

ECOWAS

Annex

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Annex

Interventions and IFs version

LIST OF INTERVENTIONS WITHIN IFs

Name	Description	Country or Group	Adjustments within IFs 8.16	Remarks
Current Path adjustments				
Demographics and Health scenario				
contrusm	Contraception use multiplier	ECOWAS	To 1.28 (Benin) To 1.35 (Burkina Faso) To 1.18 (Cabo Verde) To 1.28 (Côte d'Ivoire) To 1.35 (Gambia) To 1.28 (Ghana) To 1.35 (Guinea) To 1.35 (Guinea Bissau) To 1.35 (Liberia) To 1.4 (Mali) To 1.28 (Senegal) To 1.35 (Sierra Leone) To 1.35 (Togo) To 1.4 (Niger) To 1.4 (Nigeria)	
watsafem (UnImproved)	Pop with access to unimproved water	ECOWAS	To 0.75 (Benin) To 0.75 (Burkina	

			<p>Faso)</p> <p>To 0.75 (Côte d'Ivoire)</p> <p>To 0.85 (Ghana)</p> <p>To 0.75 (Guinea)</p> <p>To 0.85 (Guinea Bissau)</p> <p>To 0.85 (Liberia)</p> <p>To 0.75 (Senegal)</p> <p>To 0.85 (Sierra Leone)</p> <p>To 0.85 (Togo)</p> <p>To 0.85 (Mali)</p> <p>To 0.85 (Niger)</p> <p>To 0.8 (Nigeria)</p>	
watsafem (OthImproved)	Percentage of people with access to other improved safe water			
watsafem (Piped)	Per cent of people with access to piped water			
sanitationm (OtherUnimproved)	Per cent of population with access to other unimproved sanitation	ECOWAS	<p>To 0.75 (Benin)</p> <p>To 0.75 (Burkina Faso)</p> <p>To 0.9 (Cabo Verde)</p> <p>To 0.75 (Côte d'Ivoire)</p> <p>To 0.85 (Gambia)</p> <p>To 0.8 (Ghana)</p> <p>To 0.75 (Guinea)</p> <p>To 0.75 (Guinea Bissau)</p> <p>To 0.8 (Senegal)</p> <p>To 0.75 (Mali)</p>	

			To 0.75 (Niger)	
sanitation (Improved)	Per cent of population with access to improved sanitation			
malmortatiom	Maternal mortality ratio multiplier	ECOWAS	<p>To 0.78 (Benin)</p> <p>To 0.73 (Burkina Faso)</p> <p>To 0.78 (Cabo Verde)</p> <p>To 0.78 (Côte d'Ivoire)</p> <p>To 0.73 (Gambia)</p> <p>To 0.78 (Ghana)</p> <p>To 0.73 (Guinea)</p> <p>To 0.73 (Guinea Bissau)</p> <p>To 0.73 (Liberia)</p> <p>To 0.78 (Senegal)</p> <p>To 0.73 (Sierra Leone)</p> <p>To 0.73 (Togo)</p> <p>To 0.75 (Mali)</p>	
hlmortcdchldm	Communicable disease mortality multiplier for children under-five	ECOWAS	<p>To 0.78 (Benin)</p> <p>To 0.72 (Burkina Faso)</p> <p>To 0.78 (Cabo Verde)</p> <p>To 0.78 (Côte d'Ivoire)</p> <p>To 0.72 (Gambia)</p> <p>To 0.78 (Ghana)</p> <p>To 0.72 (Guinea)</p> <p>To 0.72 (Guinea Bissau)</p> <p>To 0.72 (Liberia)</p>	

			<p>To 0.78 (Senegal)</p> <p>To 0.72 (Sierra Leone)</p> <p>To 0.72 (Togo)</p> <p>To 0.85 (Mali)</p>	
hlmortm (AIDS)	Mortality multiplier	ECOWAS	<p>To 0.6 (Cabo Verde)</p> <p>To 0.6 (Côte d'Ivoire)</p> <p>To 0.6 (Guinea Bissau)</p> <p>To 0.85 (Mali)</p>	
hlmortm (diarrhea)	Mortality multiplier	ECOWAS	<p>To 0.9 (Guinea Bissau)</p> <p>To 0.9 (Mali)</p>	
hlmortm (malaria)	Mortality multiplier	ECOWAS	<p>To 0.5 (Benin)</p> <p>To 0.5 (Burkina Faso)</p> <p>To 0.5 (Côte d'Ivoire)</p> <p>To 0.5 (Ghana)</p> <p>To 0.5 (Guinea)</p> <p>To 0.5 (Liberia)</p> <p>To 0.85 (Mali)</p> <p>To 0.5 (Sierra Leone)</p> <p>To 0.5 (Togo)</p> <p>To 0.5 (Niger)</p> <p>To 0.5 (Nigeria)</p>	
hlmortm (respiratory)	Mortality multiplier			
hlmortm (diabetes)	Mortality multiplier			
hlmortm (OthCommumDis)	Mortality multiplier	ECOWAS	<p>To 0.9 (Burkina Faso)</p> <p>To 0.9 (Côte d'Ivoire)</p>	

