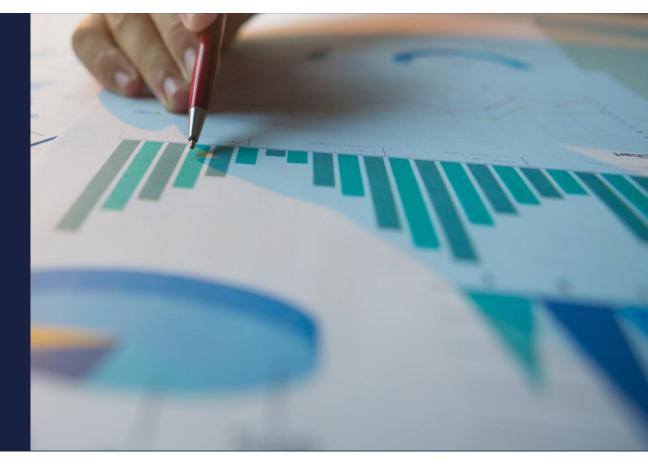


The distributional impact of budgetary choices in Ireland

Karina Doorley

7th Annual Meeting of the OECD Gender Budgeting Network

14th June 2023



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1. The ESRI and the SWITCH model

- 2. Distributional Impact Analysis at the ESRI
- 3. Incorporating gender and disability
- 4. Discussion



The ESRI

- Established in 1960 as the Economic Research Institute
- Mission: To produce economic and social research that informs public policymaking and civil society
- Over 100 staff over 12 research areas (Labour; Taxation; Health; Energy; Education...)
- 1/4 of funding from Grant-in-Aid and the rest from research projects, competitive funding.



The ESRI

The SWITCH microsimulation model was developed at the ESRI in the late 1980s

It models direct tax and welfare, many non-cash benefits and indirect taxes (via a sister model, ITSIM)

- Distributional impact of general government expenditure not captured
- Static model although a labour supply add-on has been developed for in-house use.



The ESRI

- Access granted to government departments based on a funding agreement.
 - ESRI team provides training, delivers an annual research and model development work program and helps with adhoc modelling requests
- It has been used for in-house and governmental DIA for over thirty years
- Currently it is used by five government departments (DSP, DoF, DPER, DCEIDY, DoH) and the PBO



The SWITCH model

- Based on the EUROMOD platform
- Linked to the 2019 SILC Research Microdata File which contains administrative information on 'current' income and welfare.
- 'Current' income is too out of date for policy making
 - Reweighted to be representative of the 2019 population
 - Uprated to account for income and price growth



The SWITCH model

- The SILC RMF is subject to Statistical Disclosure Controls (SDC) by the Irish Central Statistics Office
 - Typically results would need to be reviewed by a statistician before release
- The ESRI team added an automatic SDC filter to the SWITCH model.
 - CSO allows users to extract their results without review by a statistician.
 - Helps with secrecy and time sensitivity of budget negotiations



Equality budgeting using microsimulation

- Microsimulation is invaluable for equality budgeting
 - effect of direct tax and welfare policy reform by income group, household type, gender, disability status...etc.
- But, estimating policy effects by gender is complicated as
 - family members pool some of their income
 - Joint taxation is hard to assign individually
 - Some welfare payments are household level
- We focus on tax-unit level income and
 - Assume it is split equally between partners or
 - Assigned to the physical recipient
 - Automated gender impact results produced by SWITCH based on full income sharing assumption



Estimating policy effects along additional equality criteria is complicated by data availability and other considerations

- Disability status only available for those > 16 years old in EU-SILC
- Should family members of those affected by disability also be considered "affected"?
- Automated "impact by disability status" function will be launched with the next SWITCH release

DIA at the ESRI







DIA at the ESRI

Post-budget analysis presented three days after budget announcement

Recently, many ad-hoc DIA's for the cost-of living packages, pandemic supports...

