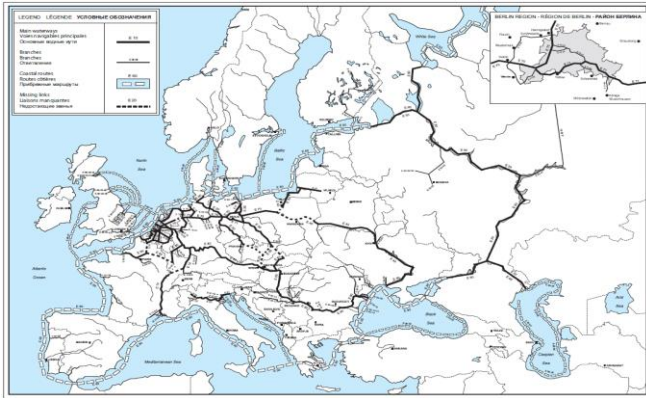


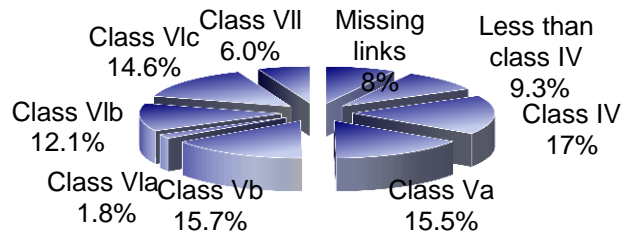




# AGN and Inland waterways infrastructure



Map of the E Waterway Network (UNECE, 1996)



Structure of E waterways

• Third revision of the Blue Book (2016)

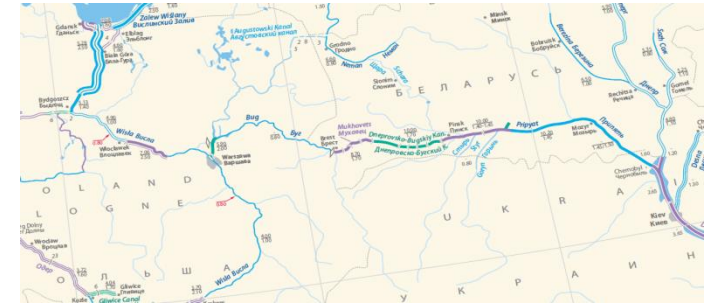
• Restoration of the Dnieper-Vistula Section

• Maxima Canal between the river Maas and Den Bosch (opened the 19th of December 2014)

• Volga and Volgo-Baltic Canal

• Danube

• Infrastructure projects in Belgium, Netherlands, Germany, Hungary and other member States



