

# **CPMM 2011 – Implementation of CPMM 2011**

**Corridor Performance Measurement and  
Monitoring**

**25 February 2011  
Chongqing, People Republic of China**

# Contents

- 1 New Drivers' Form
- 2 New CPMM Template
- 3 Definition of Terms

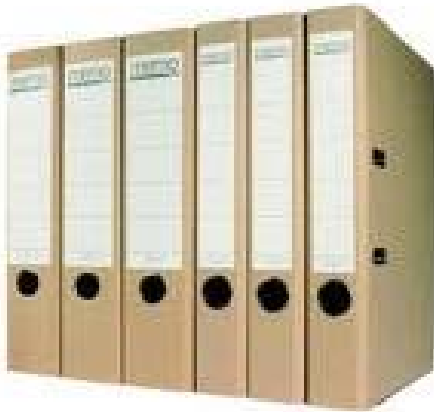
# Driver's Form



Important document.

Can use a form with local language.

Use ID to keep track of each form.



You need to keep them in the files, for reference in future.

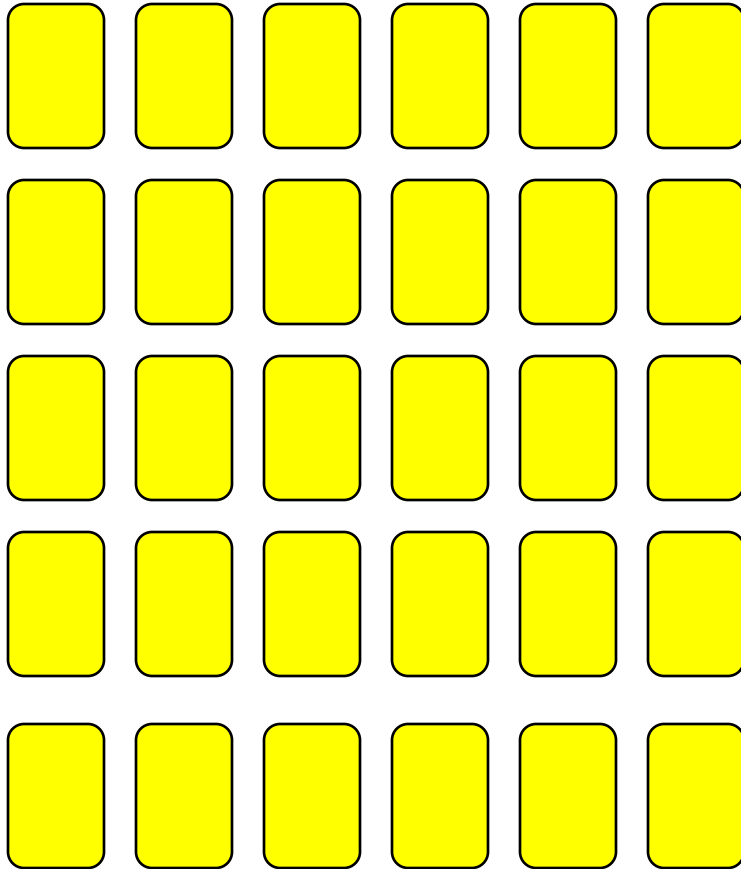
# Contents

1 New Drivers' Form

2 New CPMM Template

3 Definition of Terms

# Previous Template

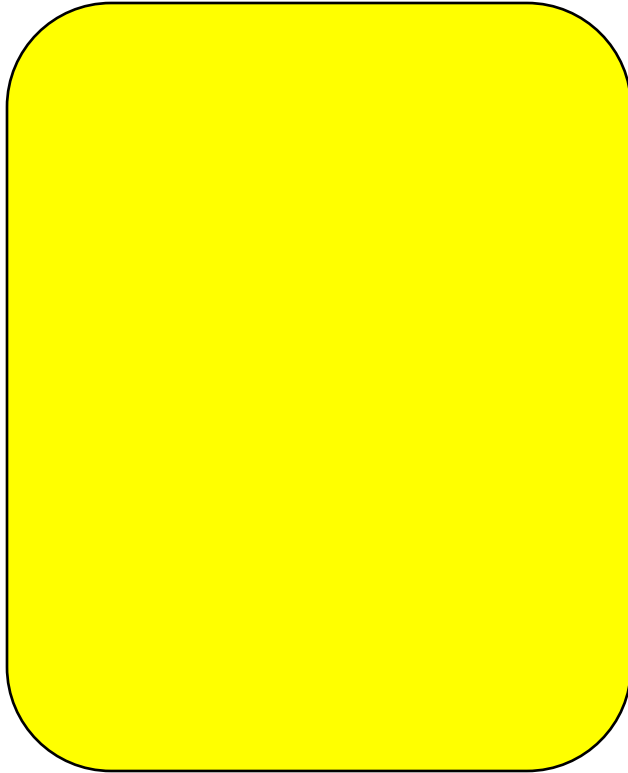


Needs to use 30  
different files

Difficult to  
aggregate data at  
local level

File size is huge

# New Template 2011

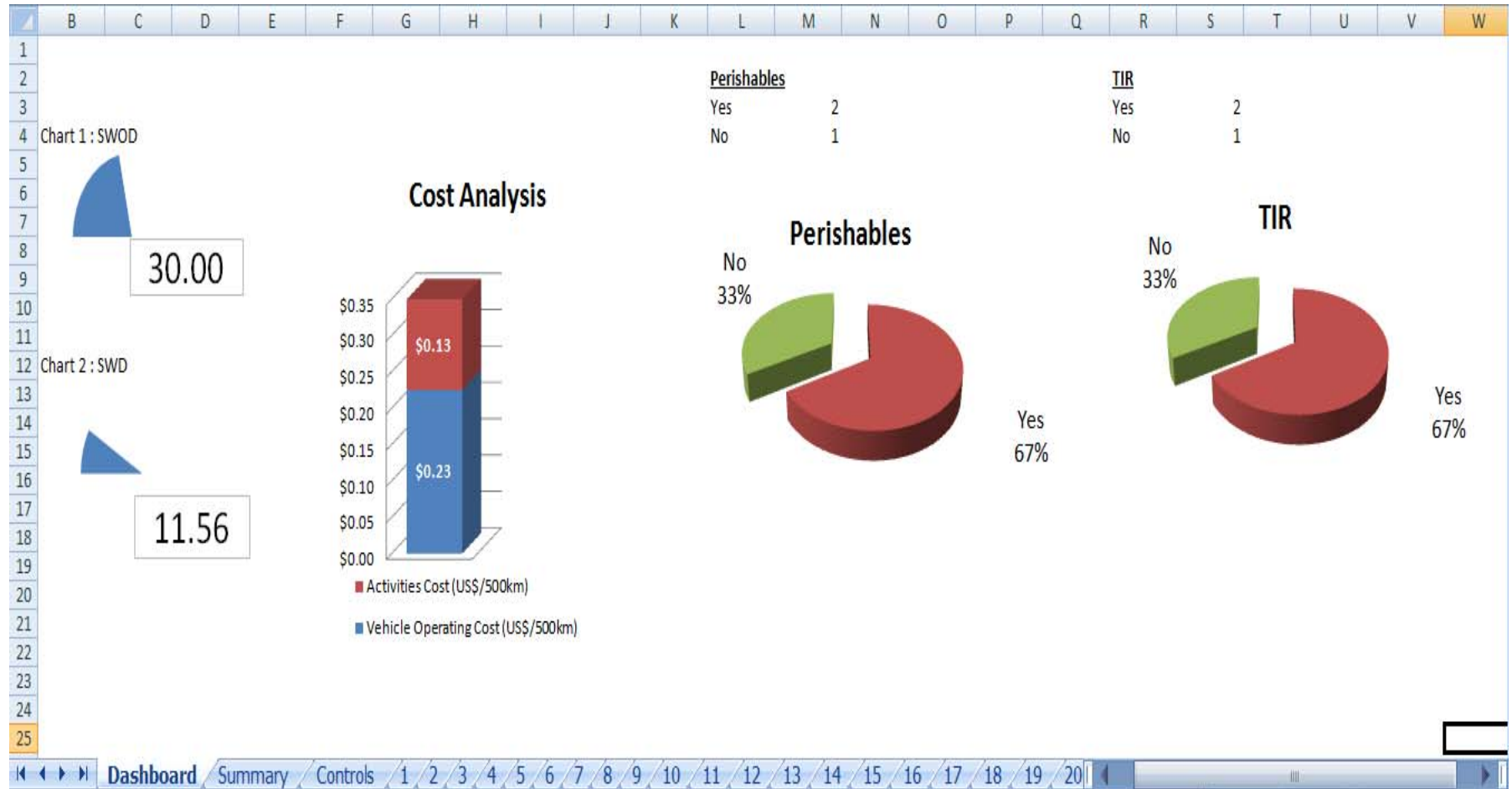


1 file with 30  
different worksheets

Displays  
aggregated results

File size is small

# The Dashboard



# The Summary Sheet

	A	B	C	D	E	F	G	H	I	J
1	FILE ID	1	2	3	4	5	6	7	8	9
2	Route									
3	Commodity									
4	Commodity Classification									
5	Perishable									
6	Cargo Weight (tons)									
7	Container?									
8	TIR?									
9	Date of questionnaire completion									
10										
11	Distance (km)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12										
13	Transit Time (hrs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
14	Activities Time (hrs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
15	Total Time (hrs)	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
16										
