics and industrial discharges. Bank reconstruction can completely transform or remove habitats. Foremost among the potential impacts are hydromorphological pressures. Altering the

Inputs (e.g. raw material, power sources, etc.)

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## the water system, solid waste) Outputs (e.g. amounts and types of: emissions into the atmosphere, discharges into

can be produced during construction and activities from ports. and wastewater from vessels; and of pollution from shore or bankside activities such as of water pollution from fuel and oil spillage, from accidents and from disposal of waste vessel maintenance, fuel and goods storage, trading areas and inland ports. Solid waste atmosphere from the ship stacks and diluted through interaction with ambient air. Risks carbon monoxide, oxides of sulphur and nitrogen. The exhaust gases are emitted into the Exhaust emissions from a marine diesel engine such as carbon dioxide, quantities of

# Transboundary impacts (e.g. types, locations, magnitudes)

substantial uncertainties on the importance of this potential impact. the impact due to disturbances of migrating The only potential transboundry impact from the project that has been identified concerns overwintering water fowl. There

### eliminate, minimize, compensate for environmental effects) Proposed mitigation measures (e.g. if known, mitigation measures to prevent

and logistics needs will drive requirements for quality, hydrology and natural water bodies. Technological changes and new transport navigation and infrastructure projects). This objective will have positive effect on water joint action and tackling significant pressures identified in quality and ecological status, joint management of flood risks, building awareness for prevention, by joint monitoring and joint development of measures to improve water pollution, The specific objective is dedicated to transnational water management and flood risk disconnection of adjacent wetlands/floodplains, conflicts the region (e.g. with inland

by the new technologies. trainingand qualifications to understand, master and exploit all the advantages provided mastering innovative port operations and the need for employees with the right skills,

therefore the mitigation and monitoring measures have not been defined yet As the SEA assessment is currently being undertaken the impacts are not yet known and

Additional information/comments NO

#### (iv) Proponent/developer

Name, address, telephone and fax numbers

#### (v) SEA documentation

If no/partial, description of additional documentation to be forwarded and Is the SEA documentation (e.g. SEA report) included in the notification?

(approximate) date(s) when documentation will be available

SEA documentation is not included in the notification.

### Additional information/comments NO

#### 2. POINTS OF CONTACT

(i) Points of contact for the possible affected Party or Parties

decision I/3, appendix) Authority responsible for coordinating activities relating to the SEA(refer to

Name, address, telephone and fax numbers

To be delivered by the diplomatic post

# List of affected Parties to which notification is being sent

Hungary, Republic of Croatia, Romania, Bulgaria, Bosnia and Herzegovina

## (ii) Points of contact for the Party of origin

decision I/3, appendix) Authority responsible for coordinating activities relating to the SEA(refer to

- Name, address, telephone and fax numbers

Miroslav Tošović, Omladinskih brigade 1 00381 11 2690977

00381 11 3132574

activities relating to the SEA Decision-making authority if different than authority responsible for coordinating

- Name, address, telephone and fax numbers

Leposava Sojić Nemanjina 22-26

## PROPOSED ACTIVITY IS LOCATED 3. INFORMATION ON THE SEA PROCESS IN THE COUNTRY WHERE THE

# (i) Information on the SEA process that will be applied to the proposed activity

Time schedule

- 2014-2015

Opportunities for the affected Party or Parties to be involved in the SEA process

- During 2015
- During 2015

Nature and timing of the possible decision

During 2015

Process for approval of the proposed activity

#### During 2015

Additional information/comments

### COUNTRY OF ORIGIN 4. INFORMATION ON THE PUBLIC PARTICIPATION PROCESS IN THE

### Public participation procedures

in the premises of Directorate for Inland Waterways. consultation shall also include public hearing which will be held during December, 2014 and the website of the Ministry of Construction, Transport and Infrastructure. Public shall include publishing of its text at the premises of Directorate for Inland Waterways Public consultation on the Draft Report on Strategic Environmental Impact Assessment

