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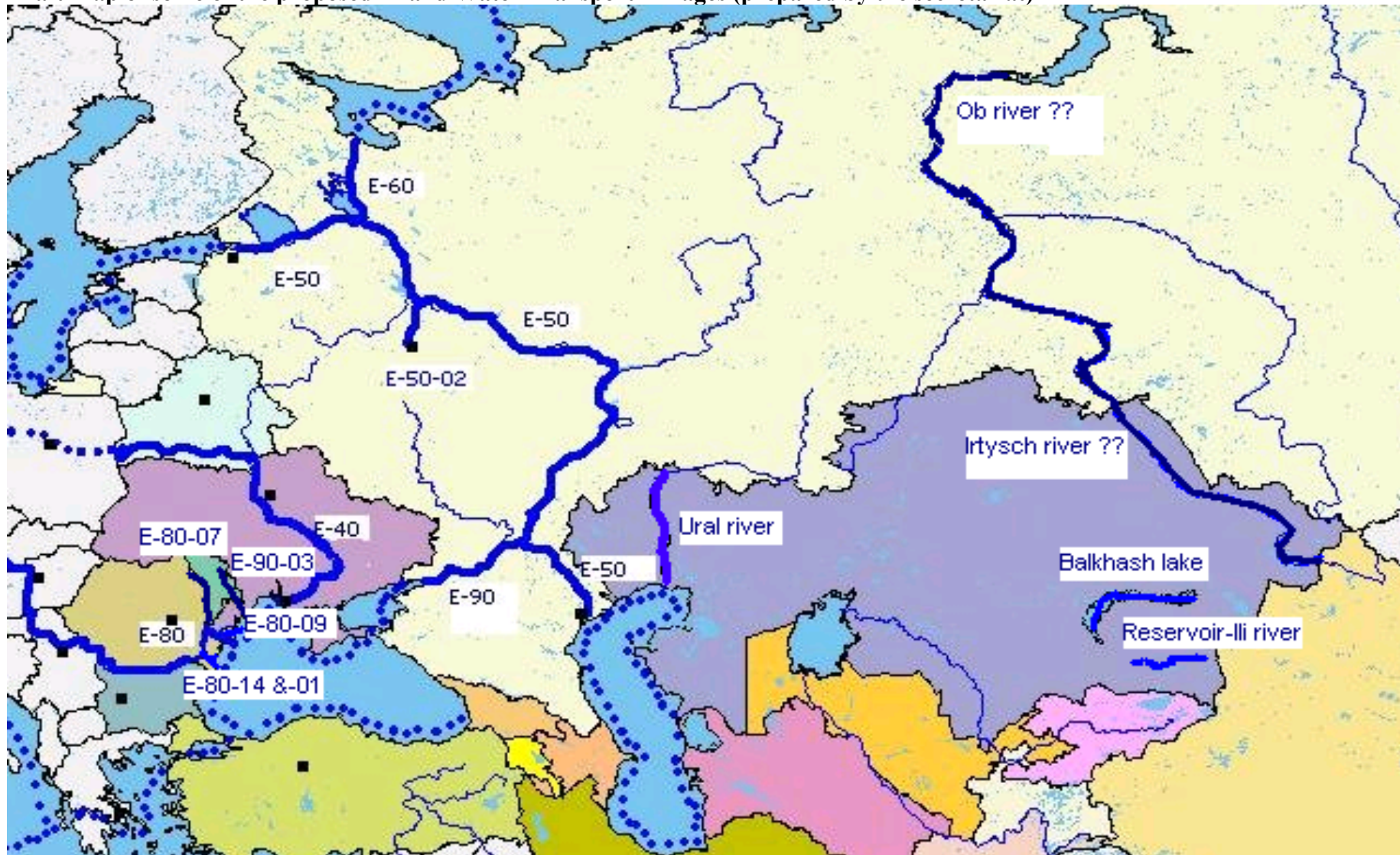
Document 4. Proposed Inland Water Transport Routes and Ports

The present document contains a summary of the inland water transport linkages which were proposed in the Country Reports (Annex 3), together with the information on river ports along these linkages. It is intended to facilitate the discussion under agenda item 4 of the draft agenda, “Proposals for Euro-Asian priority inland water routes and ports”.

