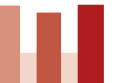




Inštitut za ekonomska raziskovanja
Institute for Economic Research

SLOMOD: USING EUROMOD WITH ADMINISTRATIVE DATA FOR SLOVENIA

EUROMOD Annual Meeting, Sevilla, September 2023
Barbara Kalar & Nataša Kump



SLOmod

- Developed as part of the operation: Upgrading analytical models in the field of the pension system (3 MSM: pensions, labour market, and tax-benefit) funded by the Ministry of Labour, Family, Social Affairs and Equal Opportunities, ended in March 2023
- Data from the Statistical Office SI (remote access to their secure room)
- Based on combining information from more than 25 administrative data sources (14 datasets from Social Work Centres on social transfers and assets)
- All data for 2017



SLOmod



EUROMOD

A wide range of administrative data

Data

EU-SILC & national SILC

2017

Year

Demographics 2018 &
2017 income data

171,785 households (HH)
388,908 individuals (18.8 %)

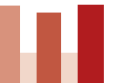
Sample size

8,669 households (HH)
25,813 individuals (1.3 %)

+ monthly employment incomes
+ assets

+ improving existing policies
+ introducing new policies:
> scholarship
> subsidised school meals
> childcare subsidy for pre-school childcare
> housing benefit
> funeral costs refund
> death benefit

- different values of the same data
- assets only for social rights' applicants &
social worker's discretion right
- household/family structure



SLOmod

Vs

EUROMOD

A wide range of administrative data

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EU-SILC & national SILC

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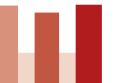
+ improving existing policies
+ introducing new policies

- different values of the same data
- assets only for social rights' applicants &
social worker's discretion right
- **household/family structure**

- 
- **Demographic data on HH and relationships are verified using the questionnaire on living conditions (SILC).**
 - **Only private HH and the persons living in them are covered** (persons living in collective HH (e.g. retirement homes for elderly, social welfare institutions, dorms, prisons, monasteries)) are not included in the survey).



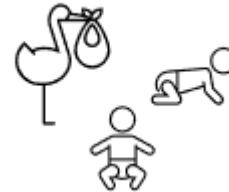
- **Demographic data on HH and relationships obtained from the register-based census of population.**
- **Both private and collective or special HH are covered** (persons under 26 in collective/special HH are moved to HH and families of parents, and the remaining persons in collective/special HH are treated as one-person HH or family).



HH structure - children

Infants and children aged 16 and under living without mother

SLOmod input database – administrative data



9.2 %



8.5 %

*SLOmod input database – administrative data
→ HH structure corrections/adjustments*