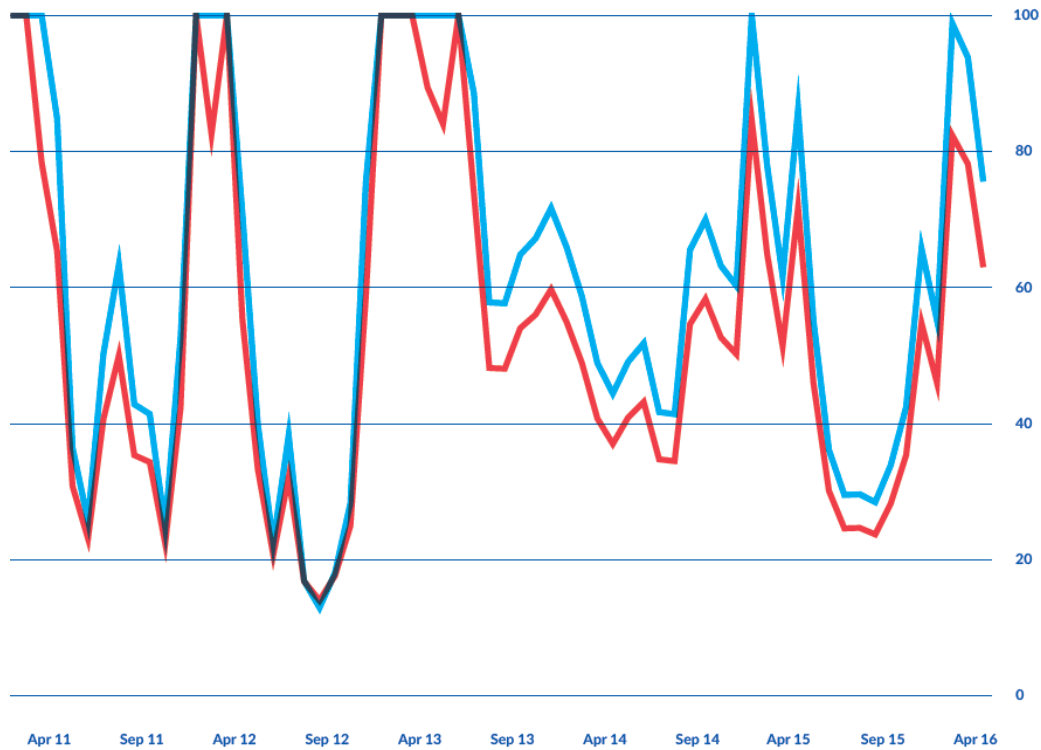
Future



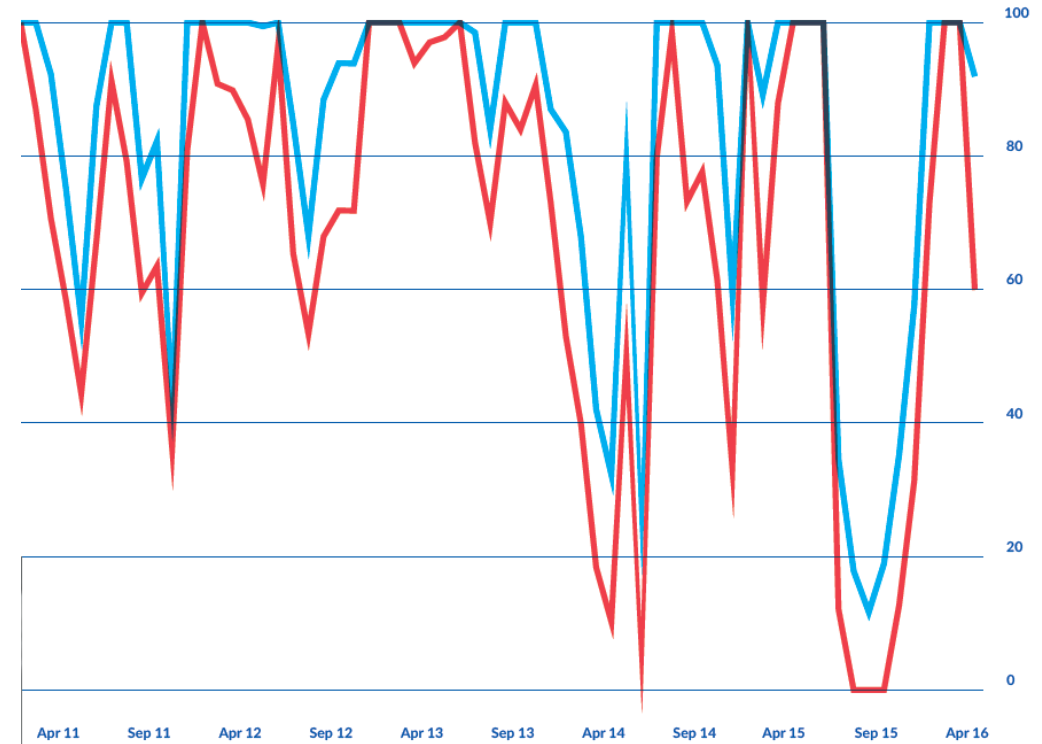
# Water conditions in river basins

MAXIMUM POSSIBLE LOAD FACTOR AT MAGDEBURG AN DER ELBE FOR VESSELS OF DIFFERENT DRAUGHTS (2.5 M - 3 M) IN %

2.5 Meter  
3 Meter



MAXIMUM POSSIBLE LOAD FACTOR AT HOFKIRCHEN ON THE DANUBE FOR VESSELS OF DIFFERENT DRAUGHTS (2.5 M - 3 M) IN %



Source: CCNR Market Observation 2016





# Freight transportation by inland waterways in the UNECE region, thousands t

| Year | EU     | Austria | Belarus | Belgium | Bulgaria | Czech Republic | Germany | France | Croatia | Lithuania | Luxembourg | Hungary | Netherlands | Poland | Romania | Slovakia | UK   | Russia | Kazakhstan | Ukraine* | Switzerland** |
|------|--------|---------|---------|---------|----------|----------------|---------|--------|---------|-----------|------------|---------|-------------|--------|---------|----------|------|--------|------------|----------|---------------|