# Expected start and duration of public consultation

Public consultation shall start on December 9 and concludes on 23 December, 2014

Public hearing (presentation) shall be held on December 12, 2014

Additional information/comments NO

### 5. DEADLINE FOR RESPONSE

Date

According to the date of receipt of notification, within 30 days











#### Executive Summary for the Development Strategy on Waterborne Transport of the Republic of Serbia, 2015-2025

#### Introduction

of applicable solutions for Serbian's transport problems and challenges. development of Serbian's water transport sector for the next 10 years. To be of value it needs to provide quality Strategy on Waterborne Transport of the Republic of Serbia 2015 - 2025. It provides a clear strategy for the Transport and Infrastructure of the Republic of Serbia is in the procedure of preparation the Development On the basis of the Law on Navigation and Ports on Inland Waters, the Ministry of Construction

the Serbian infrastructure policy complies with the policy of the European Union and it will meet the Serbia's transport. It provides analytical basis for the choice of good policies and projects national transport needs in a best way over the next 5-10 years, especially if we speak about waterway The Development Strategy on Waterborne Transport of the Republic of Serbia, 2015 - 2025 identifies that

within the Strategy for the period 2015-2025 for better positioning and development of waterway transport in the Republic of Serbia, which was analyzed and its navigable tributaries, along with Serbian road and rail corridors, getting in importance within the overall European transport policy for the period 2014-2020. The New European policy opens significant opportunities In this sense, the transportation network which consists of the Danube waterway, with length of 588 km

and Maintenance of the Danube and its tributaries. the Danube and its navigable tributaries, considering the importance of the Master Plan for the Rehabilitation following the good practice of cooperation in the framework of the Danube Strategy. Ministers responsible for Master Plan for the Rehabilitation and Maintenance of the Danube and its tributaries has been developed Agreement on Main Inland Waterways of International Importance (AGN), within the priority areas 1a EU Strategy for the Danube Region - "to improve mobility and multimodality": Inland waterways, Ministers and Strategy for the Danube Region, the White Paper "Roadmap to a Single European Transport Area", and Transport have signed the Conclusions on effective waterway infrastructure rehabilitation and maintenance on Declaration on Effective Waterway Infrastructure Maintenance on the Danube and its Navigable Tributaries' Heads of Delegations responsible for Transport from eight EU Member States signed in Luxembourg "the keeping in mind the Convention regarding the Regime of Navigation on the Danube and the European Taking into account the Europe 2020 Strategy for smart, sustainable and inclusive growth, the EU

Republic of Serbia" was adopted in 2006. Some priority projects are implemented so far. It should be noted that the "Master Plan and Feasibility Study for inland waterway transport in the

European corridor Rhine-Danube which passes through Serbia. In that way it is possible to suggest a serious international waterways are in accordance with accepted standards of navigation taking into account the key The implementation of other projects, defined in the Serbian Master Plan, and regular maintenance of

development of comprehensive transportation network of the Republic of Serbia, at the national level for the period 2015-2025 in accordance with the new EU policy.

mobility and sustainable development links in SEETO comprehensive network, which promotes the removal of bottlenecks and regional integration variables of the trade flows, income and population), with the identification of key transport corridors / routes aim of the project is to develop models of the transport requirements of the Western Balkans (relying on the key of transport planning under preparation is updating of the Regional Infrastructure Study in Balkans (REBIS). The As a part of developing effective SEETO comprehensive network and strengthening of the basic system

develop multi-modal transport, especially linking sea and river ports has no direct access to the sea. Anyway, on the initiative of the Republic of Serbia has recognized the need to Adriatic-Ionian region. The Republic of Serbia is the only one of eight countries participating in EUSAIR, which connecting seaports and river ports with road and rail corridors will be increased the competitiveness of the Danube Region in coordinated monitoring of maritime transport and Based on the experiences of the EU Strategy for the Baltic Sea Region as well as the EU Strategy for the multimodal transport, and including

particular importance will be promotion a sustainable transport and removing bottlenecks in key infrastructure Following programming process, within the Adriatic-Ionian transnational cooperation program, of the

economic development in a sustainable manner. The Development Strategy of Waterborne Transport of the Republic of Serbia must contribute to Serbia's

The high level outcomes that the Strategy will produce are:

# **Outcome 1: RENEWAL AND IMPROVEMENT OF THE NATIONAL FLEET**

under the flag of the Republic of Serbia, in accordance with the applicable international standards and national Detailed analysis has confirmed the need for renewal and reconstruction of existing vessels that navigate

transport is the most suitable type of transport for large quantities of goods, order to export or to import. transported by inland waterways in the total volume of goods transport of all transport modes. Inland waterways transported Transport of goods by different transport modes depends directly on the type and quantity of goods being The Republic of Serbia has possibility to become recognizable by a significant percentage of goods

which are adapted to European market cargo fleet of inland vessels quality inland vessels, which are recentlly constructed. It will contribute to preserve the national cargo fleet The Republic of Serbia could be recognized as a country which has under its flag a significant number of