2.7 %

3.6 %

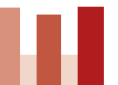
EUROMOD input database – SILC data



0.5 %

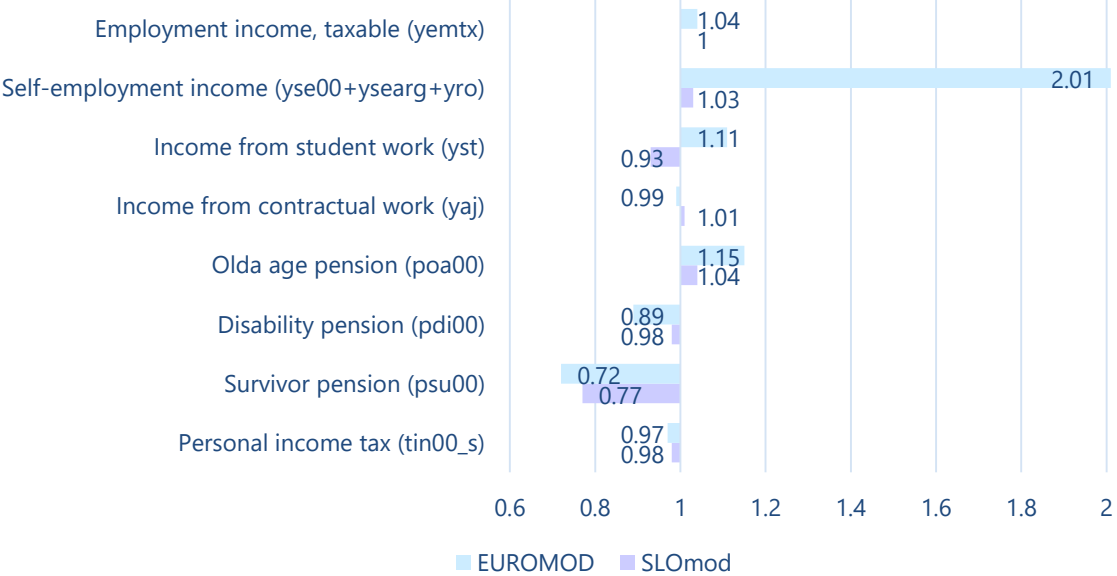


2.1 %

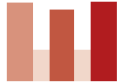
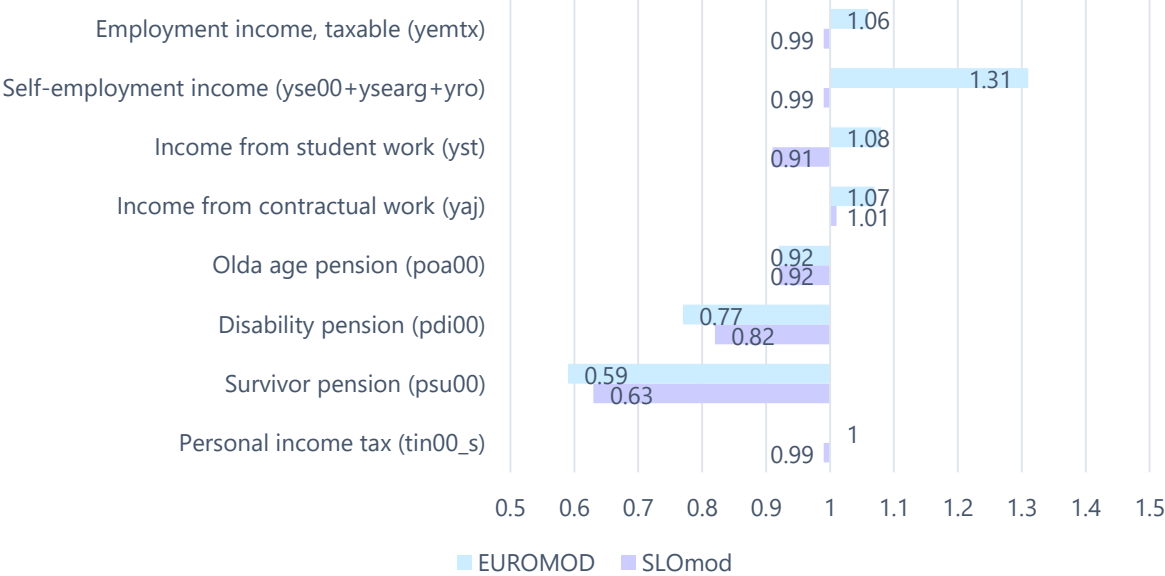


SLOmod vs EUROMOD: Incomes & Personal Income Tax compared to external data

Annual amounts
(Base/Ext ratio)