17	Vehicle Operating Cost (US\$)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
18	Activities Cost (US\$)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
19	Total Trip Cost (US\$)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00
20										
21	SWOD (km/h)									
22	SWD (km/h)									
23										
24	Vehicle Operating Cost (US\$/500km)	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00	\$0.00



# Summary Sheet – Part A

	A
1	<b>FILE ID</b>
2	<b>Route</b>
3	<b>Commodity</b>
4	<b>Commodity Classification</b>
5	<b>Perishable</b>
6	<b>Cargo Weight (tons)</b>
7	<b>Container?</b>
8	<b>TIR?</b>
9	<b>Date of questionnaire completion</b>

**NEW!**

# Commodity Classification

CC1 Animals  
CC2 Vegetables  
CC3 Animal Fats  
CC4 Beverages  
CC5 Minerals  
CC6 Chemicals  
CC7 Plastics  
CC8 Hides and Skins  
CC9 Wood  
CC10 Pulp and Paper

CC11 Textiles  
CC12 Shoes  
CC13 Industrial Materials  
CC14 Precious Stones  
CC15 Base Metals  
CC16 Machineries  
CC17 Vehicles  
CC18 Instruments  
CC19 Arms  
CC20 Manufactured Items  
CC21 Antiques

# Summary Sheet – Part B

	A
1	<b>FILE ID</b>
11	<b>Distance (km)</b>
12	
13	<b>Transit Time (hrs)</b>
14	<b>Activities Time (hrs)</b>
15	<b>Total Time (hrs)</b>
16	
17	<b>Vehicle Operating Cost (US\$)</b>
18	<b>Activities Cost (US\$)</b>
19	<b>Total Trip Cost (US\$)</b>

Activities *Time* and *Cost* are decomposed in this version.

**NEW!**

# Summary Sheet – Part C

	A
1	<b>FILE ID</b>
21	<b>SWOD (km/h)</b>
22	<b>SWD (km/h)</b>
23	
24	<b>Vehicle Operating Cost (US\$/500km)</b>
25	<b>Activities Cost (US\$/500km)</b>