| 2011 | 526427 | 9943    | 6 711   | 172906  | 14448    | 911            | 221966  | 68471  | 5184    | 95        | 8956       | 7175    | 345469      | 3143   | 29396   | 8211     | 3478 | 127800 | 1082       | 9900     | ...           |
| 2012 | 531452 | 10714   | 4 023   | 190288  | 16378    | 836            | 223170  | 68170  | 5934    | 89        | 8506       | 8135    | 350069      | 2574   | 27946   | 8242     | 3693 | 140500 | 1291       | 7800     | 7211          |
| 2013 | 534781 | 10710   | 4 486   | 187404  | 16726    | 608            | 226864  | 68926  | 5823    | 36        | 8987       | 7857    | 356062      | 3185   | 26858   | 8107     | 5252 | 135000 | 1107       | 6300     | 6830          |
| 2014 | 552405 | 10122   | 3 758   | 190303  | 16922    | 802            | 228489  | 65488  | 5377    | 47        | 8390       | 7825    | 366627      | 5899   | 27834   | 7010     | 5689 | 119080 | 1321       | 6000     | ...           |
| 2015 | 544712 | 8599    | 2 960   | 188158  | 17201    | 850            | 221369  | 63094  | 6642    | 68        | 7107       | 8163    | 359898      | 5036   | 30020   | 5721     | 5594 | 118120 | 1218       | 6400     | ...           |