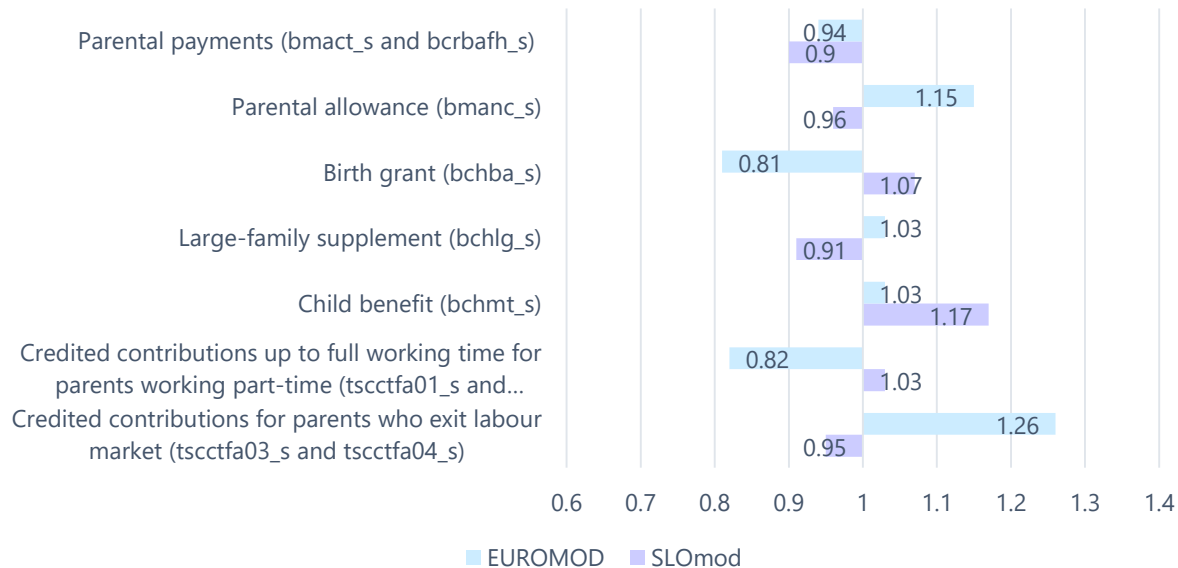
No. of recipients/payers
(Base/Ext ratio)



SLOmod vs EUROMOD: Parental & Family Benefits compared to external data

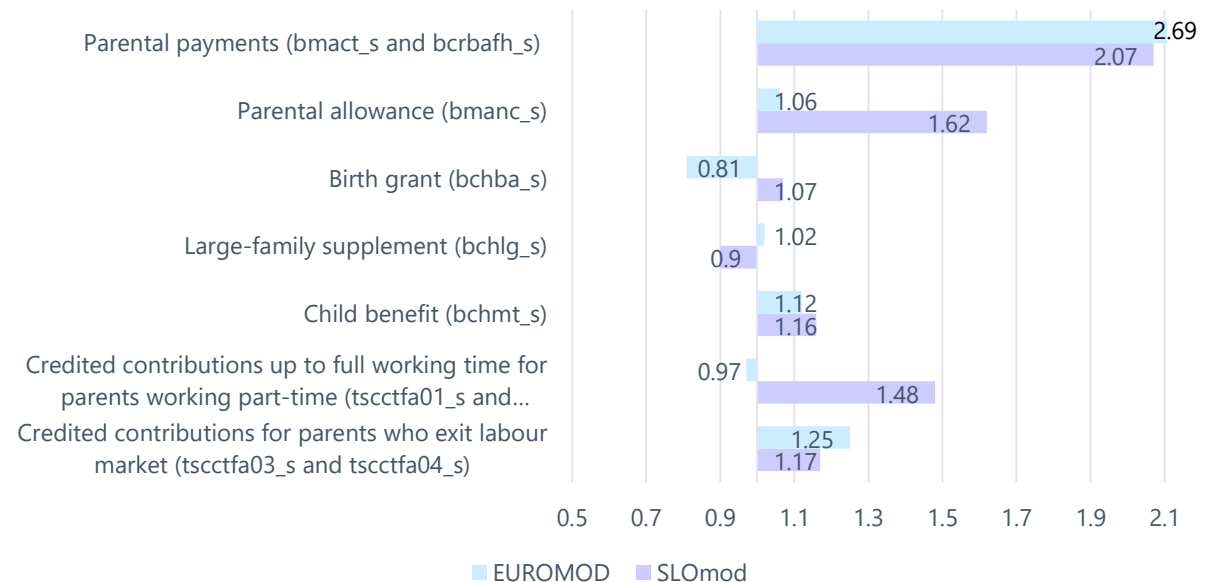
Annual amounts

(Base/Ext ratio)



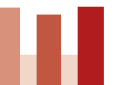
No. of recipients

(Base/Ext ratio)



