DRAFT

# ACRONYMS AND ABBREVIATIONS

- CU Coordination Unit 3GAFSP4
- ; 2ME ; e, e/o. ent 2 . act E, a/uation
- E: F2S E1. erience5based #ood insecurit& sca/es

# INTRODUCTION

16 -he ne+/& u. dated Monitorin% and E, a/uation 3M&E4 P

#ood insecurit& in a consistent +a& throu%hout the +or/d, FA! . ro. oses the use o# t+o di##erent indicators: the . ercenta%e o# indi, idua/s that ha, e e1. erienced 1 oderate6or6se0ere #ood insecurit&  $3F2_{odHse}$ , 4 and the . ercenta%e o# indi, idua/s that ha, e e1. erienced se0ere #ood insecurit&  $3F2_{se}$ , 46<sup>4</sup>

@6 \$4e FIES Sur0ey odule 2FIES6S 3 is co1 posed o5 eig4t 7uestions 8it4 si1 ple dic4oto1 ous responses 29yes:;9no:3%I uestions can be #ra ed +ith re#erence to sin%/e indi, idua/s or to a// indi, idua/s /i, in% in a househo/d, and are t&. ica//& a. ./ied +ith a re#erence 3reca//4 . eriod o# 12 onths6 F2ES a/so . ro, ides an e1tended, ersion o# the =uestionnaire, +ith t+o additiona/ #o//o+5u. =uestions re/atin% to the ore se, ere end o# the sca/e o# e1. eriencin% hun%er, to e1tend the easured ran%e at the se, ere end #or use in .o. u/ations +here it is i .ortant to #urther discri inate a on% the se, ere/& #ood insecure6 Gi, en the hi%her . re, a/ence o# #ood insecurit& and undernourish ent in t&. ica/ GAFSP5reci.ient countries and /ocations, it is antici. ated that GAFSP . ro'ects +i// ro// out the e1tended , ersion o# F2ES #or the u. co in% cohort o# . ro'ects6

## FIES FOR DEVELOPING COUNTRIES: EXTERNAL VALIDATION

- A6 One o5 t4e 1 ost i1 portant c4aracteristics o5 a strong <E syste1 is t4e 0alidity o5 t4e indicators selected%As . art o# the . rocess o# se/ectin% indicators #or GAFSP, the M&E +or7in% %rou. undertoo7 a s&ste atic , a/idation e1ercise #or the F2ES6 he ob'ecti, e o# this , a/idation e##ort + as to test the F2ES , is5J5 , is %/oba//& re#erenced indicators o# . o, ert& and hu an de, e/o. ent, and to use the resu/ts #ro the , a/idation ana/&ses to in#or the GAFSP Steerin% Co ittee about the suitabi/it& o# F2ES as the chosen indicator o# hun%erD#ood securit& #or the GAFSP . ro%ra 6-he , a/idation e1ercise #irst a . . /ied e1terna/ and cross5countr& ana/&ses to F2ES5based . re, a/ence rates co . uted b& the "oices o# the \$un%r& . ro'ect tea 6
- 76 \$4e results presented 4ere situate t4e esti 1 ated FIES6/ased 1 easures in t4e /roader context o5 rele0ant 4u1 an de0elop 1 ent indicators% F2ES5based easures o# #ood insecurit&® ha, e hi%h corre/ations +ith .o, ert& rates, under5#i, e orta/it&, undernourish ent, and stuntin% : ased on F2ES data co//ected , ia the Gal/u. 9or/d Pol/ in K2 de, e/o. in% countries, -ab/e 1 . resents the S. ear anß ran75corre/ation and Pearson®s corre/ation bet+een the t+o F2ES5based easuresC314 the .re, a/ence o# oderate or se, ere #ood insecurit& in the nationa/ adu/t .o. u/ation 3F2 odHse, 4 and 324 the .re, a/ence o# se, ere #ood insecurit& in the adu/t .o. u/ation 3F2se, 4C and .o, ert& and hea/th outco es6 -ab/e 2 sho+s the stren%th o# the

re/ationshi. bet+een F2ES5based indicators and under5#i,e orta/it& rate a#ter contro//in% #or e1tre e .o, ert&, +hich is .ositi, e and si%ni#icant L esti ated #or a sa ./e o# AK countries, #or +hich co ./ete datasets are a, ai/ab/e #or both de. endent and inde. endent , ariab/es6 Scatter ./ots 3Fi%ure 1 and Fi%ure 24 de. ict the stren%th o# these corre/ations6 -his e1ercise he/. ed to /a& the %round+or7 #or #urther thin7in% about . otentia/ tar%et settin% #or F2ES at the .ro%ra /e, e/6