			To 0.9 (Guinea) To 0.9 (Guinea Bissau) To 0.9 (Liberia) To 0.9 (Mali) To 0.9 (Sierra Leone)	
hlmortm (OtherNonComm)	Mortality multiplier	ECOWAS	To 0.75 (Mali)	
hlmortm (CardioVasc)	Mortality multiplier	ECOWAS	To 0.9 (Cabo Verde)	
hlmortm (MaligNeoPl)	Mortality multiplier	ECOWAS	To 0.9 (Cabo Verde)	
hlmortm (Respiratory)	Mortality multiplier			
hlmortm (RespInfec)	Mortality multiplier	ECOWAS	To 0.6 (Guinea) To 0.9 (Mali) To 0.6 (Sierra Leone)	
Education scenario				
edseclorvocadd	Lower secondary, vocational share, additive factor, decimal rate	ECOWAS	To 4 (Liberia)	
edsecupprvocadd	Upper secondary, vocational share, additive factor, decimal rate	ECOWAS	To 5 (Liberia)	
edterscienshradd	Tertiary, Sci-Eng	ECOWAS	To 5	

	share of graduates, additive factor, decimal rate			
edpriintnm	Primary net intake rate multiplier (total)	ECOWAS	To 1.12 (Liberia) To 1.1 (Côte D'Ivoire)	
edprisum	Primary, survival rate, multiplier (total)			
edseclwrtranm	Lower secondary transition rate multiplier	ECOWAS	To 1.1 (Liberia)	
edsecupprtranm	Upper secondary transition rate multiplier	ECOWAS	To 1.1 (Liberia)	
edseclwrgram	Lower, secondary, graduation rate, multiplier			
edsecupprgram	Upper secondary, graduation rate, multiplier (total)			
edterintm	Tertiary, intake rate, multiplier, total			
edtergradm	Tertiary, graduation rate multiplier	ECOWAS	To 1.3 (Liberia)	
jedqualpriallm	Quality, multiplier on primary (total)			
edqualsecallm	Quality, multiplier on secondary (total)			
Agriculture scenario				
ylm	Yields multiplier	ECOWAS	To 1.5 (Benin)	

			<p>To 1.4 (Burkina Faso)</p> <p>To 1.15 (Cabo Verde)</p> <p>To 1.5 (Côte d'Ivoire)</p> <p>To 1.3 (Gambia)</p> <p>To 1.2 (Ghana)</p> <p>To 1.3 (Guinea)</p> <p>To 1.2 (Guinea Bissau)</p> <p>To 1.3 (Liberia)</p> <p>To 1.5 (Senegal)</p> <p>To 1.3 (Sierra Leone)</p> <p>To 1.3 (Togo)</p> <p>To 1.25 (Mali)</p> <p>To 1.6 (Niger)</p> <p>To 1.5 (Nigeria)</p>	
landirareaactualm	Multiplier on land actually irrigated			
landirareaequipm	Multiplier on land equipped for irrigation	ECOWAS	<p>To 1.1 (Benin)</p> <p>To 1.2 (Burkina Faso)</p> <p>To 1.15 (Cabo Verde)</p> <p>To 1.1 (Côte d'Ivoire)</p> <p>To 1.2 (Gambia)</p> <p>To 1.2 (Ghana)</p> <p>To 1.1 (Guinea)</p> <p>To 1.15 (Guinea Bissau)</p> <p>To 1.1 (Liberia)</p> <p>To 1.15 (Senegal)</p> <p>To 1.1 (Sierra Leone)</p> <p>To 1.2 (Togo)</p> <p>To 1.15 (Mali)</p>	

			To 1.2 (Niger) To 1.1 (Nigeria)
aglossprodm	Loss rate of agricultural production (crop)		To 0.85 (Benin) To 0.85 (Burkina Faso) To 0.85 (Cabo Verde) To 0.85 (Côte d'Ivoire) To 0.85 (Gambia) To 0.85 (Ghana) To 0.85 (Guinea) To 0.85 (Guinea Bissau) To 0.85 (Liberia) To 0.85 (Senegal) To 0.85 (Sierra Leone) To 0.85 (Togo) To 0.85 (Mali) To 0.85 (Niger) To 0.85 (Nigeria)
aglosstransm	Loss rate of agriculture as moves from producer to consumer multiplier		To 0.85 (Benin) To 0.85 (Burkina Faso) To 0.85 (Cabo Verde) To 0.85 (Côte d'Ivoire) To 0.85 (Gambia) To 0.85 (Ghana) To 0.85 (Guinea) To 0.85 (Guinea Bissau) To 0.85 (Liberia)

			<p>To 0.85 (Senegal)</p> <p>To 0.85 (Sierra Leone)</p> <p>To 0.85 (Togo)</p> <p>To 0.85 (Mali)</p> <p>To 0.85 (Niger)</p> <p>To 0.85 (Nigeria)</p>	
clpcm	Per capita calorie demand multiplier		<p>To 1.1 (Guinea Bissau)</p> <p>To 1.1 (Liberia)</p> <p>To 1.05 (Mali)</p> <p>To 1.1 (Sierra Leone)</p>	
forestm	Increase forest protection		<p>To 1.02 (Benin)</p> <p>To 1.02 (Burkina Faso)</p> <p>To 1.02 (Gambia)</p> <p>To 1.02 (Ghana)</p> <p>To 1.02 (Guinea)</p> <p>To 1.02 (Mali)</p> <p>To 1.02 (Nigeria)</p> <p>To 1.02 (Senegal)</p> <p>To 1.02 (Sierra Leone)</p> <p>To 1.02 (Togo)</p>	
waterwithdrawalm	Groundwater withdrawal (cubic km)	ECOWAS	<p>To 1.02 (Benin)</p> <p>To 1.05 (Burkina Faso)</p> <p>To 1.05 (Cabo Verde)</p> <p>To 1.02 (Côte d'Ivoire)</p> <p>To 1.03 (Gambia)</p> <p>To 1.03 (Ghana)</p>	

