



(Source Eurosta	at in million 1	TKM)					STC E
Mode	Road		Rail		Inland navigation		Total
Country	mio TKM	%	mio TKM	%	mio TKM	%	mio TKM
Germany	347200	71%	76815	16%	66465	14%	490480
Belgium	32450	70%	7674	17%	6300	14%	46424
Finland	27500	72%	10107	27%	460	1%	38067
France	266500	81%	55448	17%	7260	2%	329208
Italy	184756	89%	22817	11%	200	0%	207773
Luxemburg	2350	72%	632	19%	300	9%	3282
Netherlands	45700	50%	3819	4%	41271	45%	90790
United Kingdom	165827	90%	18300	10%	200	0%	184327
Autria	26300	58%	16299	36%	2444	5%	45043
Total	1098583	77%	211911	15%	124900	9%	1435394















Comparison of Transport Modes Other Selection Criteria



- Overall transport and handling cost
- Transit time (door-to-door)
- Consignment security
- Service reliability
- Service comprehensiveness
- Availability of real time information

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Modality	Costs (cents/ ton-mile)	Energy (BTUs/ ton-mile)	Air Pollution	Unit capacity (tons)	Linehaul speed (miles/hr)	Flexibility
Water	0.3 - 3.0	990	Low	1,000 - 60,000	3 - 10	range of direct service is limited to areas adjacent to a waterway
Rail	1.0 - 8.0	1,720	Medium	50 - 12,000	20 - 40	permit "door-to-door" service between many inland ports
Truck	4.0 - 15.0	3,420	High	10 to 25	10 - 60	can provide "door-to-door" service to almost any inland point

















Multi Modal- and Intermodal Transport What is it? UNCTAD Definitions



Unimodal Transport: the transport of goods by one mode of transport, by one or more carriers.

Transport Documents:

If there is only one carrier, he issues his own transport document, e.g. a bill of lading, airway bill, consignment note

If there is more than one carrier, for example, carriage from one port via another port to a third port with transhipment at the intermediate port, one of the carriers may issue a "through bill of lading" covering the entire transport.

Depending on the back clauses of this through bill of lading the issuing carrier may be responsible for the entire port-to-port transport, or only for the part which takes place on board his own vessel.

Multi Modal- and Intermodal Transport What is it? UNCTAD Definitions



Intermodal Transport

The transport of goods by several modes of transport from one point or port of origin via one or more interface points to a final port or point where one of the carriers organizes the whole transport.

Transport Documents:

Depending on how the responsibility for the entire transport is shared, different types of transport documents are issued:

• <u>Segmented transport</u> - if each carrier only takes responsibility for his own track, he issues his own transport document, e.g. bill of lading, airway bill, consignment note.

• <u>Multimodal transport</u> - if the carrier takes responsibility for the entire transport, he issues a Multimodal Transport Document.





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Possession of equipment	Possession of ships	Market share	Main activities	Example companies
Non Carrier MTO (NC-MTO): without own equipment	Non Vessel Owning MTO (NVO-MTO) or Non Vessel Operating Common Carrier (NVOCC): without own ships	40 %	Forwarder Ship's Agent Trucker Integrator Railway Terminal Operator	Kühne & Nagel PAN Agencies Federal Express CSX Port of Seattle
Carrier MTO (C-MTO): has own equipment	Vessel Owning MTO (VO-MTO): has own ships	60 %	Conference Carrier Non Conf. Carrier Inland Water Carrier	Hapag Lloyd Evergreen Lines



ulti Modal Transport ontract relations: <i>Multimoda</i>	al standard c	ontracts
Туре	Negotiable	Functions
FBL FIATA Bill of Lading	Yes	Proof of Receipt Proof of Ownership Transport Contract
FCT : Forwarders Certificate of Transport	No	
FWB: FIATA Multimodal Transport Waybill	No	
Multidoc '95 Multiwaybill '95 Company-own B/L for MMT	Yes No Yes	



























Multi Modal Transport Combinations Conditions



Ideal practices for the transport modes involved

Example: if customs require that all containers should fully deconsolidate, to allow for a thorough cargo check, then the concept of intermodality is violated.

<u>Adequate terminal handling infrastructure</u> Sufficient capacity, fast handling, limited dwell time.

Efficient interfaces Interoperable sea/rail/road networks, prompt information flow, effective documentation processing and customs clearance)

Integrated infrastructure and transport means Intermodal design of the trans-European transport networks, harmonise standards for transport means, pricing, rules, exchange of information etc.