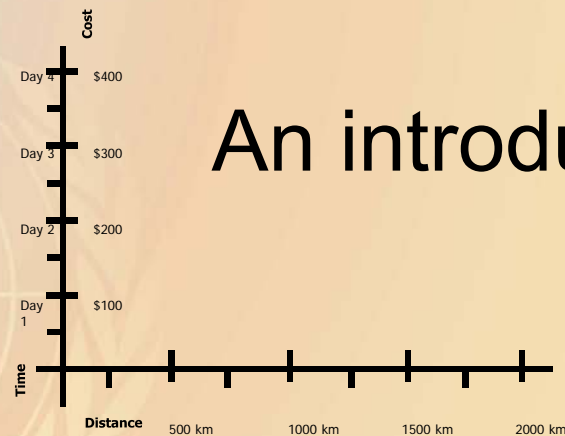


Analyzing Transport Efficiency

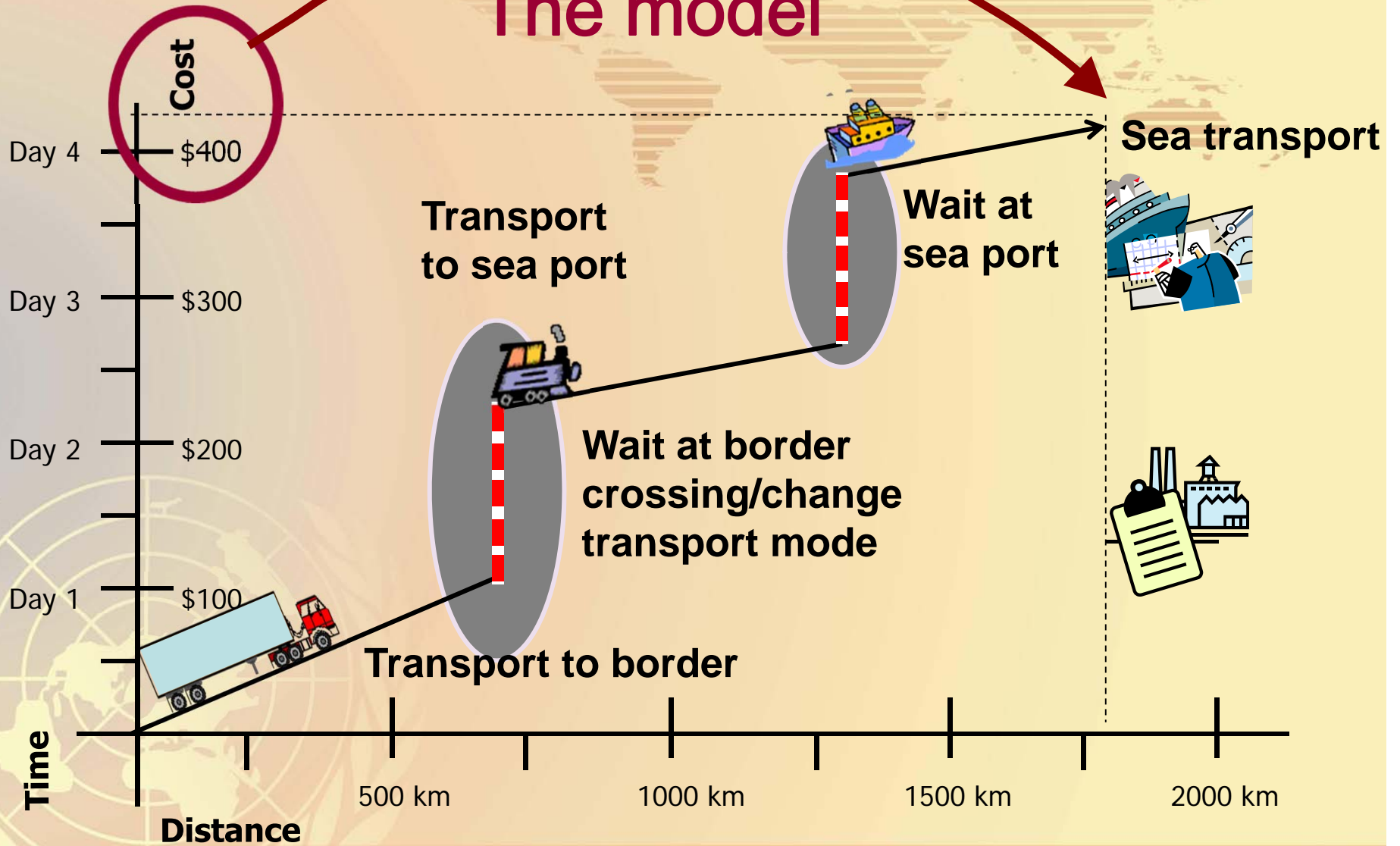
UNESCAP Time/Cost - Distance Methodology