			<p>To 1.03 (Guinea)</p> <p>To 1.02 (Guinea Bissau)</p> <p>To 1.02 (Liberia)</p> <p>To 1.05 (Senegal)</p> <p>To 1.02 (Sierra Leone)</p> <p>To 1.03 (Togo)</p> <p>To 1.05 (Mali)</p> <p>To 1.05 (Niger)</p> <p>To 1.02 (Nigeria)</p>	
infraroudraitrgtval	Road access target, fixed value per cent	ECOWAS	<p>To 95 (Benin)</p> <p>To 95 (Burkina Faso)</p> <p>To 95 (Cabo Verde)</p> <p>To 95 (Côte d'Ivoire)</p> <p>To 95 (Gambia)</p> <p>To 95 (Ghana)</p> <p>To 95 (Guinea Bissau)</p> <p>To 95 (Liberia)</p> <p>To 95 (Senegal)</p> <p>To 95 (Sierra Leone)</p> <p>To 95 (Togo)</p> <p>To 95 (Mali)</p> <p>To 95 (Niger)</p> <p>To 95 (Nigeria)</p>	
infraroundraitgyr	Road access target, years to reach			
clpcm	Per capita calorie demand multiplier	ECOWAS	<p>To 1.1 (Guinea Bissau)</p> <p>To 1.1 (Liberia)</p>	

			To 1.05 (Mali) To 1.1 (Sierra Leone)	
Manufacturing scenario				
govhtrnwelm (unskilled)	Government to household welfare transfers	ECOWAS	To 1.15 (Liberia) To 1.5 (Benin) To 1.5 (Burkina Faso) To 1.3 (Cabo Verde) To 1.2 (Côte D'Ivoire) To 1.5 (Gambia) To 1.3 (Ghana) To 1.5 (Guinea) To 1.5 (Guinea Bissau) To 1.4 (Mali) To 1.5 (Niger) To 1.3 (Nigeria) To 1.3 (Senegal) To 1.5 (Sierra Leone) To 1.5 (Togo)	
hhtaxrm	Household tax rate multiplier, by skill level			
govbusregindm	Government regulation of business index multiplier?/	ECOWAS	To 0.85 (Liberia) To 0.85 (Benin) To 0.85 (Burkina Faso) To 0.85 (Cabo Verde) To 0.85 (Côte D'Ivoire) To 0.85 (Gambia)	Could use

			<p>To 0.85 (Ghana)</p> <p>To 0.85 (Guinea)</p> <p>To 0.85 (Guinea Bissau)</p> <p>To 0.85 (Mali)</p> <p>To 0.85 (Niger)</p> <p>To 0.85 (Nigeria)</p> <p>To 0.85 (Senegal)</p> <p>To 0.85 (Sierra Leone)</p> <p>To 0.85 (Togo)</p>	
govrevm	Government revenues multiplier	ECOWAS	<p>To 1.2 (Liberia)</p> <p>To 1.1 (Benin)</p> <p>To 1.2 (Burkina Faso)</p> <p>To 1.05 (Cabo Verde)</p> <p>To 1.1 (Côte D'Ivoire)</p> <p>To 1.2 (Gambia)</p> <p>To 1.1 (Ghana)</p> <p>To 1.2 (Guinea)</p> <p>To 1.2 (Guinea Bissau)</p> <p>To 1.05 (Mali)</p> <p>To 1.2 (Niger)</p> <p>To 1.2 (Nigeria)</p> <p>To 1.1 (Senegal)</p> <p>To 1.2 (Sierra Leone)</p> <p>To 1.1 (Togo)</p>	
isdm	Investment in manufacturing sector	ECOWAS	<p>To 1.02 (Liberia)</p> <p>To 1.05 (Benin)</p> <p>To 1.02 (Burkina Faso)</p>	

			<p>To 1.04 (Cabo Verde)</p> <p>To 1.05 (Côte D'Ivoire)</p> <p>To 1.02 (Gambia)</p> <p>To 1.05 (Ghana)</p> <p>To 1.03 (Guinea)</p> <p>To 1.02 (Guinea Bissau)</p> <p>To 1.1 (Mali)</p> <p>To 1.03 (Niger)</p> <p>To 1.05 (Nigeria)</p> <p>To 1.05 (Senegal)</p> <p>To 1.02 (Sierra Leone)</p> <p>To 1.04 (Togo)</p>
randdexpm	Increase research development activities (total)	ECOWAS	<p>To 1.5 (Liberia)</p> <p>To 1.2 (Benin)</p> <p>To 1.5 (Burkina Faso)</p> <p>To 1.2 (Cabo Verde)</p> <p>To 1.2 (Côte D'Ivoire)</p> <p>To 1.5 (Gambia)</p> <p>To 1.2 (Ghana)</p> <p>To 1.5 (Guinea)</p> <p>To 1.5 (Guinea Bissau)</p> <p>To 1.1 (Mali)</p> <p>To 1.5 (Niger)</p> <p>To 1.2 (Nigeria)</p> <p>To 1.2 (Senegal)</p> <p>To 1.5 (Sierra Leone)</p> <p>To 1.5 (Togo)</p>

labparm

total labour
participation rate
(male & female),
female more
aggressive

ECOWAS

To 1.01
(Liberia)(Total)