## REPUBLIC OF SERBIA Outcome 2: THE DEVELOPMENT OF THE ECONOMIC POTENTIAL OF PORTS AND HARBORS OF THE

competitive port services means a raising the level of the management of ports to the level of highly efficient Raising the overall level of the quality of services of inland waterway transport through the provision of

goods, providing constantly improving and upgrading of ports in the Republic of Serbia Highly organized and profitable port sector would provide the highest level of the carrier and shippers of

# Outcome 3: DEVELOPMENT OF THE INLAND WATERWAYS IN THE REPUBLIC OF SERBIA

inland vessels large capacity ships, river-maritime ships, containers and other specialized types of vessels waterways of the Republic of Serbia means the development of inland waterway transport for the needs of with huge potential. To achieve European standards of safe navigation on the entire network of international free trade and fair competition and important markets interchanges (relatively undeveloped at the moment) but The Republic of Serbia as a part of the European Union has wide network of waterways with possibility of

level of safety and efficiency of inland waterway transport Widespread use of advanced services provided by the RIS (River Informaton Services) could raise the

priority projects for regular technical maintenance and investment in infrastructure of inland waterways in the Agreement in the sense of dimensions of vessels which are laid down for each category of the waterway Republic of Serbia in the period 2015-2025. It will contribute to fulfillment of requirements of the Upgrading the quality of technical maintenance of waterways will be reached after realization of defined AGN

# Outcome 4: TRAINING AND EMPLOYMENT IN THE FIELD OF THE WATERBORNE TRANSPORT

as prosperity country in waterborne education field variety of industries, including the water traffic. The aim is to recognize the Republic of Serbia by the EU side Commission. Republic of Serbia has a considerable capacity for training, retraining and lifelong learning in a Central Commission for the Navigation of the Rhine, the Danube Commission and the International Sava River inland waterways ships. This problem has been recognized in the institutions and river companies in the whole Europe. Based on joint projects, especially cooperation in the framework of the river commissions such as the On the whole European network of waterways, there is a lack of qualified and professional personnel on

active participation and contribution of the Republic of Serbia. Improved curricula in order to comply with market needs of river transport will be carried out with the

# Outcome 5: DEVELOPMENT OF MARITIME ECONOMY OF THE REPUBLIC OF SERBIA

that are part of the maritime economy. Also, it means creation and maintenance of all business conditions of comprehensive and modern legislative, as well as taxes and overall financial framework for conducting activities European standards and requirements Republic of Serbia will be educated and requested sailors whose education is in line with international and conditions for business of naval ship-owning and management companies. In this regard, the nationals of the maritime companies and industries. The Republic of Serbia can be recognised as a country with competitive development and raising the general level of competitiveness of the Republic of Serbia. This means adopting The aim is to raise awareness about the importance of the maritime industry and related industries for

#### Methodology

Serbia from 2015 to 2025 is set out: The overall process for developing the Development Strategy of Water Transport of the Republic of

- l Define Strategic Objectives
- II Problem Definition
- III Operational Objectives
- IV Specific interventions
- V Assessment
- VI Develop an Action Plan of the Strategy
- framework of the Republic of Serbia in the field of water transport agreements. Republic of Serbia paid attention primarily to international legal framework of inland navigation on the Danube taking into account the EU Strategy for the Danube Region within the priority areas 1a EU Strategy for the within the Development Strategy on Waterborne Transport of the Republic of Serbia 2015 - 2025, primarily Sava and Tisa, which includes mandatory application of the provisions of ratified international conventions and Danube Region - "to improve mobility and Strategic Objectives are defined by the Government of the Republic of Serbia. They are defined also the international legal framework of maritime navigation and existing and planned legislative Also, the Strategy took into account the regulations of the European Union in the field of water multimodality": Inland waterways. In its strategic orientation the

- causes which are responsible for the manifestation of problems, as well as identifying the problems at a spatial level, so that specific objectives and interventions can be identified. Problem Definition is the outcome of a diagnostic of the transport system. It has identified underlying
- subset of the Strategic Objectives III Operational Objectives are related to the specific problems which have been identified, and they are a
- IV Specific interventions will be address to the operational objectives and problems
- Consideration and appraisal for each outcome has been given through SWOT analysis
- precise information on financial effects of strategic measures identified in this Strategy. It is like that, for the Strategy actually defines the frameworks of strategic measures. VI Develop an Action Plan of the Strategy - Action plan is a separate document which will define more

