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UNESCAP Time/Cost-Distance Model

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What is UNESCAP Time/Cost-Distance Model

Need to identify – isolate – address bottlenecks

Methodology for international route analysis

Time/cost

Distance

Transport to border

Border crossing

Transport to sea port

Wait at sea port

Sea transport
Cost structure for export, Vientiane – Danang Port

Source: The Author
Cost structure for export, Vientiane – Bangkok Port

Source: The Author
Comparison of border crossing time (hours)
Comparison of border crossing costs (US$ per TEU)

- Lao-Thai: $131
- Lao-Vietnam: $100
- Mongolia-China: $293
- Mongolia-Russia: $155
- Nepal-India: $124
- *Kazakhstan-Russia: $200
- *Uzbekistan-Turkmenistan: $650
Implementation of Demonstration Runs of Container Block Train

1. 8-11 November 2003
   - Distance: 1,700 km
   - Time: 75 hours 20 min.
   - Speed: 22.5 km/h - 541 km/day

2. 22-29 April 2004
   - Distance: 5,020 km
   - Time: 7 days 6 hours
   - Speed: 29 km/h - 692 km/day

3. 15-24 June 2004
   - Distance: 7,200 km
   - Time: 8 days 16 hours
   - Speed: 35 km/h - 830 km/day

4. 6-18 July 2004
   - Distance: 10,350 km
   - Time: 12 days 8 hours
   - Speed: 35 km/h - 837 km/day
Sample Application

Time (hours)

Distance (km)

Brest
0 Km

Krasone

Sukhbaatar
6,798 Km

Ulaanbaatar
7,200 Km

Naushki
6,778 km

Compression
Year 2002 statistics
Year 2004 Demonstration run
Thank you for your attention