To 1.05
(Benin)(Female)

To 1.03 (Benin)(Male)

To 1.16 (Burkina
Faso)(Female)

To 1.01 (Burkina
Faso)(Male)

To 1.18 (Cabo
Verde)(Female)

To 1.03 (Cabo
Verde)(Male)

To 1.18 (Côte
D'Ivoire)(Female)

To 1.03 (Côte
D'Ivoire)(Male)

To 1.16
(Gambia)(Female)

To 1.01
(Gambia)(Male)

To 1.06
(Ghana)(Female)

To 1.03
(Ghana)(Male)

To 1.01
(Guinea)(Female)

To 1.02
(Guinea)(Male)

To 1.11 (Guinea
Bissau)(Female)

To 1.01 (Guinea
Bissau)(Male)

To 1.15
(Mali)(Female)

To 1.1 (Mali)(Male)

To 1.16
(Niger)(Female)

			<p>To 1.01 (Niger)(Male)</p> <p>To 1.08 (Nigeria)(Female)</p> <p>To 1.03 (Nigeria)(Male)</p> <p>To 1.18 (Senegal)(Female)</p> <p>To 1.03 (Senegal)(Male)</p> <p>To 1.03 (Sierra Leone)(Female)</p> <p>To 1.01 (Sierra Leone)(Male)</p> <p>To 1.03 (Togo)(Female)</p> <p>To 1.01 (Togo)(Male)</p>	
Large Infrastructure/Leapfrogging scenario				
qem - Q (OthRenew)	Capital cost to output ratio in energy	ECOWAS	To 0.8 (Africa)	
enpm (OthRenew)	Energy production multiplier for other renewables	ECOWAS	To 1.2 (Africa)	
enpm (Hydro)	Energy production multiplier for other renewables	ECOWAS	To 1.2 (Africa)	
infraelecaccm (urban)	Electricity access multiplier urban	ECOWAS	<p>To 1.03 (Senegal)</p> <p>To 1.03 (Benin)</p> <p>To 1.04 (Burkina Faso)</p> <p>To 1.03 (Cabo Verde)</p> <p>To 1.03 (Côte D'Ivoire)</p> <p>To 1.04 (Gambia)</p>	

			<p>To 1.03 (Ghana)</p> <p>To 1.04 (Guinea)</p> <p>To 1.04 (Guinea Bissau)</p> <p>To 1.04 (Liberia)</p> <p>To 1.05 (Mali)</p> <p>To 1.04 (Niger)</p> <p>To 1.03 (Nigeria)</p> <p>To 1.04 (Sierra Leone)</p> <p>To 1.04 (Togo)</p>	
infraelecacm (rural)	Electricity access multiplier rural	ECOWAS	<p>To 1.2 (Senegal)</p> <p>To 1.2 (Benin)</p> <p>To 1.27 (Burkina Faso)</p> <p>To 1.2 (Cabo Verde)</p> <p>To 1.2 (Côte D'Ivoire)</p> <p>To 1.27 (Gambia)</p> <p>To 1.2 (Ghana)</p> <p>To 1.27 (Guinea)</p> <p>To 1.27 (Guinea Bissau)</p> <p>To 1.27 (Liberia)</p> <p>To 1.4 (Mali)</p> <p>To 1.27 (Niger)</p> <p>To 1.2 (Nigeria)</p> <p>To 1.27 (Sierra Leone)</p> <p>To 1.27 (Togo)</p>	
infraelectranlossm	Electricity transmission loss multiplier	ECOWAS	<p>To 0.85 (Senegal)</p> <p>To 0.8 (Benin)</p> <p>To 0.8 (Burkina Faso)</p>	

			<p>To 0.85 (Cabo Verde)</p> <p>To 0.85 (Côte D'Ivoire)</p> <p>To 0.8 (Gambia)</p> <p>To 0.85 (Ghana)</p> <p>To 0.8 (Guinea)</p> <p>To 0.8 (Guinea Bissau)</p> <p>To 0.8 (Liberia)</p> <p>To 0.8 (Mali)</p> <p>To 0.8 (Niger)</p> <p>To 0.85 (Nigeria)</p> <p>To 0.8 (Sierra Leone)</p> <p>To 0.8 (Togo)</p>
ictbroadmobilm	ICT mobile broadband multiplier	ECOWAS	<p>To 3 (Senegal)</p> <p>To 3 (Benin)</p> <p>To 3 (Burkina Faso)</p> <p>To 3 (Cabo Verde)</p> <p>To 3 (Côte D'Ivoire)</p> <p>To 3 (Gambia)</p> <p>To 3 (Ghana)</p> <p>To 3 (Guinea)</p> <p>To 3 (Guinea Bissau)</p> <p>To 3 (Liberia)</p> <p>To 3 (Mali)</p> <p>To 3 (Niger)</p> <p>To 3 (Nigeria)</p> <p>To 3 (Sierra Leone)</p> <p>To 3 (Togo)</p>
ictbroadcostm	ICT broadband	ECOWAS	To 0.8 (Senegal)

