Group Exercise on the Time/Cost-Distance Methodology

- Basic Template Version -

Overview - Kampala - Mombasa - Shanghai



Where to get the data?

Road and Air

- Time and distance
- <u>https://www.google.com</u>
- Waze app
- Average travel time and distance automatically calculated
- <u>Costs</u>
 - Freight forwarder
 - Kenya International Freight and Warehousing Association (KIFWA)
 - Federation of East African Freight Forwarders Associations (FEAFFA)

Sea

- Time and distance
- <u>https://sea-distances.org/</u>

- Average ship speed
 - Container ship 18 knots
 - Bulk carrier 14 knots
- <u>Costs</u>
 - <u>https://worldfreightrates.com/freight</u>
 - TEU Value \$k

The questionnaire – One MS Excel worksheet, three parts





How to fill out Part I of the questionnaire?

a	Date of questionnaire completion:	10-May-2019
b	Route description:	Kampala to Shanghai
С	Goods:	Tea
d	Quantity:	1 TEU
е	Nationality of driver:	Ugandan
f	Country of vehicle registration:	Uganda
g	Effective date of transport start:	1-May-2019
h	Effective delivery date of goods:	21-May-2019
i	Was the transport performed under an international transit system (e.g. TIR, NCTS)?	No
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- Row A. Please insert the date of questionnaire completion.
 - B. Please provide a description of the route (e.g. place of departure and destination).
 - C. Please choose the type of goods and indicate, whether it is only one type or different types of goods.
 - D. Please indicate the quantity and/or value of the goods transported.
 - E. [for road only] Please enter the nationality of the driver is important for road transport.
 - F. [for road only] Please enter country of vehicle registration.
 - G. Please provide the date when the goods are supposed to leave the place of departure.
 - H. Please provide the date when the goods are supposed to arrive at their final destination.
 - Please indicate any international transit system which has been used for the Ι. chosen transport, if the transport is not an international system then please say so in your response.

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How to fill out Part II of the questionnaire? – I/IV

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в	С	D	E	F	G	Н	1	J	К	L	М	N
Data	table (Please fill in the high	nlighted cells a	and scroll dov	in to s	ee how	/ the data tran	slates into the graphs of	f "Time to Distance" and "C	ost to	Distanc	;e.")	
Lin e no.	Place of departure (place and country)	Mode of transport	Distance to next stop (km)	Dura o tra hrs	tion f vel min	Costs while en route (in USD)	Place of next stop (place and country)	Reason for stop	Dur of hrs	ation stop	Costs at stop (in USD)	Description of actions taken (e.g. procedures, formalities applicable to the section of the route). Please also provide a bree down of costs as well as a break-down of time used for individual procedures (e.g. customs, fueling).
ĩ	Vientiane (Lao PDR)		0	0	0	\$0.00	Vientiane (Lao PDR)	Place of Departure (Pre- shipment formalities and loading)	24	0	\$28.17	Break-down of costs: \$18 for customs papers, \$10.17 for uploadi Break-down of time: 17 hours for uploading, 3 hours waiting, 4 ho customs procedures
2	Vientiane (Lao PDR)	road	25	1	30	\$112.68	Thanaleng (Lao PDR)	intermediate Stop	4	0	\$140.00	At stop: clearance (1hr, no cost) , storage and loading (3 hrs, \$14) during travel: \$112.68 for operational costs
3	Thanaleng (Lao PDR)	road	0	0	0	\$0.00	Friendship Brido (Lao PDR)	Fuit Border Croccing Intermediate Stop	•	0	\$0.00	customs and other formalities
6	Friendship Bridge (Lao PDR)	road	3	0	30	\$0.00	Nongkai (Thailand)	Exit Border Crossing Entry Border Crossing Final Destination		0	\$85.00	gate fee (\$ 20, 2 hrs wait period), weight fee (\$20, 1hr), unloading p transit entry document (\$45, 2 hrs)
8	Nongkai (Thailand)	road	630	19	0	\$676.00	Bangkok Port (Thailand)	Intermediate Stop		0	\$92.00	Unloading,/loading, storage, seal inspections, clearances
9	Bangkok Port (Thailand)	ship	1,540	96	0	\$230.00	Port of Singapore (Singapore)	Intermediate Stop	24	0	\$0.00	waiting for transshipment, feeder connection (24 hrs)
10	Port of Singapore (Singapore)	ship	15,359	54	0	\$1,602.00	Rotterdam Port (Netherlands)	Final Destination	0	0	\$0.00	

- Please fill out all of the highlighted cells in Part II of the questionnaire.
- Please read each line from left to right. Each line captures one section of the journey (i.e. from one stop to another).
- Please note that the cells circled contain drop-down menus, which you see when clicking on the cell. Please choose your answers from the drop-down menu.