More structured work, in agreement with the steering group, on particular tax and welfare instruments

• e.g. Budget Perspectives conference tomorrow will discuss who benefits from childcare subsidies



Budget 2023 – main measures analysed using SWITCH and ITSIM

Income tax

Bands/credits increased for workers; 2nd USC band extended, rent tax credit

Welfare

Personal rate of benefits increased €12 with proportional increases for qualified adults. QCI up €2; Working Families Payment increase; Fuel Allowance threshold and means assessment changed; earnings disregard for DA

One-off policies

Energy credit, extension of excise reduction and 9% VAT rate

Non-cash benefits

Universal Childcare Subsidy increase of 90c per hour; GP visit cards extended to those on or below median income. Free school books for primary level.

Indirect tax

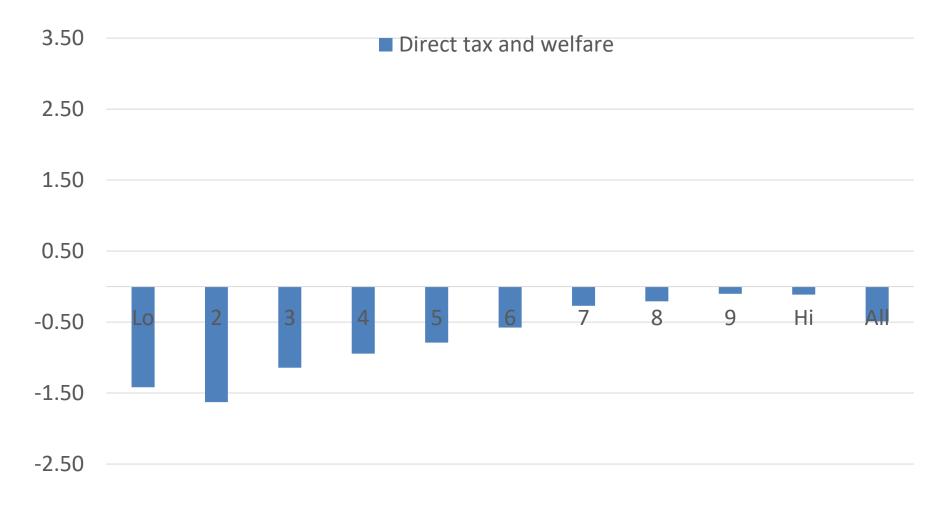
Tobacco excise + 50c; carbon tax + 7.50/tonne – offset by NORA levy; VAT cut on newspapers



