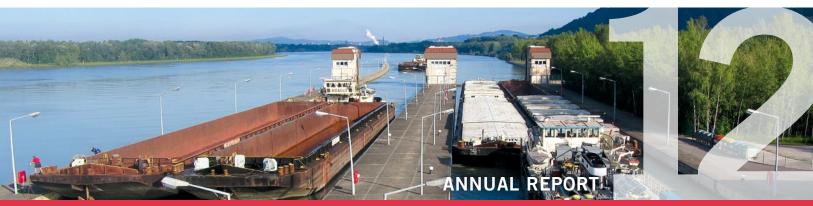
DANUBE NAVIGATION IN AUSTRIA



KEY DATA ON DANUBE NAVIGATION 2012

Changes from 2011 are given as percentages in brackets

10.7 million tons (+7.8%)	Import: 5.4 million tons (-2.3%)					
	Export: 1.6 million tons (+5.0%)					
	Transit: 2.4 million tons (+6.3%)					
	Domestic: 1.3 million tons (+119.4%)					
TRANSPORT PERFORMANCE						
10.5 billion tkm (+9.8%)	Within Austria: 2.2 billion tkm (+3.2%)					
9,481 loaded journeys (-8.2%)	Outside Austria: 8.3 billion tkm (+11.7%)					
WATER TRANSHIPMENT AT AUSTRIAN	PORTS AND TRANSHIPMENT SITES					
9.5 million tons (+15.8%)	Ores and metal waste: 2.9 million tons (+0.2%)					
	Petroleum products: 2.4 million tons (+3.9%)					
	Crude and manufactured minerals, building materials: 1.7 million tons (+316.4% Fertilisers: 0.7 million tons (-8.5%)					
	Agricultural and forestry products: 0.5 million tons (-19.8%)					
	Other goods: 1.3 million tons (+26.3%)					
VESSEL UNITS LOCKED THROUGH AU	STRIAN DANUBE LOCKS					
93,016 vessel units* (-5.1%)	Freight transport: 59,443 units (-6.8%)					
93,016 vessel units* (-5.1%) *Convoys and individual vessels						
	Freight transport: 59,443 units (-6.8%) Passenger transport: 33,573 units (-2.0%)					
*Convoys and individual vessels	Freight transport: 59,443 units (-6.8%) Passenger transport: 33,573 units (-2.0%)					
*Convoys and individual vessels PASSENGER TRANSPORT (INCL. ESTIN	Freight transport: 59,443 units (-6.8%) Passenger transport: 33,573 units (-2.0%) MATION)					
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*Convoys and individual vessels PASSENGER TRANSPORT (INCL. ESTIN 1.1 million passengers (-6.9%) ACCIDENTS 19 traffic accidents with damage	Freight transport: 59,443 units (-6.8%) Passenger transport: 33,573 units (-2.0%) MATION) Liner services: 670,000 passengers (-4.3%) River cruises: 290,000 passengers (-12.1%) Non-scheduled services: 120,000 passengers (-7.7%) Personal injuries: 0 dead, 7 slightly injured Damage to property: 2 vessel-vessel, 2 grounding incidents,					

Source: Statistics Austria; Supreme Navigation Authority at the Federal Ministry for Transport, Innovation and Technology; Federal Office of Transport; diverse companies active in passenger transport

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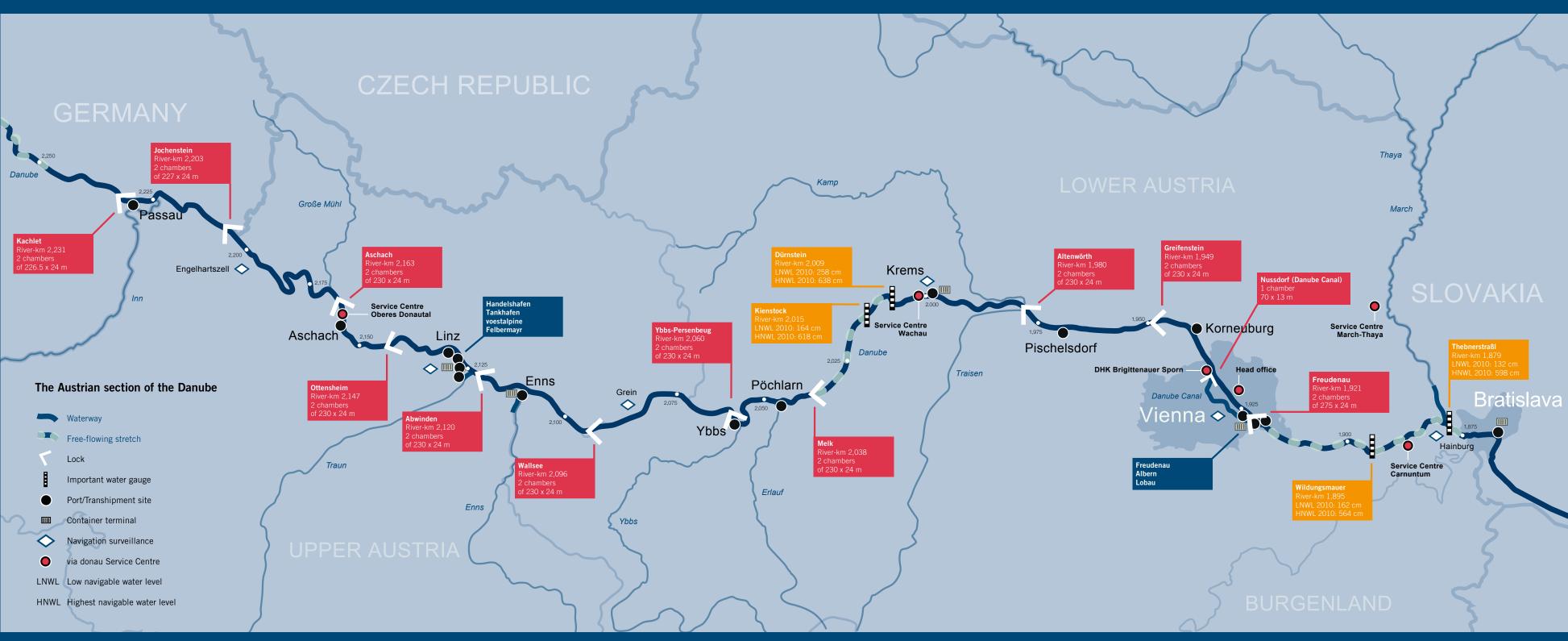
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NEW IMPETUS FOR INLAND WATERWAYS CONSERVATION AND DEVELOPMENT



One of the important tasks of via donau is to provide political and economic decision-makers, interested experts along with the interested public with up to date information about the Danube waterway. Our aim is to identify the potentials of Danube navigation and broaden the knowledge of this mode of transport, in order to contribute to the maintenance and development of the Danube as an international waterway. In addition to offering the latest statistics on Danube navigation in Austria, this sixth edition of the annual report provides information on Danube-related projects and activities revolving around the issues of transport function, infrastructure, environment, safety and economy.

A milestone of the previous year was the launch of the Bad Deutsch-Altenburg pilot project on the freeflowing section of the Danube to the east of Vienna in March 2012. What makes this project unique is its special riverbed stabilisation technology which is being tested for the first time anywhere in the world and which is intended to halt the progressive degradation of the Danube on this stretch of the river. The annual report reflects the integrated and holistic approach pursued by via donau, attaching equal importance to the dimensions of environment, flood control and economy.

Hosenbille

DISCOVERING NEW POTENTIALS INCREASED USE OF DANUBE TRANSPORT

The development and promotion of the Danube waterway and an increased use of inland waterway transport are important elements of a future-oriented and sustainable transport policy. In 2012, the Austrian Federal Ministry for Transport, Innovation and Technology published the new Transport Master Plan for Austria in which the goals and strategies of a comprehensive transport policy up until 2025 are defined. Forming one of the priority areas of the EU Strategy for the Danube Region, waterway transport on the Danube will play an important role in this respect. As an environmentally-friendly and efficient transport mode, waterway transport is an excellent complement to rail and road transport. Many businesses along the Danube have already come to appreciate the resource-friendly and cost-efficient alternative that inland navigation provides for the transportation of their goods. We intend to further raise both commercial and public awareness to the advantages and opportunities presented by inland waterway transport. Together with via donau, my ministry is working towards the further enhancement of the usability of waterways as a mode of transport. The following annual report is intended to provide you with an overview of facts, figures and initiatives in the field of Danube navigation. It also illustrates the enormous economic relevance of inland waterway transport and the ever increasing importance of the role that intelligent transport systems will play in the future.

Dog Juces

HANS-PETER HASENBICHLER Managing Director of via donau

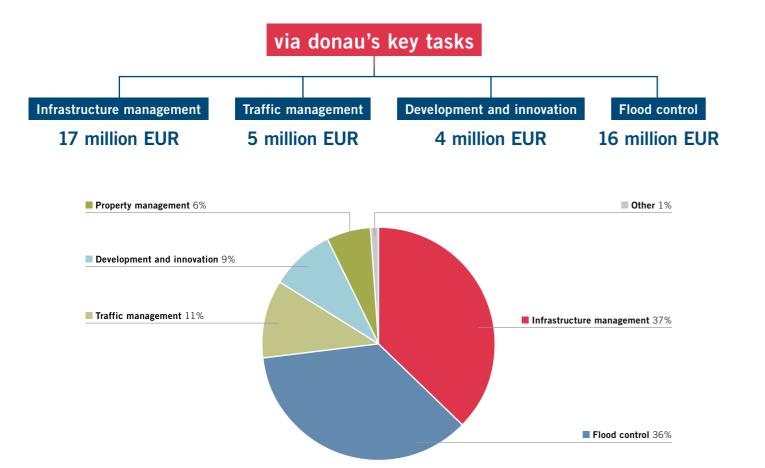
HASENBICHLER Managing Director of via donau



DORIS BURES

Federal Minister for Transport, Innovation and Technology

rederal Minister for Transport, Innovation and Technology



SOME INTERESTING FIGURES

- The Austrian waterway operator via donau ...
- → maintains 350 km of waterways
- → ensures the maintenance of 500 km of towpaths
- → manages 200 km of flood protection dams
- → maintains 800 km of river banks

- → manages about 600 properties
- → handles about 100,000 vessels passing through the Danube locks per year
- operates the DoRIS (Donau River Information Services) navigation information system on the Austrian Danube, consisting of 23 base stations and one control centre

VIA DONAU

OUR COMPANY INNOVATION AND MAINTENANCE

via donau – Österreichische Wasserstraßen-Gesellschaft mbH was established in 2005 by the Austrian Federal Ministry for Transport, Innovation and Technology (BMVIT) and was tasked with the **maintenance and development of the Danube waterway**. Today, it is the internationally leading waterway operator in the Danube region.

Building on its employees' expert knowledge in the fields of infrastructure management, navigation, electronic information and navigation systems, logistics, flood control and ecological river engineering, via donau provides services to public authorities, businesses, recreation seekers and residents living along the Danube.

