# Universal EITC as a Participation Income: Financial Feasibility and Its Expected Effects in Korea

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#### Research Questions

- universal earned income tax credit(EITC):
  - proposed by Leff(2020) and Burman(2020) as a UBI-like EITC
  - an individual-based EITC for every working person

- The case for universal EITC?
- The case for universal EITC for Korea, in particular?
- Financial feasibility of universal EITC in Korea?
- Expected effects of universal EITC in Korea?

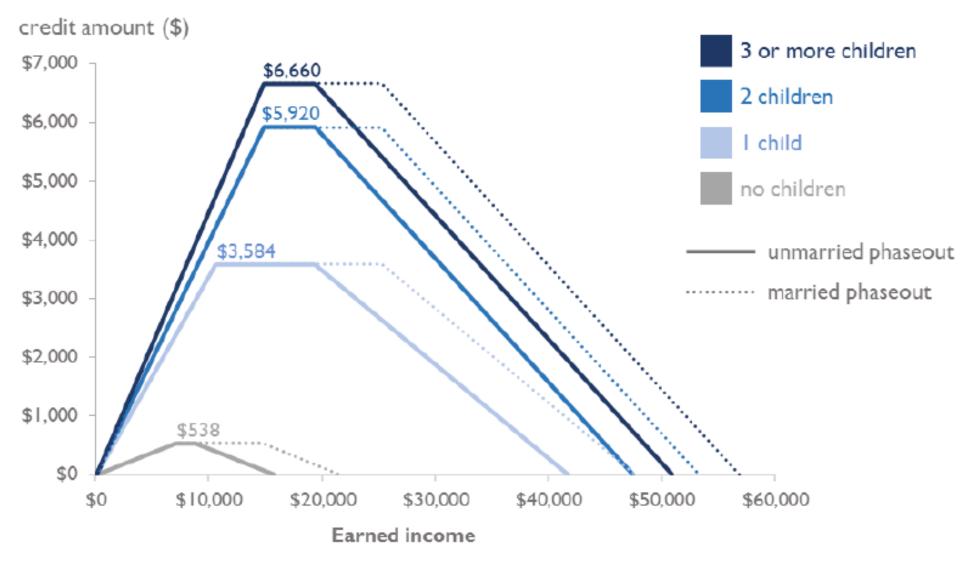
#### Earned Income Tax Credit

- a refundable tax credit for low-income working families with children
- first introduced in 1975 in the U. S. as a "work bonus" plan, as opposed to negative income tax that provides largest benefits to those without earnings
- phase-in, plateau, and phase-out
- today, the largest anti-poverty program of the US federal government
- Many countries in Europe, Canada, and Korea introduced a similar program.
  - Hailed as a way of helping the working poor without stigma and without work disincentives

#### Effects of EITC

- Most studies confirm some work incentives in the phase-in region, but some studies find minor work disincentives in the phase-out region
- Benefits are shared by employees and employers (Microeconomics 101):
  - Downward pressures on wage
  - Encourage small businesses to hire more
- Overall, significant effect on reducing poverty
- However, very complicated and hard to understand
- Marriage penalty

#### EITC Amount by Number of Qualifying Children, Marital Status, and Income, 2020



Source: CRS(2021), The Earned Income Tax Credit (EITC): How It Works and Who Receives It

#### General case for universal EITC

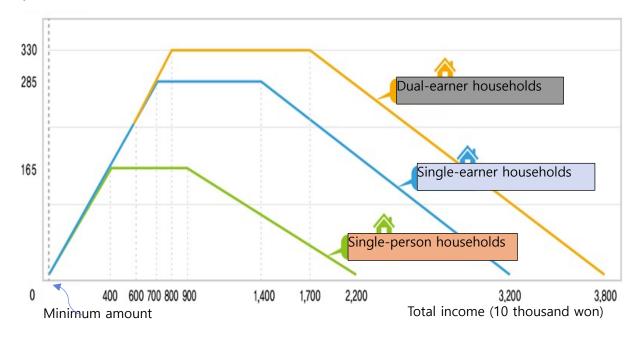
- on an individual basis: removing marriage penalty
- Universal: removing phaseout of the benefit
- monthly or quarterly payment: instead of annual payment
- as a way of combining the merits of both EITC(work incentives) and universal basic income(universality and absence of stigma).
- Difficulty: Expensive unless the maximum level of benefit is kept low.
- Unfair(?): Why should the government give benefits to the rich?

