

Proyecto Quanta – Cuidado y Género

Simulaciones con Mini GEM- Care II

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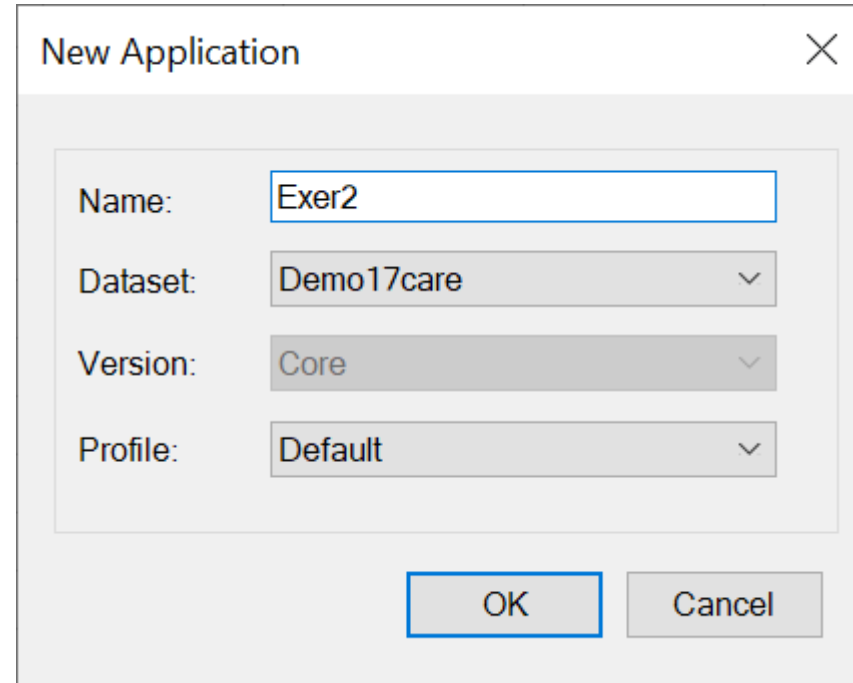
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Introducción

- En esta presentación mostramos, paso a paso, cómo realizar y analizar simulaciones con Mini GEM-Care empleando la interfaz ISIM.
- Para realizar las simulaciones, debe haber instalado
 - GAMS
 - ISIM
 - Modelo Mini-GEM-Care-2022-07-05
 - (ver <https://cuidadoygenero.org/taller-gem-care-colombia>)

New ISIM Application



A dialog box titled "New Application" with a close button (X) in the top right corner. The dialog contains four input fields: "Name" with the text "Exer2", "Dataset" with "Demo17care", "Version" with "Core", and "Profile" with "Default". Each dropdown menu has a downward arrow. At the bottom, there are two buttons: "OK" and "Cancel".

Name:	<input type="text" value="Exer2"/>
Dataset:	<input type="text" value="Demo17care"/>
Version:	<input type="text" value="Core"/>
Profile:	<input type="text" value="Default"/>

MCS Modelo para Debuggistan (COP)

	a-agr	a-nagr	a-cr-gdp	a-cr-ngdp	a-lei-m	a-lei-f	c-agr	c-nagr	c-cr-gdp	c-cr-ngdp	c-lei-m	c-lei-f	f-lab-m	f-lab-f	f-cap	hhd	gov	tax-act	tax-com	tax-dir	total	
a-agr							10.2															10.2
a-nagr								149.8														149.8
a-cr-gdp									3.5													3.5
a-cr-ngdp										18.6												18.6
a-lei-m											24.2											24.2
a-lei-f												23.2										23.2
c-agr	0.6	5.3	0.0													4.3	0.0					10.3
c-nagr	4.2	68.6	1.0													72.5	12.0					158.1
c-cr-gdp	0.0	0.2	0.0													1.6	1.7					3.5
c-cr-ngdp																18.6						18.6
c-lei-m																24.2						24.2
c-lei-f																23.2						23.2
f-lab-m	2.8	21.3	0.7	4.3	24.2																	53.4
f-lab-f	0.4	13.9	1.4	14.2		23.2																53.1
f-cap	2.2	38.0	0.3																			40.6
hhd													53.4	53.1	40.6		3.7					150.8
gov																		2.5	8.5	6.5		17.4
tax-act	-0.1	2.5	0.1																			2.5
tax-com							0.1	8.4														8.5
tax-dir																6.5						6.5
total	10.2	149.8	3.5	18.6	24.2	23.2	10.3	158.1	3.5	18.6	24.2	23.2	53.4	53.1	40.6	150.8	17.4	2.5	8.5	6.5		