26	<b>Total Trip Cost (US\$/500km)</b>

**NEW!**

# Controls Sheet

	A	B	C	D	E	F	G	H	I	J
1										
2	<b>Binary</b>	<b>Currency</b>	<b>Full name</b>		<b>Country</b>			<b>Commodity Classification</b>	<b>Description</b>	
3	Yes	AFA	Aghanistan Afghani	AFG	Afghanistan			CC1 Animals	Live Animals; Animal Products	
4	No	CNY	Chinese Renminbi	AZE	Azerbaijan			CC2 Vegetables	Vegetable Products	
5		KGS	Kyrgyzstan Sum	EU	European Union			CC3 Animal Fats	Animal or Vegetable Fats and Oils and their Cleava or Vegetable Waxes	
6	<b>Containe</b>	KZT	Kazakhstan Tenge	GEO	Georgia			CC4 Beverages	Prepared Foodstuffs; Beverages, Spirits and Vinega Substitutes	
7	20"	MAT	Azerbaijan Manat	IRN	Iran			CC5 Minerals	Mineral Products	
8	40"	MGT	Mongolia Tugrids	KAZ	Kazakhstan			CC6 Chemicals	Products of the Chemical or Allied Industries	
9	No	PKR	Pakistan Rupee	KGZ	Kyrgyz Republic			CC7 Plastics	Plastics and Articles thereof; Rubber and Articles th	
10		TKS	Tajikistan Soumoni	MON	Mongolia			CC8 Hides and Skins	Raw Hides and Skins, Leather, Furskins and Articles Goods, Handbags and Similar Containers; Articles c	
11		TMT	Turkmenistan Manat	PAK	Pakistan			CC9 Wood	Wood and Articles of Wood; Wood Charcoal; Cork Straw; of Esparto or of other Plaiting Materials; Ba	
12		USD	US Dollar	PRC	People's Republic of China			CC10 Pulp and Paper	Pulp of Wood or of other Fibrous Cellulosic Materi Paperboard; Paper and Paperboard and Articles th	

Controls sheet contains the list of options that are used in ‘*Summary*’ and *individual worksheets*. You should not change the values.



