Labor Supply and Taxation in Europe

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 Observe differences in Female Labor Force Participation (FLFP) across countries

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- How different is the marginal tax rate of the "second" earner?

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- In most countries, the unit of taxation is the couple or the individual. France is an exception
- Family tax splitting means that income is divided between all family members
- Common view is that male LFP is relatively inelastic, but FLFP is not
- Gender wage gap and who married whom may matter for labor supply

• Use EU-SILC 2007

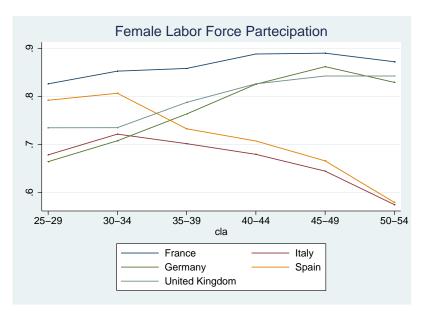
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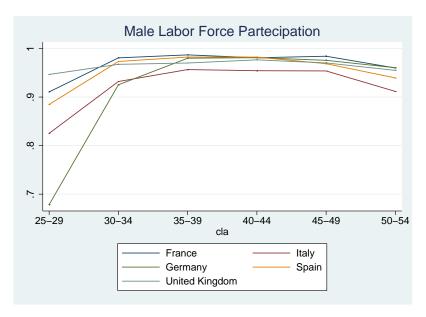
- Use EU-SILC 2007
- Compute the marginal tax of the "second" earner
- Simulate using different tax systems
- Compare marginal taxes, labor force participation in simulated economies

OVERVIEW OF DATA

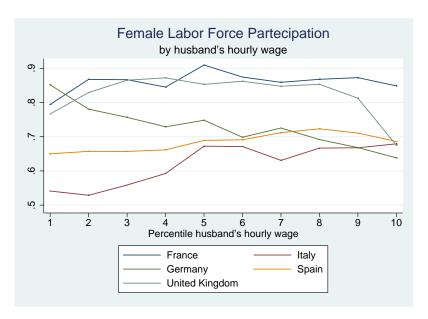
Female Labor Force Participation by Age



MALE LABOR FORCE PARTICIPATION BY AGE



Female Labor Force Participation by Husband's Wage



LABOR FORCE PARTICIPATION 25-55

| Country | Men | Women |
|---------|-----------|-------|
| France | 0.97 0.87 | |
| Italy | 0.93 | 0.67 |
| Spain | 0.96 | 0.71 |
| Germany | 0.94 | 0.80 |
| UK | 0.97 | 0.80 |

Female Labor Force Participation 25-55

| | | Without children | | | With Children | | | |
|---------|--------|------------------|---------|-----------|---------------|--------------|---------|-----------|
| Country | Single | Living | Married | Divorced | Single | Living | Married | Divorced |
| | | with partner | | Separated | | with partner | | Separated |
| | | | | Widow | | | | Widow |
| France | 0.86 | 0.90 | 0.86 | 0.93 | 0.82 | 0.76 | 0.70 | 0.91 |
| Italy | 0.81 | 0.87 | 0.64 | 0.78 | 0.64 | 0.69 | 0.60 | 0.79 |
| Spain | 0.95 | 0.96 | 0.88 | 0.96 | 0.85 | 0.85 | 0.83 | 0.90 |
| Germany | 0.88 | 0.91 | 0.64 | 0.79 | 0.77 | 0.81 | 0.64 | 0.85 |
| UK | 0.94 | 0.94 | 0.87 | 0 .91 | 0.60 | 0.66 | 0.74 | 0.76 |

FEMALE INCIDENCE OF PART-TIME (WOMEN 25-55)

| Country | Single | Living | Married | Divorced |
|---------|--------|--------------|---------|-----------|
| | | with partner | | Separated |
| | | | | Widow |
| France | 0.16 | 0.26 | 0.38 | 0.23 |
| Italy | 0.15 | 0.24 | 0.27 | 0.19 |
| Spain | 0.15 | 0.18 | 0.24 | 0.16 |
| Germany | 0.30 | 0.26 | 0.67 | 0.49 |
| UK | 0.20 | 0.27 | 0.46 | 0.33 |

