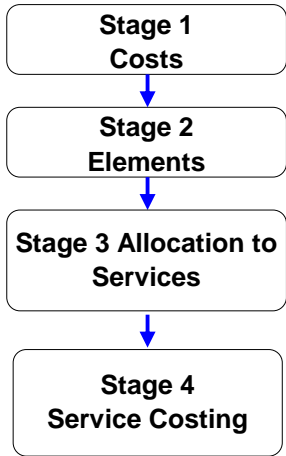




**Cost of mobile termination  
FIFAC (Ficora Fully Allocated Cost Model)**



Operator Mobile Operator X

Financial Time Period 2008

Number of months 12

Currency EUR

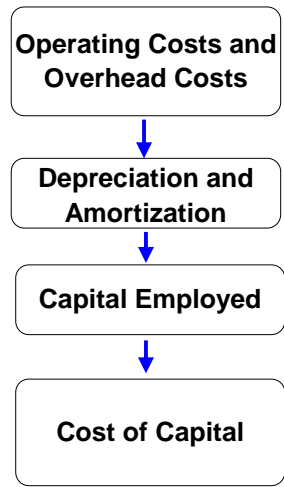
Millions

**Legend**

Cells shaded in lavender are input cells for the data

The original model was prepared for FICORA by Frontier Economics Ltd in 2005

## STAGE 1 - COSTS





# Depreciation and Amortization

Mobile Operator X 2008 (EUR Millions)

	Replacement value	Depreciation from accounts	Annual depreciation calculated from replacement value
<b>Depreciation and Amortization</b>			
Base Station Subsystem (BSS)			#DIV/0!
BSC-MSC transmission			#DIV/0!
MSC			#DIV/0!
MSC-MSC transmission			#DIV/0!
Interconnection links			#DIV/0!
Voice mail service			#DIV/0!
Data service systems (SMS, MMS, GPRS etc.)			#DIV/0!
Other fixed assets in the network			#DIV/0!
Intangible network assets			#DIV/0!
...			#DIV/0!
...			#DIV/0!
...			#DIV/0!
...			#DIV/0!
...			#DIV/0!
...			#DIV/0!
...			#DIV/0!
...			#DIV/0!
...			#DIV/0!
<b>Total depreciation and amortization of a mobile network</b>		0	#DIV/0!

**Note: see stage 2 for element definitions**

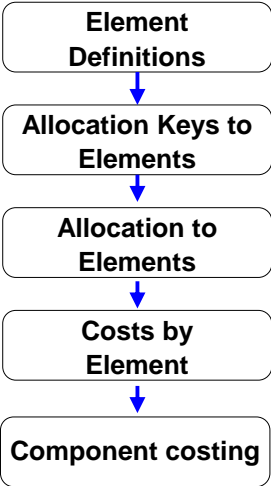


## Cost of Capital

### Mobile Operator X 2008 (EUR Millions)

Annual Cost of Capital	-
Proportion of year covered	100,0%
Cost of Capital during period	-

## Stage 2 - Allocation to Elements



## Definition of Elements

### Mobile Operator X 2008 (EUR Millions)

#### Element Definitions

Base Station Subsystem (BSS)

BSC-MSC transmission

MSC

MSC-MSC transmission

Interconnection links

Voice mail service

Data service systems (SMS, MMS, GPRS etc.)

Common costs to network

#### Description

---

Base stations and radio repeaters; antenna systems and RF equipment; Base Station Controllers (BSC) / Radio Network Controllers (RNC); BSC/RNC related software; measurement equipment; the rest of the radio network.

Transmission from BSC/RNC to MSC; Transcoder Rate Adapter Unit (TRAU)

Mobile switching centres (MSC)

Transmission links between MSCs

Interconnection links to other operators

SMSC; MMSC; Packet switched network (SGSN/GGSN and associated transmission)

AuC; EIR; Network Management System; HLR; vehicles; all other costs to the mobile network that cannot be allocated to other network elements





