

UIC'S ROLE IN CORRIDOR DEVELOPMENT

Geneva, 27 May 2014

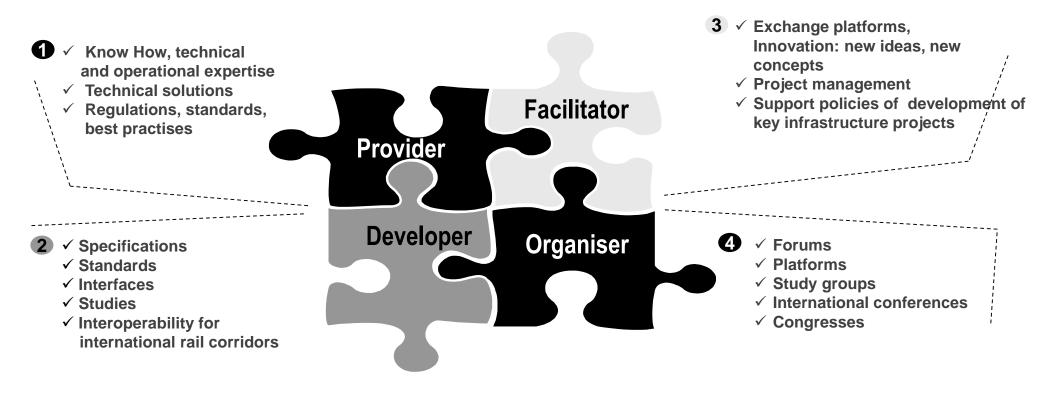
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UIC role - Promoting the development of rail transport at world level, in order to meet the challenges of mobility and sustainable development





Active cooperation of members on freight projects

	ined Transpo	rt Group			www.railfreightportal.com
	Wagon Load	Combined Traffic	Freight Forwarders		
	Wagon Exchange	Freight Ops.	Quality Mgm.		Rail Data
IMPRBT	TAF TSI Migration	Information Technology	Global Freight		GLOBAL
X rail					RAIL FREIGHT CONFERENCE
GCU Bureau Contract Contract of Use for weagers Contract Professor of Differences Contract Professor of Differences Contract Professor of Differences	Crail Freight		MARKET PLACE SEMINAR Rail Transport Connecting Continents Development of New Solutions in Rail Freight		



How does UIC support the development of intercontinental rail links?

GTE involvement

Role of UIC in support of intercontinental links

1. Provide a platform for exchange for all interested stakeholders (including customers)

- 2. Collect existing information on corridors (including terminals, accessability and harbours) and establish links with other associations and existing working groups (lcomod, Containerisation etc.)
- 3. Identify success conditions and target markets
- 4. Coordinate process towards interoperability in terms of infrastructure, technical conditions (rolling stock, signalling), operations, security, information flow/communication and railway law (integrate and support work of OTIF, CIT, OSJD)
- 5. Develop product features and business model

6. Commit key stakeholders to form project consortium and facilitate demonstration phase

Commercial traffic on corridor (no GTE involvement)





The ICOMOD project assessed the viability of a rail link between Asia and Europe

PROJECT OBJECTIVES



- Establish viability of a rail link between Asia and Europe
 - Assess market potential and quantify future rail scenario
- Assess routes and terminals between Asia and Europe
- Define required steps to attract more Asian-European traffic to rail





Rail transport from Asia to Europe has a significant market potential

Executive summary (1/2)

- Long-term (2030), rail transport between Asia and Europe is forecasted to reach a level of around 950,000 TEU p.a. This includes traffic from East Asia, Mongolia and Kazakhstan to the EU in both directions. Traffic from South Asia could add another 150,000 TEU in the long-term
- Already today, rail could hypothetically achieve a potential of 480,000 TEU p.a. if requirements were already fulfilled
- The rail potential is derived from a **volume-based forecast** with subsequent translation into TEU. It analyzes existing transport volumes and applies a growth scenario for the future
- Shift factors were applied to estimate the amount of TEU that could be attracted by rail from maritime transport. Shift factors were differentiated by commodities and, within China, by regions based on their proximity to the coast
- Currently, four viable route options exist: via port of Vostochny, via Manzhouli/Zabaikalsk, trans Mongolia – all of which continue on the TSR – , and trans Kazakhstan via Alashankou/Dostyk. TSR routes benefit from efficient and modern infrastructure, trans Kazakh routes are shorter
- In the long-term, route and terminal infrastructure as well as rolling stock and container equipment will **need to be modernized and adapted to future growth**