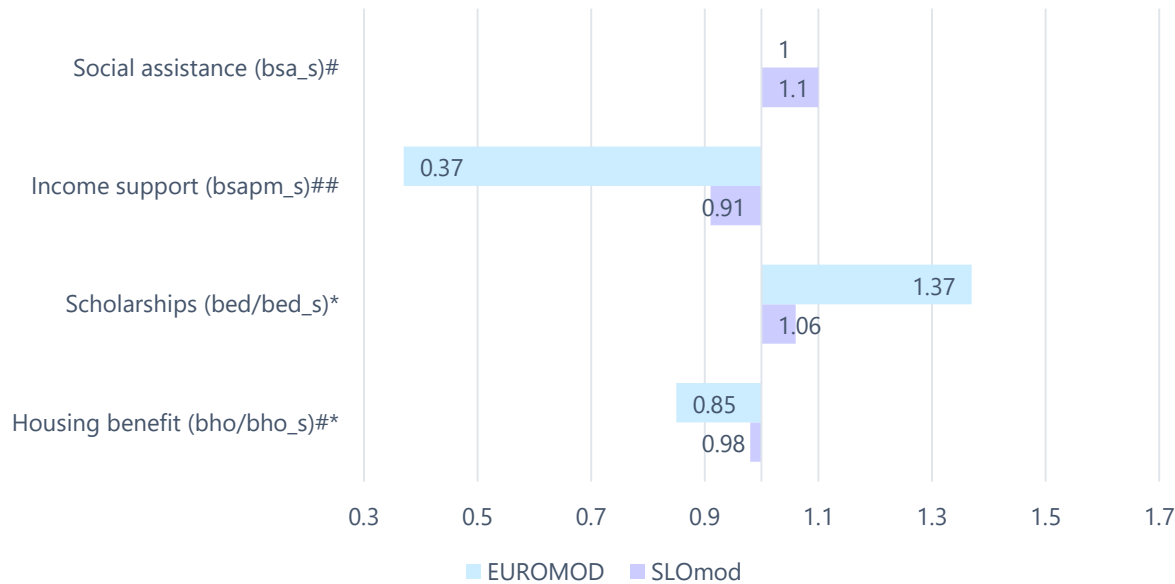
! Parental payment not specified by type of payment in the microdata.

! External data indicate the average monthly number of recipients in 2017 (except in the case of bchba and bchlg).

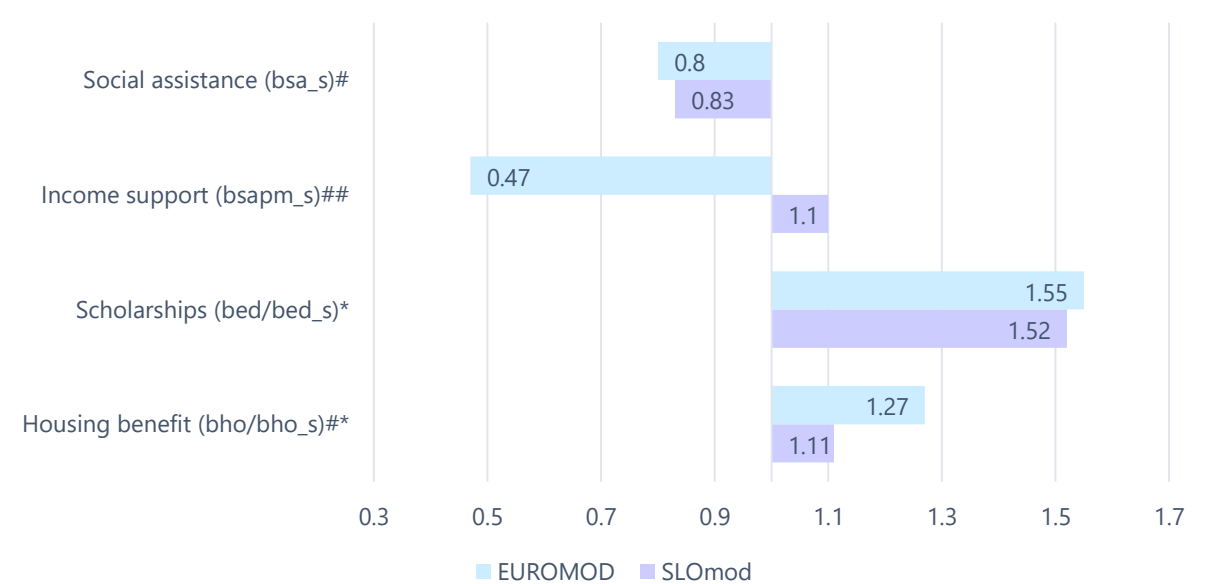


SLOmod vs EUROMOD: Social Benefits compared to external data

Annual amounts
(Base/Ext ratio)