Ir a View | Reports | Base Year Reports

GDx Viewer - C:\USERS\MARTIN\DOCUMENTS\ISIM-FILES\Mini-GEM-Care-2021-07-05\repbaseyr2.gdx

File View

Name: **facdemstruc0**
share of factor f in value added of activity a (%)

Drop Filter Fields Here: Value: acp

a.	a-agr	a-nagr	a-cr-gdp	a-cr-ngdp	a-lei-m	a-lei-f	total
f-lab-m	51.288293	29.133606	29.052295	23.339723	100		36.285668
f-lab-f	7.850048	18.928523	57.668948	76.660277		100	36.129738
f-cap	40.861658	51.93787	13.278757				27.584594
total		100	100	100	100	100	100

PivotTable Field List

Select Dimensions to Report

- acp
- ac
- Value

Drag and Drop Between Boxes

Report Filter: acp

Column Label: ac

Row Label: ac

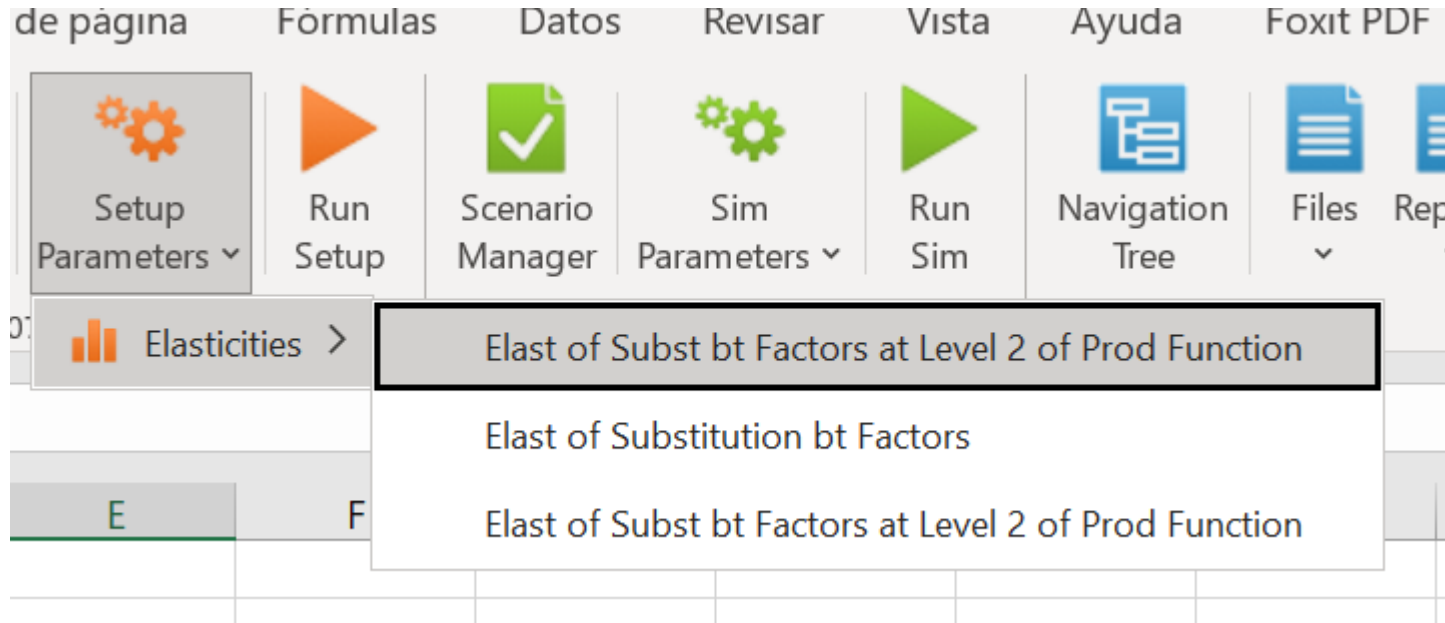
Values: Value

Base-Year Data (%)