In rendering these services, the main emphasis is placed on the sustainable development of the Danube region as both a living space and an economic area. The **environment, safety** and the **economy** are considered by via donau to be inter-communicating systems which ensure Austria's

VIA DONAU

Owner: Federal Ministry for Transport, Innovation and Technology (BMVIT)

Tasks: Maintenance and development of the Danube waterway, as defined in the 2004 Waterway Act (Federal Law Gazette 177/2004 of 30 December 2004)

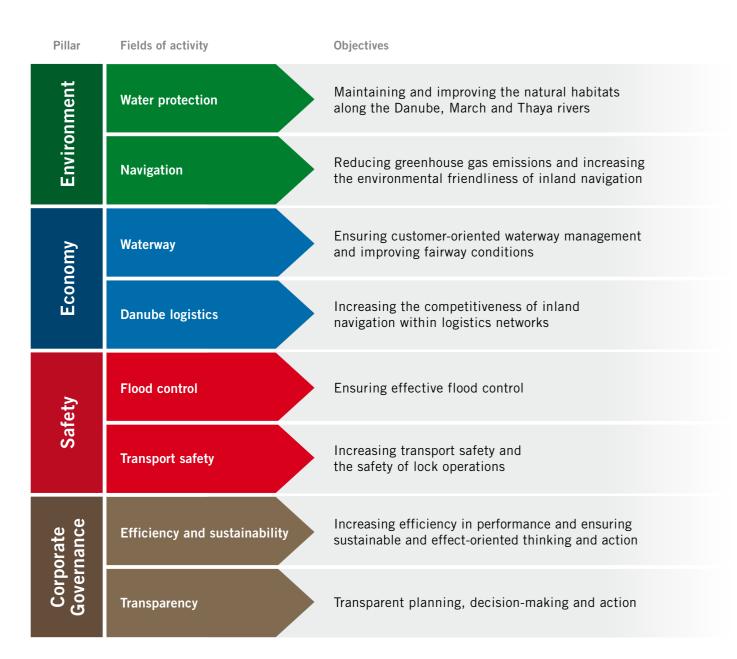
quality of life as well as its role as a location for business, thereby making the Danube region a secure place to live for both people and nature, not only today but also in the future.

- The realisation of this ambitious and future-oriented vision for the Danube region is based on modern corporate structures, performance-enhancing working conditions and a responsible perception of the company and its activities. This is also reflected in via donau's corporate values:
 - → Responsibility for people and the environment
 - → Innovation and leadership in the Danube region
 - → Efficient performance
 - Transparent planning, decision-making and reliable action
 - → Personal initiative and entrepreneurial thinking and action
 - → Respect and appreciation for others

Head office: Tech Gate Vienna (1220 Vienna)
via donau Service Centres: Oberes Donautal (4082 Aschach),
Wachau (3500 Krems), Carnuntum (2405 Bad Deutsch-Altenburg),
March-Thaya (2261 Angern), DHK Brigittenauer Sporn (1200 Vienna)
Web: www.via-donau.org

7

FOUR PILLARS OF CORPORATE ACTIVITY



VIA DONAU

STRATEGY 2020 FOUR PILLARS OF SUSTAINABILITY

In order to lead the company into a sustainable and successful future, via donau has developed a strategy paper which will facilitate strategic corporate management up until 2020.

ENVIRONMENT

Water protection: via donau is a leading force in near-natural river engineering and innovative water protection practices on waterways and other bodies of flowing water in Europe. Activities in this field are, above all, based on the European Water Framework Directive, national water management plans and the National Action Plan for Danube Navigation and are integrated into an environmental management system and a broad network of cooperation partners.

Navigation: via donau is introducing the specific requirements of the Danube region into European research on nautical/technical innovations and climate change and is involved in initiating and developing projects on waste prevention and its disposal in the navigation sector.

ECONOMY

Waterway: via donau ensures active and customer-oriented waterway infrastructure management in Austria. In doing so, via donau is able to faof sustainability and efficiency. All activities performed by via donau are cilitate the planning of freight transport operations which contributes to an increased use of the waterway, thereby enhancing the creation of wealth ment systems in the region. At an international level, via donau is making a significant Transparency: As a public enterprise, via donau attaches particular imcontribution to the development of European strategies, programmes and portance to reliable transparency of its actions and open communication guidelines for inland navigation

Danube logistics: via donau actively supports the sustainable integration of the Danube waterway into the overall transport system along with the integration of Danube navigation in multimodal logistics chains, thereby contributing to the strengthening and safeguarding of Austria's role as a location for business.

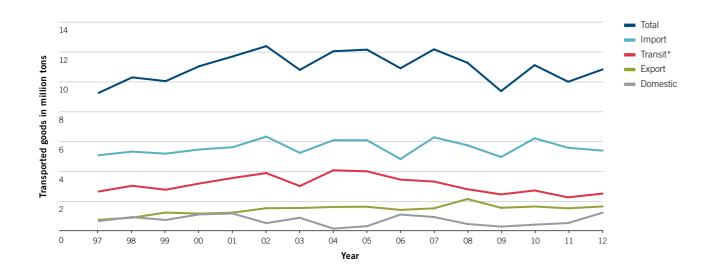
SAFETY

Flood control: via donau supports water rights authorities and flood protection associations with the protection of the population, buildings and infrastructure along the Danube, March and Thaya rivers from the effects of flood events.

Transport safety: In its capacity as the operator of the Danube's locks and River Information Services (RIS), via donau ensures predictive traffic management in line with the requirements of waterway users and in doing so helps to enhance traffic safety and transport efficiency on the Danube.

CORPORATE GOVERNANCE

Efficiency and sustainability: By applying an integrated approach to the performance of its key tasks, via donau is setting new standards in terms optimally integrated and coordinated through the use of modern manage-



TRANSPORT VOLUME (TONS)	Import	Export	Transit ^{*)}	Domestic	Total
2012	5,438,844	1,623,701	2,411,351	1,240,111	10,714,007
2011	5,564,222	1,545,722	2,268,157	565,187	9,943,288
2010	6,199,870	1,667,805	2,727,772	456,632	11,052,080
2009	4,945,292	1,581,387	2,465,668	329,463	9,321,810
2008	5,730,621	2,166,354	2,809,508	502,228	11,208,711

*) Due to a lack of statutory resources, there are no complete records for transit data for the years 2004 and 2005. Since 2005 figures have been extrapolated by Statistics Austria.

Source: Statistics Austria; chart and table created by via donau

TRANSPORT VOLUME

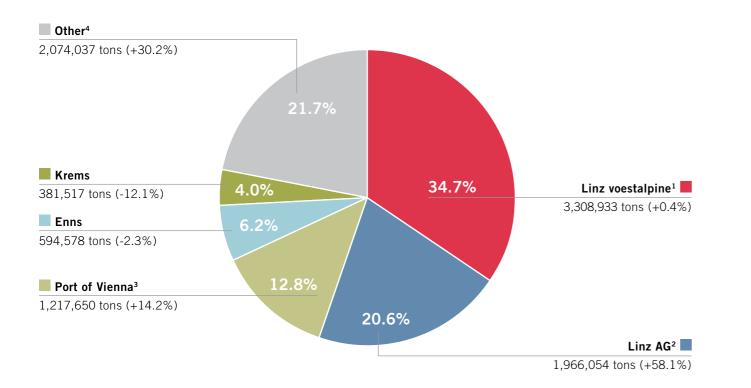
GROWTH IN ALL SEGMENTS EXCEPT IMPORTS 7.8% INCREASE IN GOODS TRANSPORTED

Transport volumes on the Austrian section of the Danube recorded a slight With regard to **imports**, however, transport volumes decreased by 2.3% increase in all transport segments (with the exception of imports) from that or 125.378 tons to 5.4 million tons from that of 2011, with 77% of goods of 2011. In 2012, approximately 10.7 million tons of goods were transportentering Austrian territory from the east. The largest quantitative drop in ed on the Austrian Danube, corresponding to an increase of 7.8% or 0.8 imported goods volumes was observed in the commodity groups of agrimillion tons in comparison to 2011. This figure is 14.9% or 1.4 million tons cultural and forestry products (-164,501 tons) and petroleum products higher than the results achieved in the crisis year of 2009. (-83,760 tons). Accordingly, transport performance (transport volume multiplied by dis-In 2012, the strongest growth in cross-border transport volumes on the

tance) within Austria's borders rose by 3.2% to 2.2 billion ton-kilometres. Total transport performance increased by 9.8% to 10.5 billion ton-kilometres. The number of loaded journeys undertaken on the Austrian section of the Danube, however, fell by 8.2% from 10,325 to 9,481, which can be taken as a clear sign of a higher level of vessel capacity utilisation. The average transport distance per ton was 1,024 kilometres for imports, 811 kilometres for exports, 1,474 kilometres for transit transport and 81 kilometres for domestic transport.

As far as **exports** were concerned, 1.6 million tons of goods were transported by inland vessels in 2012, corresponding to a rise of 5.0% or 77,979 tons over 2011. In this transport segment, 53% of the goods crossed the eastern border and 47% crossed the western border of the Austrian territory. Within this segment, the highest increase in the volume of transported goods was in petroleum products (+99,713 tons) and agricultural and forestry products (+21,623 tons).

- Austrian Danube was seen in transit transport. In this segment, the quan-
- tity of transported goods rose by 6.3% or 143,194 tons to 2.4 million tons, with 83% of the goods being carried upstream and 17% downstream. The transport volume reported for transit journeys represents an extrapolated figure due to the fact that Statistics Austria uses an estimation model to
- compensate for the current underreporting of transit transport Finally, domestic transport on the Austrian section of the Danube waterway increased by a staggering 119.4% or 674,924 tons to 1.2 million tons. However, this rise can be fully attributed to the waterway transport of raw materials used as landfill for the three port basins at the port of Linz to reclaim land for the construction of a logistic park.
- The share of the individual transport segments in total waterway freight transport in 2012 are as follows (changes over 2011 are indicated as percentages in brackets): 50.8% imports (-5.2%), 22.5% transit transport (-0.3%), 15.2% exports (-0.3%) and 11.6% domestic transport (+5.9%).



TOTAL: 9,542,769 tons

Source: Statistics Austria; chart created by via donau

1) Including water transhipment at the transhipment facility of Industrie Logistik Linz GmbH

2) The figures for the Linz site combine the transhipment volumes of the commercial port and the oil port.

3) The figures for the Vienna site combine the transhipment volumes of the three ports of Freudenau, Albern and the Lobau oil port.

4) Other ports and transhipment sites: Aschach, Wilhering, Linz heavy cargo port, Mauthausen, Wallsee, Ardagger, Ybbs, Pöchlarn, Pischelsdorf, Korneuburg, Bad Deutsch-Altenburg

PORT TRANSHIPMENT

GROWTH OF NEARLY 16% INCREASED WATER TRANSHIPMENT

The ports and transhipment sites on the Austrian section of the Danube recorded an increase in the water transhipment of goods in 2012, with a total of more than **9.5 million tons of goods** being transhipped at water-side loading and unloading facilities. This is equivalent to an increase of 15.8% or 1.3 million tons in comparison to 2011.

Handling a volume of **3.3 million tons** – which marks a rise of 0.4% or 13,602 tons over 2011 – the **industrial port of voestalpine in Linz** once again reported the highest water transhipment figures in 2012. The port therefore boasts a share of nearly 35% of all water transhipment activities of all ports and transhipment sites located on the Austrian stretch of the Danube.

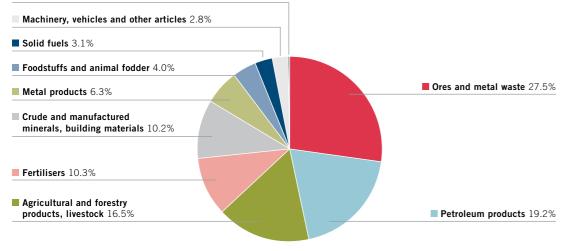
The most prominent increase over 2011 was recorded at the **port of** Linz AG, where a growth of 58.1% or 722,486 tons was recorded. The volume of goods transhipped at waterside facilities in the port amounted to approximately **2.0 million tons**. This strong growth can be attributed almost entirely to the additional quantities of gravel and sand (more than 650,000 tons) transported from Wilhering to Linz to be used as landfill for the port basins of Linz AG.