The secretariat has prepared a draft map showing some of the IWT linkages proposed (the numbers refer to the European Agreement on Main Inland Waterways of International Importance (AGN)).

Copies of this document will also be available at the meeting.

Draft Map of some of the proposed Inland Water Transport linkages (prepared by the secretariat)



INLAND WATER TRANSPORT LINKAGES											
Country	From - To	E- Number or other international ref. No.	Technical characteristics					Yearly Vessel Traffic [1]	Current Bottlenecks	Current Missing Links	
			Length (km)	Max. admissible	Min. bridge clearance at	Lock dimensions	Permitted operational speed				
											LNWL[2]
Bulgaria	1	DANUBE Km 610.000 - Km 374.100	Corridor VII E-80	236	Russe +107	9.5 m	-	-	2002-1145; 2003 - 1170; 2004 - 850	Km 569, Km 565, Km 535, Km 525, Km 425, Km 405, Km	-
Kazakhstan	2	Sr.Trekinskiy Yar – Peshnoi island – entering buoy of Uralo-Caspian channel (the Ural river)	-	3912	No less than 2,5 m for river vessels, no less than 4,5 m for “river-sea” vessels	No less than 10,5 m for river vessels, no less than 13,5 m for “river-sea” vessels		18 km/hour	In all 552 units, including 402 units of transport fleet, 150 units of technical fleet. On the average the navigation period constitutes 200 days	50 meters	Not available
Kazakhstan	3	Balkhash – Manaral (the Balkhash lake)									
Kazakhstan	4	Kapchagaiskoye reservoir – Borokhudzir – Dubun					Bukhtarminskiy Ust-Kamenogorskiy Shulbinskiy				
Kazakhstan	5	Kapchagaiskoye reservoir – Borokhudzir – Dubun (Ili river)									
Moldova	6	the Prut river from the mouth to Ungheni (0 - 559 km)	E 80-07	559	0.9	6	-	7 km/h	-	The river-bed needs cleaning and dredging .	-
Moldova	7	a. the Nistru river from the port Belgorod-Dnestrovsky (Ukraine) to Bender (0 - 356 km)	E 90-03	356	5	8	-	10 km/h	-	The navigation is beyond the Republic's of Moldova authorities control due to the ongoing “frozen” internal conflict in the eastern region of	
Moldova	7	b. the Nistru river from the port Belgorod-Dnestrovsky (Ukraine) to Bender (357 km - 667 km)	E 90-03	310	1	10	-	10 km/h	-		
Romania	8	DANUBE km. 1.075 - km. 863	Corridor VII E-80	212	3,50 m.	IRON GATE I Km.943	IRON GATE I Km.943	NO LIMIT	7.088 / 2001	No exist	
						10,40 m.	310 m. x 34 m.		9.196 / 2002		
							IRON GATE II Km.863		11.089 / 2003		
							310 m. x 34 m.				

Romania	9	DANUBE km. 863 - km. 175	Corridor VII E-80	688	2,50 m.	Giurgeni Bridge; km. 237.80; 17.70 m.		NO LIMIT		Salcia * (km. 824); Bogdanu (km. 785); Pietrișu (km. 759); Linovo (km. 738); Păpădia (km. 677); Băloiu (km. 630); Turcescu (km. 345); Caragheorghe (km. 344); Lebăda (km. 337); Mârleanu (km. 326); Fermecatu (km.320); Cernavodă Aval (km. 297); Seimeni (km. 292); Albănești (km. 276); Hârșova (km. 251); Giurgeni Vadu Oii (km. 243)	
Romania	10	DANUBE km. 175 - Mm. 0	Corridor VII E-80	175	7,62 m.	Electric cable		Max.	2001 / 1516		
			Sea going vessels up to 30,000 TDW could navigate			Mm.54,100		10 Nd	2002 / 1626		
						55,00 m.			2003 / 1798		
Romania	11	The Danube – Black Sea Canal	E-80-14	64,4	7,50 m.	17,00 m.	Lock Cernavoda	Max.	2001 / 96		
							310 m. x 25 m.	12 Km./h	2002 / 169		
							Lock Agigea		2003 / 199		
							310 m. x 25 m.				
Romania	12	The Poarta Alba – Midia – Navodari Canal	E-80-14-01	30,0	5,50 m.	13,50 m.	Lock Midia	Max.	2001 / 86		
							145 m. x 12,5 m.	12 Km./h	2002 / 57		
							Lock Ovidiu		2003 114		
							145 m. x 12,5 m.				