	multiplier on cost of adding a connection		<p>To 0.8 (Benin)</p> <p>To 0.8 (Burkina Faso)</p> <p>To 0.8 (Cabo Verde)</p> <p>To 0.8 (Côte D'Ivoire)</p> <p>To 0.8 (Gambia)</p> <p>To 0.8 (Ghana)</p> <p>To 0.8 (Guinea)</p> <p>To 0.8 (Guinea Bissau)</p> <p>To 0.8 (Liberia)</p> <p>To 0.8 (Mali)</p> <p>To 0.8 (Niger)</p> <p>To 0.8 (Nigeria)</p> <p>To 0.8 (Sierra Leone)</p> <p>To 0.8 (Togo)</p>
ictbroadm	ICT broadband multiplier	ECOWAS	<p>To 1.5 (Senegal)</p> <p>To 1.5 (Benin)</p> <p>To 1.5 (Burkina Faso)</p> <p>To 1.5 (Cabo Verde)</p> <p>To 1.2 (Côte D'Ivoire)</p> <p>To 1.5 (Gambia)</p> <p>To 1.5 (Ghana)</p> <p>To 1.5 (Guinea)</p> <p>To 1.5 (Guinea Bissau)</p> <p>To 1.5 (Liberia)</p> <p>To 1.2 (Mali)</p> <p>To 1.5 (Niger)</p> <p>To 1.5 (Nigeria)</p> <p>To 1.5 (Sierra Leone)</p> <p>To 1.5 (Togo)</p>

Infraroadpavedpcntm	Paved road	ECOWAS	<p>To 1.1 (Senegal)</p> <p>To 1.2 (Benin)</p> <p>To 1.2 (Burkina Faso)</p> <p>To 1.1 (Cabo Verde)</p> <p>To 1.1 (Côte D'Ivoire)</p> <p>To 1.2 (Gambia)</p> <p>To 1.1 (Ghana)</p> <p>To 1.2 (Guinea)</p> <p>To 1.2 (Guinea Bissau)</p> <p>To 1.2 (Liberia)</p> <p>To 1.1 (Mali)</p> <p>To 1.2 (Niger)</p> <p>To 1.1 (Nigeria)</p> <p>To 1.2 (Sierra Leone)</p> <p>To 1.2 (Togo)</p>	
gdpinformshrm	Informal sector	ECOWAS	<p>To 0.89 (Senegal)</p> <p>To 0.89 (Benin)</p> <p>To 0.86 (Burkina Faso)</p> <p>To 0.89 (Cabo Verde)</p> <p>To 0.89 (Côte D'Ivoire)</p> <p>To 0.95 (Gambia)</p> <p>To 0.89 (Ghana)</p> <p>To 0.86 (Guinea)</p> <p>To 0.86 (Guinea Bissau)</p> <p>To 0.86 (Liberia)</p> <p>To 0.9 (Mali)</p> <p>To 0.95 (Niger)</p>	

			<p>To 0.89 (Nigeria)</p> <p>To 0.86 (Sierra Leone)</p> <p>To 0.86 (Togo)</p>	
gdsm (InfraOther)	Government expenditures by destination multiplier		<p>To 1.25 (Senegal)</p> <p>To 1.1 (Benin)</p> <p>To 1.1 (Burkina Faso)</p> <p>To 1.25 (Cabo Verde)</p> <p>To 1.2 (Côte D'Ivoire)</p> <p>To 1.1 (Gambia)</p> <p>To 1.25 (Ghana)</p> <p>To 1.1 (Guinea)</p> <p>To 1.1 (Guinea Bissau)</p> <p>To 1.1 (Liberia)</p> <p>To 1.1 (Niger)</p> <p>To 1.25 (Nigeria)</p> <p>To 1.1 (Sierra Leone)</p> <p>To 1.1 (Togo)</p>	
labinformshrm	Informal labour share	ECOWAS	<p>To 0.98 (Senegal)</p> <p>To 0.98 (Benin)</p> <p>To 0.98 (Burkina Faso)</p> <p>To 0.98 (Cabo Verde)</p> <p>To 0.98 (Côte D'Ivoire)</p> <p>To 0.98 (Gambia)</p> <p>To 0.98 (Ghana)</p> <p>To 0.98 (Guinea)</p> <p>To 0.98 (Guinea Bissau)</p> <p>To 0.98 (Liberia)</p>	

			<p>To 0.98 (Mali)</p> <p>To 0.98 (Niger)</p> <p>To 0.98 (Nigeria)</p> <p>To 0.98 (Sierra Leone)</p> <p>To 0.98 (Togo)</p>	
AfCFTA scenario				
mfpadd	Multifactor productivity growth additive factor	ECOWAS	<p>To 0.006 (Niger)</p> <p>To 0.006 (Côte D'Ivoire)</p> <p>To 0.006 (Liberia)</p> <p>To 0.008 (Guinea)</p> <p>To 0.005 (Mali)</p> <p>To 0.004 (Senegal)</p> <p>To 0.008 (Sierra Leone)</p> <p>To 0.009 (Togo)</p> <p>To 0.004 (Cabo Verde)</p> <p>To 0.008 (Ghana)</p> <p>To 0.007 (Burkina Faso)</p> <p>To 0.007 (Benin)</p> <p>To 0.005 (Guinea Bissau)</p> <p>To 0.004 (Nigeria)</p> <p>To 0.005 (Gambia)</p>	Calculations or adjustments were based on annual average growth rates for the period 2010–2018, using the Penn World Tables data – TFP at current PPPs (USA=1)
XSM	Export multiplier – Manufacturing	ECOWAS	<p>To 1.22 (Benin)</p> <p>To 1.22 (Burkina Faso)</p> <p>To 1.22 (Cabo Verde)</p>	