The other ports and transhipment sites (including Aschach, the Linz heavy cargo port, Mauthausen, Wallsee, Ardagger, Ybbs, Pöchlarn, Pischelsdorf, Korneuburg, Bad Deutsch-Altenburg and the transhipment sit at Wilhering mentioned above) were able to increase their water tranship

е	ment volumes by 30.2% or 481,514 tons. The resulting total tranship-
а	ment volume of about 2.1 million tons significantly exceeded the results
er-	achieved in 2009 and 2010. A more detailed description of the water
of	transhipment activities of these Austrian ports and transhipment sites is
	not possible due to data protection regulations.
or	The port of Vienna also recorded a clear increase to 1.2 million tons,
nce	handling an additional 14.2% or 151,047 tons of goods at its waterside
ort	facilities in comparison to 2011. This marks the best result ever recorded
'i-	by the port, especially when compared to the figures of 2009 and 2010.
of	The port of Krems witnessed a decline of 12.1% or 52,512 tons over 2011,
	with waterside transhipment levels amounting to 381,517 tons of goods.
	A slight decrease in transhipment volumes of 2.3% or 13,687 tons to a
	total of 594,578 tons was recorded at the port of Enns.
ed	The four public Danube ports in Linz, Enns, Krems and Vienna were able
t	to raise their share of the total volume of goods transhipped at Austrian
an	waterside facilities to 44%.
for	The quantitative shares in the total water transhipment volume recorded
	by Austrian Danube ports and transhipment sites are as follows: 34.7% at
	the industrial port of voestalpine in Linz, 21.7% at other ports and tran-
-	shipment sites, 20.6% at the port of Linz AG, 12.8% at the port of Vienna,
site	6.2% at the port of Enns and 4.0% at the port of Krems.
ip-	

Classification of commodities by NST/R*	Domestic	Import	Export	Transit	Total 2012	Change over 2011
			Transport volum	ne in tons		
0 Agricultural and forestry products, livestock	15,341	393,137	116,544	1,245,667	1,770,689	+7.8%
1 Foodstuffs and animal fodder	2,016	278,447	39,395	113,483	433,341	+11.7%
2 Solid fuels	-	307,600	_	22,507	330,107	+80.3%
3 Petroleum products	467,794	913,547	502,899	177,068	2,061,308	+3.3%
4 Ores and metal waste	320	2,941,376	_	_	2,941,696	+0.2%
5 Metal products	23,926	166,866	300,753	179,602	671,147	-23.5%
6 Crude and manufactured minerals, building materials	728,967	233,359	22,291	104,339	1,088,956	+175.0%
7 Fertilisers	1,393	143,800	598,495	363,477	1,107,165	-6.5%
8 Chemical products	-	1,561	3,942	1,790	7,293	-86.0%
9 Machinery, vehicles and other articles	354	59,150	39,382	203,419	302,305	+4.4%
Total	1,240,111	5,438,843	1,623,701	2,411,352	10,714,007	+7.8%

Chemical products 0.1%



*) NST/R = Standard Goods Classification for Transport Statistics/Revised

Source: Statistics Austria, table and diagram created by via donau

SOLID FUELS ON THE RISE ORES AND PETROLEUM PRODUCTS STABLE

2012 witnessed a positive trend in transport volumes, showing increased figures in nearly all the NST/R groups of commodities carried on the Austrian stretch of the Danube (NST/R = Standard Goods Classification for Transport Statistics/Revised).

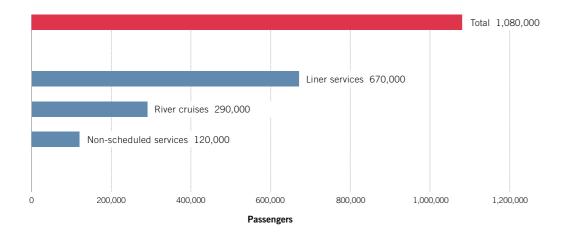
As in previous years, the highest volume was again accounted for by the group **ores and metal waste** in 2012, which achieved a growth of 0.2% over 2011 and hence remained relatively stable. A total of 2.9 million to of ores and metal waste was transported on the Austrian Danube in 201 nearly all of which was shipped to Linz. This is equivalent to a share of more than 27% of the total volume of goods transported on the Austrian section of the Danube.

The NST/R group of **petroleum products** recorded an increase of 3.3% or 66,196 tons compared to 2011. With a share of about 20% in the tota transport volume, this commodity group is the second most important group carried on the Austrian Danube, whereby the bulk of these goods was imported into Austria.

The volume of **agricultural and forestry products** transported on the Danube in 2012 rose by 7.8% or 128,450 tons and increased to nearly 1.8 million tons. With approximately 1.2 million tons, the majority of the products were carried in transit transport through Austria. When compared to previous years, this commodity group almost reached the levels achieved in 2010.

The largest relative increase in transport volume was accounted for by the group **crude minerals**, which witnessed a rise of 175.0% or 693,029 tor

ed	This increase was mainly due to the waterway delivery of gravel and sand
	carried as domestic transport to be used as landfill in the port basins of
	Linz AG.
	A relatively high growth rate of 80.3% was also witnessed by the com-
е	modity group solid fuels . These goods accounted for a share of 3.1%
	of the total transport volume in 2012, which is equivalent to a volume of
ons	about 330,000 tons in absolute figures.
12,	The NST/R group of foodstuffs and animal fodder recorded an increase
	of 11.7%, corresponding to a total transport volume of about 430,000
n	tons in absolute figures and accounting for 4.0% of all transport activities
	on the Austrian Danube.
	The volume of transported goods belonging to the group of machinery,
tal	vehicles and other articles rose by 4.4% or 12,697 tons compared to 2011.
	Nevertheless, declines were recorded by the NST/R groups of fertilisers,
5	metal products and chemical products. Despite a decrease of 6.5% or
	77,104 tons from that of 2011, fertilisers accounted for the fourth largest
	share of the overall transport volume on the Danube, with a total of about
	1.2 million tons of goods carried in 2012.
ese	Metal products, nearly 50% of which were transported for export, also
	witnessed a lower transport volume compared to 2011. The decline
ls	amounted to 23.5% or 206,544 tons.
	In relative terms, the 86.0% decline in the group of chemical products marked
he	the largest drop in transport volume in 2012, although in absolute terms this
ns.	only corresponded to a moderate decrease of 44,879 tons over 2011.



NUMBER OF LANDINGS AND PASSENGERS AT VIENNA PASSENGER PORT*	Vessel landings	% over previous year	Passengers handled	% over previous year
2012	3,477	-3.0	362,316	+0.2
2011	3,585	-1.5	361,565	-0.3
2010	3,641	-9.1	362,655	+2.8
2009	4,007	-9.6	352,793	-7.3
2008	4,434	+1.4	380,529	+24.8

*) Landing stages at Handelskai, Nussdorf and the Danube Canal, including cabin vessels and the Twin City Liners

Source: DDSG Blue Danube Schiffahrt GmbH, Donauschiffahrt Ardagger GmbH, Donauschiffahrt Wurm + Köck GmbH & Co, OHG, MAHART PassNave Shipping Ltd., Schifffahrtsunternehmen Wilhelm Stift GesmbH, Nostalgie Tours Wachau, schiffART MS Helene, Slovak Shipping and Ports - Passenger Shipping JSC (SPaP-LOD, a.s.), via donau, WGD Tourismus GmbH, Wiener Donauraum Länden und Ufer Betriebs- und Entwicklungs GmbH

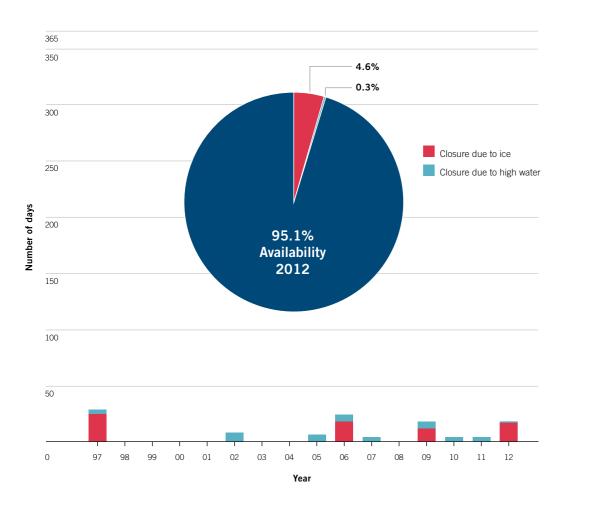
PASSENGER TRANSPORT

FIRST SLIGHT DECLINE IN YEARS **ABOUT 1 MILLION PASSENGERS**

Liners carried 132,949 passengers (-4.4%) on the route between Vienna and Bratislava. Slovakian and Hungarian hydrofoils operating on the Bratislava-Vienna-Bratislava and Budapest-Vienna-Budapest routes recorded 33,077 passengers (-6.6%), while the Bavarian operator Wurm + Köck carried a total of 29,255 passengers (-5.6%) on its liner services on the Linz-Schlögen-Linz and Linz-Vienna-Linz routes in 2012. Non-scheduled services were operated by 41 passenger vessels (including vessels primarily operating on liner services) with a total capacity of about 12,000 passengers. DDSG Blue Danube transported 60,000 passengers (-10.4%) on non-scheduled voyages. Other operators of nonscheduled voyages included Donauschiffahrt Ardagger with 10,480 passengers, schiffART MS Helene (Linz) with 8,000 passengers, the steamer Schönbrunn with approximately 7,400 passengers, the MS Stadt Wien (Tulln) with 2,500 passengers and Nostalgie Tours Wachau (Krems) with 2,399 passengers. Finally, Slovakian and Hungarian hydrofoils recorded 2,224 passengers travelling on non-scheduled voyages on the Austrian Danube in 2012. Other companies operating liner services or organising non-scheduled voyages on the Austrian Danube have not submitted any figures for the period under review. Due to a change in legislation, passenger transport data on the Austrian stretch of the Danube has not been statistically recorded since 2003. As a result, the figures for liner and non-scheduled services given above also include estimates based on an average capacity utilisation of 40% on passenger vessel journeys.

In total, about 1.1 million passengers travelled on the Austrian Danube in 2012, corresponding to a decrease of 6.9% or approximately 81,000 passengers compared to 2011. The largest group was made up of about 670,000 passengers carried on liner services (-4.3% over 2011). Cabin vessels carried about 290,000 cruise passengers, marking a considerable decline by 12.1% in this segment when compared to 2011. Some 120,000 casual passengers enjoyed theme voyages, special trips and charter voyages (-7.7%). In 2012, a total of **124 cabin vessels**, with an overall capacity of 19,980 passengers, operated on the Austrian section of the Danube, meaning that the total number of cruise vessels travelling on the Danube remained unchanged compared to the previous year. However, 13 newly built vessels were put into service in 2012, while 16 cabin vessels which were operating on the Austrian Danube in 2011 were transferred to other European waterways, mainly in Western Europe. River cruises accounted for 3,191 journeys (-12.2% over 2011) carrying a total of about 290,000 passengers (-12.1%) on the Austrian section of the Danube in 2012. This figure is based on the number of passages made by cabin vessels through the Aschach and Freudenau locks, whereby the number of passengers was estimated by assuming a rate of vessel capacity utilisation of 75% and deducting 30% to allow for double counting. In 2012, liner services on the Austrian Danube constituted a total of 26 vessels with an overall capacity of 8,400 passengers. DDSG Blue Danube reported 210,000 passengers (-5.8% compared to 2011) travelling on its

liner services in the Wachau region and in Vienna. The two Twin City



AVAILABILITY OF THE WATERWAY

348 NAVIGABLE DAYS IN 2012 **AVAILABILITY OF 95.1%**

In times of extreme weather conditions such as high water or extensive or **357 days per year**. In four years within this period, the Danube was ice formation on the Danube, all river navigation may be shut down by closed to navigation for an average of 20 days due to ice, while in nine the authorities. High water conditions mostly arise in early spring as a reyears the waterway had to be closed for an average of about five days due sult of rapid snow melts or due to heavy rainfall in midsummer. Extensive to high water levels. ice formation may occur due to long periods of low temperatures that are In **2012**, the Danube was closed to navigation for a total of 17 days due well below freezing point. As a rule, obstructions caused by ice formation to critical ice formation in February, whereas it only had to be closed for arise in the months of January and/or February. one day due to high water levels. Consequently, the Austrian Danube was

During such official weather-related closures, navigation on the Danube is prohibited on affected sections of the Austrian Danube waterway. There Transport to and from the west is not only dependant on the Austrian and are no closures due to low-water conditions. However, cargo vessels can sometimes only use the waterway to a very limited degree in terms of economic efficiency during such periods. The relationship between the potential and the Rhine waterways. In 2012 the canal was navigable for 87.9% capacity utilisation of cargo vessels and available fairway depths is described of the year or 322 days. In February 2012, the Main-Danube Canal had in greater detail in the following chapter entitled «Fairway Conditions». carried out in April 2012, forcing the authorities to close the canal for In the **15 year period** between 1997 and 2012, average navigability on the Austrian section of the Danube waterway was 97.9% of days 22 days.