#### Objective setting

and evaluation required during the implementation stage focused to the appraisal and outcomes of the Strategy. Furthermore, the objectives are central to the monitoring Establishing objectives is fundamental for development of any strategy or project. The objectives are

represent overall aims and objectives of the Ministry responsible for transport The strategic objectives of the Government mean clear and concise goals and Strategy delivers it. They

important determinant of prioritisation and programming. The determining factor for projects and policies in the strategy is a national need and availability of funding is an

through, such as problems, provides a hierarchy of objectives. This structure clarifies the logic of the intervention and provides a framework for future appraisal and evaluation. The concept of high-level and operational objectives, which are defined following the thorough assessment of The appraisal process for the Strategy can be considered

or profit, but not always in a direct manner, and development of the Trans-European Transport Network. These are generally objectives which returns benefits High level or strategic objectives - economic development of the country at project level, to aid the

meet the objectives. corridor or transport nodes (such as port), and allowing the interventions which are designed in a precise way to Operational objectives - derived from the detailed examination of problems. They are specific to a

strategic goals in the Strategy should be the achieved legitimate reasons for slower than desired or planned progress in implementation, but defined transport projects or The setting of objectives implies a commitment to follow them through in actions and projects. There may be

The High-Level Objectives for the Master Plan are summarised below:

exceed the cost of investments operators and users themselves are connected. Specifically, the benefits from investments in transport should Economic Efficiency: the transport system should be cost-effective and efficient, as far as the transport

development in the future. and should be developed as a priority. Each activity from this moment should not threaten any possible sustainable modes of transport, such as inland waterway, are more energy efficient and have lower emissions Sustainability: the transport system must be economically, financially and environmentally sustainable. The

Safety: investment in inland waterway transport should produce a safer transport system

and/or provide adequate compensation measures. Environmental Impact: Transport investment should minimize negative impact on the physical environment

nationally, regionally and locally. Economic Development: The transport system should be configured to enable economic development:

programme will have to be within realistic estimate of national and other funds over the plan period Funding: Availability of EU funds will improve potential for implementation of prioritized projects - The overall

# Identifying the Problems and Defining the Interventions

framework for the appraisal of measures for improving the current state of inland waterways. This step in the well as opportunities and constraints. input into the setting of objectives through identifying existing and potential problems on inland waterways, as process is designed to provide an understanding of the need for a transport intervention and to provide strong Problem identification provides a basis for developing the operational objectives which in turn form a

Several sources of information have been used to support problem analysis, including

- Statistical data on current network operations;
- Modelling of current inland waterway network performance;
- Forecasting of future year transport demand and network performance; and
- Consultations with key stakeholders.

and Infrastructure should promote measures necessary for the implementation of this strategy and establishes organizations is crucial for the implementation of this Strategy. Epecially the Ministry of Construction, Transport mechanisms for its implementation subsequently monitoring, evaluation and review. Responsibility and commitment of all relevant ministries and other governmental agencies and

monitoring the implementation of strategic objectives provides results of indicators identified for each objective as a way to manage risks in the process of achieving specific and strategic objectives of the Strategy. Ministry years, report to the of Construction, Transport and Infrastructure is responsible for implementing and achieving the goals set by the transport. Furthermore, the Action Plan will establish in detail the dynamics of enforcement measures, as well well as bodies and institutions whose competences may have an impact on the development of this branch of and funding sources. The Action Plan will establish the obligation of state authorities and organizations in implementation, their holders and participants in the implementation, as well as the manner of implementation Strategy, as well as for activities that will be identified in the Action Plan. This ministry will periodically, every two accordance with the law established by the authority having jurisdiction in the area of waterborne transport, as The Action Plan will treat each strategic measure and determines the appropriate actions for Government on the implementation of the Strategy and Action Plan.