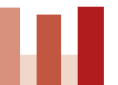


No. of recipients
(Base/Ext ratio)



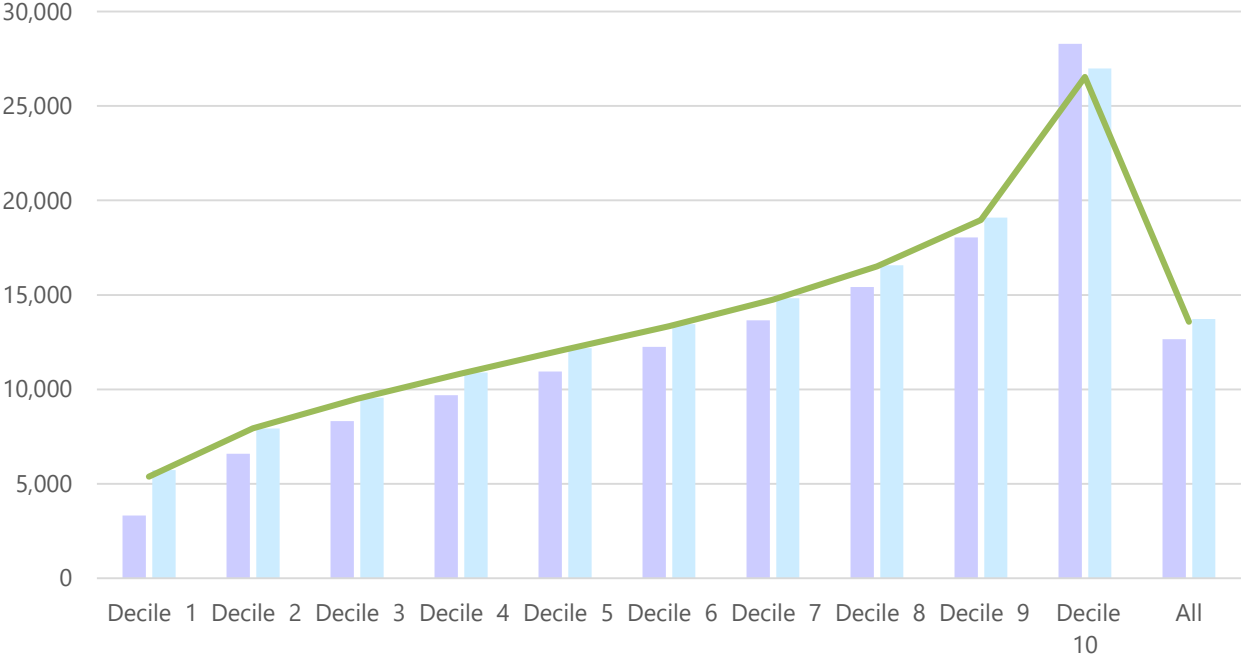
#Benefit take-up adjustment.
*Non-simulated policy in EUROMOD.

! External data indicate the average monthly number of recipients in 2017.



SLOmod vs EUROMOD: Disposable income & Poverty

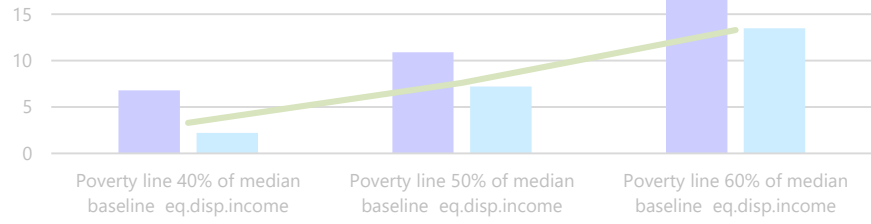
Mean eq. disp. income (EUR, annual, individual)