			<p>To 1.22 (Côte D'Ivoire)</p> <p>To 1.22 (Gambia)</p> <p>To 1.22 (Ghana)</p> <p>To 1.22 (Guinea)</p> <p>To 1.22 (Guinea Bissau)</p> <p>To 1.22 (Liberia)</p> <p>To 1.22 (Mali)</p> <p>To 1.22 (Niger)</p> <p>To 1.22 (Nigeria)</p> <p>To 1.22 (Sierra Leone)</p> <p>To 1.22 (Togo)</p>	
XSM	Export multiplier – Agriculture	ECOWAS	<p>To 1.22 (Benin)</p> <p>To 1.22 (Burkina Faso)</p> <p>To 1.22 (Cabo Verde)</p> <p>To 1.22 (Côte D'Ivoire)</p> <p>To 1.22 (Gambia)</p> <p>To 1.22 (Ghana)</p> <p>To 1.22 (Guinea)</p> <p>To 1.22 (Guinea Bissau)</p> <p>To 1.22 (Liberia)</p> <p>To 1.22 (Mali)</p> <p>To 1.22 (Niger)</p> <p>To 1.22 (Nigeria)</p> <p>To 1.22 (Sierra Leone)</p> <p>To 1.22 (Togo)</p>	

XSM	Export multiplier – Services	ECOWAS	<p>To 1.2 (Benin)</p> <p>To 1.2 (Burkina Faso)</p> <p>To 1.2 (Cabo Verde)</p> <p>To 1.2 (Côte D'Ivoire)</p> <p>To 1.2 (Gambia)</p> <p>To 1.2 (Ghana)</p> <p>To 1.2 (Guinea)</p> <p>To 1.2 (Guinea Bissau)</p> <p>To 1.2 (Liberia)</p> <p>To 1.2 (Mali)</p> <p>To 1.2 (Niger)</p> <p>To 1.2 (Nigeria)</p> <p>To 1.2 (Sierra Leone)</p> <p>To 1.2 (Togo)</p>	
XSM	Export multiplier – ICT	ECOWAS	<p>To 1.1 (Benin)</p> <p>To 1.1 (Burkina Faso)</p> <p>To 1.1 (Cabo Verde)</p> <p>To 1.1 (Côte D'Ivoire)</p> <p>To 1.1 (Gambia)</p> <p>To 1.1 (Ghana)</p> <p>To 1.1 (Guinea)</p> <p>To 1.1 (Guinea Bissau)</p> <p>To 1.1 (Liberia)</p> <p>To 1.1 (Mali)</p> <p>To 1.1 (Niger)</p> <p>To 1.1 (Nigeria)</p> <p>To 1.1 (Sierra Leone)</p> <p>To 1.1 (Togo)</p>	

XSM	Export multiplier – Materials	ECOWAS	<p>To 1.1 (Benin)</p> <p>To 1.1 (Burkina Faso)</p> <p>To 1.1 (Cabo Verde)</p> <p>To 1.1 (Côte D'Ivoire)</p> <p>To 1.1 (Gambia)</p> <p>To 1.1 (Ghana)</p> <p>To 1.1 (Guinea)</p> <p>To 1.1 (Guinea Bissau)</p> <p>To 1.1 (Liberia)</p> <p>To 1.1 (Mali)</p> <p>To 1.1 (Niger)</p> <p>To 1.1 (Nigeria)</p> <p>To 1.1 (Sierra Leone)</p> <p>To 1.1 (Togo)</p>	
XSM	Export multiplier – Energy	ECOWAS	<p>To 1.05 (Benin)</p> <p>To 1.05 (Burkina Faso)</p> <p>To 1.05 (Cabo Verde)</p> <p>To 1.05 (Côte D'Ivoire)</p> <p>To 1.055 (Gambia)</p> <p>To 1.1 (Ghana)</p> <p>To 1.1 (Guinea)</p> <p>To 1.1 (Guinea Bissau)</p> <p>To 1.1 (Liberia)</p> <p>To 1.1 (Mali)</p> <p>To 1.1 (Niger)</p> <p>To 1.1 (Nigeria)</p> <p>To 1.1 (Sierra Leone)</p> <p>To 1.1 (Togo)</p>	