#### EITC in Korea

- Introduced in 2008 and expanded substantially in 2019
- Child tax credit(CTC) was introduced in 2015.
- Still low levels of benefits, low take-up: Need for more expansion
- Complicated and difficult to understand: Need to simplify

## EITC Payments according to household type

#### Payment (10 thousand won)



#### **Asset criteria:**

Household assets < 200 million KRW

Benefit reduced by half, for assets
between 140 and 200 million won

-Marriage penalty
If two persons with 100 million KRW get
married, they lose benefits

Household size: Not considered
-Higher benefit per person for smaller
size of household

# Low awareness, too rigid asset test, and low take-up of EITC

Income decile	Post-tax income	% Recipients	Avg. amount
1	971,760	0.0%	335,995
2	3,594,058	5.7%	1,016,061
3	7,062,754	19.9%	1,412,324
4	12,343,134	29.5%	1,352,511
5	18,576,989	37.6%	986,936
6	23,625,175	19.3%	953,886
7	29,381,094	20.2%	388,893
8	37,568,633	0.73%	1,135,250
9	50,919,537	0.12%	607,273
10	100,944,726	0.02%	948,000
Total	28,493,477	0.0%	1,064,806

Income decile	Earned income	% recipients	Avg. benefit
1	1,163	8.5%	806
2	4,640	14.5%	1,216
3	9,890	15.6%	1,645
4	15,316	18.2%	1,411
5	20,665	15.2%	1,067
6	25,636	15.5%	827
7	32,858	11.1%	971
8	43,091	9.4%	959
9	59,039	5.0%	993
10	107,313	2.6%	818
Total	31,874	11.6%	1,144

Source: National Tax Service (2022)

Source: Survey of Household Finances and Living Conditions

#### Percentage of recipients and the amount of in-work benefits by income decile, among the working-age population (2017)

Income decile	Recipients of unemployment benefits	Average amount of unemployment benefits	Recipients of maternity protection benefits	Average amount of maternity benefits	Recipients of the EITC	Average amount of EITC benefits
	(%)	(thousand won)	(%)	(thousand won)	(%)	(thousand won)
1, 2	1.16	5,048	0.13	5,006	2.21	918
3	3.33	5,348	0.39	5,782	28.1	763
4	7.7	5,043	0.66	5,323	29.97	1151
5	9.15	4,377	0.95	4,572	24.44	772
6	8.35	4,014	1.2	4,707	14.46	481
7	7.46	3,902	1.6	4,483	4.99	547
8	6.42	3,834	1.7	4,401	2.16	595
9	4.8	3,744	1,53	4,340	0.88	594
10	2.77	3,740	1.27	3,983	0.21	562
Total	5.58	4,225	1.06	4,506	10.59	821

Employment insurance: Low coverage of precarious workers (the precariat)

-Unemployment benefits and maternity protection allowances(postpartum leave and parental leave benefits) provided through employment insurance have higher recipient rates among the middle-income and upper-income groups than among the low-income groups.

EITC payments: Higher percentage of recipients among low and middle-income.

-But the amount of payment is small.