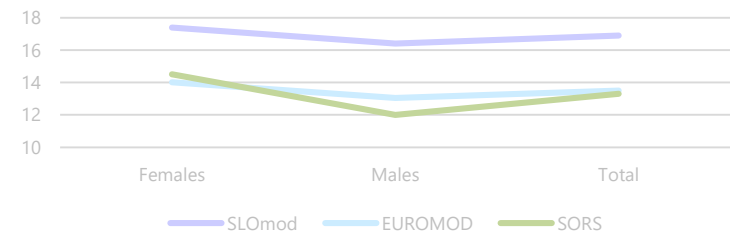
SLOmod EUROMOD SORS

- Transportation and meal allowances
- Some incomes from self-employment
- Private transfers (inter HH)

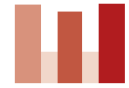
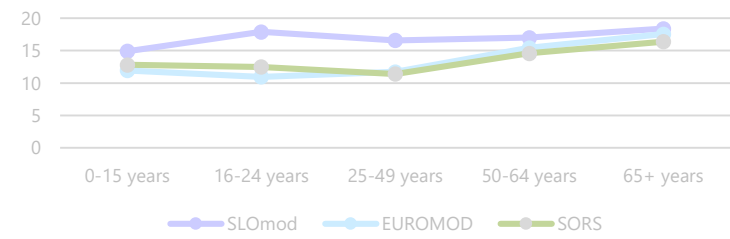
At-risk-of-poverty rates (%)



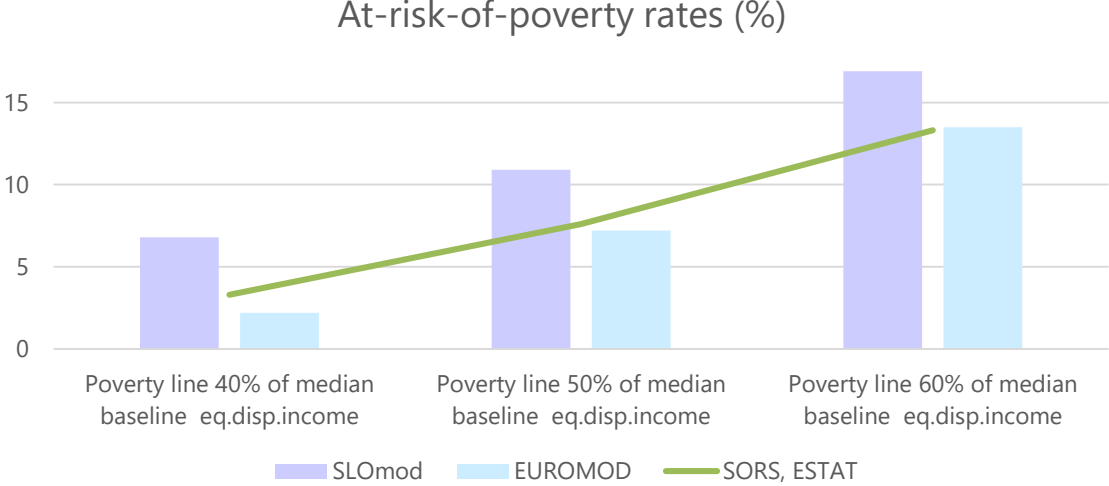
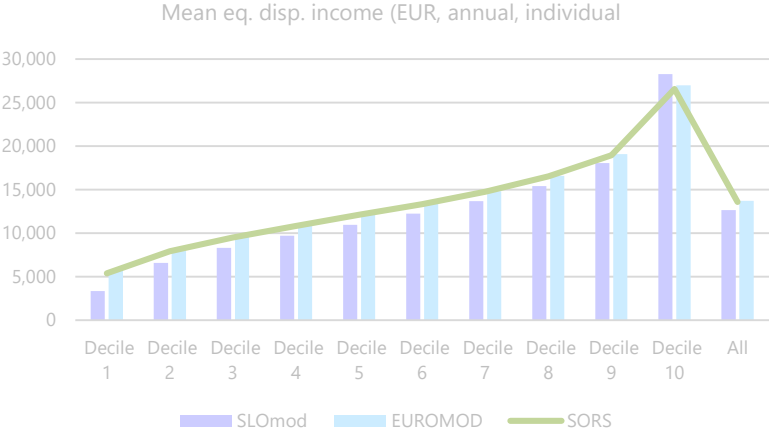
...by gender (%)