To make Eurasian rail transport successful, rail services need to be improved significantly along five key levers

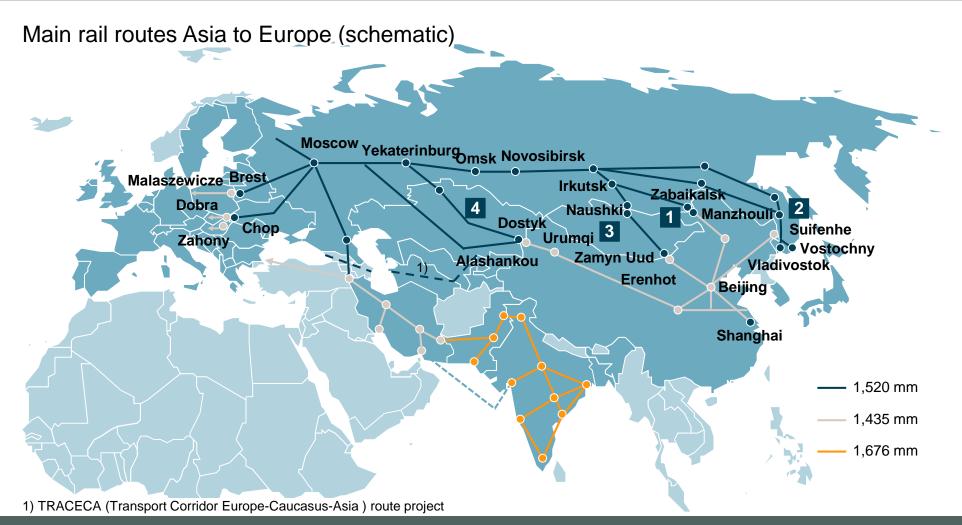
Executive summary (2/2)

- **Time** is the key differentiation for rail transport. Only **fast and reliable transport times** enable benefits compared to sea and trigger time-based monetary benefits for shippers
- **Predictability** is key to shippers/customers. **Reliability allows for price premiums** if timesensitive or production-critical materials/goods bear high opportunity costs
- Rail generates **highest benefits in hinterland areas for high-value goods**. Continental consolidation terminals should be optimized. High-value goods also qualify for rail from other origins
- Rail can compete with a **comprehensive price view**, i.e. needs to **include time-based benefits like working capital savings and lead time benefits** in its pricing strategies. Fast and reliable transport times are crucial to justify a rail price premium
- Rail needs to **complement its westbound services with eastbound solutions** to optimize rolling stock and container movements and availability at key origins. Infrastructure needs to be improved to accommodate the rail volumes and timing/reliability requirements
- **Frequency** of services needs to be increased and adapted to specific customer needs. Customs procedures need to be facilitated and, long-term, transferred into a **transit customs logic** with customs being handled in origin and destination terminals only





There are four key railway corridors from China to Europe all of which pass through Russia







To exploit the huge market potential, Eurasian rail services need to be improved significantly along key levers

Transport time	 Time is the key differentiation between rail and maritime transport.¹⁾ Only fast transport times enable benefits compared to sea and trigger monetary benefits for shippers Priority should be given to reliability/predictability rather than winning 1 or 2 days more
Reliability	 Predictability is key to shippers and customers Reliability allows for price premiums if time-sensitive or production-critical materials/goods bear high opportunity costs; reliability might differentiate rail if being further improved
Target markets	 Rail generates highest benefits in hinterland areas for high-value goods. It should optimize its product offer for these interfaces (continental consolidation points) Look for balanced traffic or combine shorter eastbound traffics along way back to Asia
Pricing	 Rail can compete with a comprehensive price view: D2D, working capital, lead time Working capital savings, time-to-market and built-to-order benefits allow for a price premium, but are highly dependent on fast and reliable transport times
Infrastruc- ture	 Infrastructure requires continuous updates and extensions for long-term rail success In addition, rail needs to complement its westbound services with eastbound solutions to optimize rolling stock and container availability at key origins
Frequency, flexibility	 Unpredictable frequency reduces attractiveness of rail. A regular service is entry condition for many customers Target frequency of at least 1-2 departures per week, ideally more than 3
Customs	 Improvements urgently required, but also related to mistakes by operators/shippers CIM/SMGS consignment note and paperless transport keys to accelerate border crossing Transit customs logic: customs only at O/D terminals