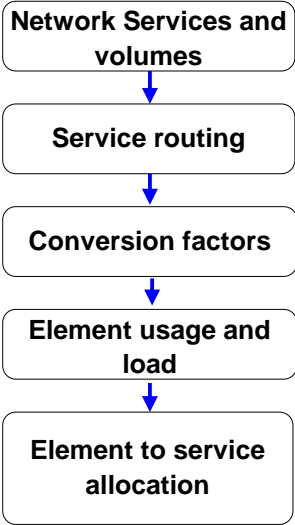






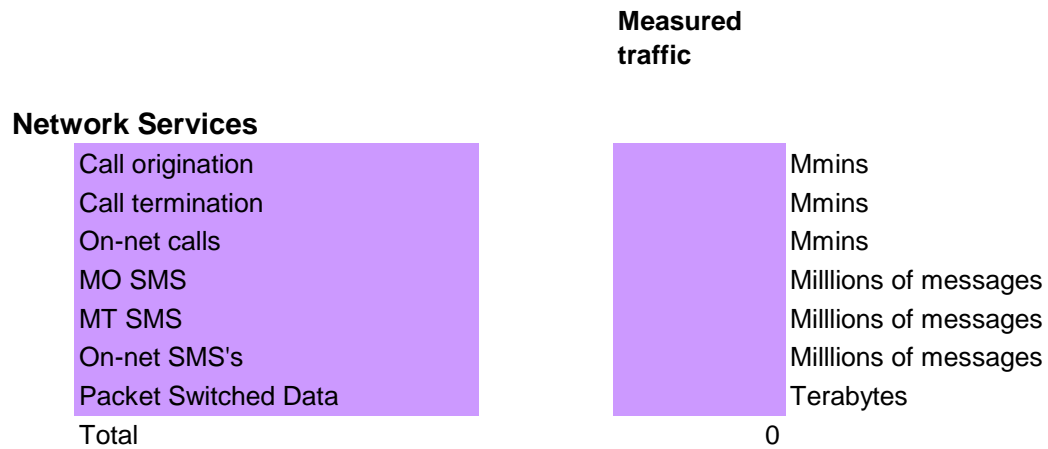


### Stage 3 - Allocation to Services



# Network Service Volumes

## Network Service Volumes Mobile Operator X 2008 (EUR Millions)



## Routing Table

Mobile Operator X 2008 (EUR Millions)

	BSC-MSC transmission		MSC-MSC transmission			
	Base Station Subsystem (BSS)	MSC	MSC	Interconnection links	Voice mail service	
<b>Network Services</b>						
Call origination	1,00	1,00	1,00	-	1,00	-
Call termination	0,99	0,99	1,50	0,50	1,00	0,01
On-net calls	1,99	1,99	1,50	0,50	-	0,01
MO SMS	1,00	1,00	1,00	-	-	-
MT SMS	1,00	1,00	1,50	0,50	-	-
On-net SMS's	2,00	2,00	1,50	0,50	-	-
Packet Switched Data	1,00	1,00	-	-	-	-

## Conversion Factors

### Mobile Operator X 2008 (EUR Millions)

	Base Station Subsystem (BSS)	BSC-MSC transmission	MSC	MSC-MSC transmission	Interconnec tion links	Voice mail service
<b>Network Services</b>						
Call origination	1,0000	1,0000	1,0000	1,0000	1,00	-
Call termination	1,0000	1,0000	2,4000	1,0000	1,00	1,00
On-net calls	1,0000	1,0000	2,4000	1,0000	-	1,00
MO SMS	0,0100	0,0100	1,0000	0,0100	-	-
MT SMS	0,0100	0,0100	1,0000	0,0100	-	-
On-net SMS's	0,0100	0,0100	1,0000	0,0100	-	-
Packet Switched Data	12,1900	12,1900	-	-	-	-

## Network Element Usage

### Mobile Operator X 2008 (EUR Millions)

	Volume	Units	Base Station Subsystem (BSS)	BSC-MSC transmission	MSC	MSC-MSC transmission	Interconnect ion links	Voice mail service
<b>Network Usage by Component</b>								
Call origination		0 Mmins		0	0	0	0	0
Call termination		0 Mmins		0	0	0	0	0
On-net calls		0 Mmins		0	0	0	0	0
MO SMS		0 Millions of messages		0	0	0	0	0
MT SMS		0 Millions of messages		0	0	0	0	0
On-net SMS's		0 Millions of messages		0	0	0	0	0
Packet Switched Data		0 Terabytes		0	0	0	0	0
<b>Network Load by Component</b>								
Call origination				0	0	0	0	0
Call termination				0	0	0	0	0
On-net calls				0	0	0	0	0
MO SMS				0	0	0	0	0
MT SMS				0	0	0	0	0
On-net SMS's				0	0	0	0	0
Packet Switched Data				0	0	0	0	0
Total				0	0	0	0	0



**Stage 4 - Network Service Cost**

**Service Unit Cost**



**Service Cost by  
Component**

## Service Unit Costs

### Mobile Operator X 2008 (EUR Millions)

	Total Allocated Cost	Service Volume	Service Unit Cost
<b>Cost Allocation</b>			
Call origination	#DIV/0!	0	0,000
Call termination	#DIV/0!	0	0,000
On-net calls	#DIV/0!	0	0,000
MO SMS	#DIV/0!	0	0,000
MT SMS	#DIV/0!	0	0,000
On-net SMS's	#DIV/0!	0	0,000
Packet Switched Data	#DIV/0!	0	0,000
Total	#DIV/0!		0,000



<b>Sheetname</b>	<b>Chapter</b>	<b>Chapter (Y/N)</b>
Main Menu	Main Menu	Y
Stage 1 - Costs	Stage 1 - Costs	Y
Operating and Overhead	Stage 1 - Costs	
Depreciation and Amortization	Stage 1 - Costs	
Capital Employed	Stage 1 - Costs	
Cost of Capital	Stage 1 - Costs	
Yleiskustannusten kohdentaminen	Stage 1 - Costs	
Stage 2 - Elements	Stage 2 - Elements	Y
Element Definitions	Stage 2 - Elements	
Allocation Keys to Elements	Stage 2 - Elements	
Allocation to Elements	Stage 2 - Elements	
Costs by Element	Stage 2 - Elements	
Component costing	Stage 2 - Elements	
Stage 3 - Allocation to Service	Stage 3 - Allocation to Service	Y
Network Service Volumes	Stage 3 - Allocation to Service	
Service Routing	Stage 3 - Allocation to Service	
Conversion Factors	Stage 3 - Allocation to Service	
Element Usage and Load	Stage 3 - Allocation to Service	
Element to Service Allocation	Stage 3 - Allocation to Service	
Stage 4 - Network Service Cost	Stage 4 - Network Service Cost	Y
Service Unit Costs	Stage 4 - Network Service Cost	
Service Cost by Component	Stage 4 - Network Service Cost	
Main Menu	Main Menu	Y