labordemstruc							
	a-agr	a-nagr	a-cr-gdp	a-cr-ngdp	a-lei-m	a-lei-f	total
f-lab-m	87.45	61.10	16.18	21.63	100.00		45.29
f-lab-f	12.55	38.90	83.82	78.37		100.00	54.71
total	100.00	100.00	100.00	100.00	100.00	100.00	100.00

	a-agr	a-nagr	a-cr-gdp	a-cr-ngdp	total
f-lab-m	16.81	61.77	0.93	20.49	100.00
f-lab-f	2.00	32.55	3.99	61.46	100.00
total	8.71	45.78	2.60	42.91	100.00

Ir a Setup Parameters | Elasticities



Elasticidades

prodelas(a)	
a	value
a-agr	1
a-nagr	1
a-cr-gdp	1
a-cr-ngdp	1
a-lei-m	1
a-lei-f	1

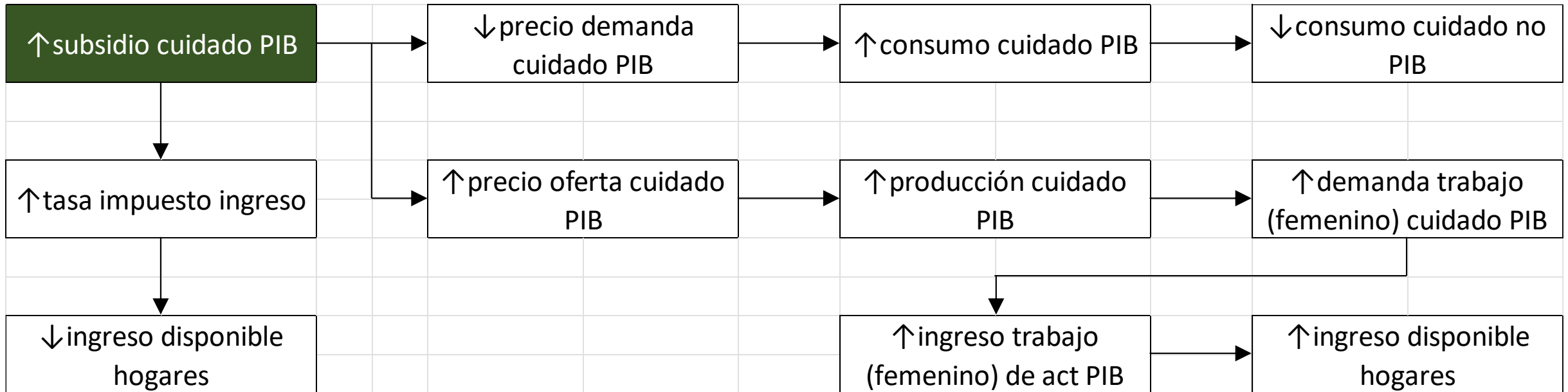
prodelas2(a,f)	
a	f-lab
a-agr	0.9
a-nagr	0.9
a-cr-gdp	0.9
a-cr-ngdp	0.5
a-lei-m	0.5
a-lei-f	0.5

conelas1(c1,h)	
c1	hhd
c-cr	2

Ejercicios

- **subcaregdp**: Introducir subsidio 25% a servicios de cuidado incluidos en PIB (c-cr-gdp)
- **subcarengdp**: Introducir subsidio 25% a servicios de cuidado excluidos del PIB (c-cr-ngdp)
- **tfpcaregdp**: Incrementar productividad total de los factores en 10% en la producción de servicios de cuidado incluidos en el PIB (c-cr-gdp)
- **tfpcarengdp**: Incrementar productividad total de los factores en 10% en la producción de servicios de cuidado excluidos del PIB (c-cr-gdp)
 - En este caso, es conveniente reemplazar la función de utilidad Cobb-Douglas por otra tipo Stone-Geary, de la que se deriva un Sistema de Gasto Lineal (LES)