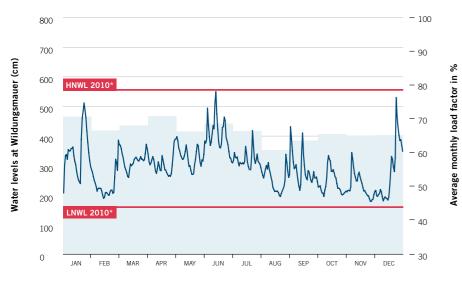
Source: Supreme Navigation Authority at the Federal Ministry for Transport, Innovation and Technology; Federal Water and Navigation Administration (Germany); via donau

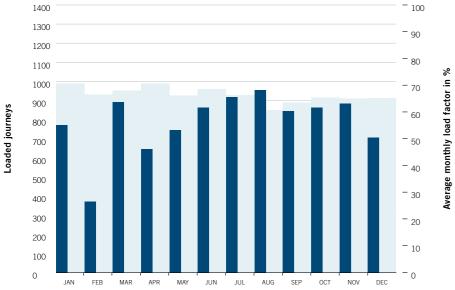
navigable on 348 days or 95.1% in 2012.

German sections of the Danube waterway but also relies heavily on the navigability of the Main-Danube Canal linking the Danube with the Main

to be closed for 22 days due to ice. Additionally, maintenance work was

2012 FAIRWAY CONDITIONS AND RESULTING LOAD FACTORS OF CARGO VESSELS USING THE WILDUNGSMAUER GAUGE OF REFERENCE





*) LNWL 2010 (low navigable water level): This value represents the water level exceeded on 94% of days/ year during ice-free periods with reference to a 30-year observation period (1981–2010). The current LNWL value for the water gauge Wildungsmauer is 162 cm. HNWL 2010 (highest navigable water level): This value represents the water level corresponding to the discharge exceeded on 1% of days/year with reference to a 30-year observation period (1981–2010). At

Water levels

currently 564 cm.

Loaded journeys

Actual average load factor of

vessels on loaded journeys

Source: Statistics Austria, chart created by via donau

Actual average load factor of

Source: Statistics Austria, chart created by via donau

Wildungsmauer, the highest navigable water level is

FAIRWAY CONDITIONS

EXCELLENT CONDITIONS VESSEL LOAD FACTOR AT 66.3 %

2012 witnessed excellent fairway conditions along the free-flowing or convoy also improve the relation between freight revenues and costs stretches of the Austrian Danube (Wachau and east of Vienna). and thus the overall **competitiveness** of Danube navigation. When loading In the winter months of January, February and December, a period usutheir vessels, ship operators often have to estimate available fairway depths ally characterised by low water levels from a statistical point of view, water at critical river stretches days in advance before passing through them by levels at the Wildungsmauer gauge (reference gauge for the river stretch means of so-called reference gauges. The Wildungsmauer gauge shown east of Vienna) did not fall below low navigable water level (LNWL 2010) in the top chart is the decisive indicator for fairway conditions in the freeon any day of the year 2012. Favourable fairway conditions were also witflowing stretch of the Austrian Danube between Vienna and Bratislava. nessed in the autumn months of September to November with their usu-This means that there is a direct relationship between fairway conditions ally low water levels. Over the entire year of 2012, water levels exceeded and the load factor of vessels. The general rule is that if relatively large the average water level (AWL 2010 = 293 cm Wildungsmauer gauge) on loaded draughts can be achieved, the average load factor of vessels 51% of all days, in comparison to only 30% of all days in 2011. increases and vessel operators require fewer trips to transport the same Looking at the year 2012 as a whole, the average monthly load factor volume of goods. This correlation can be clearly seen from the bottom achieved for cargo vessels was 66.3% and was therefore higher than in chart: In January 2012, for example, the average load factor was favourprevious years (2011: 59.6%; 2010: 64.2%; 2009: 60.0%; 2008: 61.3%). able at 70.5%, with 774 journeys being required to convey some 771,000 The average load factor did not fall below 60% in any given month of the tons of goods. In August, on the other hand, the average load factor per year 2012, reflecting excellent average water levels on the Danube in this vessel was only 60.6%; in this month, a total of 957 journeys were made year. With regard to transport direction, the actual average vessel load to transport approximately 979,000 tons of goods. factor was 67.7% for upstream journeys (+5.3% compared to 2011) and Compared with 2011, the number of loaded journeys declined in 2012 62.5% (+10.2%) for downstream journeys. (-8.2% or 844 loaded journeys), despite larger transport volumes and a As far as freight transport is concerned, it is mostly the available fairway higher transport performance. This can be attributed to the higher aver-

ton (+1.9%) in 2012.

age vessel load factor (+6.7%) and the increased transport distance per

As far as freight transport is concerned, it is mostly the available fairway depth which determines the **loaded draught** of a vessel and hence the quantity of goods which can be loaded. Larger freight volumes per vessel

20

MINIMUM CONTINUOUSLY* NAVIGABLE FAIRWAY DEPTHS ON THE FREE-FLOWING STRETCHES OF THE DANUBE IN 2012 IN DAYS



East of Vienna Wachau Kienstock gauge of reference Wildungsmauer gauge of reference Minimum fairway depths in days: Minimum fairway depths in days: 366 above 2.50 m above 2.50 m below 2.50 m below 2.50 m

FAIRWAY DEPTHS

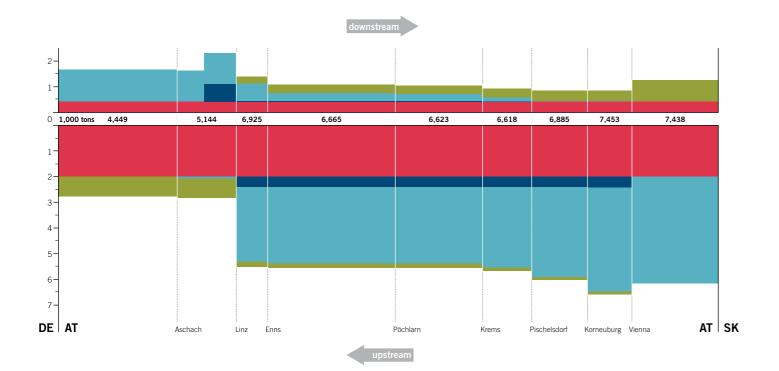
2.50 METRES DURING 87% OF THE YEAR WACHAU STRETCH SHOWED 100%

For both free-flowing stretches of the Austrian Danube (Wachau and to In the river stretch to the **east of Vienna** (i.e. between river kilometres the east of Vienna) the lowest fairway depths were calculated in 2012. 1.872.70 and 1.921), a minimum fairway depth of 2.50 m was recorded based on all hydrographical measurements of the riverbed. For this purin the deep channel on 318 days or 87% of the year. On 48 days, fairway depths of less than 2.50 m in the deep channel prevailed in pose, figures for the periods between measurement dates were interpolated and evaluated in combination with the respective gauge hydrographs this free-flowing stretch of the Danube. On six of these 48 days, fairway (mean daily water levels at the Kienstock and Wildungsmauer gauges depths were calculated with a range of between 2.45 m and 2.50 m. The of reference). The reference for these calculations was a deep channel Wildungsmauer gauge at river kilometre 1,894.72 is used as the gauge of located inside the fairway representing the required fairway width for reference for the free-flowing section located downstream of Vienna. a four-unit pushed convoy travelling downstream without encountering In February (19 days) and in August (14 days), the lowest fairway depths other vessels, whereby the width of the fairway depends on the river bend were found at the «Wendeplatz Theben» (river kilometre 1,879.10 to radii involved. 1,879.80) and the «Käsmacher» (river kilometre 1,875.10 to 1,875.70) Neither in the Wachau stretch (Kienstock gauge), nor on the Danube fords, both located along the border stretch shared with Slovakia, as well stretch east of Vienna (Wildungsmauer gauge), did water levels fall below as at Regelsbrunn (river kilometre 1,898.00 to 1,898.80). In Novemthe low navigable water level (LNWL 2010) or exceed the highest navigaber (7 days) and in December (4 days) the lowest fairway depths were ble water level (HNWL 2010) on any given day in 2012. There were no recorded at the «Wendeplatz Theben» ford. prolonged low water periods during the winter months in 2012. The **dredging barge** that had sunk in May 2011 within the fairway limits Seen from the perspective of the entire year of 2012, a minimum fairway at river kilometre 1,898.30 was successfully salvaged in October 2012. depth of 2.50 m was achieved in the deep channel in the Wachau stretch This accident had made it necessary to relocate the fairway route at (between river kilometres 1,998 and 2,038) on all 366 days of the year. Regelsbrunn. Another relocation of the fairway after the barge had been The Kienstock gauge at river kilometre 2,015.21 is used as the gauge of salvaged was accompanied by dredging operations in the fairway. This reference for this free-flowing stretch of the Danube. successfully improved fairway depths along this section of the river.

*) Based on the required fairway width for a four-unit pushed convoy travelling downstream without encountering other vessels. Fairway widths depend on the river bend radii involved.