How to fill out Part II of the questionnaire? – II/IV

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17	Lin e no.	Place of departure (place and country)	Mode of transport	Distance to next stop (km)	Dura (tra	ation of vel	Costs while en route	Place of next stop (place and country)	Reason for stop	Du of	ration stop	Costs at stop (in USD)	Description of actions taken [e.g. procedures, formalities applicable to the section of the route). Please also provide a break down of costs as well as a break-down of time used for individual
18	- 76		-		hrs	min	(in USD)	5	Discuss (Describer (Des	hrs	min		procedures (e.g. customs, raening).
20	1	Vientiane (Lao PDR)	2	0	0	0	\$0.00	Vientiane (Lao PDR)	shipment formalities and loading)	24	0	\$28.17	Break-down of costs sie for customs papers, situin for uploading Break-down of time: 17 hours for uploading, 3 hours waiting, 4 hours customs procedures
21 22	2	Vier 1 DR)	road	25	٦	30	\$112.68	Thanaleng (Lao PDR)	Intermediate Stop	4	0	\$140.00	At stop: clearance (1hr, no cost), storage and loading (3 hrs, \$140) during travel: \$112.68 for operational costs
23 24	3	Thanaleng (Lao PDR)	road	0	0	0	\$0.00	Friendship Bridge (Lao PDR)	Exit Border Crossing	0	8	0.00	oustoms and other formalities
25 26	6	Friendship Bridge (Lao PDR)	road	3	0	30	\$0.00	Nongkai (Thailand)	Entry Border Crossing	5	->	285.00	e (\$ 20, 2 hrs wait period), weight fee (\$20, 1hr), unloading plu sit entry document (\$45, 2 hrs)
27		Name and all (The Rese d)	Sector:	000	in the	41.882	4070.00	Bangkok Port	10000000000	200		400.00	(hele a discultant discultant and the second states a discussion of

- **Step:** 1. Enter the name and the country that indicate the place of departure. For example: Kampala, Uganda
 - 2. Enter the total amount of time spent at the place of departure by providing the hours and the minutes. Please enter the total amount of time (For example: 20 minutes for fueling, 15 minutes for customs and 5 minutes at the restroom, then please enter 40 minutes).
 - 3. Fill in the amount of costs incurred at the place of departure. If you have several payments, please insert the total amount only (For example: "\$28.17" or if you paid 50 USD for fuel and 10 USD at customs, then please enter "\$60").
 - 4. Describe any actions (e.g. fueling, rest period) undertaken at the stop and provide details, if applicable, regarding the break-down of the time spent (see step 2) and of the different costs (see step 3).

Kampala - border



How to fill out Part II of the questionnaire? - III/IV

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A	B	с	D	E	FG	н	1	J	К	L	М	N
17	Lin e no.	Place of departure (place and country)	Mode of transport	Distance to next stop (km)	Duration of travel hrs min	Costs while en route (in USD)	Place of next stop (place and country)	Reason for stop	Dur of hrs	ation stop min	Costs at stop (in USD)	Description of actions taken (e.g. procedures, formalities applicable to the section of the route). Please also provide a break- down of costs as well as a break-down of time used for individual procedures (e.g. customs, fueling).
R	1	Vientiane (Lao PDR)	2	6	0 0	\$0.00	Vientiane (Lao PDR)	Place of Departure (Pre- shipment formalities and loading)	24	0	\$28.17	Break-down of costs: \$18 for customs papers, \$10.17 for uploading Break-down of time: 17 hours for uploading, 3 hours waiting, 4 hours customs procedures
'	2	Vientiane (Lao PDR)	beor	25	1 30	\$112.68	Thanaleng (Lao PDR)	Intermediate Stop	4	0	\$140.00	At stop: clearance (1hr, no cost) , storage and loading (3 hrs, \$140) during travel: \$112.68 for operational costs
1	3	Thanaleng (Lao PDR)	5) 0	7	8	Frie 9 dge	E 10 ting (1	1	12	ustoms and other formalities 13