Permanent tax & welfare changes in 2023 won't keep up with forecast inflation

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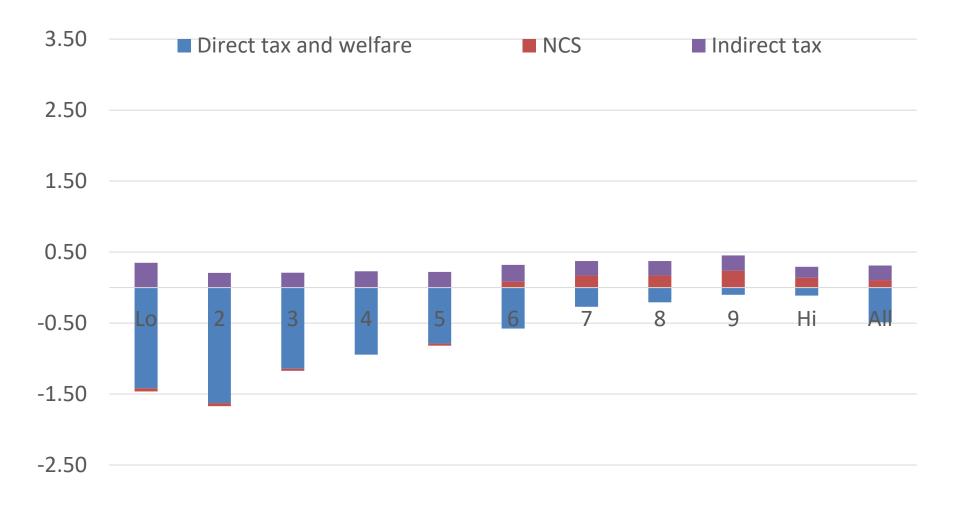
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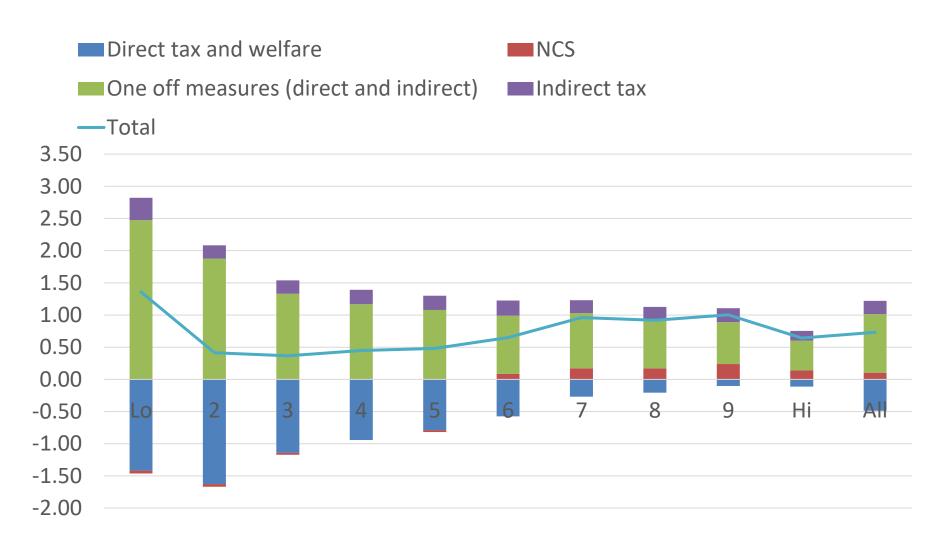


Indirect tax changes and childcare subsidy reform reduce income losses





...as do one-off policies for 2023

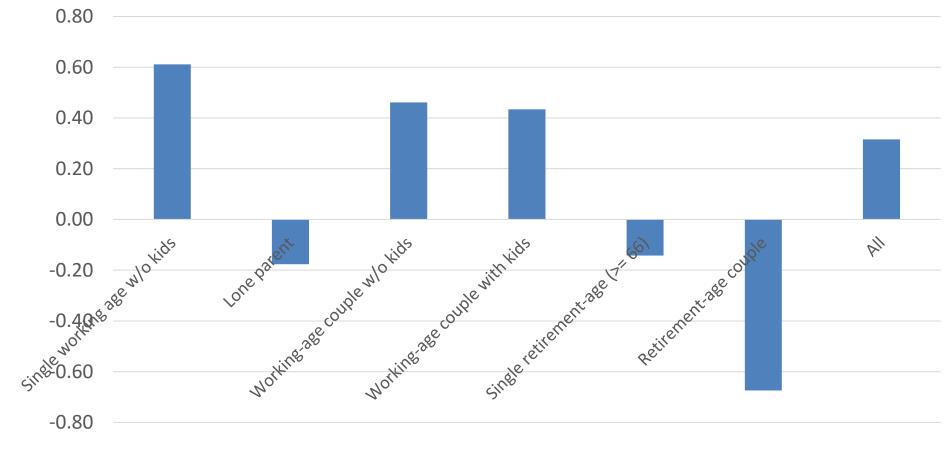


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Lone parents and pensioners slightly worse off in 2023, compared to price adjusted 2022 policies