Source: via donau

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SEGMENT	Length in km	Imp	ort	Export		Domestic		Transit		Total		In sum
		upstr.	d'str.	upstr.	d'str.	upstr.	d'str.	upstr.	d'str.	upstr.	d'str.	
DE/AT border-Aschach	63.21	0	1,269	768	0	0	0	2,000	412	2,768	1,681	4,449
Aschach-Linz	31.30	62	1,216	768	0	0	686	2,000	412	2,830	2,314	5,144
Linz-Enns	16.87	2,915	700	206	264	404	24	2,000	412	5,525	1,400	6,925
Enns-Pöchlarn	67.63	3,004	320	157	327	407	38	2,000	412	5,568	1,097	6,665
Pöchlarn-Krems	46.20	3,009	276	157	327	404	38	2,000	412	5,570	1,053	6,623
Krems-Pischelsdorf	26.30	3,153	152	131	351	405	14	2,000	412	5,689	929	6,618
Pischelsdorf-Korneuburg	29.60	3,529	43	102	391	408	0	2,000	412	6,039	846	6,885
Korneuburg-Vienna	23.64	4,078	43	102	397	421	0	2,000	412	6,601	852	7,453
Vienna-AT/SK border	45.76	4,170	0	0	856	0	0	2,000	412	6,170	1,268	7,438

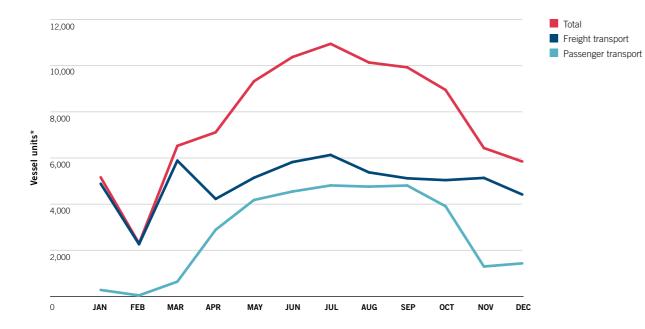
TRANSPORT DENSITY

350 KILOMETRES OF WATERWAY MORE THAN 10 MILLION TONS OF GOODS

In 2012, a total of 10.7 million tons of goods were carried on the 350.51 km long Austrian section of the Danube waterway. Total transport volumes by segment ranged from 4.4 million tons (+4.2% more than in 2011) in the Upper Austrian segment between the German-Austrian border and Aschach to 7.4 million tons (+1.0%) in the free-flowing stretch between Korneuburg and the Austrian-Slovakian border. Due to the fact that it is by far the largest water transhipment location on the Austrian Danube, the industrial port of the voestalpine steelworks in Linz stands out amongst all other ports and transhipment sites with rega to the quantity of goods handled at its facilities. Import statistics reveal that voestalpine obtained 2.4 million tons of ores from Eastern Europe in 2012, mainly from Slovakia (port of Bratislava) and the Ukraine (ports of Izmail and Reni). The largest quantities imported from Western Europe were recorded at the Linz voestalpine port with 0.5 million tons and at the port of Enns which received 0.4 million tons. As in previous years, the upstream section of the Danube running from Linz to the Austrian-German border showed a significantly lower freight traffic density than the downstream section between Linz and the Austrian-Slovakian border. Exports were once again dominated by the ports of Linz (voestalpine and Linz AG, particularly at the oil port), with more than 0.5 million tons of

	goods being transported westwards and more than 0.2 million tons being
rt	carried eastwards. In contrast, more than 0.4 million tons of goods were
	carried from Vienna (mainly from the port of Lobau) downstream.
r_	As far as transit transports were concerned, a comparison of transport
	flows by transport direction shows a ratio of 4.8 to 1 (upstream/down-
	stream) in 2012. In 2011 this ratio amounted to 4.5 to 1, while in 2010 it
n	amounted to 5.3 to 1 and was as high as 6.3 to 1 in 2009. On the stretch
	between Linz and the Austrian-German border, transit transport account-
ard	ed for 47% of the overall transport volume (-6.0% over 2011).
	The volume of goods transported per day amounted to 18,831 tons
I	(+7.6% or 1,338 tons compared to 2011) for all cross sections. In the
f	stretch between Korneuburg and Vienna, which was the most heavily
	used cross section of the Austrian stretch of the Danube in 2012, an
	average of 20,362 tons of goods were transported per day, which is
	equivalent to 815 fully loaded lorries (25 net tons per vehicle) or 509
	railway wagons (40 net tons per wagon) or close to 25 block trains.
he	Over the total length of the Austrian section of the Danube, an average
	of 17,908 tons of goods were carried per kilometre in 2012 (+3.3% or
d	581 tons more over 2011).

VESSEL UNITS* IN FREIGHT AND PASSENGER TRANSPORT LOCKED THROUGH AUSTRIAN DANUBE LOCKS 2012



YEAR	Freight transport	% over previous year	Passenger transport	% over previous year	Total	% over previous year
2012	59,443	-6.8	33,573	-2.0	93,016	-5.1
2011	63,792	-4.9	34,244	+6.5	98,036	-1.2
2010	67,114	+4.5	32,153	+1.3	99,267	+3.5
2009	64,220	-6.1	31,728	+2.2	95,948	-3.5
2008	68,388	-7.3	31,057	+2.6	99,445	-4.4

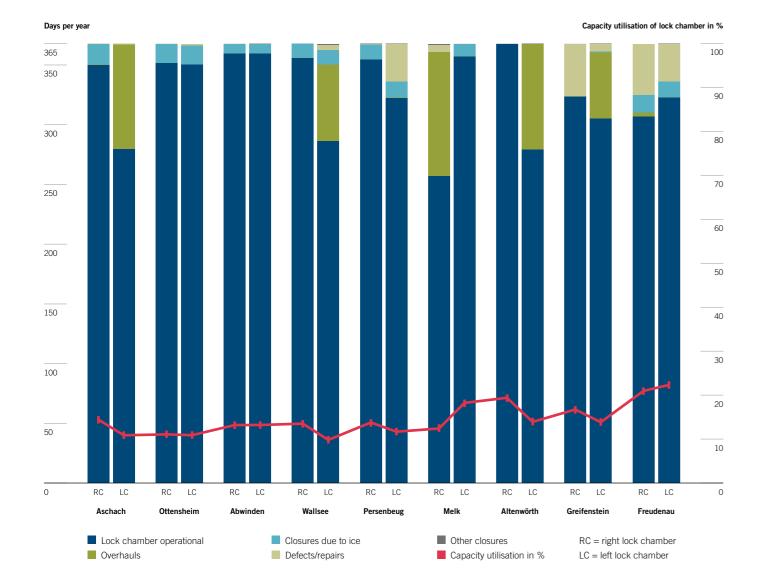
*) Vessel units in freight transport include convoys (pushers, motor cargo vessels or motor tankers with cargo and tank lighters or barges) and individual vessels (motor cargo vessels and motor tankers or individual pushers and tugs). Passenger vessels include day-trip vessels and cabin vessels. LOCKED-THROUGH VESSEL UNITS

93,000 UNITS LOCKED THROUGH DECLINE IN GOODS AND PASSENGERS

In 2012, a total of 93,016 cargo and passenger vessel units travelling Over the whole of 2012, the average volume of vessels passing through Austrian Danube locks amounted to 10.335 convoys and individual vesupstream and downstream were locked through the nine Austrian Danube locks (excluding the Jochenstein power station on the Austro-German sels (a decline of 558 vessel units compared to 2011). This is equivalent border). 40,131 of these units were motor cargo vessels and motor to 861 (-47) vessel movements per month and an average of 28 lockedtankers (-6.3% compared to 2011), 19,312 were pushers (-7.0%) and through units per day per lock. 33,573 were passenger vessels (-2.0%). 45,712 cargo and tank lighters The **highest vessel volume** in 2012 was again recorded at the Freudenau or barges (-10.7%) were locked through as part of convoys. When taking lock in Vienna with 13,141 vessel units passing through (-5.0% over 2011), into consideration all types of vessels and convoys, the total number of followed by the Greifenstein lock with 10,668 and the Abwinden lock with locked-through vessel units in freight and passenger transport suffered a 10,599 units. The lowest volume, i.e. 8,892 vessel units (-7.8%), was again decrease of 5.1% compared to 2011. reported at the Aschach lock, the westernmost Danube lock in Austria.

The number of cargo and passenger vessel units that passed through the As far as **vessel configurations** were concerned, freight transport passing locks on the Austrian section of the Danube declined compared to 2011. through the Freudenau lock, the Austrian lock with the largest number of The number of cargo vessel units decreased by 6.8%, while the number vessels locked through, showed a ratio of 51% to 49% between individual of passenger vessels fell by 2.0%. However, the number of lockedvessels and convoys in 2012 (3,930 and 3,722 journeys respectively). through passenger vessels has steadily increased over the last ten years Thus, for the first time in years the share of individual vessels in the total (2003-2012), which means that a substantial increase of about 46% or transport volume was higher than that of convoys. nearly 11,000 locked-through vessels was recorded compared to 2003. The majority of locked-through **pushed convoys** (pusher + lighters) were Freight transport accounted for 63.9% (-1.2% over 2011) and passenger two-unit convoys (72% or 2,044 journeys); 16% of the pushed convoys transport for 36.1% (-1.2%) of the total vessel volume in 2012. included one lighter (448 journeys), 10% were comprised of four lighters The lower number of journeys in **February** can be attributed to a 17-day (275 journeys) and only 2% consisted of three lighters (70 journeys). suspension of navigation due to critical ice formation on the Danube. The figures for coupled formations (motor cargo vessel or motor tanker + lighters) show that 95% travelled with one lighter, 3% with two lighters Moreover, in April traffic to and from the Main and Rhine had to be suspended for 22 days due to maintenance work in the Main-Danube Canal. and 2% with three lighters (839, 28 and 18 journeys respectively).

Source: via donau



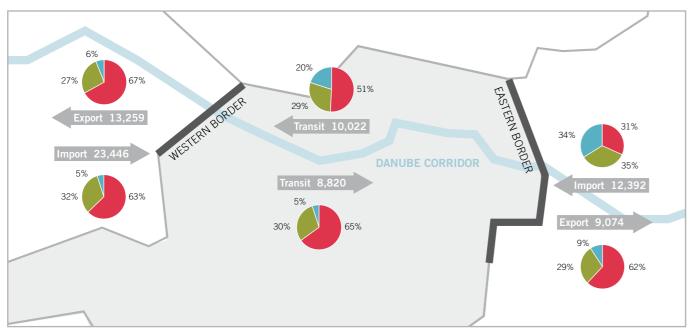
AVAILABILITY OF LOCK CHAMBERS

LONGER CLOSING PERIODS ONLY IN WINTER **AVERAGE CAPACITY UTILISATION AT 14%**

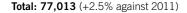
An average of four lock chambers were inoperable simultaneously in the As the nine Austrian Danube locks are large-scale installations, they need to be serviced and maintained at regular intervals to ensure operational low-traffic winter months between November and March, mostly due to functionality and safety and thus also the capacity of waterway traffic flow. overhauls and large-scale repairs. Overhauls were carried out on individual These so-called lock overhauls, along with necessary large-scale repairs, chambers at the locks at Aschach, Wallsee, Melk, Altenwörth and Greifenaccounted for approximately 75% of all closure days of the 18 lock chamstein. In February 2012, ice formation on the Danube required individual bers in 2012, whereby overhauls took an average of about 145 days per lock chambers to be closed for a period ranging from 8 to 17 days. lock chamber. Since 2008, the overhaul of locks on the Austrian Danube On average, only slightly more than 8% of all ships experienced waiting has only been performed during the low-traffic season between Novemtimes at locks, whereby the average waiting period amounted to 36 minber and March, in order to prevent long waiting times at locks during the utes. In periods when individual lock chambers were closed, 22% of all high-traffic summer months. vessels were faced with waiting times averaging 43 minutes. In periods Other causes for lock closures include in-year short-term repairs of techwhen all lock facilities were fully available (including short-term closings), nical defects or damage to facilities caused by vessels, which accounted 95% of all ships did not have to wait at the locks. The remaining 5% had for a total of 3% of all closure days in 2012. Additionally, 21% of all to interrupt their journey for an average of 34 minutes. closure days were attributed to ice in February 2012, while the remaining In 2012, the average capacity utilisation of all 18 Austrian lock cham-1% of the total number of closure days was the result of renovation and bers was slightly above 14%. With about 22%, the Freudenau lock again maintenance works, fairway maintenance dredging etc. achieved the highest average utilisation rate, while the lowest rate of In the months between April and October, a time when river traffic is slightly less than 11% was recorded at the Ottensheim lock. In this conat its busiest due to passenger, sports and leisure navigation, all 18 lock text, the capacity utilisation rate of a lock chamber refers to the time the chambers of the Austrian Danube locks were continuously available with chamber is occupied, i.e. the entire period between the first vessel jointly very few exceptions. In general, these closures only affected individual being locked through and the last jointly locked-through vessel exiting chambers and only lasted for short periods, mainly due to technical the chamber, always assuming a maximum lock chamber operability of

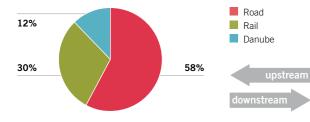
defects, maintenance work and dredging. In 91% of all cases, chambers 24 hours a day and seven days a week. were closed for less than one day and for an average of only 4.5 hours.