#### Opportunities

policy in the period 2014-2020. New European policy opens significant opportunities for better positioning and development of waterway transport in the Republic of Serbia, which the Strategy envisages for the period from of trimodal spot, manifold ways improves the strategic position of the Republic of Serbia. By establishing a new infrastructure of waterways and their connection to the national network of road and rail traffic at the key points tributaries and potential of ports and harbors, is gaining in importance within the overall European transport network of European corridors, waterway Danube in Serbia, with a length of 588 km, together with its navigable General population is not sufficiently informed of the fact that with a relatively small investment in the

Better visibility of the waterway transport and increase awareness of its importance can be achieved by

- · linking the information on water traffic with information about the activities of other modes of transport
- with the new European policy; rail, but as the optimal complement to the overall transport networks of the Republic of Serbia in accordance providing information on waterways traffic as transport mode that is not competitive neither to road nor
- providing information on the ports as an ideal point of connection of the three main modes of transport;
- of traffic, directions and distances of movement, · identification of the types of goods, its forms, place of origin and end flows of goods and applied aspects
- Analysis of the logistics infrastructure in the catchment area;
- and multimodal transport; science and education to the public at national and international conferences dealing with the theme of water Coordinated and concerted participation of representatives of relevant state institutions, economy,

- transport and logistics; development of water transport and to strengthen the competitiveness of enterprises in the field of water Serbian water clusters are expected activities on the creation and implementation of projects of interest for the Serbian water cluster and slightly older cluster of transport and logistics Vojvodina; of the newly established · promotion of the regular activities of national clusters - a good example of the organization's newly
- Public presentation and publication of the policy documents and legislation in the field of water
- of Serbia and the region; supporting and promoting of EU projects related to waterways and multimodal transport in the Republic
- Active participation in the work of the Danube Commission and the Sava Commission
- Promotion of contemporary curriculum of education, qualification and training in water traffic
- exploiting the possibilities of e-learning in the field of education;
- · supporting the organizations of sailing school, student, educational, environmental and experimental
- is a cruise on the Danube supporting tourism activities and development of a network of the passengers port - as a good example
- harbour, small marina and marina; · supporting plans of local governments in the development of nautical tourism, construction of the

# Current and Future Transport Related Problems

development of the domestic fleet and port infrastructure. It lasted for a decade and resulted in the redirection of transport. It is pointed to the increasingly difficult business in the field of shipbuilding and delay shipbuilding industry, primarily in the territory of AP Vojvodina, the problems are manifested in declining of water cargo to road transport, with a complete absence of combined multimodal transport, as the most functional all available indicators is pointed on the final stages of the crisis in the industry. Due to the poor conditions of the Recent analysis of the state of waterway transport at all levels of the state administration and according to

the Fund inland waterways that can organize economic operators to modernize fleet under the Serbian flag but EU rules allow each Member State within its own national legislation and administrative resources to support Legislation of the Republic of Serbia has not recognize the application of the "new for old" on inland waterways In connection with the "Transport policy" it refers to the rules of competition and social conditions

connections with appropriate modes of transport. meet the technical parameters for the appropriate category, modern container terminals and terminals Republic of Serbia with the big Western European and Black Sea markets is delayed and currently does not a promising possibility. Realization of container transport on the middle and lower Danube, connecting the provide adequate results. For development of transport the containers are the main factor, and they should The development of container transport on the Danube River has been considered for a long time only as

and service providers. In the ports and harbors of the Republic of Serbia intermodal transport units is negligible legal status of ports and their management is governed by the provisions of the Law on Navigation and Ports on the existing port anchorages, or determining their position and size, as some have defined port anchorage. The the moving operations are of low quality, such as productivity, efficiency, long-term increases costs for users Serbia is characterized by relatively poor state of port infrastructure, while port superstructure is obsolete and harbors are of public interest and as such, their port areas are in public ownership. Ports in the Republic of countries with developed transport by waterways, and it is reflected in the fundamental principle that ports and Inland Waters. Part of this Law regulates ports based on comparative and global economic trends applied in all Ports on the local rivers are mostly equipped with standard coastal crane on rails and/or coastal mobile cranes insufficient revenue and thus insufficient opportunities for modernization and maintenance of port infrastructure The association of port rail traffic does not exist or it is insufficiently developed. It is also necessary to analyze Serbia associated with the European TEN-T Corridor Rhine-Danube. Ports should be viewed as a trimodal point, the comprehensive road and rail networks of the Republic of do not fulfill their primary role as the driver of economic development in the region. The low traffic in ports is caused by ್ಷ