Russian Federation	13	St Petersburg - Svir - Cherepovets - Rybinsk - Nizhniy Novgorod - Kazan - Samara - Saratov - Volgograd - Krasnoarmeysk - Astrakhan (port) - Caspian Sea (includes Volgo-Baltiyskiy Vodniyput)	NSW E-50	* Information on Russian Federation's IWT proposals taken from National Country Report. Further data on the linkages to be sought from the Government.							
Russian Federation	13A	(Rybinsk) - Moskva - Riazan Nizkhniy Novgorod (includes Kanal im. Moskvi)	NSW E-50-02	* Information on Russian Federation's IWT proposals taken from National Country Report. Further data on the linkages to be sought from the Government.							
Russian Federation	14	Azov - Rostov-na-Donu - Oust-Donetsk - Krasnoarmeysk - Astrakhan (port) - Caspian Sea	NSW4, NSW E-90	* Information on Russian Federation's IWT proposals taken from National Country Report. Further data on the linkages to be sought from the Government.							
Russian Federation	** National Country Report also refers to the Amur, Lena, Ob, Enisey, and Irtish rivers for TRANSIB corridor										
Ukraine	15	Route №9 Dniper river (on regulate condition)	Class Vb (thoroughfare 1 - 2 groups) with index E-40	Total Length - 2285 km. On Ukraine - 1004 km (Liubech-uste)		In Kiev, in Kanev, in Kremenchug, in Dneprodzerzhynsk, in Zaporizhia (one- and threechamber) in Kakhovka	No limited	3,500	Is needed rock cleaning works on section Dneprodzerzhinsk - Dnepro-petrovsk	Navigation canal Danube – Black sea	-
Ukraine	16	r. Danube, boulder between Ukraine - Moldova cape Izmailskii Chital	E – 80	54	5 в/п Reni (above «0» в/поста, см)	-	None arranged	-	-	-	-
Ukraine	17	Kiliiskoe river-bed Danube, cape Izmailskii Chital - mouth Kiliiskogo river-bed (Canal Prova)	E – 80 – 09	116	15 в/п Kiliia (above «0» в/поста, см)	-	None arranged	-	-	Deep-water navigable connection Danube and Black sea on channel Kiliiskomu and	-