■ % change in disposable income

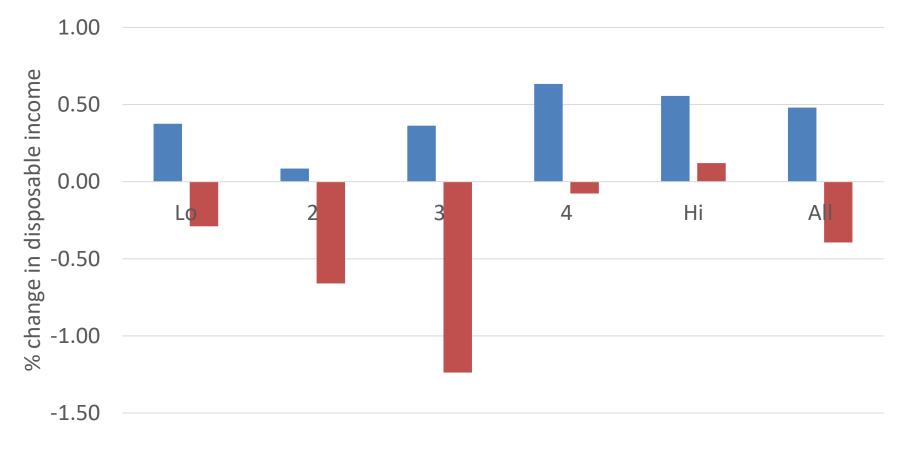


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Non-earning households are also slightly worse off in 2023, compared to priceadjusted policies

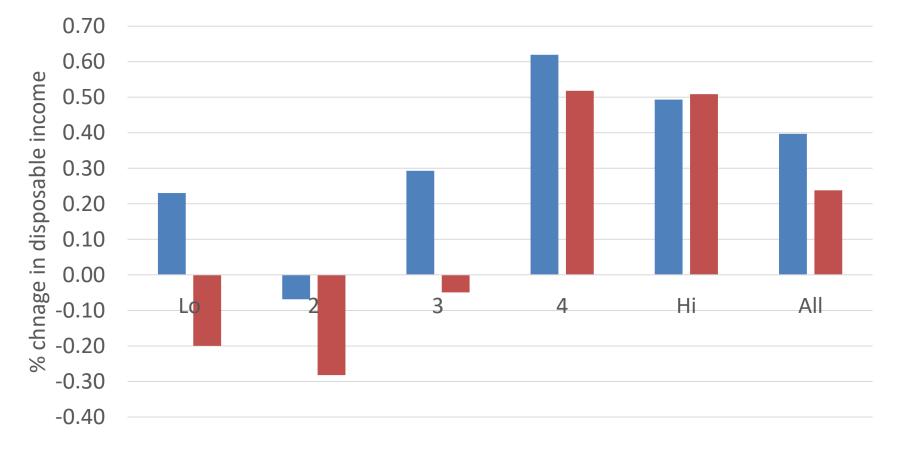
Earning Non-earning





Policy changes for 2023 benefit men slightly more than women, compared to price adjusted policies

Men Women



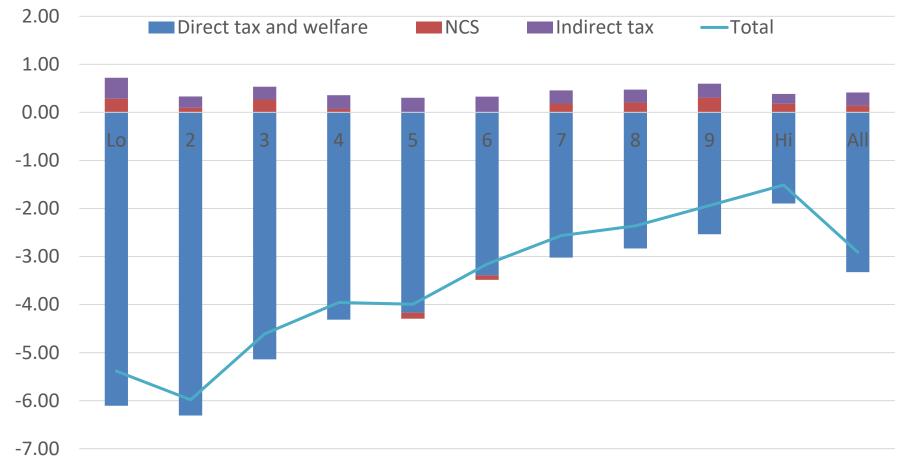
How might this picture change if one-off policies are not repeated?