xshift	Export shift as a result of promotion of exports (Manufactures) ratio	ECOWAS	To 0.008 (Africa)	<p>In the World Bank policy research paper , export promotion agencies for developing countries will have an elasticity of 8%.</p> <p>In the World Economy paper, each additional export promotion agency increases exports by 6–10%.</p>
mtariffaxrm	<p>Import tariff tax multiplier by country and sector:</p> <p>Agriculture</p> <p>Materials</p>	ECOWAS	<p>To 0.1 (Benin)</p> <p>To 0.1 (Burkina Faso)</p> <p>To 0.1 (Cabo Verde)</p> <p>To 0.1 (Côte D'Ivoire)</p> <p>To 0.1 (Gambia)</p> <p>To 0.1 (Ghana)</p> <p>To 0.1 (Guinea)</p> <p>To 0.1 (Guinea Bissau)</p> <p>To 0.1 (Liberia)</p> <p>To 0.1 (Mali)</p> <p>To 0.1 (Niger)</p> <p>To 0.1 (Nigeria)</p> <p>To 0.1 (Sierra Leone)</p> <p>To 0.1 (Togo)</p> <p>To 0.01 (Benin)</p> <p>To 0.01 (Burkina Faso)</p>	<p>Under the AfCFTA, agriculture products are under sensitive products, have a fixed 10% tariff.</p> <p>(See for example, tralac, African Continental Free Trade Agreement.)</p> <p>Non-sensitive products have a 100% tariff reduction under the AfCFTA.</p> <p>Only a few products are under the 3% of the excluded products, for example, corrugated flat-rolled steel.</p> <p>Few manufactured products are under sensitive and excluded products.</p>

Energy, Service, and
ICT sector

Manufacturing sector

To 0.01 (Cabo Verde)

To 0 (Côte D'Ivoire)

To 0.01 (Gambia)

To 0.01 (Ghana)

To 0.01 (Guinea)

To 0.01 (Guinea
Bissau)

To 0.01 (Liberia)

To 0.01 (Mali)

To 0.01 (Niger)

To 0.01 (Nigeria)

To 0.01 (Sierra
Leone)

To 0.01 (Togo)

To 0 (Benin)

To 0 (Burkina Faso)

To 0 (Cabo Verde)

To 0 (Côte D'Ivoire)

To 0 (Gambia)

To 0 (Ghana)

To 0 (Guinea)

To 0 (Guinea Bissau)

To 0 (Liberia)

To 0 (Mali)

To 0 (Niger)

To 0 (Nigeria)

To 0 (Sierra Leone)

To 0 (Togo)

To 0.05 (Benin)

To 0.05 (Burkina

			<p>Faso)</p> <p>To 0.05 (Cabo Verde)</p> <p>To 0.05 (Côte D'Ivoire)</p> <p>To 0.05 (Gambia)</p> <p>To 0.05 (Ghana)</p> <p>To 0.05 (Guinea)</p> <p>To 0.05 (Guinea Bissau)</p> <p>To 0.05 (Liberia)</p> <p>To 0.05 (Mali)</p> <p>To 0.05 (Niger)</p> <p>To 0.05 (Nigeria)</p> <p>To 0.05 (Sierra Leone)</p> <p>To 0.05 (Togo)</p>	
Financial Flows scenario				
xworkremitinm	Worker remittances multiplier (positive numbers are receipts)	ECOWAS	<p>To 1.08 (Benin)</p> <p>To 1.1 (Burkina Faso)</p> <p>To 1.08 (Cabo Verde)</p> <p>To 1.08 (Côte D'Ivoire)</p> <p>To 1.1 (Gambia)</p> <p>To 1.1 (Ghana)</p> <p>To 1.1 (Guinea)</p> <p>To 1.1 (Guinea Bissau)</p> <p>To 1.1 (Liberia)</p> <p>To 1.15 (Mali)</p> <p>To 1.1 (Niger)</p> <p>To 1.1 (Nigeria)</p> <p>To 1.08 (Senegal)</p>	

			To 1.1 (Sierra Leone) To 1.1 (Togo)	
aidrecm	Aid (foreign) receipts multiplier	ECOWAS	To 1.1 (Benin) To 1.15 (Burkina Faso) To 1.1 (Cabo Verde) To 1.1 (Côte D'Ivoire) To 1.15 (Gambia) To 1.15 (Ghana) To 1.15 (Guinea) To 1.15 (Guinea Bissau) To 1.1 (Liberia) To 1.2 (Mali) To 1.15 (Niger) To 1.15 (Nigeria) To 1.1 (Senegal) To 1.15 (Sierra Leone) To 1.15 (Togo)	We need to increase the provision of aid from OECD countries and FDI outflows from there and China.
xfdistockm	Foreign direct investment, stocks of investment from abroad, multiplier	ECOWAS	To 1.1 (Benin) To 1.08 (Burkina Faso) To 1.1 (Cabo Verde) To 1.1 (Côte D'Ivoire) To 1.08 (Gambia) To 1.1 (Ghana) To 1.08 (Guinea) To 1.08 (Guinea Bissau) To 1.01 (Liberia)	

			<p>To 1.1 (Mali)</p> <p>To 1.08 (Niger)</p> <p>To 1.12 (Nigeria)</p> <p>To 1.1 (Senegal)</p> <p>To 1.08 (Sierra Leone)</p> <p>To 1.08 (Togo)</p>
xfdistoutm	Foreign direct investment, stocks of outward investment, multiplier	ECOWAS	<p>To 0.8 (Benin)</p> <p>To 0.8 (Burkina Faso)</p> <p>To 0.8 (Cabo Verde)</p> <p>To 0.8 (Côte D'Ivoire)</p> <p>To 0.8 (Gambia)</p> <p>To 0.8 (Ghana)</p> <p>To 0.8 (Guinea)</p> <p>To 0.8 (Guinea Bissau)</p> <p>To 0.8 (Liberia)</p> <p>To 0.8 (Mali)</p> <p>To 0.8 (Niger)</p> <p>To 0.8 (Nigeria)</p> <p>To 0.8 (Senegal)</p> <p>To 0.8 (Sierra Leone)</p> <p>To 0.8 (Togo)</p>
xportfoliom	Portfolio investment, stocks of investment from abroad, multiplier	ECOWAS	<p>To 1.5 (Benin)</p> <p>To 1.5 (Burkina Faso)</p> <p>To 2 (Cabo Verde)</p> <p>To 2 (Côte D'Ivoire)</p> <p>To 1.5 (Gambia)</p> <p>To 2 (Ghana)</p> <p>To 1.5 (Guinea)</p>