Rail should focus on specific commodities – Anything else only opportunistically

Volumes – Analysis of interview

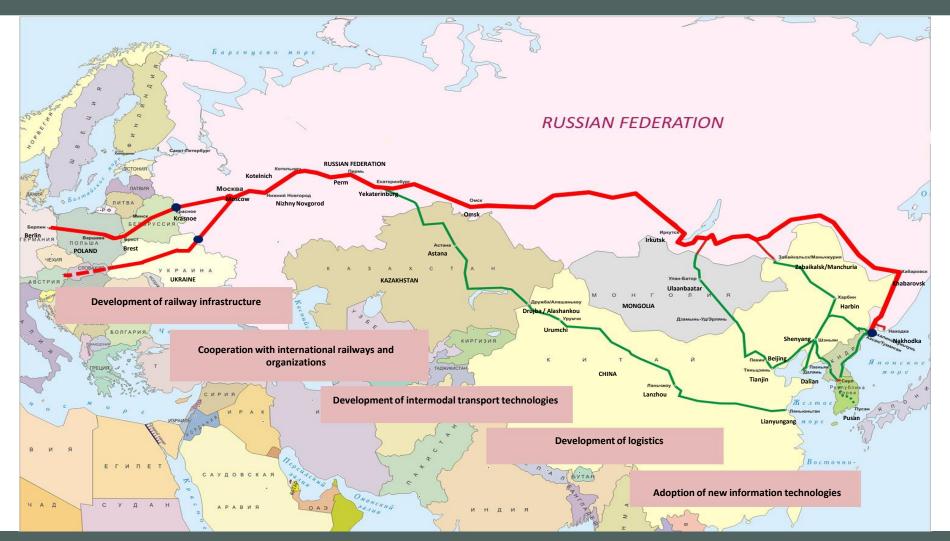
COMMODITIES ¹⁾	TARGET FOR RAIL	COMMENTS		
High-value		 Highest working capital savings, also potential from non-inland locations 		
Automotive, parts		 Time sensitive, just-in-time production, high value, often heavy 		
High-tech, electronics, computers		 Mostly confirmed as target commodity, but also contradicting assessments (temperature sensitive) Mostly high-value, sometimes high volume at low weights 		
Chemicals		 Contradictory assessments, low containerization for high-value chemicals Dangerous goods mostly seen critical due to complex permissions, but also critical on sea. Potential for niche positioning of rail 		
Spare parts		Time sensitive, but singularly mentioned in interviews only		
White cargo		 Only singularly mentioned in interviews; high volumes and high weight 		
Health care		Only singularly mentioned in interviews		
Fashion		Time-sensitive character before start of seasons, otherwise price sensitive		
Food	\bullet	Only singularly mentioned in interviews; temperature/cooling issues		

1) Partly overlapping





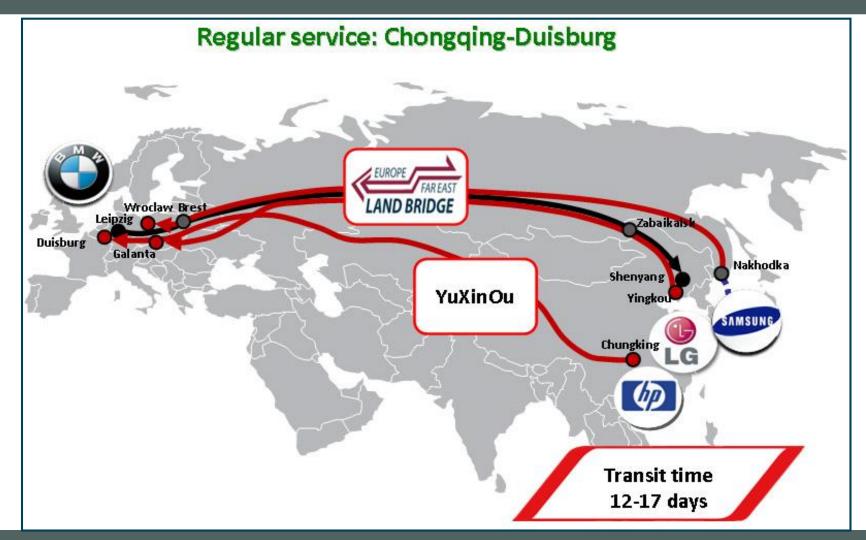
The Trans-Siberian Mainline: a link between Europe and Asia