An introduction

Destination

The model

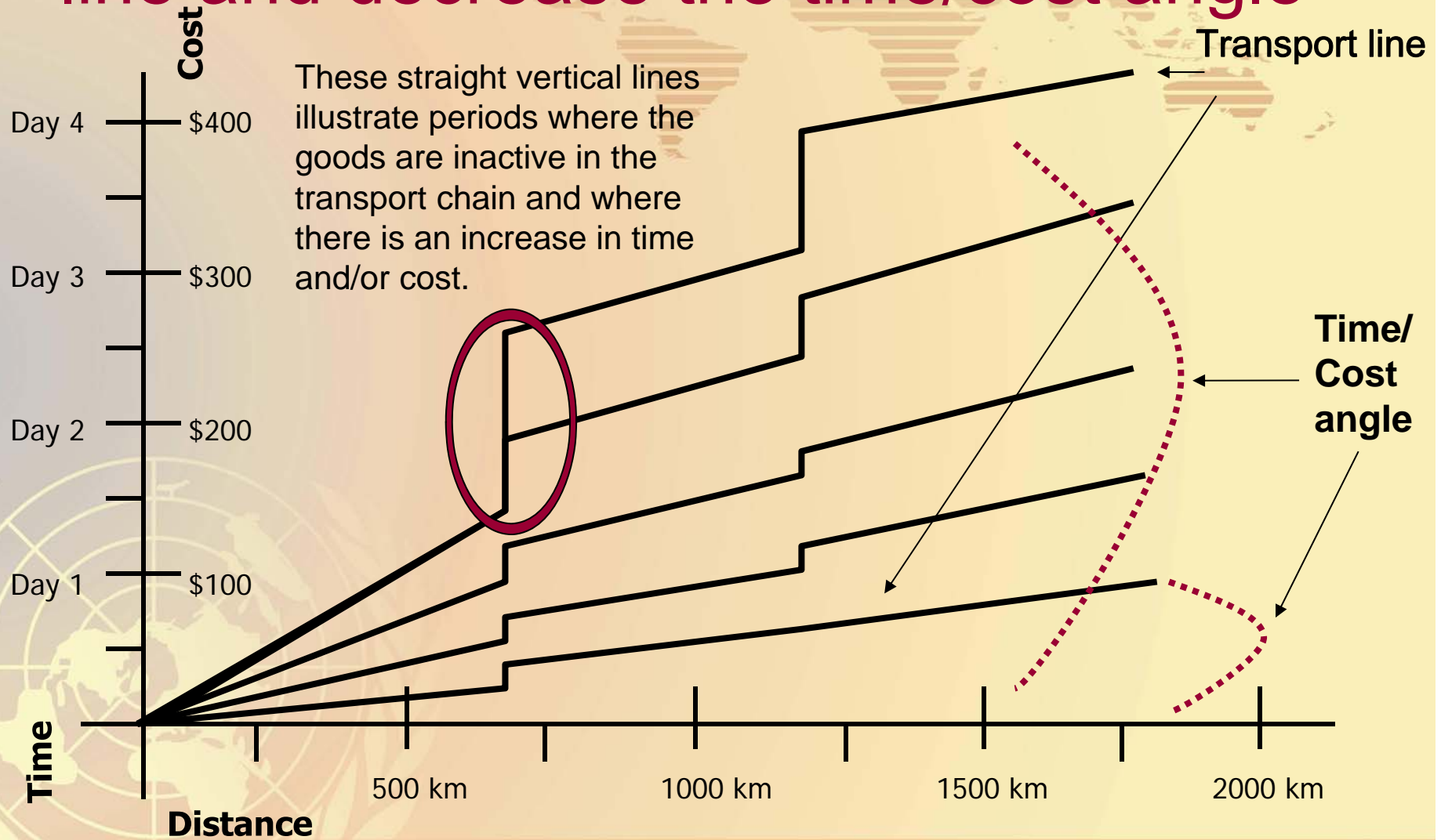


Point of Origin

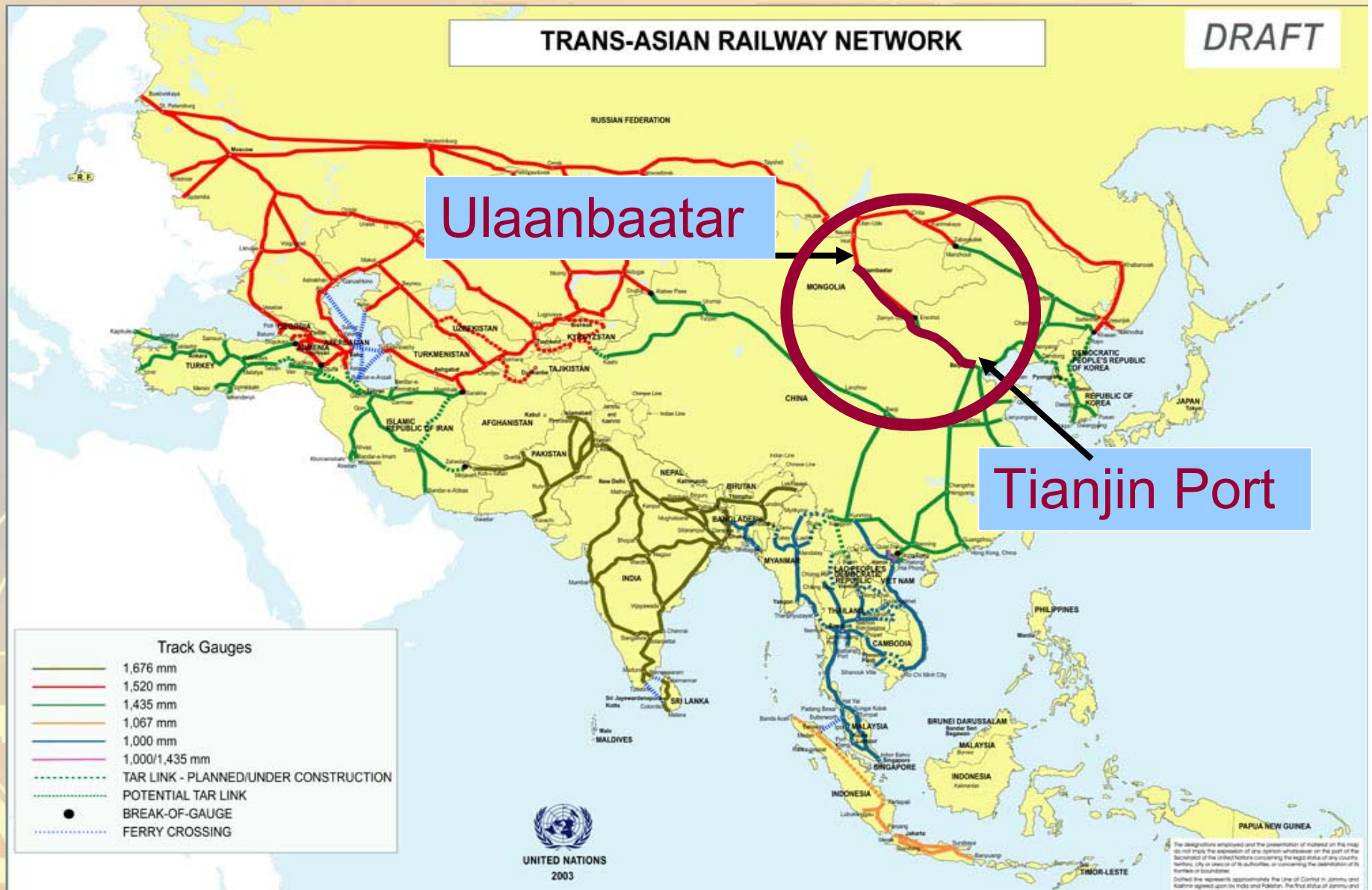
Benefits:

- Simple to use
- Provides a ‘snap-shot’ of the present situation
- Can track changes over time
- Possibility of comparing alternative routes
- Can be understood by all
- Powerful instrument for international cooperation