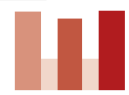
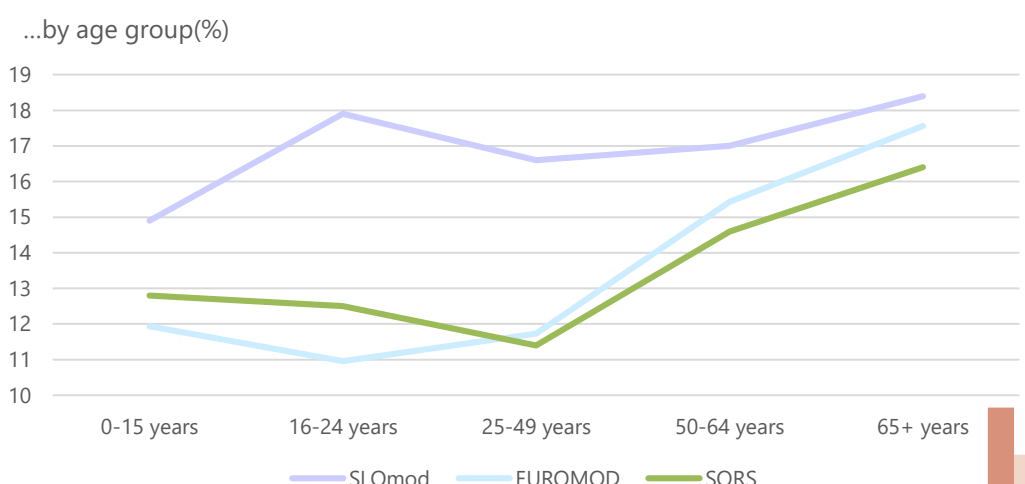
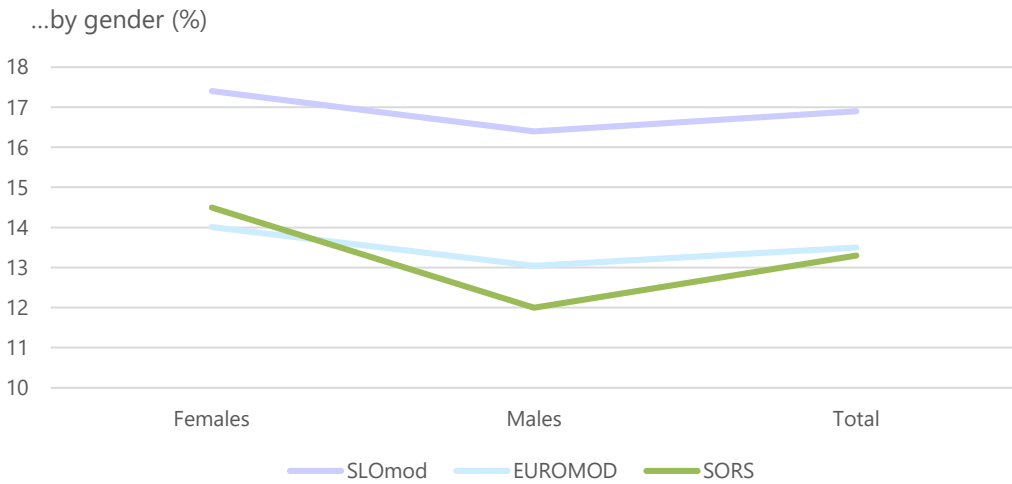
...by age group (%)



SLOmod vs EUROMOD: Disposable income & Poverty

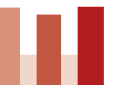


- Transportation and meal allowances
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SLOmod: Advantages, challenges, future plans

- + more and more detailed information
- + assets
- + more detailed and new policies introduced in the model
- data update (EU-SILC – annual)
- HH structure
- lack of some information
- * maintenance and improvement of the model, both at data and model level
- * extension of the model:
 - Labour Market Adjustment Add-on
 - Indirect Tax Tool
- * use of the model





Thank you!

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