- **Step:** 5. Choose from the drop-down menu the mode of transport used to get from departure to next stop.
 - 6. Enter the distance in kilometer from departure to next stop.
 - 7. Enter the duration of the journey from departure to next stop by providing the hours and the minutes.
 - 8. Enter the costs of the journey from departure to next stop in USD.
 - 9. Enter name of place and country of next stop.
 - 10. Choose from the drop-down menu the best description of the nature of the stop.
 - 11. Enter the total amount of time spent at the stop (in hours and minutes).
 - 12. Fill in the total amount of costs incurred at the stop.
 - Describe any actions (e.g. fueling, rest period) undertaken at the stop and provide details, if applicable, regarding a break-down of the time spent (see step 7 and 11) and of the different costs (see step 8 and 12).

Border - Nairobi



How to fill out Part II of the questionnaire? – IV/IV



Please repeat the steps of row 2 for as many rows as you have stops before reaching the final destination. (In the example there are rows 3 to 6, see slide **XII**.)

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When reaching the final destination, please fill out the last row (highlighted cells only):

Step :	14. Please choose from the drop-down menu the mode of transport used to get from departure to next stop (same as step 5).
Step :	15. Please enter the distance in kilometer from departure to next stop, which will be the final destination (similar to step 6).
Steps 16 and 17:	 Please enter the duration and the costs of the journey from departure to next stop in hours.
Steps 18 and 19:	 Please enter name and country of the final destination. Choose from the drop- down menu "Final destination".
Steps 20, 21 and 22:	 Please enter the total amount of time and costs spent at the final destination for individual activities. Add a detailed description of activities.

Nairobi - Mombasa



Part III: How to plot the graphs?

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17	Lin e no.	Place of departure (place and country)	Mode of transport	Distance to nest stop (km	Dur. tra	of ovel	Costs while en route	Place of sext stop (place and country)	Reason for stop	Dur of	ation stop	Costs at stop (in USD)	Description of actions takes (e.g. procedure, formalities applicable to the section of the route). Please also provide a break- down of costs as well as abreak down of time used for individual procedures is a section Station.
20	1	Ventiane (Las POP)		a	0	e e	\$0.00	Ventare (Lao POR)	Place of Departure (Pre- shipment iomaities and loading)	24	0	\$29.17	Break-down of costs: \$15 For outcome supers, \$10.17 for opticaling. Break-down of dime. 17 hours for uploading. 3 hours valing, 4 hours customs procedures
21	2	Vientiane (Lao POR)	rcad	25	1	30	\$112.68	Thataleng (Lao POR)	Intermediate Stop	•	0	\$140.00	At stop, clearance (Tir, no cost), storage and loading (3 km, \$140) during travel: \$112.58 for operational costs
23	3	Thanaleng(Leo PDR)	road	a	0	0	\$0.00	Friendship Bridge (Lao PDR)	Exit Border Crossing	0	0	\$0.00	customs and other formalities
25	4	Friendship Bridge (Lao FDR)	road	3	0	30	\$0.00	Nongkai(Thailand)	Entry Border Crossing	5	0	\$95.00	gate fee (\$ 20, 2 hrs wait period), weight fee (\$20, "hr), unloading plan transit entry document (\$45, 2 hrs)
27	5	Nongkai (Thailand)	road	600	19	0	\$676.00	Bangkok Port (Thailand)	Intermediate Stop	24	0	\$92.00	Unleading Reading, storage, seal inspections, clearances
29 30	6	Bangkok Port (Thailand)	ship	1,540	36	0	\$230.00	Port of Singapore (Singapore)	Intermediate Stop	24	0	\$0.00	waiting for transchipment, feeder connection (24 hrs)
\$1 32	7	Port of Singapore (Singapore)	ship	15,359	54	0	\$1,602.00	Rotterdam Port (Netterlands)	Final Destination	0	0	\$0.00	
34 35 4 29 40 41 42 45 44 45 46 47 48 49 10 51 10 10	Tana Andrews		200 4.100	Ti	ine .				000,58 000,58 000,58 000,58 000,6 000,6 000,6 000,6 000,7 000,7 000,0 000,0 000,0 000,0 000,0 000,0 00,000000	1	2.550	4300 10	Cost

• The individual charts "Time over Distance" (left) and "Cost over Distance" (right) are plotted automatically as a function of the information you entered into the highlighted cells.

Time