documents of local Governments in the period 2015-2025, consistently apply strategic goals of the Republic of Serbia for the expansion of port areas wherever possible. It is essential that the documents of spatial and urban planning, especially in strategic and development

disabled in such critical sectors. Extreme fluctuations in water levels, combined with the effects of climate the Republic of Serbia on these rivers. Reliability, as another important consequence of the physical condition of change, will have a significant stake in the future scope of activities and thus the cost of maintaining the levels that occurs periodically. During these periods of year the navigation is temporarily, partially or fully the waterway is a crucial factor in the modal choice. It is particularly vulnerable during periods of low water available capacity that threatens to turn into a permanent condition and thus jeopardize the strategic position of infrastructure of the waterways financial resources. maintenance, as a result of decades of neglect of this economic sector in terms of insufficient allocation of In terms of waterway infrastructure, the main problem is related to the evident lack of continuous technical The result of this approach is the partial utilization of the waterway in relation to the

# Prioritisation in Actions and Project activities

percentage of growth of real gross domestic product (GDP) of the Republic of Serbia on inland waterways. The script is based on the basic macroeconomic indicators of economic activity - the Within the framework of the Strategy is proposed the growth scenario of total amount of transported cargo

raise environmental awareness of all participants in waterway transport, the shipping company should take care In order to allow rapid adaptation to modern business conditions, improve the safety of navigation and

- Regular ongoing maintenance;
- Mandatory vessel overhaul;
- Maintaining the necessary ships equipment;
- Withdrawal and removal of old and inactive vessels;
- Disposal the ship waste on defined waste collection stations

from 2015 to 2025, which includes: Bearing in mind the traffic forecast, it is necessary to support the development of river fleet in the period

- Renewal of existing vessels and related equipment,
- Ban on import of vessels older than 25 years.
- Acquisition or construction of new vessels;
- Purchase and installation of equipment for the use of RIS;
- type of cargo) · Strategic orientation of the company (specialization) - international / domestic traffic (according to the

Strategic orientation of shipping companies should be directed to:

- Participation in international traffic (import and export) especially in the countries of the region;
- internal transport planning transportation of dangerous goods between internal (domestic) ports, as well as transport of bulk cargo Development of inland traffic (Danube, Sava, Tisa and canal network DTD), in the framework of the
- Participation in combined transport.

number of vessels in accordance with anticipated growth of waterway transport freight until 2025 in the Republic implementation of the modernization program, forecasted quantities in the period from 2015 to 2025 taking into account the European plans to transfer part of necessary if we want to keep the existing transport volume of liquid cargo. It could be increased in line with the transport of Domestic or foreign investment in domestic tanker fleet in a very short period of time, from 2015 is dangerous goods on inland waterways. According to plan, only after could be predictable further investments in increasing the five years of

Strategic objectives for the development of the economic potential of ports and docks will be achieved by:

of discrimination · ensuring a realization of public character of ports and port services available to all users, and exclusion

- prescribing the conditions that ports and harbors must fulfill, in accordance with what Regulation
- operators on the domestic market through a system of approval or port concessions. strengthening of market competition by creating legal conditions for the introduction of new port
- Introduction of clear rules in the field of state aid for the construction of port infrastructure
- ensuring high standards of safety and environmental protection in ports;

undertake the following: In order to solve the problems identified in the port system of the Republic of Serbia, it is necessary to

- balance the needs of investment in port infrastructure and financial capabilities of the state
- port areas to spread primarily on land in public ownership;
- the performance of port activities; provide flexibility in defining the port fees, as well as the terms and conditions for granting approval for
- administration and port management; make unique control procedures and monitoring of port operators and establish a unified system of
- integrate ports into the system of River Information Services.

investments and other. technological dimensioning, applying of technical solutions, construction phasing, and the effectiveness of Quality of port services largely depends on development and maintenance of internal waterways and port In the construction of new ports infrastructure it is necessary to pay special attention to

operation of port operators The construction, equipment, current and investment maintenance of port superstructure, means controlling of

respect modern environmental standards in the planning and design. namely creation of the conditions to safer waterway traffic, more reliable and more efficient transport mode, with It is attainable and realistic goal, to advance the state of the waterways in the period from 2015 to 2025

activities initiated on the preparation of project documentation for the removal of "bottlenecks" for navigation on full integration into the European corridor Rhine-Danube, but by the end of 2017. Also, to continue with all maintenance and creating a prerequisite for the use of the full potential of the Serbian part of the Danube, and thus achieve significant improvement of safety of navigation. It is also necessary to continue with regular Palanka, as well as on the SRB-CRO common stretch of the River, in order to eliminate identified "bottlenecks" execute rive training and dredging works on critical sectors of the Danube River from Belgrade to Backa Waterways can be integrated into a multimodal network to a comprehensive network of roads and railways at the national level effectively connected with the TEN-T Corridor Rhine-Danube. It is necessary to