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Without the one-off measures, Budget 23 changes result in large regressive income losses compared to price-indexed 2020 policies



More in-depth analyses by gender/disability



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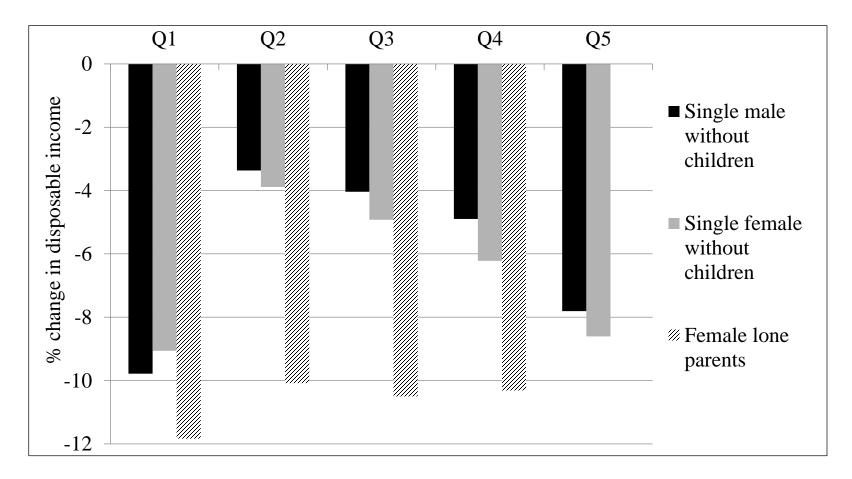
Measuring gender impacts of changes to tax-benefit policy 2008-2018

Main policy changes 2008-2018

- Income tax
 - standard rate band =
 - higher rate of tax \downarrow
 - threshold for higher rate of tax \downarrow
 - tax credits \downarrow
- Social insurance contributions ↑
- Welfare payments ↓ in austerity period and ↑ in recovery period but failed to keep pace with inflation



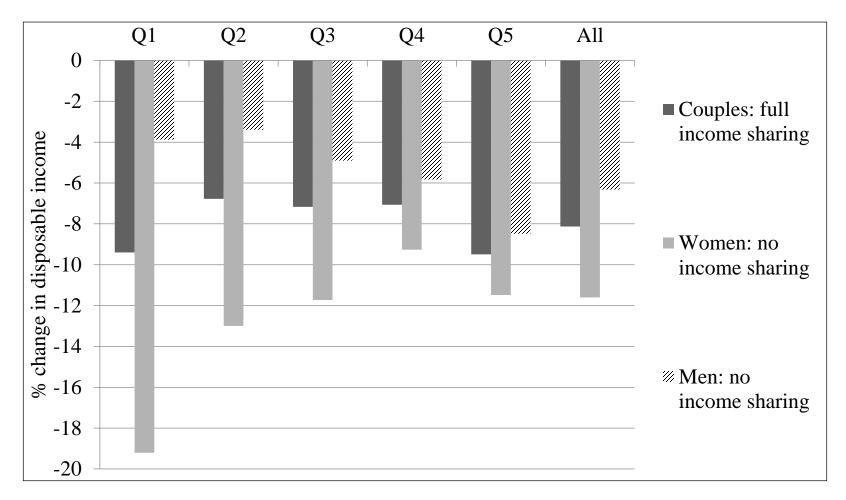
Measuring gender impacts of changes to tax-benefit policy 2008-18: singles



Doorley, Karina & Bercholz, Maxime & Callan, Tim & Keane, Claire & Walsh, John R., 2018. "<u>The gender impact of</u> <u>Irish budgetary policy 2008-2018</u>," <u>Research Series</u>, Economic and Social Research Institute (ESRI), number BKMNEXT367. @ESRIDublin #ESRIevents #ESRIpublications **www.esri.ie**