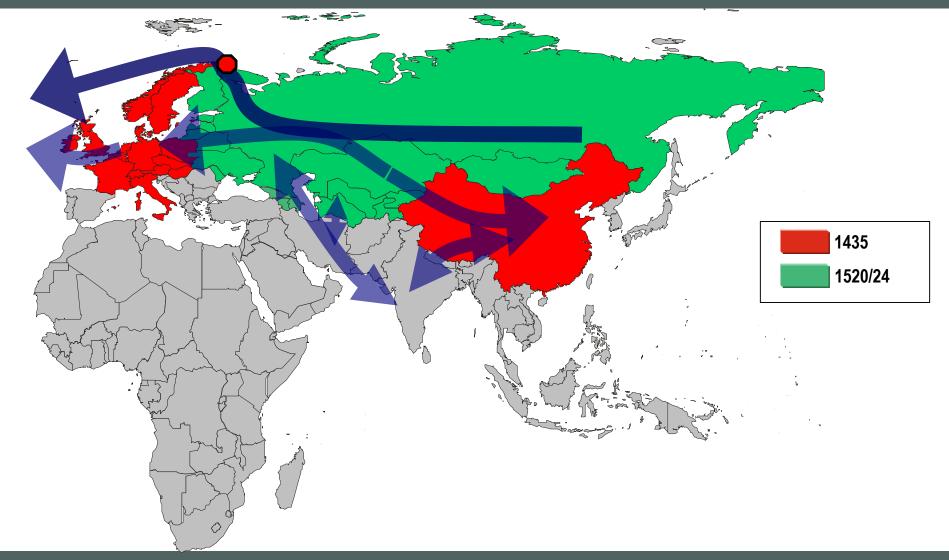


Transport products on TSR: China – Russia – Europe





The 1520 mm rail system could become a strategic turntable for major traffic streams







E-rail Freight. Electronic Consignment Note (ECN)

Electronic data exchange of Consignment Note (ECN)

- between all involved parties;
- Simultaneously with data entry.

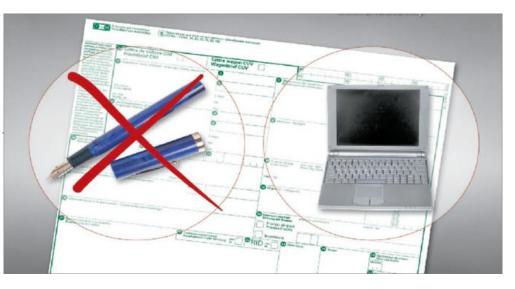
Paperless Transport

- Information flow will be independent from and ahead of the physical train movement