HOURLY WAGE

| Country | Men | Women | Gender gap |
|---------|-------|-------|------------|
| France | 14.14 | 11.98 | 15% |
| Italy | 13.29 | 11.70 | 12% |
| Spain | 10.65 | 9.19 | 14% |
| Germany | 19.20 | 14.38 | 25% |
| UK | 22.08 | 16.82 | 24% |

No differences for men

- No differences for men
- Female labor force participation is the lowest in Italy

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- Female labor force participation is the lowest in Italy
- Female labor force participation is the highest in France

- No differences for men
- Female labor force participation is the lowest in Italy
- Female labor force participation is the highest in France
- In Italy, wife's participation rate increases with husband's income

TAX SYSTEMS

TAX SYSTEM - FRANCE VS ITALY

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• In France, the unit of taxation is the family

TAX SYSTEM - FRANCE VS ITALY

- In France, the unit of taxation is the family
- In Italy, the unit of taxation is the individual

French Tax System - Quotient Familial

| | Number of Parts | | | | |
|----------|-----------------|-------------------|---------|---------|--|
| CHILDREN | SINGLE | SINGLE IN COUPLES | Married | Widowed | |
| 0 | 1 | 1 | 2 | 1 | |
| 1 | 2 | 1.5 | 2.5 | 2.5 | |
| 2 | 2.5 | 2 | 3 | 3 | |
| 3 | 3.5 | 3 | 4 | 4 | |

French Tax System - Quotient Familial

| | Number of Parts | | | |
|----------|-----------------|-------------------|---------|---------|
| CHILDREN | SINGLE | SINGLE IN COUPLES | Married | Widowed |
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• Divide total household income by number of parts

FRENCH TAX SYSTEM - QUOTIENT FAMILIAL

| | Number of Parts | | | | |
|----------|-----------------|-------------------|---------|---------|--|
| CHILDREN | SINGLE | SINGLE IN COUPLES | Married | Widowed | |
| 0 | 1 | 1 | 2 | 1 | |
| 1 | 2 | 1.5 | 2.5 | 2.5 | |
| 2 | 2.5 | 2 | 3 | 3 | |
| 3 | 3.5 | 3 | 4 | 4 | |

- Divide total household income by number of parts
- Apply tax rate

French Tax System - Quotient Familial

| | Number of Parts | | | | |
|----------|-----------------|-------------------|---------|---------|--|
| CHILDREN | SINGLE | SINGLE IN COUPLES | Married | Widowed | |
| 0 | 1 | 1 | 2 | 1 | |
| 1 | 2 | 1.5 | 2.5 | 2.5 | |
| 2 | 2.5 | 2 | 3 | 3 | |
| 3 | 3.5 | 3 | 4 | 4 | |

- Divide total household income by number of parts
- Apply tax rate
- Multiply tax by number of parts to get total tax



FRENCH TAX SYSTEM - TAX SCHEDULE

| | Fraction of Taxable Income | Rate |
|-------------|----------------------------|------|
| 1st bracket | Up to 5 852 | 0 |
| 2nd bracket | From 5 852 to 11 673 | 5.5 |
| 3rd bracket | From 11 673 to 25 926 | 14 |
| 4th bracket | From 25 926 to 69 505 | 30 |
| 5th bracket | Above 69 505 | 40 |

ITALIAN TAX SYSTEM - TAX SCHEDULE

| | Fraction of Taxable Income | Rate |
|-------------|----------------------------|------|
| 1st bracket | Up to 15 000 | 23 |
| 2nd bracket | From 15 000 to 28 000 | 27 |
| 3rd bracket | From 28 000 to 55 000 | 38 |
| 4th bracket | From 55 000 to 75 000 | 41 |
| 5th bracket | Above 75 000 | 43 |

ITALIAN TAX SYSTEM - TAX CREDIT

| TAXABLE INCOME | Tax Credit |
|-----------------------|---|
| Up to 8 000 | 1 840 |
| From 8 000 to 15 000 | ${\sf MaxTaxCredit} + 502 \text{*} (15\ 000\ \text{- taxable income}) / 7\ 000$ |
| From 15 000 to 55 000 | MaxTaxCredit*(55 000 - taxable income)/40 000 |
| More than 55 000 | 0 |
| | |