# The Individual Data Sheet

Microsoft Excel interface showing the 'Individual Data Sheet' template. The ribbon includes Home, Insert, Page Layout, Formulas, Data, Review, and View. The active sheet is 'Name of city:'. The data is organized into columns A through Y and rows 1 through 24.

STOP		ORIGIN/ STOP 1						STOP 2							
Place of stop	Name of city:														
	Name of country:														
	CAPEC Corridor														
	Mode of transport														
Distance from previous stop (km)		0													
Duration of travel (hrs)		0													
Vehicle Operating Cost		\$0.00		Currency	US\$ Rate	1.00	\$0.00		Currency	US\$ Rate	1.00	\$0.00			
Fuel Cost		\$0.00		Currency	US\$ Rate	1.00	\$0.00		Currency	US\$ Rate	1.00	\$0.00			
Driver's Wage		\$0.00		Currency	US\$ Rate	1.00	\$0.00		Currency	US\$ Rate	1.00	\$0.00			
Depreciation Cost of Truck/Trailer		\$0.00		Currency	US\$ Rate	1.00	\$0.00		Currency	US\$ Rate	1.00	\$0.00			
Repair and Maintenance Cost		\$0.00		Currency	US\$ Rate	1.00	\$0.00		Currency	US\$ Rate	1.00	\$0.00			
Insurance		\$0.00		Currency	US\$ Rate	1.00	\$0.00		Currency	US\$ Rate	1.00	\$0.00			
BCP?															
Reason for stop		Place of Departure													
Activities		Duration	Official Cost	Currency	Total Cost	Currency	US\$ Rate	Duration	Official Cost	Currency	Total Cost	Currency	US\$ Rate	Duration	Official Cost
Road/Rail															
Border security / control		hrs	mins				1.00	hrs	mins				1.00	hrs	mins
Health / quarantine		hrs	mins				1.00	hrs	mins				1.00	hrs	mins
Phytosanitary		hrs	mins				1.00	hrs	mins				1.00	hrs	mins
Veterinary inspection		hrs	mins				1.00	hrs	mins				1.00	hrs	mins
Emergency repair		hrs	mins				1.00	hrs	mins				1.00	hrs	mins
Road Toll		hrs	mins				1.00	hrs	mins				1.00	hrs	mins
Vehicle registration		hrs	mins				1.00	hrs	mins				1.00	hrs	mins

Navigation tabs: Dashboard, Summary, Controls. Sheet tabs: 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20.

# Data Sheet – Part 1

1	<b>STOP</b>	
2	<b>Place of stop</b>	Name of city:
3		Name of country:
4		CAREC Corridor
5		<b>Mode of transport</b>
6	<b>Distance from previous stop (km)</b>	
7	<b>Duration of travel (hrs)</b>	
8	<b>Vehicle Operating Cost</b>	
9	Fuel Cost	
10	Driver's Wage	
11	Depreciation Cost of Truck/Trailer	
12	Repair and Maintenance Cost	
13	Insurance	
14	<b>BCP?</b>	
15	<b>Reason for stop</b>	

**NEW!**

New VOC  
decomposes  
the cost  
items

**NEW!**

All BCPs need to be marked

# Data Sheet – Part 1

ORIGIN/ STOP 1					
0					
0					
\$0.00		Currency		US\$ Rate	1.00
\$0.00		Currency		US\$ Rate	1.00
\$0.00		Currency		US\$ Rate	1.00
\$0.00		Currency		US\$ Rate	1.00
\$0.00		Currency		US\$ Rate	1.00
\$0.00		Currency		US\$ Rate	1.00
Place of Departure					

**NEW!**

New Template allows Auto-Currency Conversion



# Auto-Currency Conversion

ORIGIN STOP 1					
\$0.00		Currency		JS\$ Rate	1.00
\$0.00		Currency	AFA	JS\$ Rate	1.00
\$0.00		Currency	CNY	JS\$ Rate	1.00
\$0.00		Currency	KGS	JS\$ Rate	1.00
\$0.00		Currency	KZT	JS\$ Rate	1.00
\$0.00		Currency	MAT	JS\$ Rate	1.00
\$0.00		Currency	MGT	JS\$ Rate	1.00
\$0.00		Currency	PKR	JS\$ Rate	1.00
\$0.00		Currency	TKS	JS\$ Rate	1.00