Data available at any time

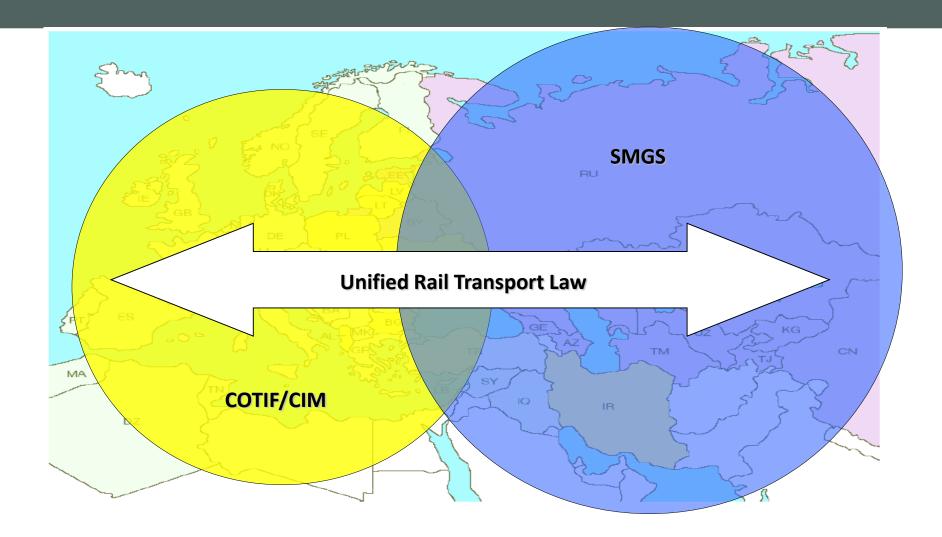
- By all kind of technical devices as print out and where needed
- Rail production and commercial facilities
- Customs and other supervisory authorities

Interoperable in different legal areas (CIM/SMGS)





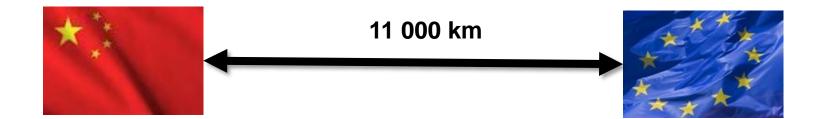
Unified Rail Transport Law

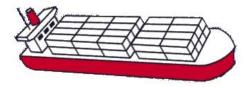




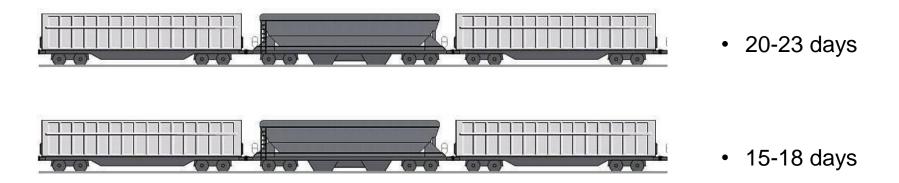


Transport Time





• 40-45 days





The Corridor challenge ECCO – Efficient Cross Corridor Organisation

EU n°913/2010 Defines, on 9 initial corridors, rules for the: -Selection -Organization -Management -Indicative investment planning -etc.

NO COORDINATION BETWEEN CORRIDORS REQUIRED BY LEGISLATION







Geographic coverage of the concept – any region of the world



September 2010

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Railway freight corridors: definition criteria

- Freight traffic density
- Freight transportation volume
- Daily traffic handling capacity, including transit train pairs
- Availability of dry ports, logistic and cargo distribution centres along the route
- Possibility of using common/unified documents (consignment notes)
- Possibility of electronic data exchange, including electronic consignment notes, digital signature etc.
- Availability of "one-stop" solutions at border crossings

Time needed for border crossing



Test container train launch technology

- Providing cargo base, wagons and containers for the test train.
- Defining the technical and operational profile of the test train.
- Ensuring the usage of unified transportation documents (e.g. the common CIM/SMGS consignment note).
- Agreeing the route for the test train.
- Defining the test train schedule.
- Agreeing the through tariff rate for the test train.
- Defining the train operator and forwarders on each territory.
- Performing the test run, monitoring.
- Evaluating results and preparing recommendations.



The 4th UIC Global Rail Freight Conference "Seamless Transport Chains through Harmonisation – Success Stories and Global Perspectives for Rail Freight"



The sessions of the 4th UIC Global Rail Freight Conference will focus on the latest developments and perspectives in the following areas:

"Harmonisation of Procedures and Standardisation" "Spatial Planning and Rail Freight" "Logistics and Integration on Rail Corridors" "How to gain new Market Shares?" "Innovation and New Technological Trends", etc.

In parallel to the conference and session programme, "GRFC 2014" will host a professional trade exhibition at the Hilton Stadtpark Vienna.

23 - 26 June 2014

Vienna, Austria

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Thank you for your kind attention

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Group of Experts on Euro-Asian Transport Links, 10th session