Source: via donau



FREIGHT TRANSPORT IN 1,000 TONS/YEAR





Western	border

Rail

Danube: Passau Road: Suben, Neuhaus, Simbach

Passau

 Danube:
 Hainburg

 Road:
 Berg, Kitsee, Nickelsdorf, Klingenbach, Deutschkreutz

 Rail:
 Marchegg, Kitsee, Hegyeshalom, Sopron. Deutschkreutz

Eastern border

MODAL SPLIT

STRONG PREDOMINANCE OF ROAD TRANSPORT SHARE OF DANUBE AT 12%

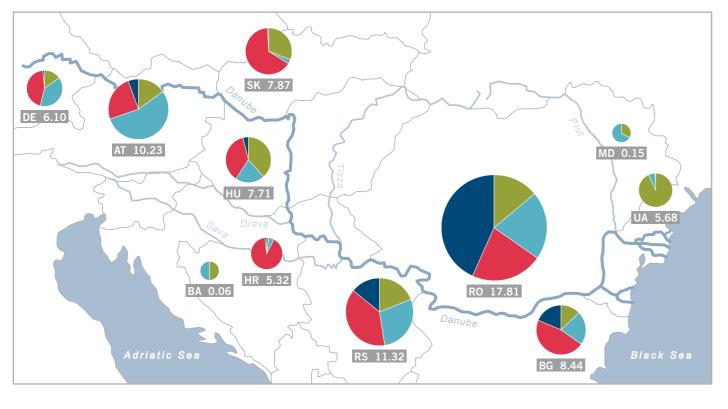
Transport volumes in the Austrian Danube corridor have increased rapidly since the mid-1990s. In 2012, they amounted to 77.0 million tons, an amount which corresponds to a massive growth of 202% over the last 20 years (1993-2012). (Data on road transport for 2012 is based on estimates by the Austrian Institute for Regional Studies and Spatial Planning, as official data is still pending.) Compared to 2011, transport volumes in the corridor increased by 2.5% or 1.9 million tons in 2012 and, with a total amount of 77.0 million tons, fell only slightly short of the volume of goods transported in the pre-crisis year of 2008, which totalled 78.9 million tons. The chart shows the cross-border transport volume (net tons) for the three transport modes of rail, road and waterway in the Austrian Danube corridor between Passau and Hainburg according to transport type (import, export and transit). A look at the figures for all transport modes reveals that the quantity of goods transported to and from the west was significantly higher than the volume of goods crossing the eastern border of Austria: In 2012, about 55.5 million tons of goods, including transit transport, passed through the western border of the Austrian Danube corridor (+2.6% or 1.4 million tons more than 2011) while on the eastern border approximately 39.7 million tons (+4.6% or 1.7 million tons) were recorded, corresponding to a ratio of 1.4 to 1.

With approximately 58.2 million tons, the level of **bilateral traffic** (western and eastern borders taken together) was considerably higher in 2012 than **transit transport** with 18.8 million tons. However, transit transport in particular has increased significantly over the last 20 years; today, its volume is 4.4 times higher than in 1993, with transit road transport having increased by a factor of 10.6.

Source: Austrian Institute for Regional Studies and Spatial Planning (ÖIR); chart created by via donau

- Accordingly, road transport dominates the modal split in the Austrian Danube corridor with a share of 58%. This means that the quantity of goods transported by road is still higher than the volume of goods carried by the other two transport modes combined. Over the past 20 years, import volumes and, above all, export volumes at the eastern border of the corridor have shifted significantly from rail to road transport, whereas the modal-split share of Danube navigation has remained relatively stable, with figures fluctuating within a range of about five percentage points.
 Conversely, rail transport has been able to improve its modal-split share in exports to the west by approximately 15 percentage points at the expense of transport on the Danube over the past six years. Within this period, the share of Danube navigation in transit transport has decreased from a previous peak of nearly 20% by about 13 percentage points, again
- s in favour of road transport.
- er Nevertheless, despite the dominant position of road transport, Danube navigation is still an important mode of transport in the corridor. Its significance is particularly reflected in **upstream transport** volumes,
- where Danube navigation held an impressive share of 34% in the import sector at the eastern border of the corridor and 20% in transit transport in 2012. This means that inland navigation and rail import volumes were equal in the upstream direction and still exceeded road transport by two percentage points. However, with particular regard to imports and exports at the western border and downstream transit transport, the importance of inland navigation is decreasing noticeably clearly falling behind road transport which holds a modal-split share of more than 60% in each of these segments.

FREIGHT TRANSPORT IN MILLION TONS/YEAR



Million tons	DE	AT	SK	HU	HR	BA	RS	BG	RO	MD	UA
Export	0.92	1.55	2.43	2.96	0.12	0.03	2.14	1.08	2.49	0.05	5.30
Import	2.38	5.60	0.25	1.62	0.28	0.03	3.25	1.86	3.70	0.10	0.36
Transit	2.71	2.52	5.13	2.84	4.83	0.00	4.36	3.94	3.94	0.00	0.00
Domestic	0.09	0.56	0.06	0.29	0.09	0.00	1.57	1.56	7.68	0.00	0.02
Total	6.10	10.23	7.87	7.71	5.32	0.06	11.32	8.44	17.81	0.15	5.68

DROP IN TRANSPORT VOLUMES **NEARLY 38 MILLION TONS IN 2011**

The most current available figures regarding total freight transport volumes on inland waterways in the Danube region date from **2011**. In total, slightly less than **38 million tons** of goods were carried on the Danube waterway and its tributaries that year, a considerable decline of 13.1% or about 5.7 million tons in comparison to 2010. The figures below and in the chart and table on the left refer to inland waterway transport on the Danube. River-sea transport on the maritime Danube as well as on the Romanian Danube-Black Sea Canal will be dealt with at the end of this chapter. In 2011, the largest transport volume by far was again achieved by **Romania**, amounting to 17.8 million tons (-17.3% over 2010), followed by Serbia with 11.3 million tons (-20.8%) and Austria with 10.2 million tons (-9.6%). The largest exporter on the Danube in 2011 was once again the Ukraine, with a total of **5.3 million tons** shipped from this country (-22.2% compared to 2010). This figure includes about 1.3 million tons of goods exported to Austria, the major part of which was ore delivered to the voestalpine steelworks in Linz. With a transport volume of 3.0 million tons (-37.4%), Hungary was the second largest exporting country on the Danube in 2011, followed by Romania with 2.5 million tons (-10.3%). Along with Hungary, Slovakia suffered the sharpest decrease in exports by inland vessel, recording a decrease of 32.3%.

With **5.6 million tons** of goods (-10.4% compared to 2010), **Austria** accounted for the **largest import volume** of all Danube countries in 2011, the bulk of which came from Slovakia, the Ukraine, the Netherlands and Hungary. The second strongest importing country on the Danube was

Source: Eurostat, national transport statistics, via donau; chart and table prepared by via donau

Romania taking delivery of 3.7 million tons of goods, whereby transport volumes in this transport segment plunged sharply by 47.9% compared to 2010. Serbia took third place with imports amounting to 3.2 million tons of goods (-20.3%). The largest volume in transit transport on the Danube was recorded in Slovakia (5.1 million tons), followed by Croatia with 4.8 million tons and Serbia with 4.4 million tons. With 7.7 million tons of goods conveyed, Romania was once again by far the most important country when it came to **domestic transport**. Serbia and Bulgaria shared second place with a volume of about 1.6 million tons each. On the Danube-Black Sea Canal, along with its northern channel, **11.6 million tons** of goods were carried in 2011 (including river-sea transport amounting to approximately 0.4 million tons), representing a decrease of 6.0% or 0.7 million tons compared to 2010. With regard to transport to the Main-Danube Canal from the Danube and vice versa, in 2011 the Kelheim lock recorded a total volume of 4.1 million tons (-20.6% or 1.1 million tons over 2010), 2.2 million tons of which were carried downstream towards the Danube (-15.3%) and 1.9 million tons upstream towards the Rhine (-26.0%). In 2011, maritime transport on the Danube, i.e. transport by river-sea ships or by sea-going vessels, accounted for a total of 4.6 million tons (-6.5% or 0.3 million tons over 2010). Most of this volume (3.1 million tons) of transported goods was carried via the Romanian Sulina Canal, whereas 1.2 million tons were moved on the Ukrainian Bystroe and Kilia branches.







DANUBE STRATEGY

ONE YEAR OF IMPLEMENTATION FIRST TANGIBLE RESULTS

The Strategy of the European Union for the Danube Region is a macroregional strategy, which was adopted by the European Commission in December 2010 and launched in 2011. Austria and Romania are jointly coordinating Priority Area 1a of the strategy – **To improve mobility and multimodality: Inland waterways**. In Austria, the Federal Ministry for Transport, Innovation and Technology (BMVIT) is responsible for coordination, while the operational implementation falls within the mandate of the Joint Technical Secretariat run by via donau and the Romanian Ministry of Transport.

The Action Plan accompanying the strategy defines a total of 129 measures for the 11 Priority Areas of the Danube Strategy. The accom-In the first half of 2012, the Technical Secretariat prepared a first progress plishment of the individual measures is ensured by specific projects. The **report** on the implementation of the Danube Strategy in Priority Area 1a, Action Plan is considered to be an essential guideline for the allocation of which the Coordinators submitted to the European Commission's Directo-European funding (particularly regional funding) to specific projects in the rate-General for Regional Policy and Urban Development in June 2012. upcoming EU financial programming period 2014 to 2020. Initiated by the inland navigation sector, the first joint meeting of the transport ministers of the Danube countries held in the context of the Danube In the first year of the strategy's implementation, a **Steering Group** and five thematic **Working Groups** were established within Priority Area 1a and were Strategy took place in Luxemburg in June 2012, where the ministers signed a Declaration on effective waterway infrastructure maintenance on the Danube and its navigable tributaries. With the exception of Hungary and the Ukraine, all riparian countries have to date endorsed the declaration.

In the first year of the strategy's implementation, a **Steering Group** and five thematic **Working Groups** were established within Priority Area 1a and were tasked with managing and providing specialist support to the realisation of individual measures. The members of the Steering Group include representatives of the ministries responsible for inland waterways in the 14 Danube countries, the European Commission (three Directorate-Generals), the river commissions and other relevant organisations. Meetings of the Steering Group and the Working Groups are prepared, organised and convened by the Joint Technical Secretariat of the Coordinators twice a year. The aim of the aforementioned meetings is to bring together the key players of Priority Area 1a to discuss the implementation of the strategy on the

▲ THE AUSTRIAN EU COMMISSIONER FOR REGIONAL POLICY, JOHANNES HAHN, ATTENDED THE THIRD MEETING OF THE STEERING GROUP FOR PRIORITY AREA 1A – INLAND WATERWAYS, WHICH WAS HELD IN BRATISLAVA IN MAY 2012

◄ THE DANUBE REGION STRATEGY IS INTENDED TO IMPROVE GENERAL CONDI-TIONS FOR DANUBE NAVIGATION BY ACCOMPLISHING FIVE SPECIFIC TARGETS basis of specific measures and current issues. Subject-specific issues are discussed at expert level within the Working Groups. Four Working Group meetings and five Steering Group meetings have taken place to date. At the core of the Danube Strategy are specific **projects** aimed at ensuring the accomplishment of the five targets defined for the area of inland waterways. So far, more than 90 projects have been reported to the Priority Area Coordinators or have been identified by them. To ensure the topicality of the project information, the relevant data sheets are updated by the Technical Secretariat on an ongoing basis and are published on the Priority Area website.