<sup>&</sup>lt;sup>4</sup> A third indicator, the . ercenta‰ o# indi, idua/s e1. eriencin% oderate /e, e/s on/& 3F2 od4, can be co . uted as the di##erence bet+een F2 odHse, and F2se, 6 FA! ad, ises a%ainst re. ortin% on this third indicator because reductions in F2 od a& be due to either a reduction of o, era// #ood insecurit& 3i# so e o# those +ho used to e1. erience oderate /e, e/s o# #ood insecurit& i . ro, e their condition4 or to a +orsenin% situation 3+hen so e o# the o, e to se, ere /e, e/s46

\$a/le ': Spear 1 an and Pearson Correlation Coe55icients /et8een FIES6/ased 1 easures and ot4er 1 easures o5 5ood
insecurity;po0erty

accurace of Food inconvertive potentia	Spear 1 an Correlation		Pearson Correlation	
easures of food insecurity, poperty	FI1 od=se0	Flse0	FI1 od=se0	Flse0
*e+Po,ert& <ineusm16k0< td=""><td>0671E4N</td><td>O6AKAKN</td><td>06AE4@N</td><td>06A000N</td></ineusm16k0<>	0671E4N	O6AKAKN	06AE4@N	06A000N
8ura/Po. ert& \$eadcount 8atio 3at LISM162@ PPP a da&/				

8ura/Po, ert& \$eadcount 8atio 3at USM162@PPP a da&4

## FIES FOR GAFSP: TARGET SETTING

- 06 Going 5or8ard under GAFSP@all ne8 Pu/lic Sector Aindo8 pro>ects and a sa1ple o5 Pri0ate Sector Aindo8 pro>ects are expected to use t4e FIES in order to tracB c4anges in 5ood insecurity a1 ong GAFSP /ene5iciaries% Gi, en this ne+ M&E . o/ic&, it is reasonab/e #or GAFSP to consider +hat i%ht be an a..ro.riate tar%et . ercenta%e chan%e #or F2<sub>se</sub>, to +hich GAFSP cou/d be e1. ected to contribute6
- K6 -ar%ets can be esti ated based on e( ante and e( ! ost a. . roaches6 E15ante tar%ets t&. ica//& use structura/ ode/s or si u/ations to deter ine the /i7e/& antici. ated %ains 3or not4 #or an indicator6 -his . a. er atte . ts to . redict the chan%e in . re, a/ence o# se, ere #ood insecurit& under GAFSP in res. onse to inco e chan%es, based on an e15ante a. . roachCand +ith notab/e /i itations, as out/ined be/o+6

106 A considerable challen% in esti atin% such a tar% et is that F2ES5based easures are on/& a, ai/able #or t+o

nationa/5/e, e/ F2ES5based . re, a/ence rates + ere used in the ana/&sis6 Usin% the At/as ethod, data #or 2K GAFSP5e/i%ib/e countries #or + hich t + o &ears 32014 and 201@4 o# F2ES and G\*2 . er ca. ita data are a, ai/ab/e + ere inc/uded 3out o# @A tota/ GAFSP5e/i%ib/e countries /isted in Anne1 24, + hereas + ith G\*2 . er ca. ita PPP, the nu ber o# countries + as reduced #urther due to una, ai/abi/it& o# data #or #i, e GAFSP5e/i%ib/e countries6