\* River + sea transport

\*\* On the Rhine

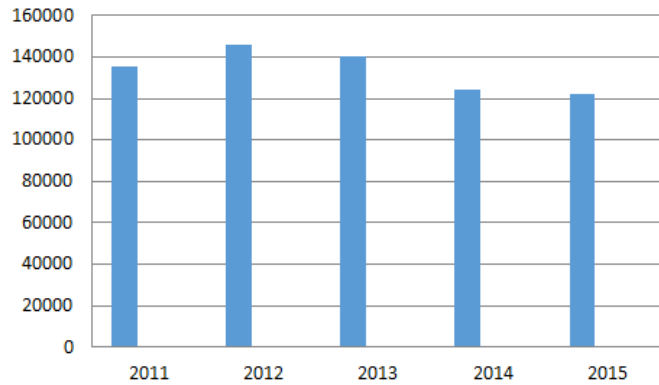




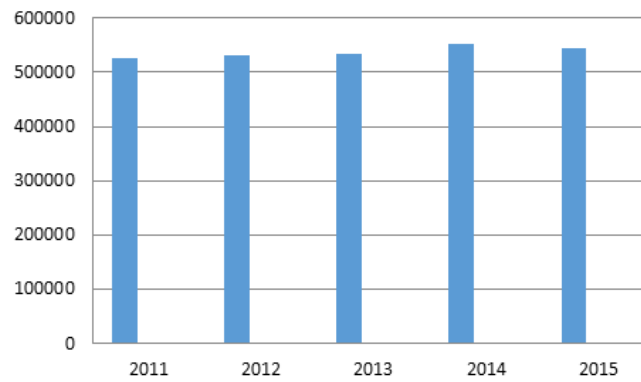


# Freight transportation by inland waterways in the UNECE region

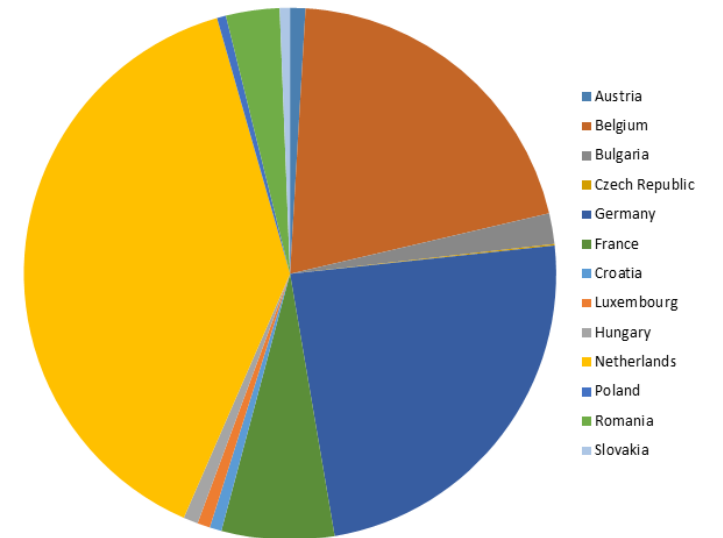
### Freight transportation in Belarus, Kazakhstan and Russia, k t



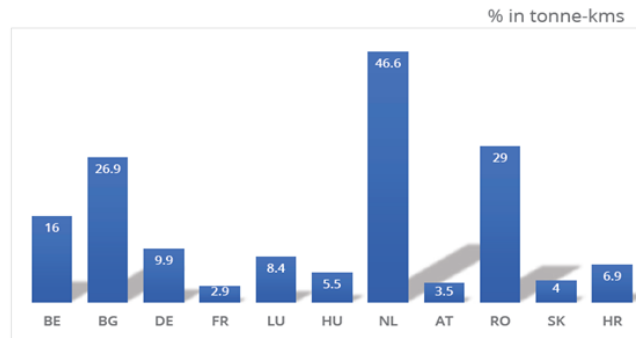
### Freight transportation in EU countries, k t