Where Max Tax Credit depends on level of taxable income

ITALIAN TAX SYSTEM - TAX CREDIT FOR FAMILY DEPENDENTS

| TAXABLE INCOME | Tax Credit |
|-----------------------|--------------------------------------|
| Up to 15 000 | 800 - 110*taxable income/15 000 |
| From 15 000 to 40 000 | From 690 to 720 |
| From 40 000 to 80 000 | 690*(80 000 - taxable income)/40 000 |
| More than 80 000 | 0 |
| | |

If wife's earnings are lower than 2840, then she depends on the husband

For families with one child:
 800 * (95000 - taxable income)/95000

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- For families with more than one child: 800*((95000+(15000*nchild)) taxable income)/(95000+(15000*nchild))

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- Tax credits for children are equally shared between parents

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 800 * (95000 taxable income)/95000
- For families with more than one child: 800*((95000+(15000*nchild)) taxable income)/(95000+(15000*nchild))
- Single parents receive maximum spouse tax credit and child tax credit
- Tax credits for children are equally shared between parents
- If spouse's taxes net of tax credit is less than her share in child credit, the entire child credit is provided to first earner

(1) Predict hourly wage and yearly hours worked, as in Heckman (1976)

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- (2) Compute Taxes and Net HH Income assuming that wife does not work

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- (4) Estimate FLFP as a function of the expected net income

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- (2) Compute Taxes and Net HH Income assuming that wife does not work
- (3) Compute Taxes and Net HH Income assuming that wife does work
- (4) Estimate FLFP as a function of the expected net income
- (5) Redo (2) and (3) changing tax system

FRANCE

SUMMARY STATISTICS - FRANCE, WOMEN

| Variable | Obs | Mean | Std. Dev. | Min | Max |
|-----------------|------|----------|-----------|------|--------|
| Age | 5193 | 39.97 | 8.70 | 24 | 54 |
| Years in school | 5168 | 13.18 | 4.32 | 2 | 18 |
| Children | 4810 | 1.18 | 1.05 | 0 | 3 |
| Married | 5193 | 0.57 | 0.49 | 0 | 1 |
| Gross HH Income | 5193 | 46723.18 | 26652.34 | 3252 | 299512 |
| Hourly wage | 3820 | 11.98 | 5.95 | 0.19 | 79.47 |

EXPERIMENTS - TWO TAX REFORMS IN FRANCE

Individual Income based with:

(1) Italian tax system (tax schedule + tax credits)

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Individual Income based with:

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- (2) French tax schedule and no splitting

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- $\bullet \ \, TAX \,\, RATE \,\, 1 = \frac{\text{Tot. Income Tax (Wife Not Working)}}{\text{Net Income (Wife Not Working)}}$
- $\bullet \ \, {\rm TAX} \,\, {\rm RATE} \,\, 2 = \frac{{\rm Tot. \,\, Income \,\, Tax \,\, (Wife \,\, Working)}}{{\rm Net \,\, Income \,\, (Wife \,\, Working)}}$

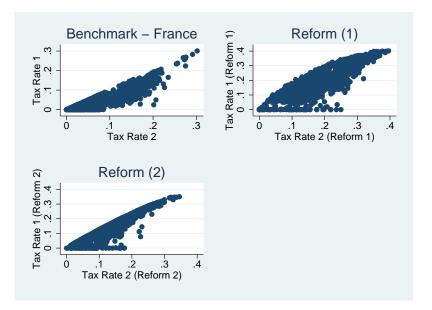
Some Definitions

- MARGINAL INCOME = Change in HH Net Income
- $\bullet \ \, {\rm TAX} \,\, {\rm RATE} \,\, 1 = \frac{{\rm Tot. \,\, Income \,\, Tax \,\, (Wife \,\, Not \,\, Working)}}{{\rm Net \,\, Income \,\, (Wife \,\, Not \,\, Working)}}$
- $\bullet \ \, {\rm TAX} \,\, {\rm RATE} \,\, 2 = \frac{{\rm Tot. \,\, Income \,\, Tax \,\, (Wife \,\, Working)}}{{\rm Net \,\, Income \,\, (Wife \,\, Working)}}$
- $\qquad \text{MARGINAL TAX} = \frac{\text{Change in Tot. Income Taxes}}{\text{Change in HH Net Income}}$