<u>Currency</u>	<u>Full name</u>
AFA	Afghan Afghani
CNY	Chinese Renminbi
KGS	Kyrgyz Som
KZT	Kazakhstan Tenge
AZN	Azerbaijani Manat
MGT	Mongolian Tugrik
PKR	Pakistani Rupee
TKS	Tajik Somoni
TMT	Turkmen Manat
USD	US Dollar
UZS	Uzbek Sum

The dropdown menu offers all the possible currencies commonly used in Central Asia

# Auto-Currency Conversion

1. Enter the value in local currency.

2. Select the local currency.

*In this example, 1 USD is equal to 50 Afghanistan Afghani (AFA)*

		0			
		0			
\$0.00		Currency		US\$ Rate	1.00
\$4.00	200.00	Currency	AFA	US\$ Rate	50.00
\$0.00		Currency		US\$ Rate	1.00
\$0.00		Currency		US\$ Rate	1.00
\$0.00		Currency		US\$ Rate	1.00
\$0.00		Currency		US\$ Rate	1.00
Place of Departure					

4. USD is converted here.

3. Enter the foreign exchange rate.

# IMPORTANT!

1	STOP		ORIGIN/ STOP 1				
2	Place of stop	Name of city:					
3		Name of country:					
4		CAREC Corridor					
5	Mode of transport						
6	Distance from previous stop (km)		0				
7	Duration of travel (hrs)		0				
8	Vehicle Operating Cost		\$100.00	100.00	Currency	USD	US\$ Rate 1.00
9	Fuel Cost		\$60.00	60.00	Currency	USD	US\$ Rate 1.00
10	Driver's Wage		\$40.00	40.00	Currency	USD	US\$ Rate 1.00
11	Depreciation Cost of Truck/Trailer		\$0.00		Currency		US\$ Rate 1.00
12	Repair and Maintenance Cost		\$0.00		Currency		US\$ Rate 1.00
13	Insurance		\$0.00		Currency		US\$ Rate 1.00
14	BCP?						
15	Reason for stop		Place of Departure				

You must entered the total VOC in this cell!

Assume the fuel cost is USD 60, and driver's wage is USD 40 for stop 1.  
Total VOC for Stop 1 is USD 100.

This value of USD 100 must be entered into the cell 'VOC'.

# Data Sheet – Part 2

1	STOP		ORIGIN STOP 1						
16	Activities		Duration		Official Cost	Currency	Total Cost	Currency	US\$ Rate
17	Description of stop	Road/Rail							
18		Border security / control	hrs	mins					1.00
19		Health / quarantine	hrs	mins					1.00
20		Phytosanitary	hrs	mins					1.00
21		Veterinary inspection	hrs	mins					1.00
22		Emergency repair	hrs	mins					1.00
23		Road Toll	hrs	mins					1.00
24		Vehicle registration	hrs	mins					1.00
25		Weight/standard inspection	hrs	mins					1.00
26		Customs (single window)	hrs	mins					1.00
27		Visa / immigration	hrs	mins					1.00
28		Transport/GAI inspection	hrs	mins					1.00
29		Police checkpoint / stop	hrs	mins					1.00
30		Escort / convoy	hrs	mins					1.00
31		Customs clearance	hrs	mins					1.00
32		Loading / unloading	hrs	mins					1.00
33		Waiting/ queue	hrs	mins					1.00

Auto-Currency Conversion can also be done at the Activities Section.

# Official / Unofficial Payments

1	STOP		ORIGIN STOP 1						
16	Activities		Duration		Official Cost	Currency	Total Cost	Currency	US\$ Rate
17	Description of stop	Road/Rail							
18		Border security / control	hrs	mins					1.00
19		Health / quarantine	hrs	mins					1.00
20		Phytosanitary	hrs	mins					1.00
21		Veterinary inspection	hrs	mins					1.00
22		Emergency repair	hrs	mins					1.00
23		Road Toll	hrs	mins					1.00
24		Vehicle registration	hrs	mins					1.00
25		Weight/standard inspection	hrs	mins					1.00
26		Customs (single window)	hrs	mins					1.00
27		Visa / immigration	hrs	mins					1.00
28		Transport/GAI inspection	hrs	mins					1.00
29		Police checkpoint / stop	hrs	mins					1.00
30		Escort / convoy	hrs	mins					1.00
31		Customs clearance	hrs	mins					1.00
32		Loading / unloading	hrs	mins					1.00
33		Waiting/ queue	hrs	mins					1.00