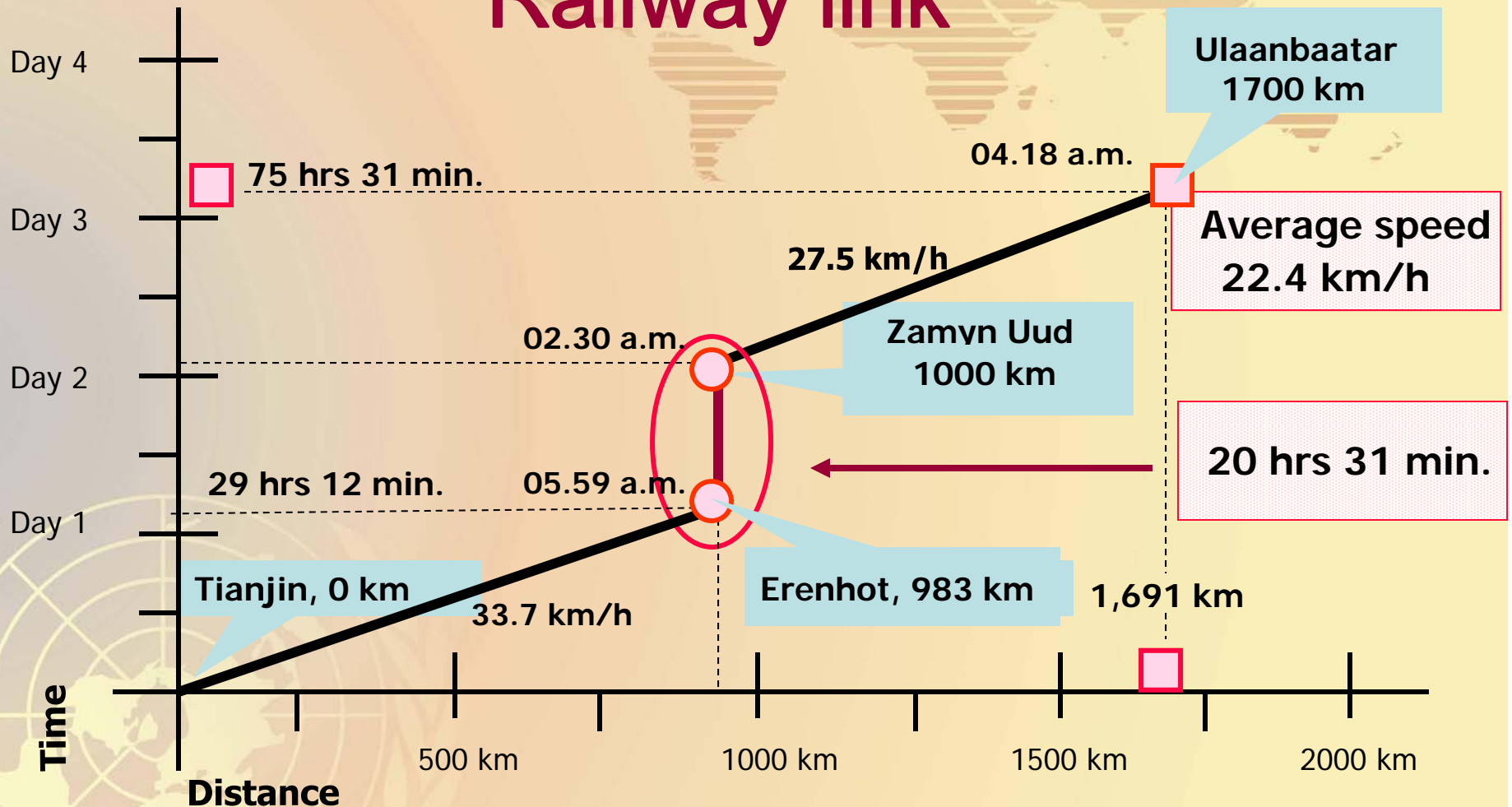
Objective to straighten the transport line and decrease the time/cost angle