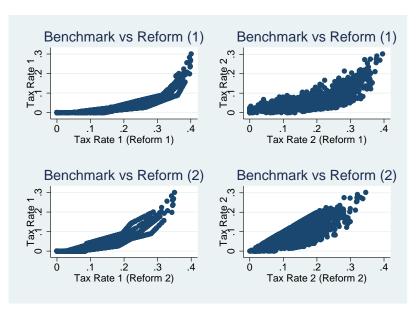
RATIO TO BENCHMARK (FRANCE)

| | Tot. Tax (Working) | Tot. Tax (Not Working) | MI |
|------------|--------------------|------------------------|------|
| Reform (1) | 3.18 | 1.89 | 0.99 |
| Reform (2) | 2.31 | 1.32 | 1.12 |

TAX RATE OF MARRIED AND PACSED



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TAX RATES - MARRIED AND PACSED

| | Tax Rate 1 | Tax Rate 2 |
|------------|------------|------------|
| Benchmark | 0.041 | 0.073 |
| Reform (1) | 0.202 | 0.198 |
| Reform (2) | 0.137 | 0.124 |

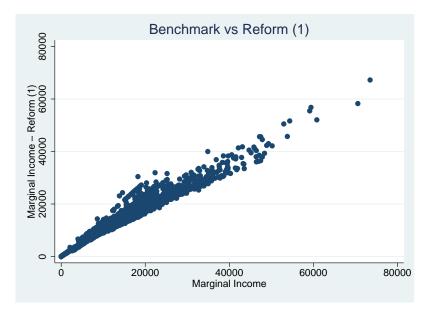
 \Rightarrow Higher increase with Italian system

TAX RATES - SINGLES

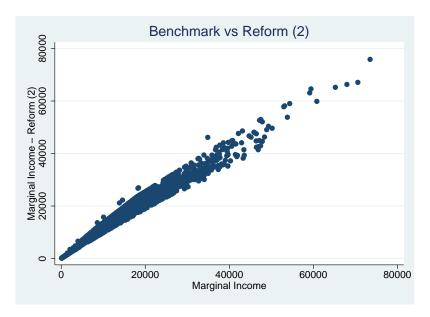
| | Tax Rate 1 | Tax Rate 2 |
|------------|------------|------------|
| Benchmark | 0.027 | 0.084 |
| Reform (1) | 0.052 | 0.081 |
| Reform (2) | 0.049 | 0.082 |

 \Rightarrow No change for those who work

Marginal Income - Married and Pacsed



Marginal Income - Married and Pacsed



Reform (1) - Marginal Tax of Second Earner

Married and Pacsed Women

| | Quar | TILES OF | Wife's Income |
|-------------------------------|-------|----------|---------------|
| Quartiles of Husband's Income | 1st | 2nd | 3rd |
| | | | |
| 1st | 0.088 | 0.095 | 0.106 |
| | 0.101 | 0.164 | 0.198 |
| | | | |
| 2nd | 0.121 | 0.135 | 0.162 |
| | 0.096 | 0.163 | 0.216 |
| | | | |
| 3rd | 0.215 | 0.223 | 0.256 |
| | 0.081 | 0.107 | 0.174 |

France (benchmark)

France with Italian tax schedule and tax credits

REFORM (1) - MARGINAL TAX

SINGLE AND DIVORCED WOMEN

| | TIELS OF | Own Income |
|-------|---|------------|
| 1st | 2nd | 3rd |
| | | |
| 0.063 | 0.081 | 0.111 |
| 0.011 | 0.028 | 0.090 |
| | | |
| 0.160 | 0.177 | 0.234 |
| 0.059 | 0.053 | 0.062 |
| | | |
| 0.236 | 0.267 | 0.322 |
| 0.058 | 0.077 | 0.054 |
| | 0.063 0.011 0.160 0.059 0.236 | 0.063 |

France (benchmark)