- 1E6 Panel regression analyses suggest t4at 5or GAFSP6eligi/le countries@t4e pre0alence o5 se0ere 5ood insecurity 2Flse03 is 1 ore responsi0e to c4anges in inco1e 2in ot4er Bords@inco1e elasticities are greater3 as co1pared to 1 oderate6or6se0ere 5ood insecurity%-+ot&.es o# ode/s + ere tested% A si ./e Genera/i0ed <east S=uares 3G<S4 ode/ is tested and .re#erred under the assu . tion that the unobser, ed , ariab/es are uncorre/ated + ith 3or, ore stron% &, statistica//& inde. endent o#4 a// the obser, ed , ariab/es6 -he ode/ is re. eated under #our scenarios usin% . ane/ and . oo/ed data6 An e1tensi, e sensiti, it& ana/&sis is a/so carried out, % i, en the s a// si0e o# the sa ./e6 Fo//o+in% : udde/ e&er et a/6 320004, u/ti./e ethods are tested to counter acute #i1ed e##ect biases arisin% #ro the s a// sa ./e si0e6</p>
- 146 In all cases@elasticity esti1 ates are deri0ed /y regressing t4e log c4ange in pre0alence o5 500d insecurity on t4e predicted log c4ange in inco1e% -o ca. ture the in#/uence o# ti e . eriod s. eci#ic e##ects, an a/ternati, e ode/ is a/so esti ated inc/udin% &ear du ies<sup>K</sup> under each scenario 3see the discussion in the 8esu/ts section46 9 ith on/& t+o &ears o# data a, ai/ab/e, the addition o# the ti e du & had no si%ni#icant in#/uence on the esti ated e/asticities6

#### Re&' #t&

1@6 For GAFSP countries@t4e c4ange in t4e pre0alence o5 500d insecurity in response to inco 1 e@ 1 easured /y GNI per capita@is esti 1 ated to /e statistically signi5icant 2gi0en p60alues less t4an -%-?3 3-ab/e E6146 -he esti ated ne%ati, e, a/ues o# the esti ated e/asticities broad/& su. ort the theor& that hi%her inco e is associated + ith a /o+er . re, a/ence o# #ood insecurit&62n si . /e ter s, the esti ates #ro the #irst ode/ su%kest that #or e, er& 10 . ercent increase in G\*2 . er ca. ita, the . re, a/ence o# oderate5to5se, ere #ood insecurit& i%ht dec/ine b& 46A . er (r)11.03(e)-3.39926()-2.62422(t4e)-8(c)293(r)0.138 . 87445(a)-0.172821()-7.06174(

, ariation o, er ti e6 -he s al/er ti e series e##ects /i it the robustness o# the a. . roach to deri, e tar%ets #or F2ES5based indicators6 Control/in% #or the e##ects o# uni=ue countr& characteristics to iso/ate the i . act o# inco e di##erence on #ood insecurit& is a/so a chal/en%e6

206 \$4ere is also no 8ay to 0alidate national le0el results 8it4 4ouse4old le0el esti1 ates%-he Gal/u. 9or/d Pol/ sur, e& results used b& "o\$ are based on around 1,000 inter, ie+s . er countr&, and are desi%ned to be re. resentati, e o# the national . o. u/ation6 A/thou%h ad'ust ents are ade to re#lect the res. ecti, e shares o# urban and rural . o. u/ations, #or an& countries the sa . /es dra+n #ro rural areas a& be too s all to be re. resentati, e o# the rura/5based bene#iciaries tar%eted b& GAFSP6 -here is no +a& current/& to assess the e1tent o# these di##erences, and the associated robustness o# usin% the e/asticities deri, ed #ro national /e, el results as indicati, e o# those #or . otential GAFSP bene#iciaries6 A/thou%h the GAFSP M&E tea , throu%h its . artnershi. +ith the "! \$ tea , has access to icro5/e, el data used to esti ate F2ES . re, a/ence rates, additional icro5/e, el data #or de o%ra. hic , ariab/es 3%ender, a%e4, e . /o& ent status, %eo%ra. hic , ariab/es 3rura/Durban4, and inco e corres. ondin% to the sa e indi, idua/Dhouseho/ds +ou/d need to be accessed in order to carr& out additional e15ante ana/&sis at the househo/d /e, e/6