Example: Tianjin-Ulaanbaatar Railway link



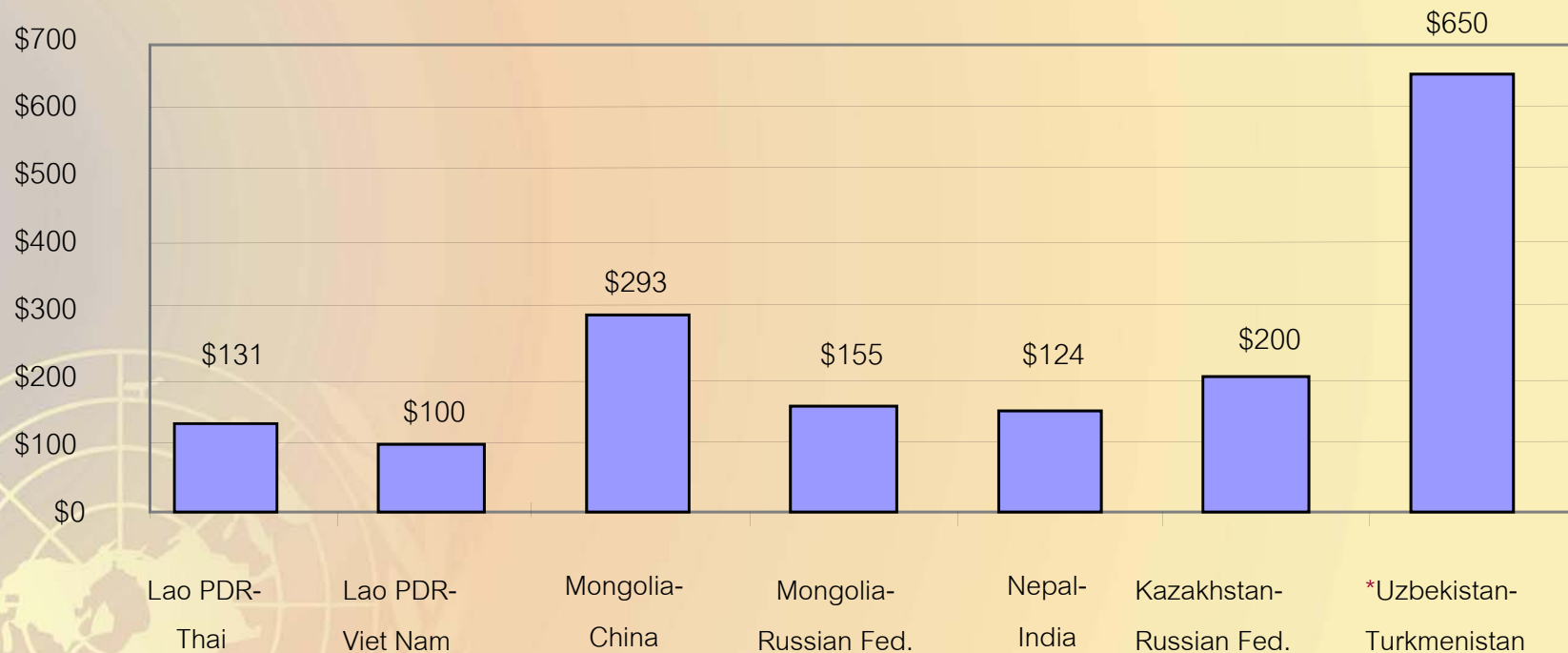
Example: Tianjin-Ulaanbaatar Railway link



- Transshipment: 3 hrs. 20 min. (3.5 min. per box)
- Shunting + train formation: 3 hrs. 35 min.
- Customs: China, 3 hrs. 00 min.
- Customs: Mongolia, 4 hrs. 50 min.

Other benefits – Comparison of Border Crossings by Cost or Time

Cost per TEU



* Estimated from cost of standard European 12 meter semi trailer.

Minimum Information Required:

- **Route** from origin to destination, including border crossings
 - (e.g. Tianjin to Ulaanbaatar via Erenhot and Zamyn Uud border)
- **Mode** of transport for each leg
 - (e.g. Road/Rail/Sea/Air)
- **Distance** for each leg/mode
 - (e.g. Tianjin to Erenhot = 983Km)



- **Time** for each leg/mode
 - (e.g. Tianjin to Erenhot = 29hrs 12min)
- **Cost** for each leg/mode
 - (e.g. Tianjin to Erenhot = \$xxx)

Collection of data

- This can be done by brief telephone interview with either
 - A freight forwarder
 - A transport operator

For further information

For comments and/or suggestions please contact us at:

www.unescap.org/our-work/transport

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