Principales Canales de Transmisión Escenario subcaregdp



NOTAR: importante para explicar resultados es (a) intensidad de uso factorial (cuidado PIB y no PIB es intensivo en trabajo femenino), y (b) baja elasticidad de sustitución entre trabajo masculino y femenino en producción servicios cuidado.

Resultados

macrealXP					qarealXP				
	base	subcaregdp	subcarengdp	tfpcaregdp		base	subcaregdp	subcarengdp	tfpcaregdp
PrvCon	78.35	1.16	-3.53	0.33	a-agr	10.19	-0.09	-2.75	0.07
GovCon	13.70				a-nagr	149.76	0.09	-2.75	0.11
GDPMP	92.05	0.99	-3.00	0.28	a-cr-gdp	3.54	32.64	-11.79	6.26
GDPFC	81.13	1.09	-2.96	0.00	a-cr-ngdp	18.57	-2.51	23.53	-0.35
Wage	0.62	2.36	-3.10	0.06	a-lei-m	24.19	-0.06	-2.88	0.03
CapRet	1.00	0.90	-2.85	0.22	a-lei-f	23.17	0.05	-10.74	0.25

qhrealXP; total				
	base	subcaregdp	subcarengdp	tfpcaregdp
c-agr	4.32	-0.32	-2.74	0.03
c-nagr	72.45	-0.31	-3.09	0.05
c-cr-gdp	1.58	72.98	-25.99	13.99
c-cr-ngdp	18.57	-2.51	23.53	-0.35
c-cr	20.15	2.63	19.19	0.74
c-lei-m	24.19	-0.06	-2.88	0.03
c-lei-f	23.17	0.05	-10.74	0.25
total	164.43	0.59	1.39	0.25

Resultados

qfrealXP					
		base	subcaregdp	subcarengdp	tfpcaregdp
f-lab-m	a-agr	2.79	0.18	-3.26	0.09
f-lab-m	a-nagr	21.32	0.42	-2.85	0.12
f-lab-m	a-cr-gdp	0.73	32.68	-8.22	-3.49
f-lab-m	a-cr-ngdp	4.33	-2.55	27.61	-0.43
f-lab-m	a-lei-m	24.19	-0.06	-2.88	0.03
f-lab-f	a-agr	0.43	0.28	-10.34	0.29
f-lab-f	a-nagr	13.85	0.53	-9.96	0.31
f-lab-f	a-cr-gdp	1.45	32.82	-14.94	-3.30
f-lab-f	a-cr-ngdp	14.24	-2.50	22.34	-0.32
f-lab-f	a-lei-f	23.17	0.05	-10.74	0.25

Resultados – cont.

PXXP				WFXP			
	subcaregdp	subcarengdp	tfpcaregdp		subcaregdp	subcarengdp	tfpcaregdp
c-agr	0.49	-0.39	0.14	f-lab-m	0.23	-0.26	0.14
c-nagr	0.48	-0.04	0.13	f-lab-f	0.12	8.53	-0.07
c-cr-gdp	0.24	3.14	-6.52	f-cap	0.90	-2.85	0.22
c-cr-ngdp	0.14	6.44	-0.02				
c-lei-m	0.23	-0.26	0.14				
c-lei-f	0.12	8.53	-0.07				

YFGDPXP				TYSCALX			
	subcaregdp	subcarengdp	tfpcaregdp	base	subcaregdp	subcarengdp	tfpcaregdp
f-lab-m	1.57	-3.30	0.15	1	1.093841431	2.055819119	0.979615692
f-lab-f	3.61	-2.79	-0.09				
f-cap	0.90	-2.85	0.22				