### EU countries share in freight transport (2015)



### Modal share of inland navigation by country



Source : Eurostat, 2014



Future

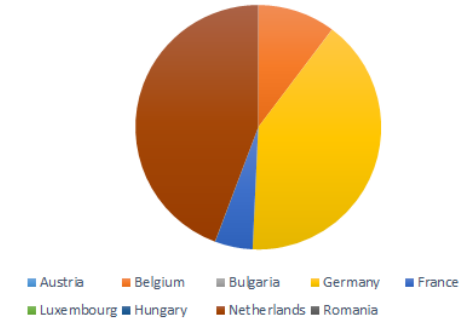


# Freight turnover by inland waterways in the UNECE region, mio t-km

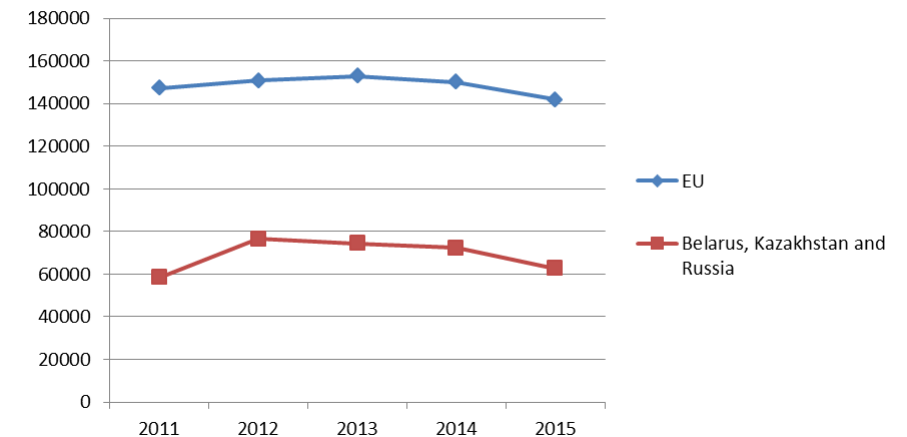
| Year | EU     | Belarus | Belgium | Bulgaria | Croatia | Germany | France | Hungary | Luxembourg | Netherlands | Romania | Russia | Kazakhstan | Ukraine* |
|------|--------|---------|---------|----------|---------|---------|--------|---------|------------|-------------|---------|--------|------------|----------|
| 2011 | 141970 | 143     | 9251    | 4310     | 692     | 55027   | 9035   | 1840    | 305        | 46462       | 11409   | 58174  | 78.5       | 7365     |
| 2012 | 149988 | 134     | 10420   | 5349     | 772     | 58488   | 8916   | 1982    | 290        | 47593       | 12520   | 76274  | 61.9       | 5325     |
| 2013 | 152796 | 84      | 10365   | 5374     | 771     | 60070   | 9213   | 1924    | 313        | 48627       | 12242   | ...    | 32.3       | 4615     |
| 2014 | 150877 | 49      | 10451   | 5074     | 716     | 59093   | 8803   | 1811    | 285        | 49295       | 11760   | 72320  | 26.6       | 5462     |
| 2015 | 147327 | 21      | 10426   | 5595     | 879     | 55315   | 8516   | 1824    | 235        | 48535       | 13168   | 62560  | 30.9       | 5434     |

\* Sea + river transport

EU Member States Share in freight turnover 2015



Freight turnover, mio t-km

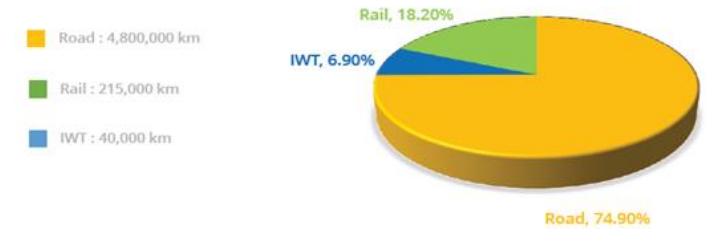




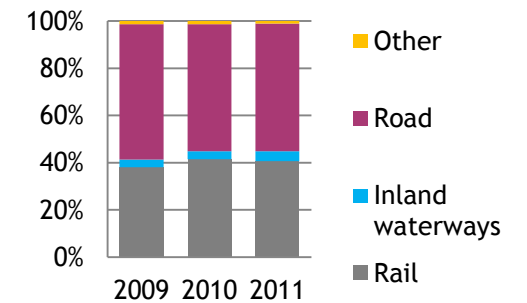
# Modal share of different modes of inland transport in the total freight turnover