FURTHER INFORMATION

www.danube-navigation.eu
 www.danube-region.eu

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▲ THE MANAGING DIREC-TORS OF THE DANUBE WATERWAY MANAGEMENT AUTHORITIES MET IN OC-TOBER 2012 IN VISEGRÁD. HUNGARY, FOR THE KICK-OFF OF THE NEWADA DUO

SYSTEM AT THE PERSEN-BEUG LOCK

DANUBE REGION

JOINING FORCES FOR THE DANUBE **COOPERATION WITHOUT BORDERS**

In 2012, via donau was involved in a large number of EU-supported The successful completion of **PLATINA** – the platform for the implementation of the European Action Programme for Inland Waterway Transport. transnational projects that were realised in the Danube region. The successful cooperation between Danube waterway management NAIADES – marked a major European milestone. Activities in 2012 authorities continued with the launch of the NEWADA duo project in included the publication of a strategic research and innovation agenda April 2012. The project primarily aims to establish a standardised level for inland navigation. With regard to environmental protection, the project of service for the Danube waterway by enhancing the quality of waterway made significant contributions to the work of the European Commission's maintenance and related basic data, the implementation of a Danube web Expert Group on «Greening the Fleet» and to the revision of an EU direcportal for fairway information services and the development of innovative tive defining new emission levels for inland vessels. In the field of River Information Services (RIS), the IRIS Europe 3 project waterway management tools.

In the field of education and training in inland navigation, the NELI prowas launched to continue the coordinated implementation of RIS in Europe. ject - which was completed in March 2012 - provided numerous visible The project will continue previous work and will place special emphasis results in the Danube region. In addition to the preparation of course and on the functional and gualitative further development and the harmonised teaching materials, activities focused on the dissemination of the «INeS implementation of River Information Services. Moreover, the results of Danube» e-learning platform in the Danube countries and on the pilot op-RISING, an EU project completed in 2012, were integrated to actively eration of the four Danube Information and Training Centres established increase the availability of RIS for users from the logistics sector. An imporas part of the project. The HINT project launched in December 2012 will tant tool for the accomplishment of this goal is the international exchange of continue the work of NELI. RIS data, which will be launched in the second year of the project.

With regard to projects related to the **disposal of ship borne waste**,

WANDA was successfully completed in March 2012. To implement the measures proposed within the project, the European Commission has approved a follow-up project entitled CO-WANDA, focusing on the further development of existing ship waste management systems along the Danube, on comprehensive pilot testing and on the development of an international convention including practicable rules and regulations for the management of ship waste.

FURTHER INFORMATION

- オwww.newada-duo.eu オ www.neliproject.eu www.naiades.info/platina オ www.iris-europe.net





▲ ENHANCED DISPLAY OF AVAILABLE FAIRWAY DEPTHS AT SHALLOW SECTIONS IN RELATION TO LOW NAVIGATION WATER LEVEL (LNWL 2010), TAKING THE WEISSEN-KIRCHEN FORD IN THE WACHAU VALLEY AS AN EXAMPLE

AS SHOWN ON THE ELECTRONIC NAVIGATIONAL CHART

► INDICATOR FOR A W-LAN HOTSPOT AT THE FREUDENAU LOCK IN VIENNA WHICH WAS INSTALLED DURING THE EU FUNDED NEWADA PROJECT

TNEWADA Danube WLAN Hotspot SSD: DANUBE_NEWADA

WATERWAY

SERVICES FOR INLAND NAVIGATION FOCUS ON CUSTOMER ORIENTATION

In 2012, via donau's customer-oriented waterway management – based on the pillars of monitoring, planning, implementation and informing was integrated into the company's process map and several key services for inland navigation were revised and improved

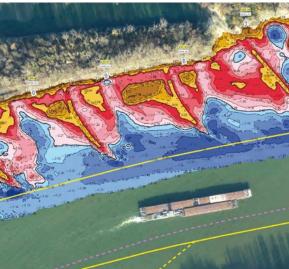
Since 2012, the current shallow sections along the Austrian Danube have been presented in an easily comprehensible way via the DoRIS website, using an updated map design on the basis of monthly surveys and a new modelling method. The most important change consists of a two-dimensional representation of depth figures, which allows users to gain a swift overview of the river sections with the lowest water depths in the fairway. A calculated contour line divides the two-dimensional images of the fairway depths into the categories of «more» and «less» than 2.50 metres in relation to low navigable water level (LNWL 2010). These two categories are shown in either blue (more than 2.50 m) or red (less than 2.50 m). By using two different colours to present this data on the map, information on water depths in the fairway is readily available to the user. The Electronic Navigational Charts (the so-called Inland ENCs) published by via donau were again revised in 2012. The biannual depth data for the two free-flowing sections of the Austrian Danube were integrated into the charts, and depth data for several reservoirs for hydroelectric power stations were also updated. Many new objects and pieces of information such as water gauge locations, gauges at bridges or berthing areas, were

- integrated into the topographical data and river bank lines were adjusted according to the latest aerial photographs. In addition, waterway police information contained in the charts was also continuously updated. To facilitate waterway users' access to current infrastructure data, W-LAN hotspots at the Freudenau and Abwinden locks were made available. Furthermore, the development of a smartphone application was launched, which will comfortably display all infrastructure data such as water levels, Notices to Skippers, closed sections, closures due to ice and the operating status of locks.
- In 2012, the Austrian Notices to Skippers website, which advises vessel operators of closures, traffic limitations, delays and other events relevant to navigation, was linked with the German and Slovakian NtS servers so
- that notices from these two neighbouring countries can be directly and conveniently retrieved via the standard DoRIS search mask. Notices published by other countries in Europe can be accessed via Internet links.

FURTHER INFORMATION

www.doris.bmvit.gv.at/en/water_levels_low_sections/shallow_sections www.doris.bmvit.gv.at/en/inland ecdis ↗ nts.doris.bmvit.gv.at





REMOVAL OF OLD GROYNES IN THE AREA OPPOSITE HAINBURG

■ MULTI-BEAM IMAGE OF NEWLY SHAPED AND DECLINING GROYNES ON THE LEFT BANK

START OF EARTHWORKS AIMED AT THE RECONNECTION OF THE JOHLER SIDEARM: REMOVING THE LAYER OF FINE SEDIMENT



ENVIRONMENT

INTEGRATED IMPLEMENTATION LAUNCH OF PILOT PROJECT EAST OF VIENNA

In February 2012, the Bad Deutsch-Altenburg pilot project was launched on a three kilometre long section of the Danube to the east of Vienna. The project will provide important findings which can be used for the hopper barges using GPS control. development of future measures for the prevention of degradation of the Danube's riverbed. It will also improve ecological conditions in the sidearm are crucial renaturation measures for the preservation and im-Danube floodplains national park and improve fairway conditions for provement of ecological conditions in the floodplains. These measures will inland navigation. Scientific monitoring, a supervisory body focusing on also create new habitats for animals and plants. The groynes, which have the ecologically-friendly realisation of the project and an accompanying been reconstructed to optimise low-water regulation for navigation, will be participation scheme involving the major stakeholders will ensure that the lowered near the banks, thereby simultaneously creating a protection zone for young fish, which will enable them to move between groyne fields. construction project is committed to the highest level of transparency. The planned measures were developed in a process which lasted several The enlargement of the river cross-section, resulting from the restoration years and involved ecologists as well as navigation and hydro-engineering experts. They include the restoration of river banks, the lowering of bank neighbouring municipalities. structures, the reconstruction of groynes, the reconnection of the Johler In 2012, the Christian Doppler Research Laboratory «Im Fluss», founded sidearm and measures to stabilise the Danube's riverbed. After the building jointly by the Vienna University of Natural Resources and Life Sciences and via donau in summer 2010, focused on an analysis of the morphosite had been set up and the search and recovery of any war remnants that might still be buried in the building area, which was required for safety logical effects of groyne construction in the area of the Witzelsdorf pilot reasons, had been completed, the actual construction work started. The project. In this area, the processes that reshape the riverbed have been existing artificial structures in the Thurnhaufen area on the left bank were completely removed and reconstruction of the groynes commenced. Res-The findings of the Witzelsdorf pilot project will be used for the planning toration work was also started in the Johler Haufen area on the right bank. of similar river engineering projects in the future. Construction work is scheduled to be completed in the first half of 2014. The progressive degradation of the Danube riverbed on the free-flowing FURTHER INFORMATION section to the east of Vienna has a negative impact on the Danube flood-Iebendige-wasserstrasse.at/en plains national park. For this reason, the findings regarding the stabilisation cdlabor-imfluss boku ac at of the riverbed will be one of the major results of the pilot project. This オwww.donauauen.at

measure will involve the first ever testing of a procedure, whereby Danube gravel of a particular granular size will be applied to the riverbed by split-

The removal of artificial bank structures and the reconnection of the Johler

- and lowering of the river banks, will also improve flood protection for the
- significantly influenced by the lowering and reconstruction of the groynes.



WHAT ARE THE EFFECTS OF CLIMATE CHANGE AND EXTREME WEATHER EVENTS ON INLAND NAVIGATION? IN ORDER TO ANSWER THIS QUESTION, VIA DONAU IS PARTICIPATING IN SEVERAL INTERNA-TIONAL RESEARCH PROJECTS



ENVIRONMENT

TARGETED ADAPTATION STRATEGIES INLAND NAVIGATION RESEARCH

The ECCONET project investigated the impact of climate change on incorridors, whereby recommendations regarding further research and land navigation in Europe with the emphasis on the Rhine-Main-Danube development were also formulated as measures for decision-makers from corridor. The investigation of appropriate adaptation measures covered, the world of politics. The LDS – LNG Propulsion Systems for Danube Inland Navigation project, amongst other things, the fields of vessel operation, vessel technology, river engineering measures and methods for forecasting water conditions. which was developed by via donau in cooperation with the Vienna Uni-The project results suggest that up to the middle of the 21st century versity of Technology and Salzburg AG, and which received funding from the Austrian Climate and Energy Fund, showed that the use of liquefied the effects of climate change will be relatively minor. However, they also provide clear evidence that appropriate adaptation strategies and relevant natural gas (LNG) is, in principle, a feasible alternative to the gas oil curmeasures need to be considered as part of a comprehensive, futurerently used. In this context, the Central Commission for Navigation on the Rhine has set an important milestone by approving for the first time the oriented inland navigation policy.

The EWENT project investigated the consequences of extreme weather conditions for the EU's transport systems. Its objectives were to identify potential weather-related risks and consequences for the transport sector and estimate their cost effects. Initial measures for the improved management of extreme weather events have already been developed along with recommendations for courses of action formulated for decision-makers in the fields of commerce, infrastructure operations and politics. The purpose of the SUPERGREEN project was to analyse a number of representative European transport corridors in terms of measures to improve the environmental friendliness of the European transport system. After investigating CO₂ emission levels in relation to transport performance, inland navigation emerged as being clearly superior when compared to road transport. The project was concluded with an analysis of the application of «green» technologies within the selected transport

- use of LNG as a fuel for combustion engines in its recommendations for the operation of motor tankers.
- As part of its policy of making inland navigation an integral part of Austria's climate policy, via donau has been actively participating in the development of a national Climate Change Adaptation Strategy, specialising in the area of transport infrastructure. Related recommendations for action were published in 2012.