RIVER PORTS											
Country	No	Name and location	Technical characteristics						Working days / hours	Available services (pilotage -towage- Fire fighting-water bunkering)	Annual throughput (tonnes and TEU) For the year 2003
			Maximum draft of vessels served (m)	Ships berths available (m)	Types of ships handled (Dry cargo-bulk-container-Ro/Ro Passenger)	Handling facilities	Bulk cargo handling capacity (tonnes/day)	Container handling capacity (TEU/day)			
Bulgaria	1	PORT COMPLEX ROUSSE; Km 489 300, km 496 050;	3	25-3 038	General and bulk cargo containers	2 x 32 t; rail	-	-	175 800; 24 700;		
Bulgaria	2	ROUSSE EAST	3	14	General and bulk cargo containers, Ro-ro terminal	Bridge cranes; 2 x 32 t; 3 x 20 t; 3 x 16 t; 5 x 10 t; 4 x 5 t; rail; road	800 t	50	148 200; 15 800; 32 300 – Parking Ro-Ro	Monday to Friday; 8:00-16:30h; Saturday and Sunday; Shifts on duty from 8:00 to 19:00	yes 2000-752 805 t; 2001-735 655t; 2002-859 129 t
Bulgaria	3	ROUSSE WEST	2.5	9	General and bulk cargo	Bridge cranes 3 x 20 t; 1 x 10 t; 7 x 5 t; rail; road	450 t	-	27 600; 8900	Monday to Friday 8:00 – 16:30h; Saturday and Sunday Shifts on duty from 8:00 to 19:00	yes 2000-241 127 t; 2001-264 561 t; 2002-328 472 t
Bulgaria	4	PORT COMPLEX LOM; Km 742 300;	1.8	13 x 1 335 m	General and bulk cargo	2 x 20 t; rail	11 000t/day		60 200; 8 453;	Every day 7:30-19:30	Water and electrical bunkering, port 2000-927 000t; 2003-722 000t
Bulgaria	5	PORT VIDIN; From km 785 400 to 793 500	2.4	4 x 318m	General and bulk cargo	-	876t/day		19 600	Every day 7:00-19:00	Water and electrical bunkering, 2000- 270000t; 2003-210 000t
Kazakhstan	6	Atyrau River Port	1,2	228m	Dry cargo	Portal cranes: 5t, 12t, 16t, dead-end siding (rail)	Up to 1000 tonnes	—	Open 5,0282 hectares	40 hours per week	Pilotage – towage Exctraction of stern shell 2000r.- 1600t; 2001r. – 8600t; 2002r. – 8600t; 2003r. – 23400t; cargo transported: 2001r. – 14400; 2002r. – 23200; 2003r. – 23400;

Kazakhstan	7	Pavlodar River Port	1.6	freight: 650; passenger: 120	Dry cargo	Portal cranes - type 10-30 – 7 units. - type 5-30 - 1 unit. For transshipment to rail/road transport, siding tracks/roads - 3.9 km; floating crane 1 unit.	13200 tonne		Open storage space 20000 cover ed storage space 2000	Twenty-four-hour without week- ends	Towage, garbage collection	2000r. – 56000т; 2001r. – 108000т; 2002r. – 178000т; 2003r. – 136000т
Moldova	8	Bender P 90-03-02 (the Nistru, km 228.0)	1.0 m	300 m	Barges	3 cranes	-	-	100 m2	in the day time	-	-
Moldova	9	Rîbnița	1.0 m	250 m	Barges	1 crane	-	-	100 m2	in the day time	-	-
Moldova	10	Ungheni	0.9 m	-	Barges	1 trans- shipper	300	-	-	in the day time	-	40000 t
Moldova	11	Giurgiulești P 80-62 (the Danube, km 133.0)	3.0 m	100m	-	-	1000	-	-	in the day time	-	-
Romania	12	Sulina km.0	4.60 – 7.00	2.13								

Romania	13	Tulcea km.71	3.00 – 7.50	1.54		macarale minereu	5		31			
Romania	14	Galati km.150	4.00 – 7.30	8.21		macarale minereu	30		176.460 / 14.100			
Romania	15	Braila km.170	6.00 – 7.50	4.58								
Romania	16	Giurgiu km.493	2.00 – 3.50	2.4								
Romania	17	Calafat km.795	3	700								
Romania	18	Drobeta Turnu Severin 931	4.00 – 4.50	830								
Romania	19	Orsova km.954	4.2	500								
Romania	20	Moldova Veche km.1048	3	300								
Tajikistan	21	Nizkhniy Panj (Republic of Tajikistan) Sherkhan-Bandar (Islamic Republic of Afghanistan)	2-2.5 mm		combined				Open premise; platform of the closed warehouse	6 days		. 12 t-cargo; . 10 t(thousand?) passengers
Tajikistan	22	Nizhniy Panj (Republic of Tajikistan) - Sherkhan-bandar (Islamic Republic of Afghanistan)	205-3 mm		combined				Platform Storehouse in a premise	after receipt of cargo		for 2 months, 341 tonnes - cargo, 56 passengers
Ukraine	23	Reni, 128 km Danube	7.2	3611	Universal, bulk cargo, tankers Ro/Ro	Portal crane, bridge crane, autocrane, autoloader, scoop loader, ports tractor.		Open - 165,2 Covered - 28,9	Daily, round the clock	Pilot installation; tow provision, bunker, Winter anchorage of ship, repair shipping; calculation of carriage and automobile.	2004	Foresee of building special complex for transshipment corn, compound animal feedingstuff, condensed gas; building sea berth for ships Ro/Ro types.
Ukraine	24	Izmail, 93 km Kiliiskogo channel Danube	7.2	2172	Universal, containership, bulk cargo, passenger ships	Portal crane, autoloader, auto- and caterpillar cranes	500	Open - 165,2 Covered - 28,9	Daily, round the clock	Pilot installation; tow provision, bunker, Winter anchorage of ship, repair shipping; calculation of carriage and automobile.	5642 (5)	Foresee building of two berths, for ships Ro/Ro type; widening railways. Approach to port.