|          | Belarus | Bulgaria                   | Hungary | France                        | Germany                       | Italy                         | Kazakhstan | Moldova  | Poland | Romania                       | Russia             | UK                            | Ukraine |
|----------|---------|----------------------------|---------|-------------------------------|-------------------------------|-------------------------------|------------|--|--------|-------------------------------|--------------------|-------------------------------|---------|
| Rail     | 45.4    | 8.3                        | 18.2    | 14.2                          | 22.4                          | 13.1                          | 54.6       | 24.9   | 15.0   | 23.9                          | 43.2               | 11.3                          | 80.5    |
| Road     | 20.7    | 44.9                       | 66.5    | 75.3                          | 62.4                          | 80.3                          | 30.6       | 75.0   | 71.6   | 52.6                          | 4.9                | 83.4                          | 13.3    |
| Pipeline | 33.7    | ...                        | 11.4    | 6.6                           | 3.3                           | 6.5                           | 14.1       | -  | 6.9    | 1.4                           | 49.4               | 5.2                           | 4.3     |
| Sea      | -       | 43.2                       | -       | ...                           | ...                           | ...                           | 0.7        | -  | 6.2    | ...                           | 0.8                | ...                           | 1.2     |
| IWT      | 0.1     | 3.6                        | 3.9     | 3.9                           | 11.9                          | 0.1                           | 0.01       | 0.01   | 0.3    | 22.1                          | 1.6                | 0.1                           | 0.6     |
| Air      | 0.03    | 0.0                        | 0.0     | ...                           | ...                           | ...                           | 0.01       | 0.04   | 0.0    | ...                           | 0.1                | ...                           | 0.1     |
| Year     | 2012    | 2011                       | 2012    | 2012                          | 2012                          | 2012                          | 2012       | 2012   | 2012   | 2012                          | 2013               | 2012                          | 2012    |
| Notes    |         | Without pipeline transport |         | Without sea and air transport | Without sea and air transport | Without sea and air transport |            | Without the left shore of the Dniester and Bendery |        | Without sea and air transport | With gas pipelines | Without sea and air transport |         |

Market share of transport modes in EU



Russian Federation





# Inland fleet of UNECE member States

| Year   | Belgium | Bulgaria | Czech Republic | Germany | France | Croatia | Kazakhstan | Italy | Lithuania | Hungary | Poland | Romania | Russia | Slovakia | Switzerland | UK  |
|--|---------|----------|----------------|---------|--------|---------|------------|-------|-----------|---------|--------|---------|--------|----------|-------------|-----|
| <b>Self-propelled vessels (dry cargo vessels, container vessels and tankers), tugs and pushers</b> |         |          |                |         |        |         |            |       |           |         |        |         |        |          |             |     |
| 2011   | 1022    | 29       | 44             | 1331    | 900    | 13      | 64         | 109   | 31        | 77      | 67     | 107     | ...    | 31       | 15          | 158 |
| 2012   | 972     | 27       | 40             | 1292    | 905    | 12      | 66         | 113   | 33        | 72      | 71     | 103     | ...    | 20       | 15          | 158 |
| 2013   | 972     | 24       | 32             | 1253    | 876    | 13      | 68         | 58    | 33        | 72      | 71     | 120     | ...    | 31       | 14          | 158 |
| 2014   | ...     | 31       | ...            | 1204    | 851    | 17      | 66         | ...   | 36        | 71      | 79     | 128     | 14785  | 23       | 13          | 158 |
| <b>Non-self-propelled vessels</b>  |         |          |                |         |        |         |            |       |           |         |        |         |        |          |             |     |
| 2011   | 271     | 149      | 145            | 1015    | 429    | 121     | 60         | 129   | 23        | 286     | 484    | 1097    | ...    | 144      | 5           | 287 |
| 2012   | 237     | 141      | 136            | 983     | 420    | 122     | 59         | 83    | 21        | 285     | 477    | 1131    | ...    | 146      | 6           | 287 |
| 2013   | 265     | 127      | 119            | 894     | 416    | 119     | 54         | 83    | 41        | 264     | 500    | 1152    | ...    | 141      | 5           | 287 |
| 2014   | ...     | 117      | ...            | 833     | 379    | 109     | 51         | ...   | 50        | 256     | 504    | 1137    | 8715   | 122      | 3           | ... |