			<p>To 1.5 (Guinea Bissau)</p> <p>To 1.5 (Liberia)</p> <p>To 1.2 (Mali)</p> <p>To 1.5 (Niger)</p> <p>To 2 (Nigeria)</p> <p>To 2 (Senegal)</p> <p>To 1.5 (Sierra Leone)</p> <p>To 1.5 (Togo)</p>	
Governance scenario				
democm	Democracy	ECOWAS	<p>To 1.2 (Benin)</p> <p>To 1.2 (Burkina Faso)</p> <p>To 1.2 (Cabo Verde)</p> <p>To 1.2 (Côte D'Ivoire)</p> <p>To 1.2 (Gambia)</p> <p>To 1.2 (Ghana)</p> <p>To 1.2 (Guinea)</p> <p>To 1.2 (Guinea Bissau)</p> <p>To 1.2 (Liberia)</p> <p>To 1.2 (Mali)</p> <p>To 1.2 (Niger)</p> <p>To 1.2 (Nigeria)</p> <p>To 1.2 (Senegal)</p> <p>To 1.2 (Sierra Leone)</p> <p>To 1.2 (Togo)</p>	
econfreem	Economic freedom	ECOWAS	<p>To 1.12 (Benin)</p> <p>To 1.12 (Burkina Faso)</p> <p>To 1.12 (Cabo Verde)</p>	

			<p>To 1.12 (Côte D'Ivoire)</p> <p>To 1.12 (Gambia)</p> <p>To 1.12 (Ghana)</p> <p>To 1.12 (Guinea)</p> <p>To 1.12 (Guinea Bissau)</p> <p>To 1.12 (Liberia)</p> <p>To 1.12 (Mali)</p> <p>To 1.12 (Niger)</p> <p>To 1.12 (Nigeria)</p> <p>To 1.12 (Senegal)</p> <p>To 1.12 (Sierra Leone)</p> <p>To 1.12 (Togo)</p>	
gemm	Gender empowerment	ECOWAS	To 1.2	
govcorruptm	Government corruption	ECOWAS	<p>To 1.15 (Benin)</p> <p>To 1.15 (Burkina Faso)</p> <p>To 1.15 (Cabo Verde)</p> <p>To 1.15 (Côte D'Ivoire)</p> <p>To 1.15 (Gambia)</p> <p>To 1.15 (Ghana)</p> <p>To 1.15 (Guinea)</p> <p>To 1.15 (Guinea Bissau)</p> <p>To 1.15 (Liberia)</p> <p>To 1.15 (Mali)</p> <p>To 1.15 (Niger)</p> <p>To 1.15 (Nigeria)</p>	

			<p>To 1.15 (Senegal)</p> <p>To 1.15 (Sierra Leone)</p> <p>To 1.15 (Togo)</p>
goveffecttm	Government effectiveness (quality)	ECOWAS	<p>To 1.15 (Benin)</p> <p>To 1.15 (Burkina Faso)</p> <p>To 1.15 (Cabo Verde)</p> <p>To 1.15 (Côte D'Ivoire)</p> <p>To 1.15 (Gambia)</p> <p>To 1.15 (Ghana)</p> <p>To 1.15 (Guinea)</p> <p>To 1.15 (Guinea Bissau)</p> <p>To 1.15 (Liberia)</p> <p>To 1.15 (Mali)</p> <p>To 1.15 (Niger)</p> <p>To 1.15 (Nigeria)</p> <p>To 1.15 (Senegal)</p> <p>To 1.15 (Sierra Leone)</p> <p>To 1.15 (Togo)</p>
govregqualm	government regulatory quality	ECOWAS	<p>To 1.15 (Benin)</p> <p>To 1.15 (Burkina Faso)</p> <p>To 1.15 (Cabo Verde)</p> <p>To 1.15 (Côte D'Ivoire)</p> <p>To 1.15 (Gambia)</p> <p>To 1.15 (Ghana)</p> <p>To 1.15 (Guinea)</p>

			<p>To 1.15 (Guinea Bissau)</p> <p>To 1.15 (Liberia)</p> <p>To 1.15 (Mali)</p> <p>To 1.15 (Niger)</p> <p>To 1.15 (Nigeria)</p> <p>To 1.15 (Senegal)</p> <p>To 1.15 (Sierra Leone)</p> <p>To 1.15 (Togo)</p>	
	State failure through instability (abrupt regime transition) event occurrence	ECOWAS	To .05	
	State failure through instability (abrupt regime transition) magnitude	ECOWAS	To .1	
sfintlwaradd	State failure/internal war probability	ECOWAS	To -0.4	
sfintwarmagm	State failure through instability – magnitude	ECOWAS	To 0.8	

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