FURTHER INFORMATION

- オ www.ecconet.eu
- - > www.supergreenproject.eu
 - > www.klimawandelanpassung.at





▲ SAFE, SILENT AND ENVIRON-MENTALLY FRIENDLY TRANS-PORT OF DANGEROUS GOODS VIA INLAND VESSEL

◄ NAVIGATION ASSISTANCE SYSTEM FOR VESSELS ENTER-ING LOCKS DEVELOPED IN THE NAVWAT II PROJECT

SAFETY SAFEST TRANSPORT MODE INNOVATIONS FOR NAVIGATION

Compared to other modes of inland transport, the safety record of inland navigation is unbeatable: In 2012, a mere 19 traffic accidents involving damage occurred on the Austrian section of the Danube. As in previous years, nobody was killed in accidents on the Danube. However, seven people were slightly injured in one accident involving a passenger vessel. 15 cases involved damage to cargo vessels and five involved passenger ships. When split into accident types, two incidents were vessel collisions while the remaining 17 cases involved damage to riverbanks or facilities (primarily at or around lock facilities) or vessels running aground. With the aim of making a significant contribution to the modernisation of the existing inland navigation fleet and thus raising traffic safety on European inland waterways, the MoVe IT! project (Modernisation of Vessels for Inland Waterway Freight Transport) focuses, amongst other things, on the cost-effective adaptation of the existing inland navigation fleet to the regulatory requirements of dangerous goods transport. This goal can be achieved by measures including appropriate design and materials technology. The project also focuses on improving inland waterway transport in terms of vessel manoeuvrability, energy efficiency and the environmental friendliness of inland vessels. In addition, research also includes the use of alternative fuels instead of diesel and the development of new markets.

In the course of enhancing existing **River Information Services** (RIS), activities instigated to further increase waterway transport safety have been continued under the IRIS Europe 3 project. The pilot operation

- d of the electronic system for the reporting of dangerous goods has been continued and initial feedback from users has been collected. Activities under IRIS Europe 3 also included preparations for the provision of improved information on the clearance height of critical bridges. In addition,
- the first steps have been taken to increase the accuracy of determining the positions of inland vessels in Austria.
- This marks a first step towards the introduction of **navigation assistance systems**, which were tested in two projects in 2012. At a national level, the NAVWAT II project has successfully demonstrated the use of assistance sys-
- f tems for vessels entering locks. At a European level, the ARIADNA project
- has introduced a collision avoidance system using 3D modelling of vessel
- dimensions. The system calculates dynamic risk areas surrounding a vessel, depending on the vessel's movement and environment. If other ships, or fixed objects (bridges, piers etc.) or shallow sections come close to one of these risk areas, an alarm is sounded/displayed on the vessel. In the future, these kind of systems will contribute to further enhancing the high level of reliability and safety of inland navigation.

FURTHER INFORMATION

オwww.ariadna-fp7.eu





▲ TRANSPORT OF OUTSIZED CARGO ON THE DANUBE: UN-LOADING OF WIND TURBINES AT BAD DEUTSCH-ALTENBURG

▲ TRANSHIPMENT OF RENEW-ABLE RESOURCES AT THE PORT OF ENNS

► A NEUTRAL PLATFORM FOR DANUBE LOGISTICS -«DANUBE BUSINESS DATING»

Danube Business Dating DANUBE BUSINESS DATING



COMMERCE EXPLOITING TRENDS AND POTENTIALS **NEW MARKETS FOR DANUBE LOGISTICS**

an opportunity to promote Danube logistics and the Austrian inland navigation sector in Turkey: the Logitrans International Transport Logistics **Exhibition** and the **Danube Transport Seminar** initiated by the Turkish transport ministry. As the interest in waterway transport to and from Turkey on the Danube continues to grow in the sector, via donau will, in the future, increasingly focus on the potential existing in this growth market. Multimodal transport and logistics chains require a large amount of information for the planning and realisation of services. River Information Services (RIS) also offer commercial advantages to enterprises active in the transport and logistics sector. Under the RISING project, Industrie-Logistik-Linz GmbH & Co KG has developed and tested new RIS in Austria, for example the tracking of goods carried on inland vessels, clearly a tool for the future. June 2012 saw the conclusion of a cooperation agreement between Logistikum Steyr, the Logistics Competence Centre at the University of Applied Sciences Upper Austria, and via donau with the purpose to establish an education and research cell in the field of inland waterway logistics. In the future, the project entitled **REWWay – Research and Education in Inland** Waterway Logistics will offer course material and further training opportuni-

In 2012, via donau conducted a comprehensive industry analysis in order to identify sector-specific potentials for shifting transport to the Danube waterway. The analysis is intended to provide insights into the future markets of Danube navigation and is considered to be a special service to interested parties. In the context of working initiatives, particularly promising sectors of industry are to be investigated in detail by via donau in close coordination with its business partners. 2012 saw the conclusion of a two-year initiative on the transport of heavy and outsized cargo on the Danube. This initiative gave rise to a project to optimise the inland waterway transport of wind turbines from Germany to Austria. In 2012, concrete tower segments for about 30 wind turbines were handled at the transhipment site in Bad Deutsch-Altenburg, thereby saving more than 300 tons of CO₂. December 2012 marked the launch of a new initiative on the inland waterway transport of renewable resources as part of a kick-off workshop held in conjunction with representatives from the world of business. In March 2012, the European inland navigation sector gathered at the Barge to Business conference in Vienna. The aim of the event was to im-

prove cooperation between industry and inland navigation. At the «Danties to firmly integrate navigation issues into logistics training programmes. ube Business Dating» forum, which was held simultaneously, businessto-business talks served to establish new contacts and find new business partners, via donau also participated in the follow-up event in Rotterdam FURTHER INFORMATION in December 2012, where it shared a booth with logistics providers to > www.via-donau.org/en/economy represent the Danube logistics sector.

In November, Austria's Federal Ministry for Transport, Innovation and Technology and via donau attended two events in Istanbul, using them as

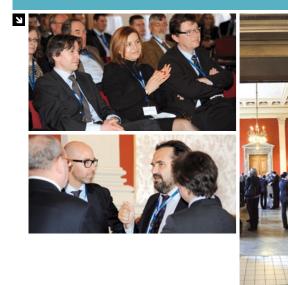
> www.donauschiffahrt.info/en/transport/initiativen_donaulogistik > www.bargetobusiness.eu www.logistikum.at/forschung/verkehrslogistik/rewway.html





DANUBE DAY 2012, 29 JUNE, LINZ: VIA DONAU HAS SUPPORTED THE DANUBE DAY FOR MANY YEARS – IN 2012, ITS ACTIVITIES TO CELE-BRATE THE DAY INCLUDED THE EXHIBITION «DONAU ON TOUR» ON BOARD THE MS NEGRELLI AND A SPECIAL DANUBE DAY EVENT

WANDA FINAL EVENT, 7 MARCH, VIENNA: CLOSING CEREMONY OF THE WANDA (WASTE MANAGEMENT FOR INLAND NAVIGATION ON THE DANUBE) PROJECT AT THE UNIVERSITY OF VIENNA





BARGE TO BUSINESS, 14 AND 15 MARCH, VIENNA: IN MID-MARCH, THE EUROPEAN INLAND NAVIGATION SECTOR GATHERED AT THE «BARGE TO BUSINESS» CONFERENCE WHICH WAS HELD FOR THE FIRST TIME IN VIENNA – THE «DANUBE BUSINESS DATING» PLATFORM, GENERA-TED SPECIFICALLY TO OPTIMISE THE COORDINATION OF BUSINESS APPOINTMENTS, FACILITATED MORE THAN 200 BUSINESS CONTACTS







DAUGHTERS' DAY 2012, 26 APRIL, VIENNA: AS HAS BEEN THE TRADI-TION WITH VIA DONAU, INTERESTED GIRLS AGED BETWEEN 11 AND 15 ONCE AGAIN HAD THE OPPORTUNITY THIS YEAR TO GET TO KNOW THE COMPANY'S BROAD RANGE OF TASKS AND CAREER PROFILES

SEMINAR ÖVG, 8 MARCH, VIENNA: UNDER THE TITLE «SPECIAL CASES NEED SHARED SOLUTIONS», THE AUSTRIAN TRANSPORT RESEARCH SOCIETY (ÖVG) IN COOPERATION WITH VIA DONAU AND THE INDUS-TRIALISTS' ASSOCIATION ORGANIZED A SEMINAR ON HIGH & HEAVY TRANSPORT



A STATIONAL



NEWADA FINAL EVENT, 22 FEBRUARY, BUDAPEST: THE PROJECT TEAM, ITS PARTNERS AND STAKEHOLDERS MET IN BUDAPEST TO CELEBRATE THE SUCCESSFUL COMPLETION OF THE PROJECT



EVENTS **2012**

NATIONAL RIS DAY FOR TRANSPORT AND LOGISTICS, 16 MAY, ENNSHAFEN: THE RIS DAY PROVIDED AUSTRIAN BUSINESS ENTER-PRISES ACTIVE IN THE INLAND NAVIGATION SECTOR WITH THE OP-PORTUNITY TO LEARN MORE ABOUT RIVER INFORMATION SERVICES



EVENTS **2012**



IRIS EUROPE 3 KICK-OFF EVENT, 6 SEPTEMBER, BUCHAREST: AT THE IN-VITATION OF THE ROMANIAN PROJECT PARTNER AFDJ, THE THIRD PRO-JECT OF THE IRIS EUROPE INITIATIVE WAS LAUNCHED IN BUCHAREST

CO-WANDA KICK-OFF EVENT, 10 OCTOBER, VIENNA: AFTER THE SUCCESS OF ITS PREDECESSOR WANDA, THE FOLLOW-UP PROJECT CO-WANDA WAS LAUNCHED AT A KICK-OFF EVENT IN VIENNA







NEWADA DUO KICK-OFF EVENT, 17 AND 18 OCTOBER, VISEGRÁD: BUILDING ON THE SUCCESS OF NEWADA, NEWADA DUO IS INTENDED TO IMPLEMENT FURTHER MEASURES TO IMPROVE THE COOPERATION AMONG WATERWAY MANAGEMENT AUTHORITIES IN THE DANUBE REGION; THE KICK-OFF EVENT TOOK PLACE IN THE HUNGARIAN CITY OF VISEGRÁD IN MID-OCTOBER

ITS WORLD CONGRESS, 22 TO 26 OCTOBER, TRADE FAIR CENTRE VIENNA: THE WORLD'S MAJOR EVENT ON INTELLIGENT TRANSPORT SYSTEMS WAS HOSTED BY VIENNA





20TH ANNIVERSARY OF LIFE+, 24 OCTOBER, MARCHEGG: ON THE OCCASION OF THE 20TH ANNIVERSARY OF LIFE NATURE PROJECTS IN LOWER AUSTRIA, THE FIRST OF A TOTAL OF TEN PLANNED NESTING AIDS FOR STORKS AND BIRDS OF PREY WAS INSTALLED AT MAR-CHEGG PALACE GARDENS AT THE END OF OCTOBER



GROUNDBREAKING CEREMONY SCHOENBUEHEL, 15 NOVEMBER: WITH THE CONNECTION OF THE SCHOENBUEHEL SIDE ARM, THE FINAL MILESTONE OF THE LIFE PROJECT «RIVER HABITAT MOST-VIERTEL-WACHAU» WAS INITIATED

LOGITRANS ISTANBUL, 15 TO 17 NOVEMBER: VIA DONAU MADE ITS DEBUT AT LOGITRANS, THE INTERNATIONAL TRANSPORT LOGISTICS EXHIBITION IN ISTANBUL





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