Ukraine	25	Kiliia, 48 km Kiliiskogo channel Danube	2.8	150	Universal	Portal crane, caterpillar automobile crane, complex for corn surcharge	500	Open - 17,6 covered - 0,9	Ежеднев-но круглосу-точно	Pilot installation; tow provision; repair shipping	90 (2001r.)	Foresee building of two berths, for ships Ro/Ro type; widening railways. Approach to port.
Ukraine	26	Ust'-Dunaisk, Zhebrianska bay Black sea	10	150	Universal, bulk cargo, lighter.	Floating crane	500	Open - 17,6 Covered - 0,9	Daily, round the clock	Pilot installation; tow provision; anchorage of ship	622	Is necessary reconstruction of connecting channel.
Ukraine	27	Belhorod-Dnestrovskii (Dnestrovskii., Black sea)	4.8	1197	Universal, bulk cargo.	Portal, caterpillar and automobile crane, floating crane, loader, conveyer for load corn	500	Open - 74,5 covered - 16,7	Daily, round the clock	Pilot installation; tow provision; anchorage of ship; special works with wood and chemical fertiliser, calculation of carriage and automobile.	657	Is Planing: - Lengthening berthage for 100 m, reconstruction and updating tranship equipment; - widening storage area for 20 thousand m2 and installation part of berth portal and trestle crane.
Ukraine	28	Mykolaiv, Bugskii lim., Black sea	10	2298	Universal, containership, bulk cargo.	Portal crane, autoloader, port tractor trailer, scoop loader, special complex for transhipment corn, chemical cargo	200	Open - 150,8 Covered - 27,0	Daily, round the clock	Pilot installation; tow provision; anchorage of ship; repair of shipping.	4241 (12)	Continued building and reconstruction berth; is necessary widening railways. Approach to port.
Ukraine	29	Kherson, 28 km Dniper river	7.6	1282	Universal, bulk cargo	Portal cranes, autoloaders, bulldozers, port tractors, conveyer equipment, station for discharge of carriages.	200	Open - 26,2 Covered - 18,5	Daily, round the clock	Pilot installation; tow provision.	2512	Is building new deepwater berth in Ochakov. Is necessary widening railways. Approach to port.