### Rec"((en ati"nt"t!eSC

216 Such an ana/&sis, usin% an additional &earBs +orth o# data, +ou/d . ro, ide a ) etter infor\$ed F"#S target reco\$\$endation for GAFSP and is the a!! roach reco\$\$ended )y the CU to the SC6 -he "!\$ tea is e1. ected to . ro, ide a‰e, ‰ender, education, and urbanDrura/ and arital status data to the CU6 -o access the icro5/e, e/ inco e data needed to co ./e ent the F2ES data and enable #urther ana/&sis, the CU +ou/d need to obtain a /icense #ro Gal/u. #or its data5sets #or GAFSP5e/i%ib/e countries #or 2014, 201@, and 201A6 -he CU is in initial discussions +ith Gal/u. throu%h the "!\$ tea and +i// use #unds #ro +ithin the ./anned M&E bud%et #or F?17D10 to co, er costs, as . art o# GAFSPBs o. erationa/i0ation o# the u. dated GAFSP indicators6 Me bers o# the M&E 9or7in% %rou. +i// be in#or ed o# . ro%ress re%u/ar/&, +ith the CU co in% bac7 to the SC +ith u. dated reco endations on tar‰ets b& the end o# C? 2017, data a, ai/abi/it& . er ittin‰

. xi: xtreg LnFImodsev LogGNIpercapita, re r						
Random-effects GLS regression Group variable: country1	Number of Number of	obs groups	=	50 25		
	Wald chi2	(1)	=	9.15		
	wain chiz	n national and a second	<b>~</b> X	l ⊒ <del>assants</del>		
e date i un ministre gebeure i l'i an la MT becomme i n'e denamgie j						
- 医療のの1 なかり、かかし、水・ 秋季   お 潮一衣 約1 しの (空東)	<u>s.</u>	L P 1 J	met setset –			
		1 1 1 1 1	1. State	and the second		



## ANNEX \*: COUNTRIES ELIGIBLE FOR GAFSP FUNDING

-he call #or . ro. osa/s + ill be o. en to all e bers of the 2nternational ; e, e/o. ent Association 32; A4 that are eli%ible to recei, e #inancin% #ro 2; A and not the 2nternational : an7 #or 8econstruction and ; e, e/o. ent 32: 8; 4 3F2; A5on/& countriesG4 and that are not in non5accrual status $6^{10}$  - his current/& includes the @A countries list in -able A2616

A5rica *+, countries-		East Asia and t4e Paci5ic * countries-	Europe and Central Asia *+ countries-	)atin A1erica and t4e Cari//ean */ countries-	iddle East and Nort4 A5rica *. country-	Sout4 Asia *' countries-
: enin : ur7ina Faso : urundi CA8 Chad Co oros CSte dl2, oire ; 'ibouti ; e ocratic 8e. ub/ic o# Con‰o Ethio. ia Ga bia Ghana Guinea5: issau (en&a <esotho <iberia< td=""><td>Mada%ascar Ma/a+i Ma/i Mauritania Mo0a bi=ue * i%er 8+anda STo -o U and Princi. e Sene%a/ Sierra <eone South Sudan -an0ania - 0%o U%anda Va bia</eone </td><td>Ca bodia (iribati <ao 8<br="" p;="">Marshal/ 2s/ands Micronesia, FS M&amp;an ar Sa oa So/o on 2s/ands -on%a -u, a/u ''anuatu</ao></td><td>(oso, o (&amp;r‱0 8e. ub/ic -a'i7istan</td><td>Gu&amp;ana \$aiti \$onduras *icara%ua</td><td>?e en</td><td>A#%hanistan : an%/adesh : hutan Ma/di, es *e. a/</td></iberia<></esotho 	Mada%ascar Ma/a+i Ma/i Mauritania Mo0a bi=ue * i%er 8+anda STo -o U and Princi. e Sene%a/ Sierra <eone South Sudan -an0ania - 0%o U%anda Va bia</eone 	Ca bodia (iribati <ao 8<br="" p;="">Marshal/ 2s/ands Micronesia, FS M&amp;an ar Sa oa So/o on 2s/ands -on%a -u, a/u ''anuatu</ao>	(oso, o (&r‱0 8e. ub/ic -a'i7istan	Gu&ana \$aiti \$onduras *icara%ua	?e en	A#%hanistan : an%/adesh : hutan Ma/di, es *e. a/

\$a/le A\*% : Countries eligi/le 5or GAFSP 5unding@/y region

<sup>&</sup>lt;sup>10</sup> \*onaccrua/ status occurs +hen the o/dest . a& ent arrears are si1 onths o, erdue6 ! nce al/ arrears are c/eared, al/ loans to, or %uaranteed b&, the countr& are %eneral/& restored to accrua/ status6