1. Enter official cost here.

2. Unofficial Cost = Total Cost – Official Cost

# Official / Unofficial Payments

STOP	ORIGIN STOP 1						
BCP?							
Reason for stop	Place of Departure						
Activities	Duration		Official Cost	Currency	Total Cost	Currency	US\$ Rate
<b>Road/Rail</b>							
Border security / control	hrs	mins	5.00		5.00		1.00
Health / quarantine	hrs	mins	3.00		3.00		1.00
Phytosanitary	hrs	mins	1.00		1.00		1.00
Veterinary inspection	hrs	mins	2.00		2.00		1.00
Emergency repair	hrs	mins					1.00
Road Toll	hrs	mins					1.00
Vehicle registration	hrs	mins					1.00
Weight/standard inspection	hrs	mins					1.00
Customs (single window)	hrs	mins					1.00
Visa / immigration	hrs	mins					1.00
Transport/GAI inspection	hrs	mins	3.00		=G28		1.00
Police checkpoint / stop	hrs	mins					1.00

If there are **NO** unofficial cost, you can simply equate 'Total Cost' to the cell in 'Official cost'.

# IMPORTANT!

16	Activities				Duration		Official Cost	Currency	Total Cost	Currency	US\$ Rate		
17		Road/Rail											
18		Border security / control				2 hrs		mins	5.00	USD	5.00	USD	1.00
19		Health / quarantine				1 hrs	30	mins	10.00	USD	10.00	USD	1.00
20		Phytosanitary				4 hrs	20	mins	15.00	USD	15.00	USD	1.00
21		Veterinary inspection				3 hrs		mins	5.00	USD	5.00	USD	1.00
22		Emergency repair				hrs		mins					1.00
23		Road Toll				hrs		mins					1.00
24		Vehicle registration				hrs		mins					1.00
		<div>DashboardSummaryControls1234567891011121314</div>											

You **must** entered the 'Total Cost' in the activities section, for activities that have a cost.

Assume in this case, there are four activities that a driver encounters during border crossing.

Enter the official cost, and then the total cost. Assuming there is no unofficial payment, the total cost = official cost.

# Data Sheet – Part 3

STOP		ORIGIN/ STOP 1						
	<u>Rail Only</u>							
	Change of Railways Gauge	hrs	mins					1.00
	Classification of Trains	hrs	mins					1.00
	Technical Inspection	hrs	mins					1.00
	Commercial Inspection	hrs	mins					1.00
	Load Protection	hrs	mins					1.00
	Security Services	hrs	mins					1.00
	<u>Other Activities</u>							
	Activity 1	hrs	mins					1.00
	Activity 1 (Specify here.)							
	Activity 2	hrs	mins					1.00
	Activity 2 (Specify here.)							
<b>TOTAL</b>		0	hrs	0	mins	0		US\$ 14
Description of actions taken (e.g. procedures, formalities applicable to the section of the route).								

Rail specific activities are included in this new version.



# Contents

- 1 New Drivers' Form
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# Definitions of Speeds

Speed Without Delays  
(SWOD)



Speed With Delays  
(SWD)



# Speed Without Delay (SWOD)

$$\text{SWOD (km/h)} = \frac{\text{Total Distance (km)}}{\text{Duration of Travel (hours)}}$$

Measures the speed of vehicle in movement. Does **not** consider the time when the vehicle is stationary.

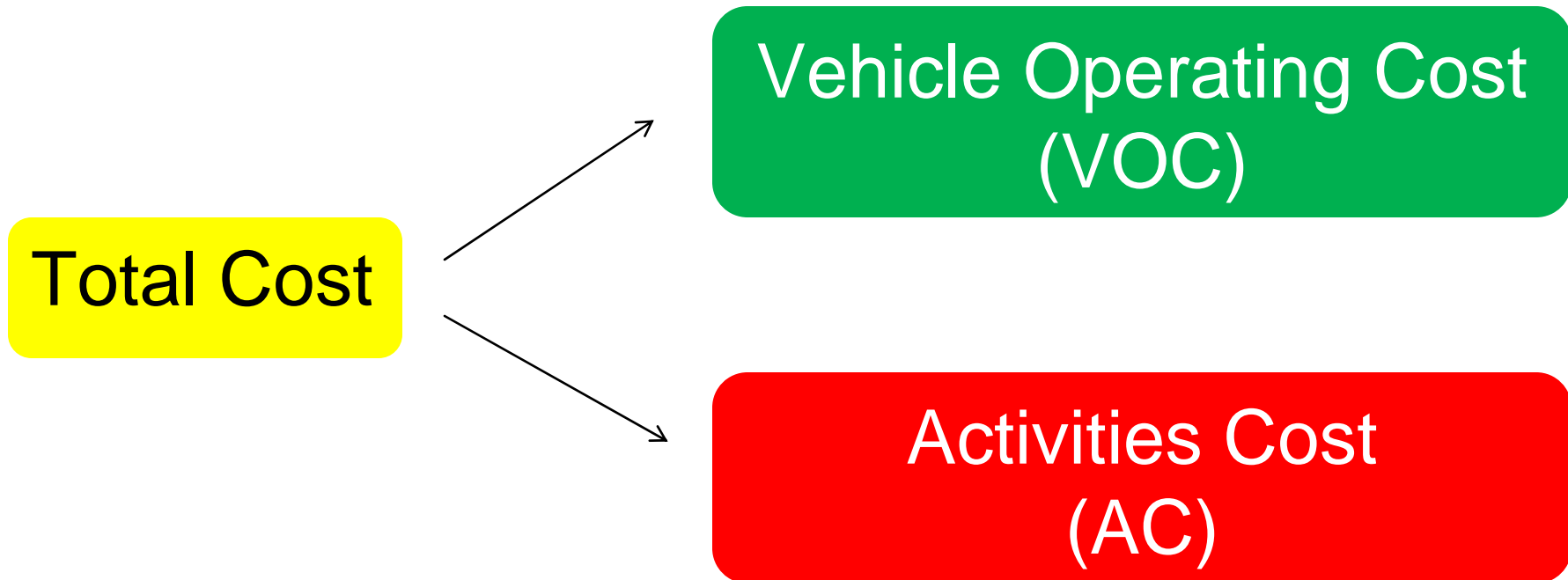
# Speed With Delay (SWD)