Measuring gender impacts of changes to tax-benefit policy 2008-18: couples



Doorley, Karina & Bercholz, Maxime & Callan, Tim & Keane, Claire & Walsh, John R., 2018. "The gender impact of Irish budgetary policy 2008-2018," Research Series, Economic and Social Research Institute (ESRI), number BKMNEXT367. www.esri.ie

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Measuring gender impacts of changes to tax-benefit policy

- Between 2008-2018, differential impacts of budgetary policy by gender
 - (Female) lone parents lost out by more than other singles due to child benefit reductions
 - Differential impact of tax-benefit policy reforms is concentrated in the lower half of the income distribution.
- Most of the gender difference in income losses occurred during the austerity period. Recovery budgets were more "gender neutral".
- Budgets in the intervening years have not compensated for the higher systematic losses by women during the recession.



Equality budgeting - disability

- Relatively low attachment of people with disabilities in Ireland to the labour force
 - Social welfare system critical to their standard of living
- Equality budgeting introduced in 2017 in Ireland, with gender as a primary axis of equality.
- Scope extended in 2018 to additional dimensions including poverty, socioeconomic inequality and disability.



Disposable income of households not affected by disability fell due to tax and welfare policy

Tax and welfare effects for households not affected by disability 2007-2019 2% 2 3 5 6 1 4 -3% -8% -13% -18%

Benefit policy changes
Tax policy changes

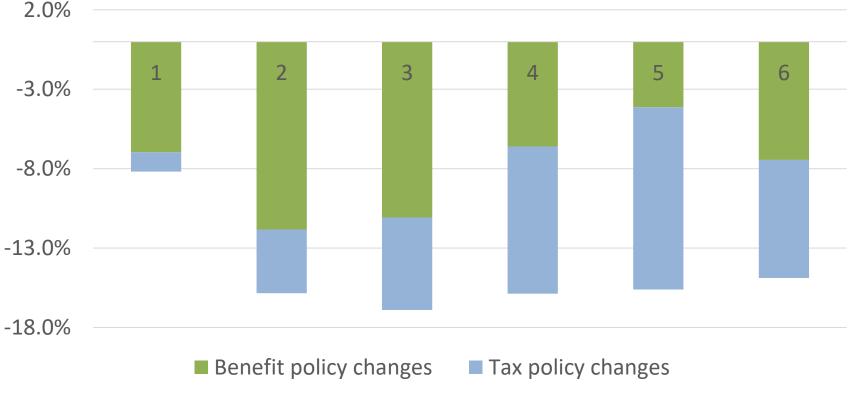
Doorley, Karina & Regan, Mark, 2022. "<u>BP1: The impact of Irish budgetary policy by disability status</u>," <u>Papers</u> BP2023/1, Economic and Social Research Institute (ESRI)

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Households affected by disability were more negatively affected by welfare policy

Tax and welfare effects for households affected by disability 2007-2019



Doorley, Karina & Regan, Mark, 2022. "<u>BP1: The impact of Irish budgetary policy by disability status</u>," <u>Papers</u> BP2023/1, Economic and Social Research Institute (ESRI) ESRIDUBLIN #ESRIevents #ESRIpublications | **www.esri.ie**

Discussion







Discussion

- Strong history of DIA at the ESRI and, more generally, in Ireland
- Challenges of robust DIA are amplified for equality budgeting – need for high quality data on dimensions of equality

Appendix





Difficulties in defining disability

- Medical model: classifies individuals with disabilities as having an impairment which precludes them from mainstream social activities
- Social model: societal barriers as a limiting factor rather than the medical diagnosis
- Definition for equality budgeting exercise carried out by Doorley & Regan (2022), based on available data
 - 1. Based on labour force status- "Disabled or/and unfit to work"
 - 2. In receipt of disability-related social welfare payments
 - Disability Allowance, Invalidity Pension or Illness Benefit
- Better measurement of working-age disability