Winter ports and shelters require great financial investments. Keeping in mind the current economic situation, it emergency situations is necessary in the short term to prescribe the conditions to be met by winter ports, in the case of ice and other

wide across Europe be performed. It is necessary for the Republic of Serbia to establish vessel traffic system (VTS), as it is available Full implementation of RIS on the entire length of the Tisza River through the Republic of Serbia should

#### Overall Strategy

Network (TEN-T). It is a way to deliver growth and competitiveness to the economy. railways, rivers and canals, air, sea and river ports will be converted into a single Trans-European Transport New infrastructure EU policy, if viewed as a whole, the existing fragmented European network of roads

a waterway. Now, corridor Rhine-Danube forms the unique system of waterways, and connects important rail coverage of the EU. In current European politics the Danube River was a priority corridor for itself, but limited as basic network at regional and national level. This will ensure the availability of all regions and complete implementation itself. The new road network will support a comprehensive network that will be included in the and road junction of Central and Southeast Europe with the industrial centers of Germany and France. With this on the basis of organized forums of stakeholders that would be adopted by each state and at the end of the Development Corridor through general guidelines involves an analysis of the corridors and making plans

administrative barriers to multimodal transport and free flow of information. approach, it will be possible to link and integrate transport infrastructure, including ports to remove technical and

national institutional framework in the field of water transport can be considered satisfactory. The purpose of the full implementation of the international legal framework in the field of water transport and concordance of on Inland Waters, the Law on Maritime Navigation and the Law on the Transport of Dangerous Goods. Existing transport in the Republic of Serbia, which provides for the Strategy for the period 2015-2025. All activities procedures on the waterways of the Republic of Serbia on the model of the surrounding EU Danube countries cooperation of the competent authorities in the harmonization of national regulations and administrative legislation in the field of navigation. The important element in achieving the objectives of the Strategy is the and increasing the number of employed experts in accordance with the needs of the application of modern professional potential within the current administration, with a greater emphasis on professional development national legislation with the EU regulations in the period 2015 - 2025. It is necessary to strengthen the relating to water transport are grouped according to the competencies through the Law on Navigation and Ports New European policy open significant opportunities for better positioning and development of water

for good project planning of river infrastructure and the development of water transport in the Republic of Serbia the field of construction, transport, infrastructure, water management and environmental protection is imperative Strengthening the administrative capacity and cooperation of all relevant institutions and organizations in

taken from information provided by the International Monetary Fund (IMF). percentage change in real gross domestic product (GDP) in the Republic of Serbia. The increase in real GDP is Forecast of inland waterways traffic was made on the assumption that the annual total turnover follow the

inland waterways of the Republic of Serbia (domestic transport, import and export) could be 12.5% until 2020 and 36.9% until 2025 compared to the traffic volume in 2012. Based on the adopted methodology it can be concluded that an increase in the volume of traffic on the

basic objective of the increasing the volume of transport on inland waterways of the Republic of Serbia in 2025 to 36.9% compared to the year 2012 Research during the development of the Strategy bring to the conclusion that the real achievement of the

### Executive Summary of the Environmental Report for the Development Strategy on Waterborne Transport of the Republic of Serbia, 2015-2025

line with the relevant Directives and the national legislations. SEA of the development of water transport of the Republic of Serbia from 2015 to 2025 is planned and carried out in assessment object of the SEA is development of water transport of the Republic of Serbia from 2015 to 2025. The Environmental Protection, Republic of Serbia assessment of the effects of certain plans and programmes The requirement to carry out a Strategic Environmental Assessment (SEA) is based on the Article 18 of the Law on Strategic Environmental Impact Assessment of the Republic of Serbia: Ministry of Agriculture and

eliminate potentially negative impacts, measures to increase the positive effects of protection and environmental significant potential significant impacts and propose guidelines and prevention measures, measures to prevent and The SEA process started in parallel with the Draft Strategy, and the purpose is to identify potencial