#### The case for universal EITC, particularly for Korea

- Employee income deduction & tax credit as hidden welfare in Korea
  - Employee income deduction is very regressive and much larger than EITC
    - Tax expenditures for the rich are much greater than those for the working poor.
  - Proposals to replace employee income deduction with universal basic income (Kang 2019; You, 2018):
    - Resistance from the working people
  - Replacing employee income deduction with universal EITC will be more acceptable.
- Large blind spots in social insurances
  - Low coverage of National Pension and Employment Insurance among the working poor
  - Universal EITC may help low-income earners to pay social insurance contributions. (social insurance contributions=about 10% of employee income, or 20% of self-employed income)

#### Income deductions and tax credits

- The same amount of income deduction provides higher benefits to higher-income people.
  - 1 million won deduction for a person of 10 million won income:
    - reduced tax=1 million \* 6% = 60,000 won
  - 1 million won deduction for a person of 1 billion won income:
    - reduced tax=1 million \* 45%= 450,000 won
- Employee income deduction:
  - The amount of deduction is higher for higher employee income.
  - The amount of reduced tax is much higher for higher employee income.
- Employee income deduction is very large in Korea.
  - Large in Korea and Japan, compared to other countries.

#### Average benefits from employee income deduction & tax credit, and EITC, by income bracket

Employee income (year-end settlement)		Employee income deduction (A)	Reduced tax due to A (B)	Employee income tax credit (C)	B+C	EITC payment (D)	B+C+D
Total wages &	# of	Average	Average	Average	Average	Average	Average
salaries (won)	individuals	(won)	(won)	(won)	(won)	(won)	(won)
Total (average)	19,074,871	9,371	1,470	377	1,848	105	1,952
Up to 10 million	2,890,704	3,045	183	16	199	231	430
Up to 15 million	1,431,264	6,518	397	109	505	332	838
Up to 20 million	1,551,944	7,889	655	194	849	191	1,040
Up to 30 million	4,331,915	8,927	1,143	344	1,487	62	1,549
Up to 40 million	2,611,774	10,451	1,546	581	2,128	8	2,136
Up to 45 million	949,555	11,614	1,739	627	2,366	0	2,366
Up to 50 million	795,809	12,122	1,817	640	2,458	0	2,458
Up to 60 million	1,220,521	12,487	1,873	652	2,525	0	2,525
Up to 80 million	1,575,979	13,210	2,666	589	3,255	0	3,255
Up to 100 million	863,500	14,179	3,393	500	3,893	0	3,893
Up to 200 million	754,109	15,265	4,741	499	5,240	0	5,240
Up to 300 million	60,188	17,181	7,030	490	7,520	0	7,520
Up to 500 million	25,362	19,686	9,096	487	9,583	0	9,583
Up to 1 billion	9,393	25,309	13,509	487	13,995	0	13,995
Over 1 billion	2,854	49,927	24,592	495	25,087	0	25,087
Sum(billion)		178,746	28,045	7,196	35,241	1,998	37,239

Source: NTS(2020), National Tax Statistics Yearbook(Tables 4-2-4 and 14-3-6)

Total benefits from employee income deduction(28 trillion won) and employee income tax credit(7.2 trillion won) are much larger than total amount of EITC (2 trillion won) for the employees.

• EITC given to the self-employed =about 2.5 trillion won

Universal EITC of 10% of earned income and 2.4 million won for earned income of 24 million won or more

- 72% of employees with earned income of 46 million won or less will be better off.
- 28% of high-income earners will be worse off.
- Progressive reform that can be acceptable by the majority of working people.

### Our proposal

- Replace employee income deduction & tax credits with universal EITC on an individual basis.
- Fiscally neutral
- [Phase-in] 10% of earned income, which can cover social insurance contributions for employees.
- [Plateau] 2.4 million KRW, for earned income>=24 million KRW (average personal income in 2021)
- [No phase-out]: High earned income gets 2.4 million KRW, but loses employee income deduction.
- Existing EITC could be incorporated into the universal EITC, or maintained as a supplementary tool to alleviate in-work poverty.