France with Italian tax schedule and tax credits

Reform (1) - Marginal Tax of Second Earner

Married and Pacsed Women vs Singles in France

| | Quartiles of Own Incom | | |
|---------------------------|------------------------|-----------------------|-----------------------|
| QUARTILES OF OTHER INCOME | 1st | 2nd | 3rd |
| 1st | 0.088 | 0.095 | 0.106 |
| 2nd | 0.063 0.121 | 0.081 0.135 | 0.111 0.162 |
| | 0.160 | 0.177 | 0.234 |
| 3rd | 0.215 0.236 | 0.223 0.267 | 0.256 0.322 |

[⇒] Not too much difference between Married and Singles

Reform (1) - Marginal Tax of Second Earner

Married and Pacsed Women vs Singles in Italy

| | Quartiles of Own Incom | | |
|---------------------------|------------------------|--------------------|-----------------------|
| QUARTILES OF OTHER INCOME | 1st | 2nd | 3rd |
| 1st | 0.101 | 0.164 | 0.198 |
| 0.1 | 0.011 | 0.028 | 0.090 |
| 2nd | 0.096 0.059 | 0.163 0.053 | 0.216 0.062 |
| 3rd | 0.081 0.058 | 0.107 0.077 | 0.174 0.054 |

 $[\]Rightarrow$ Higher marginal tax for Married than Singles

Reform (2) - Marginal Tax of Second Earner

Married and Pacsed Women

| | Quar | TILES OF | Wife's Income |
|-------------------------------|-------|----------|---------------|
| Quartiles of Husband's Income | 1st | 2nd | 3rd |
| | | | |
| 1st | 0.088 | 0.095 | 0.106 |
| | 0.039 | 0.066 | 0.097 |
| | | | |
| 2nd | 0.121 | 0.135 | 0.162 |
| | 0.040 | 0.067 | 0.101 |
| | | | |
| 3rd | 0.215 | 0.223 | 0.256 |
| | 0.043 | 0.070 | 0.112 |

France (benchmark)

France with French tax schedule and no splitting

REFORM (2) - MARGINAL TAX

SINGLE AND DIVORCED WOMEN

| | QUARTILES OF OWN INCOM | | |
|---------------------------|------------------------|-------|-------|
| QUARTILES OF OTHER INCOME | 1st | 2nd | 3rd |
| | | | |
| 1st | 0.063 | 0.081 | 0.111 |
| | 0.042 | 0.067 | 0.107 |
| | | | |
| 2nd | 0.160 | 0.177 | 0.234 |
| | 0.027 | 0.053 | 0.106 |
| | | | |
| 3rd | 0.236 | 0.267 | 0.322 |
| | 0.021 | 0.041 | 0.121 |
| | | | |

France (benchmark)

France with French tax schedule and no splitting

REFORM (1) AND (2) - MARGINAL TAX OF SECOND EARNER

MARRIED AND PACSED WOMEN WITH CHILDREN

| | Quar | TILES OF | Wife's Income |
|-------------------------------|-------|----------|---------------|
| Quartiles of Husband's Income | 1st | 2nd | 3rd |
| | | | |
| 1st | 0.069 | 0.079 | 0.087 |
| | 0.106 | 0.162 | 0.193 |
| | 0.041 | 0.063 | 0.086 |
| | | | |
| 2nd | 0.103 | 0.118 | 0.134 |
| | 0.094 | 0.159 | 0.218 |
| | 0.039 | 0.064 | 0.098 |
| | | | |
| 3rd | 0.160 | 0.186 | 0.210 |
| | 0.078 | 0.107 | 0.177 |
| | 0.041 | 0.067 | 0.105 |

France (benchmark)

France with Italian tax schedule and tax credits

France with no splitting



Multinomial Logit - Marginal Effects, Married

| | Unemployed | Part-Time | Full-Time |
|-----------------|-------------|-------------|-------------|
| | | | |
| Marginal Income | -4.66e-06 | -9.55e-06 | 0.00002 |
| | (0.0000)*** | (0.0000)*** | (0.0000)*** |
| Net Income | 1.77e-07 | 3.87e-07 | -1.02e-06 |
| | (0.0000) | (0.0000)* | (0.0000)** |
| Age | 0.0033 | 0.0180 | 0.0229 |
| | (0.0056) | (0.0076)** | (0.0128)** |
| Age2 | 00005 | -0.0002 | -0.0003 |
| | (0.0007) | (0.0001)** | (0.0002)** |
| Children | -0.0014 | 0.0147 | -0.0757 |
| | (0.0043) | (0.0052)*** | (0.0099)*** |
| | , | , | , |