$$\text{SWD (km/h)} = \frac{\text{Total Distance (km)}}{\text{Total Time (hours)}}$$

*Total Time = Duration of Travel + Activities Time*

Measures the overall speed of the vehicle in transit, crossing border and stopped along the journey.

# Costs



*All currencies are expressed in U.S. Dollars (USD) in the final report.*

# Vehicle Operating Cost (VOC)



Driver's Wages

Depreciation

Fuel Cost

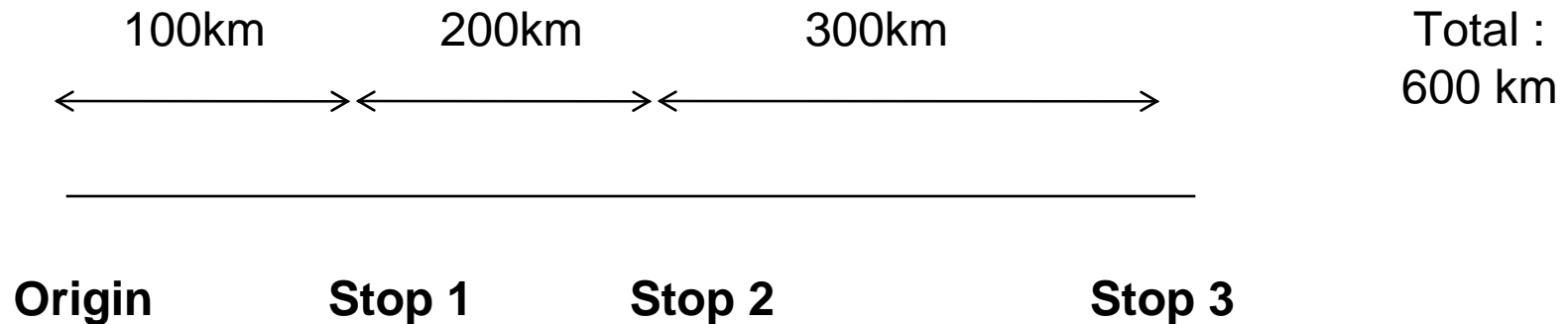
Repair

Insurance

The VOC is decomposed into different legs.  
Find out the VOC from previous stop to current stop.