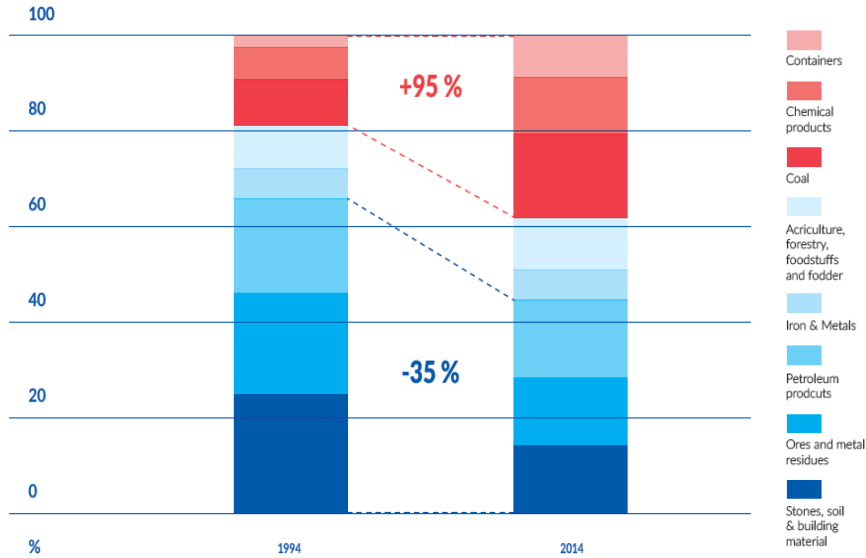




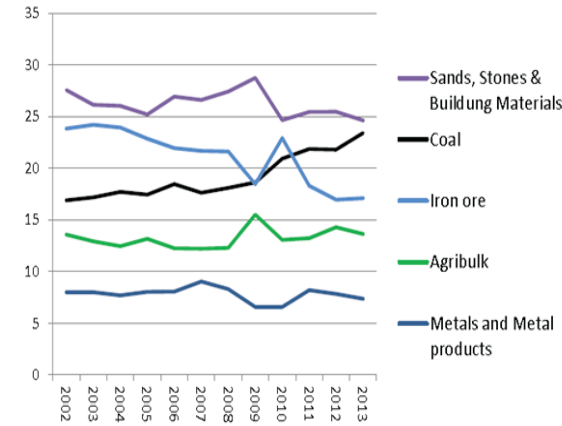


# Shares of individual goods segments in the inland shipping sector

COMPOSITION OF GOODS CARRIED ON THE RHINE

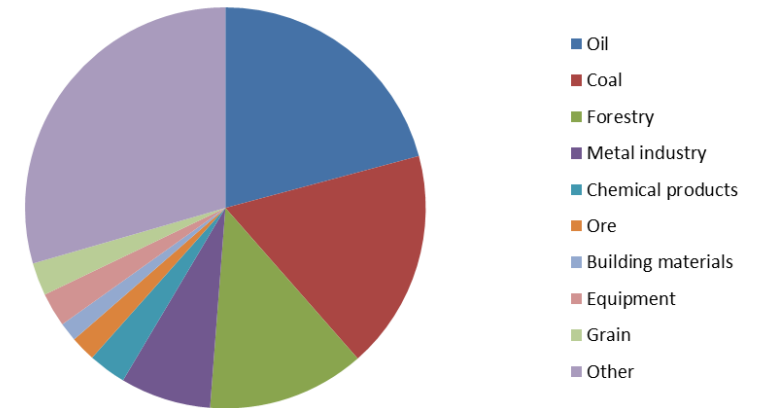


Shares of individual goods segments in total dry shipping sector transport volume on the Rhine (2002-2013)



Source: CCNR calculation

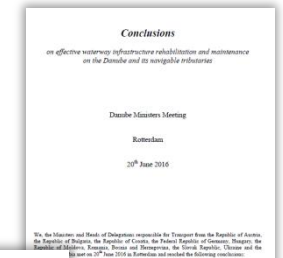
Russia, 2014





# IWT Policy in the UNECE region

- **CESNI and standards ES-TRIN**
- **Administrative arrangement between EU and the Danube Commission**
- **European Union Strategy for Danube Region**
- **Development of TEN-T corridors**
- **Danube Ministers meeting (Rotterdam, 20 June 2016)**
- **National strategies**
- **River Information Services: Digital Inland Waterway Area, ERDMS**
- **Good Navigation Status**





**Thank you for your attention!**

Website: [www.unece.org/trans/main/sc3/sc3.html](http://www.unece.org/trans/main/sc3/sc3.html)