Base outcome is Out of Labor Force



CHANGE IN EMPLOYMENT STATUS OF MARRIED VS SINGLES

| | Out of LF | Unemployed | Part-Time | Full-Time |
|----------------|--------------|--------------|--------------|--------------|
| Benchmark | 0.11 | 0.05 | 0.07 | 0.77 |
| Delicilliark | 0.11 | 0.03 | 0.07 | 0.77 |
| 5 6 (1) | | | | |
| Reform (1) | 0.13 0.04 | 0.05 0.09 | 0.08 0.04 | 0.74 0.83 |
| | 0.04 | 0.09 | 0.04 | 0.03 |
| Reform (2) | 0.09 | 0.04 | 0.06 | 0.81 |
| | 0.04 | 0.08 | 0.04 | 0.84 |
| | | | | |

CHANGE IN EMPLOYMENT STATUS OF MARRIED WITH/WITHOUT CHILDREN

| | Out of LF | Unemployed | Part-Time | Full-Time |
|------------|-----------|------------|-----------|-----------|
| D 1 1 | 0.10 | 0.05 | 0.00 | 0.75 |
| Benchmark | 0.12 | 0.05 | 0.08 | 0.75 |
| | 0.09 | 0.04 | 0.06 | 0.81 |
| | | | | |
| Reform (1) | 0.13 | 0.05 | 0.08 | 0.74 |
| () | 0.08 | 0.03 | 0.05 | 0.84 |
| | | | | |
| Reform (2) | 0.11 | 0.04 | 0.06 | 0.78 |
| (2) | | | | |
| | 0.06 | 0.04 | 0.04 | 0.86 |
| | | | | |

To Summarize

• Reform (1) does not affect FLFP

To Summarize

- Reform (1) does not affect FLFP
- Reform (2) increases total taxes but decreases marginal tax, and affects positively LFP of married

ITALY

SUMMARY STATISTICS - ITALY, WOMEN

| Variable | Obs | Mean | Std. Dev. | Min | Max |
|-----------------|-------|----------|-----------|--------|---------|
| Age | 10100 | 39.52 | 8.57 | 24 | 54 |
| Years in school | 10062 | 11.92 | 4.01 | 2 | 18 |
| Children | 8736 | 0.88 | 0.95 | 0 | 3 |
| Married | 10100 | 0.64 | 0.49 | 0 | 1 |
| Gross HH Income | 10100 | 46953.37 | 34130.38 | -52968 | 1033559 |
| Hourly wage | 5523 | 11.70 | 6.71 | 0.03 | 96.41 |

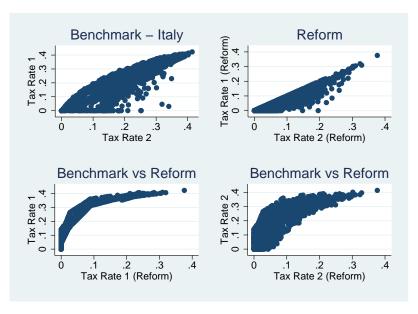
EXPERIMENT - TAX REFORM IN ITALY

• French tax schedule with splitting

RATIO TO BENCHMARK (ITALY)

| | Tot. Tax (Working) | Tot. Tax (Not Working) | MI |
|--------|--------------------|------------------------|------|
| Reform | 0.42 | 0.58 | 0.97 |

TAX RATE OF MARRIED AND PACSED



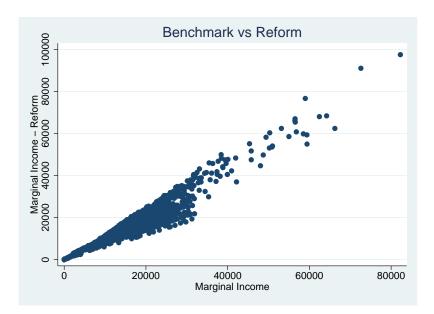
TAX RATES - MARRIED AND PACSED

| | Tax Rate 1 | Tax Rate 2 |
|-----------|------------|------------|
| Benchmark | 0.19 | 0.18 |
| Reform | 0.05 | 0.07 |
| | | |