# Vehicle Operating Cost (VOC)

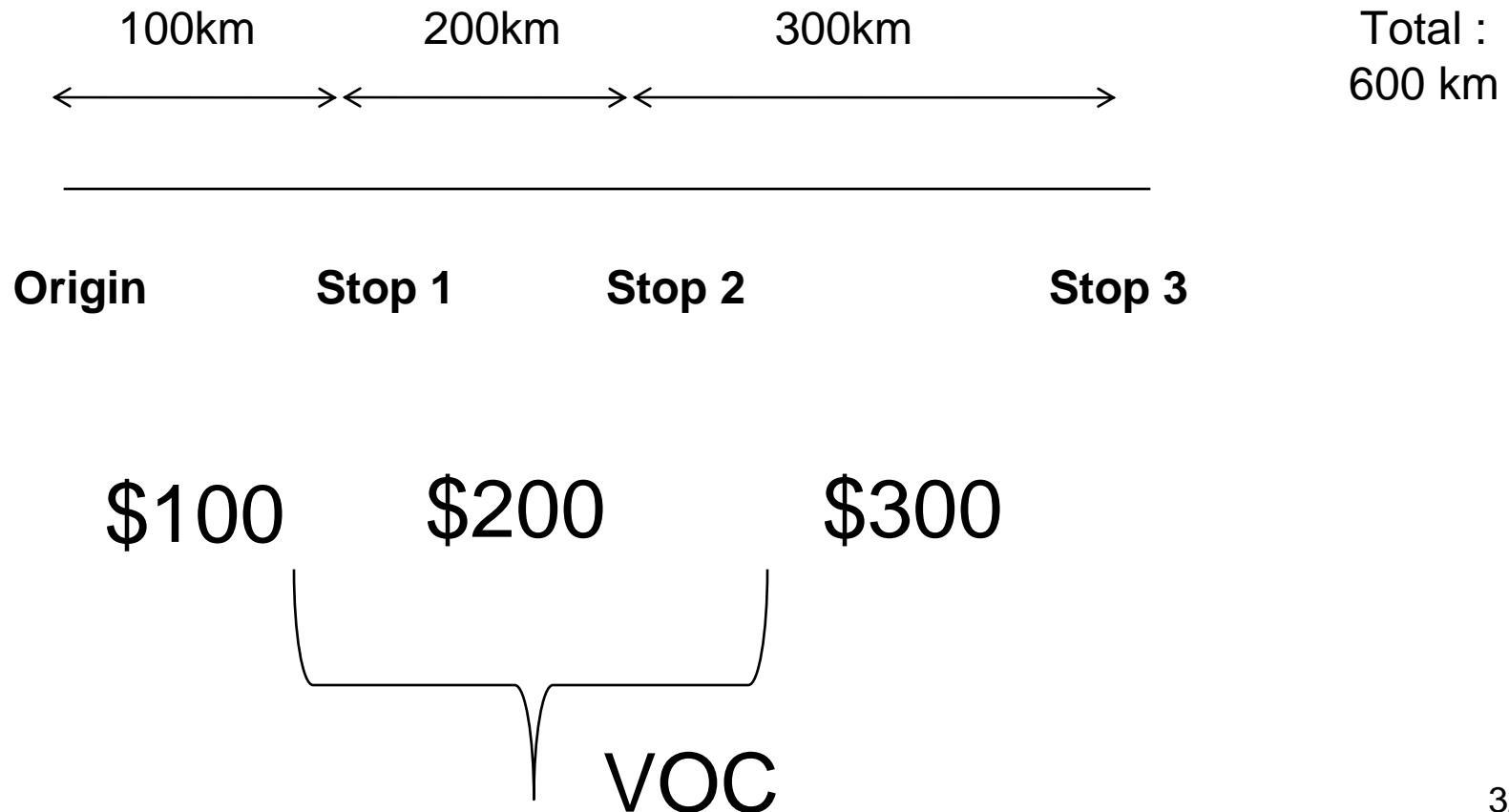
*If the driver does not know the VOC per stop?*



If driver knows total VOC is US\$600, then  
VOC per km =  $\$600/600\text{km}$ .  
This means VOC is \$ 1/km.

# Vehicle Operating Cost (VOC)

*If the driver does not know the VOC per stop?*





# Activities Cost (AC)

1	Border security / control
2	Health / quarantine
3	Phytosanitary
4	Veterinary inspection
5	Emergency repair
6	Road Toll
7	Vehicle registration
8	Weigh/standard inspection
9	Customs (single window)
10	Visa / immigration
11	Transport/GAI inspection
12	Police checkpoint / stop
13	Escort / convoy
14	Customs clearance
15	Loading / unloading
16	Waiting/ queue

These are activities that can occur along a **road** or **rail** mode of transport

# Activities Cost (AC)

1	Change of Railways Gauge
2	Classification of Trains
3	Technical Inspection
4	Commercial Inspection
5	Load Protection
6	Security Services

These are activities that can occur along a **rail** mode of transport



# Types of Activities (Rails)

S/N	Types of Rail Costs	
1	Change of Railways Gauge	
2	Classification of Trains	

# Types of Activities (Rails)

S/N	Types of Rail Costs	
3	Technical Inspection	
4	Commercial Inspection	

# Types of Activities (Rails)

S/N	Types of Rail Costs	Definitions
5	Load Protection	
6	Security Services	

# Thank you



**Max Ee**

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