biodiversity, flora, fauna, air and climate change, landscape and cultural heritage, population and human health The identified environmental issues are water (surface waters, ground water), soil and geological medium energy resources The environmental situation analysis is to be prepared regarding all environmental issues identified

managing ecological corridors, by targeting large-scale riverine networks will naturally decreases the threat of The strategy will have positive effect on water quality, hydrology and natural water bodies. Restoring and

targets too. and vulnerability of water bodies. Disaster prevention and management objectives will support these

during planinig projects. Concerning to objectives of better coordination and the promotion of environmental-friendly transport in the case of river and sea transport water pollution (dredging, waste, ballast waters and oil spills) on hydromorphology (e.g. Changing of flow regime and water level) has to be considered

conditions for sustainable development of water transport by 2025 requirements) and the definition of policies and measures to protect and improve the environment and create Republic of Serbia from 2015 to 2025 is to determine the binding, hierarchical agreed guidelines (environmental The aim of the Strategic Environmental Assessment Strategy for the development of water transport of the

SEA objectives, which shows the synergies and inconsistencies implementation of planing projects. The impact matrix represents the test of the objectives of the Strategy against the Environmental awareness should be emphasized and is required to be taken into account during the

The key objectives include the following:

- Ensure sustainable water management;
- Ensure conservation, improvement and rational use of surface waters and ground water
- Control pollution and reduce inputs of nutrients and hazardous substances
- sources and of accidental pollution incidents; - Reducing organic, nutrient and hazardous substance pollution, prevention and reduction of the impact of
- Improvement of the ecological and chemical status of surface waters and groundwater
- Prevention from and reduction of flood risks;
- Control ice hazards;
- Improvement of waste water treatment and the reduction of nitrate pollution
- Continuous monitoring of water quality.

other sustainability aspects has to be ensured, also in case of energy planning and coordination actions. in only under strict control of and cooperation with authorities effects on hydromorphology, noise, negative impact on landscape). avoid negative side-effects of growing green energy utilization (e.g. through air and noise pollution in sensitive areas. The effective consideration of environmental and possibly transport infrastructure, promotion of sustainable freight transport, waterway maintenance and management effects of the Strategy will primarily be of indirect nature. Supporting of these actions could lead to an increase in land take, fragmentation of habitats and additional impact actions linked to improvement of The majority of the specific objectives refer to improvement of institutional and infrastructural framework and policy tools, capacity building, coordination and transport system and preparation of Special attention planning, thus the Supporting these settlements is suggested one-sided biomass production. strategic investments in regional should be paid to objectives and possible

Formulated specific objectives will contribute to environmental in sence of

- -transnational water management
- -restoration of ecological corridors
- and effectiveness of energy use -sustainability (green transportation, smart and clean energy networks, increasing renewable energy usage
- -improve the preparedness to disaster risk management
- -Environmentally-friendly and safe transport systems
- -Balanced accessibility of urban and rural areas to TEN-T specific objectives
- -improve energy efficiency

and wildlife corridors, and reducing barriers will improve the state of wild habitats, biodiversity and the threatened negative impacts on biodiversity as well as in case of river and sea transport promotion The integration of functional ecological networks and green infrastructures by interlinking natural habitats In case of newly built transport port infrastructures, careful and nature-focused planning might reduce the

generated during the service of a ship. When ship generated waste is not disposed or delivered legally it contributes to pollution of the rivers and may have adverse effects on ecosystems Wastes generated on ships include sewage, domestic and operational wastes (garbage) and cargo residues

environmentally-friendly transport systems. have troubles under the foreseen future conditions. Those areas need improvement in order to create dependent sectors such as agriculture, forestry, navigation and water related energy production are likely to conservation of the Danube river basin. The air and climate issue and the climate change is also a key issue. Water important issue Taking in consideration the main objectives of the Strategy and the characteristics of the region, of the area <u>v</u> water management, including flood risk prevention and the biodiversity

during the implementation phase. and energy system implementations can be minimized if environmental awareness is emphasized and required risk prevention will improve soil quality and help to maintain the soil's functions. Negative impacts of future transport The promotion of green infrastructures, sustainable water and natural heritage management, flood

## Main results and recommendations

The presumably remarkable impacts of the interventions on the environment have been evaluated and as a result, the proposed measures have been presented as well. Relevant interventions need to be handled in a joint manner, with keeping an eye on the possible effects on the different intervention areas