#### Distributional effect of universal EITC (Survey data)

1)replacing employee income deduction and employee income tax credit 2)replacing current EITC as well as employee income deduction/tax credit

Decile	Earned income	Reduced tax due to employee deduction	Exisiting EITC Benefits	Reduced tax + EITC	Univeral EITC	Net gain(1)	% winner(1)	Net gain(2)	% winner(2)
1	1,163	33	68	101	116	84	99.3%	16	91.1%
2	4,640	143	177	320	464	321	99.0%	144	86.0%
3	9,890	328	256	584	989	661	99.5%	405	86.9%
4	15,316	599	257	856	1,532	933	99.4%	676	86.8%
5	20,665	1,153	162	1,315	2,064	911	99.7%	749	91.5%
6	25,636	1,571	128	1,700	2,256	685	95.4%	556	87.8%
7	32,858	1,743	108	1,850	2,256	513	35.4%	406	34.1%
8	43,091	1,994	90	2,084	2,256	262	25.8%	173	24.9%
9	59,039	2,595	49	2,644	2,256	-339	22.7%	-388	22.4%
10	107,313	4,073	21	4,094	2,256	-1,817	17.6%	-1,838	17.5%
Total	31,874	1,417	132	1,549	1,637	220	69.4%	88	62.9%
Sum(trillio n won)	967.8	43.0	4.0	47.0	49.7	6.7		2.7	

(unit: thousand won, %)

Using data from the Survey of Household Finances & Living Conditions

# Distributional effect of universal EITC, replacing current EITC as well as employee income deduction and tax credit (Tax data)

Decile	Post-tax incom	Reduced tax due to employee deduction	Existing EITC	Reduced tax + EITC	Universal EITC	Average gain	% winner
1	971760	8644	57694	66338	94408	28070	81.8%
2	3594058	30094	281142	311236	329062	17826	69.6%
3	7062754	98378	399607	497985	657993	160008	69.2%
4	12343134	263636	370965	634601	1193702	559101	76.9%
5	18576989	694306	184218	878524	1880483	1001959	91.5%
6	23625175	1204435	78747	1283182	2198560	915378	95.6%
7	29381094	1644141	8325	1652466	2209042	556576	82.1%
8	37568633	1967493	754	1968247	2216072	247825	32.3%
9	50919537	2350807	222	2351029	2221207	-129822	16.5%
10	100944726	4017012	79	4017091	2211391	-1805700	12.1%
Total	28493477	1227685	138138	1365823	1520947	155124	62.8%

(Unit: thousand won, %)

Using the National Tax Service's 2% random sample micro data on personal income taxes for year 2020

### Labor supply effect

- The effect of replacing employee income deductions, credits and EITC with universal EITC on labor market participation
  - Controls: Age, sex, education, household size
  - Dependent variable: Employed or not
  - Logistic quantile regression: Whether probability of working increases or not for each income decile
  - Due to limitation of available data, we did not examine the labor supply effect at the intensive margin (work more or less) and focused on the extensive margin (work or not).

# **Estimated Labor Supply Effect**

Decile	increasing	No change	Decreasing
1	1.42	98.58	0
2	39.59	60.35	0.06
3	87.5	11.16	1.34
4	95.03	1.88	3.09
5	96.3	0.58	3.12
6	83.64	0.16	16.2
7	20.75	0.47	78.78
8	24.4	0.13	75.47
9	13.86	0.59	85.55
10	14.83	0.36	84.82
Total	47.65	17.53	34.82

Unit: %

Individuals with no earned income are not affected. (mainly, retirees)

### A Participation Income?

- Transforming the current in-work benefits more like a UBI
  - We originally proposed replacing the regressive employee income deductions with a UBI.
    - resistance from the workers
- A form of participation income:
  - Eligibility is conditional on participation in labor force
  - Is this discrimination on those excluded?
  - What about non-paid work?
- Two answers:
- This is a reform of existing in-work benefits in the direction of UBI
  - Considering that unearned income (capital income and capital gains) tend to be taxed less than earned income, we should not abolish but increase in-work benefits
  - Reform of a rent-seeking economy
- Supplementary benefits for participation in non-paid work could be introduced.
  - Universal EITC at the national level, and supplementary programs at the local level

# Questions & Comments, welcome!

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