Ukraine	30	PJSC «Cherkaskii river port»,		591	All types of river ships and ships mixed types sea-river carrying capacity 1.0-5.0 thousand ton	Railway siding.	Power is limited of capacity by surcharge machines and by area of operative zone	7 125	Daily, round the clock	Tow	116,0	Inviting of freight flow of highcost goods. Increasing processing local construction materials
Ukraine	31	PJSC «Kremehugskii river port», r. Dnepr lower bridge over Dnepr	Depth near berth wall 2.0-3.3 м	644	All types of river ships and ships mixed types sea-river carrying capacity 1.0-5.0 thousand ton	Railway siding, Ports crane - 7 units Boating crane - 1unit Trestle crane -1unit hydrosand loader 1 unit ferro-concrete berth way	Power is limited of capacity by surcharge machines and by area of operative zone	22850 288	Daily, round the clock	Bunkering, clearance polluting environment	169.4	Processing organisation of corn. Inviting of local highcost freight. Increasing processing goods of local mineral-building materials
Ukraine	32	PJSC «Dneprodzerzhinskii river port», right bank Dnepr river, in 2 km lower dam of Dneprodzerzhnsk reservoir	Depth near berth wall 2.5-3.4 м	290	All types of river ships and ships mixed types sea-river carrying capacity 1.0-5.0 thousand ton	Railway siding, ports crane - 3 units. Boating crane - 2 units. Trestle crane 1 units.	Power is limited of capacity by surcharge machines and by area of operative zone	3795	Daily, round the clock	Tow	119.9	Inviting of local highcost freight. Increasing processing goods of local mineral-building materials. Building new railways along bound of berth
Ukraine	33	Offspring «Dnepropetrovskii river port» Stock insurer company «Ukrrechflot», right and left bank of Dnepr	Depth near berth wall 2.0-4.0 м	1,973.00	All types of river ships and ships mixed types sea-river carrying capacity 1.0-5.0 thousand ton	Railway siding, ports crane - 29 units. Boating crane - 3 units, berth (corn elevator) эстакадный причал (зерновой элеватор)	Power is limited of capacity by surcharge machines and by area of operative zone	44972 2 592	Daily, round the clock	Tow, bunkering, clearance polluting environment	1473.1	Processing organisation of corn. for this processing is using berth for fast shipment of coal. Target building of transshipment complex for corn with conveyer line and storage for corn c. 15 20 thousand ton.

Ukraine	34	Offspring «Zaporozhskii river port» Stock insurer company «Ukrrechflot», Dnepr river, top and bottom part of dam Dneprs hydroelectric power station	Depth near berth wall minimum 4.0m, container berth - 3.0 м	2675	All types of river ships and ships mixed types sea river carrying capacity 1.0-5.0 thousand ton	Railway siding, ports crane - 30 units boating crane - 1 unit,	Power is limited of capacity by surcharge machines and by area of operative zone	46950 1000	Daily, round the clock	Tow,bunkering, clearance polluting environment	1515.8	
Ukraine	35	PJSC «Novo-Kachovskii river port», top part of dam Kachovska hydroelectric power station	Depth near berth wall 3.3-4.4м	420	All types of river ships and ships mixed types sea river carrying capacity 1.0-5.0 thousand ton	Missing railway siding, port crane - 4 units, boating crane - 2 units, trestle crane - 1 unit.	Power is limited of capacity by surcharge machines and by area of operative zone	22 600, кроме того 37 000 (естественный берег) 315	Daily, round the clock	Tow,bunkering, clearance polluting environment	163.6	
Ukraine	36	Offspring «Khersonskii river port» Stock insurer company «Ukrrechflot», right bank of Dnepr bottom downstream from Khersonskogo sea port	Depth near berth wall 3.0-4.5м	795.5	All types of river ships and ships mixed types sea river carrying capacity 1.0-5.0 thousand ton	Railway siding, ports crane - 10 units, boating crane - 4 units, trestle crane - 1unit. Hydrosand loader - 1 unit.	Power is limited of capacity by surcharge machines and by area of operative zone	22406 1 500	Daily, round the clock	Tow,bunkering, clearance polluting environment	401.5	
Ukraine	37	Offspring «Nikolaevskii river port» Stock insurer company «Ukrrechflot», р. Iuzhnii Bug	Depth near berth wall 5 - 5.8 м additional berth 2.5 - 3.0 м	751 (additional berth) – 216 м	All types of river ships and ships mixed types sea river carrying capacity 1.0-5.0 thousand ton	Railway siding, Ports crane – 13 units. Boating crane – 5 units.	Power is limited of capacity by surcharge machines and by area of operative zone	31 470 729	Daily, round the clock	Tow,bunkering, clearance polluting environment	886 (90% экспортных грузов)	