TAX RATES - SINGLES

| | Tax Rate 1 | Tax Rate 2 |
|-----------|------------|------------|
| Benchmark | 0.15 | 0.15 |
| Reform | 0.11 | 0.14 |

Marginal Income - Married and Pacsed



Reform - Marginal Tax of Second Earner

Married and Pacsed Women

| | Quartiles of Wife's Income | | |
|-------------------------------|----------------------------|-------|-------|
| Quartiles of Husband's Income | 1st | 2nd | 3rd |
| | | | |
| 1st | 0.075 | 0.122 | 0.173 |
| | 0.080 | 0.096 | 0.111 |
| | | | |
| 2nd | 0.086 | 0.141 | 0.193 |
| | 0.128 | 0.138 | 0.165 |
| | | | |
| 3rd | 0.063 | 0.105 | 0.134 |
| | 0.243 | 0.245 | 0.277 |
| | 1 | | |

Italy (benchmark)

Italy with French tax schedule and splitting

Reform - Marginal Tax

SINGLE AND DIVORCED WOMEN

| | QUARTILES OF OWN INCOME | | |
|---------------------------|-------------------------|-------|-------|
| QUARTILES OF OTHER INCOME | 1st | 2nd | 3rd |
| | | | |
| 1st | 0.009 | 0.029 | 0.049 |
| | 0.108 | 0.135 | 0.179 |
| | | | |
| 2nd | 0.069 | 0.088 | 0.048 |
| | 0.222 | 0.258 | 0.271 |
| | | | |
| 3rd | 0.066 | 0.074 | 0.050 |
| | 0.314 | 0.338 | 0.348 |
| | | | |

Italy (benchmark)

Italy with French tax schedule and splitting

Reform - Marginal Tax of Second Earner

MARRIED AND PACSED WOMEN WITH CHILDREN

| | Quartiles of Wife's Income | | |
|-------------------------------|----------------------------|-------|-------|
| Quartiles of Husband's Income | 1st | 2nd | 3rd |
| | | | |
| 1st | 0.074 | 0.115 | 0.172 |
| | 0.060 | 0.075 | 0.084 |
| | | | |
| 2nd | 0.084 | 0.136 | 0.187 |
| | 0.114 | 0.121 | 0.131 |
| | | | |
| 3rd | 0.065 | 0.110 | 0.158 |
| | 0.175 | 0.191 | 0.222 |

Italy (benchmark)

Italy with French tax schedule and splitting

Multinomial Logit - Marginal Effects, Married

| | Unemployed | Part-Time | Full-Time |
|-----------------|------------|-------------|-------------|
| | | | |
| Marginal Income | -8.57e-07 | -3.15e-06 | 0.00002 |
| | (0.0000)* | (0.0000)*** | (0.0000)*** |
| Net Income | 4.62e-08 | 4.87e-07 | -1.31e-06 |
| | (0.0000) | (0.0000)*** | (0.0000)** |
| Age | -0.0053 | 0.0198 | 0.0385 |
| | (0.0056) | (0.0077)*** | (0.0148)*** |
| Age2 | 0.00003 | -0.0002 | -0.0004 |
| | (0.0007) | (0.0001)*** | (0.0002)** |
| Children | -0.0058 | -0.0017 | -0.0786 |
| | (0.0057) | (0.0063) | (0.0134)*** |
| | ` , | , | , |

Base outcome is Out of Labor Force



CHANGE IN EMPLOYMENT STATUS OF MARRIED VS SINGLES

| | Out of LF | Unemployed | Part-Time | Full-Time |
|-----------|--------------|--------------|--------------|--------------|
| Benchmark | 0.40 | 0.05 | 0.07 | 0.48 |
| | 0.19 | 0.11 | 0.04 | 0.66 |
| Reform | 0.38 0.19 | 0.05 0.11 | 0.07 0.04 | 0.50 0.66 |

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- The Italian system discourages LFP of low income second earners, but less than French system
- The French system would not affect FLFP