

# From Learning to Earning: Financial Literacy and Wealth Accumulation in the UK

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<sup>1</sup>The data for this research have been provided by the Geographic Data Service, a Smart Data Research UK Investment, under project ID GeoDS 2495, ES/Z504464/1.

# Overview

- ① Idea of financial literacy as a barrier to extensive and intensive margins of stock-holding.
- ② Role of “learning-by-doing” in closing literacy gaps.
- ③ Life-cycle model with financial literacy frictions and learning-by-doing.
- ④ Effect of cash vs stock transfers on long-term participation and wealth.
- ⑤ Effect of higher participation on macroeconomic shocks.

# UK Stock Market Participation

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- Yet, only 22% of the UK population directly owns stocks.
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- For individuals with above £10,000 in assets and savings, 38% hold it all in cash. A further 20% hold at least 75% in cash.

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- For every £1 in stocks, U.K. households hold £10 in cash.
- For individuals with above £10,000 in assets and savings, 38% hold it all in cash. A further 20% hold at least 75% in cash.
- 1-in-3 individuals with above £10,000 but no stocks say they “do not know enough” to invest.

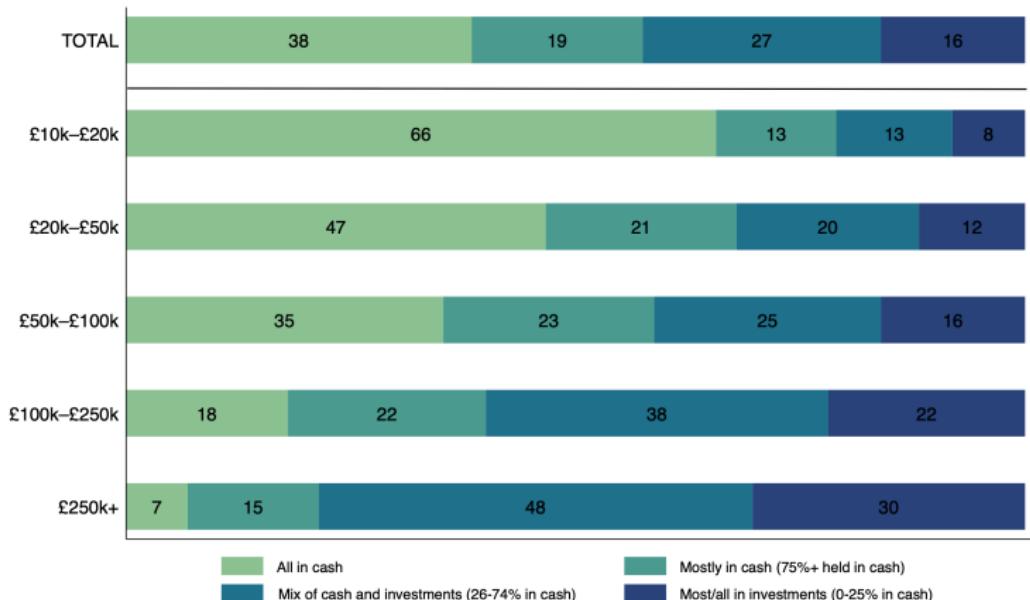
# Data

- **UK Financial Lives Survey 2022 (FCA)**
  - Representative survey of UK adults covering financial products, balances, literacy, and demographics.
- **Investable Assets**
  - Self-reported value of liquid savings (current and cash savings accounts) plus investment products (e.g. funds, shares, investment property).
  - Excludes main residence and DC pensions.
  - Excludes cash that's not in savings - i.e., cash for current spending.
- **Financial Literacy Score**
  - Number of correct answers (0–4) to four FLS questions on interest compounding, inflation, and risk diversification.

► Financial literacy questions

# Cash Holdings

42% of UK adults have at least £10,000 in investable assets.



Source: FLS, 2022

Figure: Proportion investing by level of investable assets.

# Extensive Margin

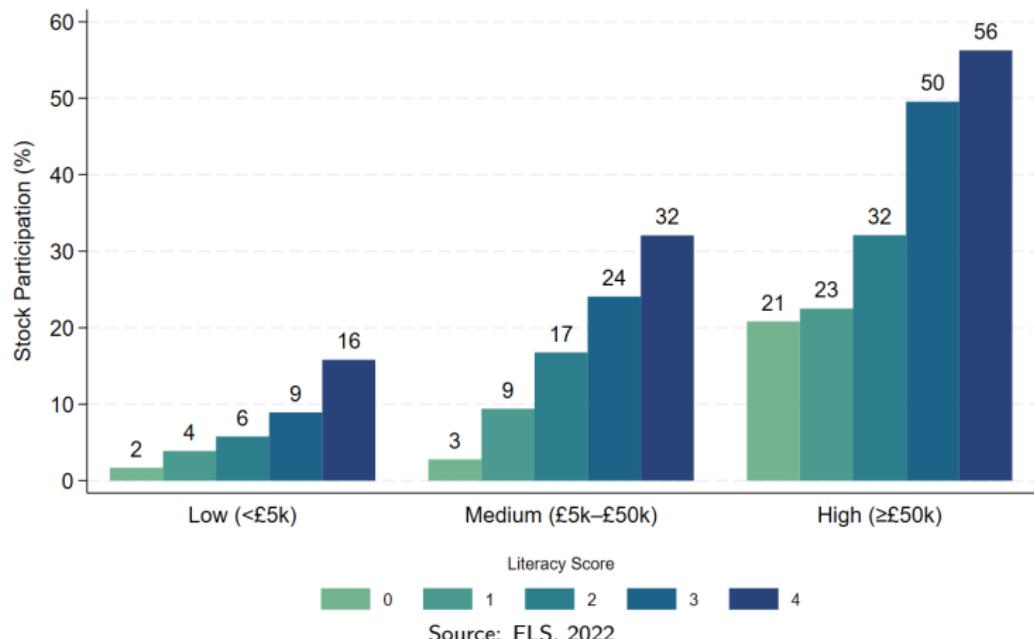
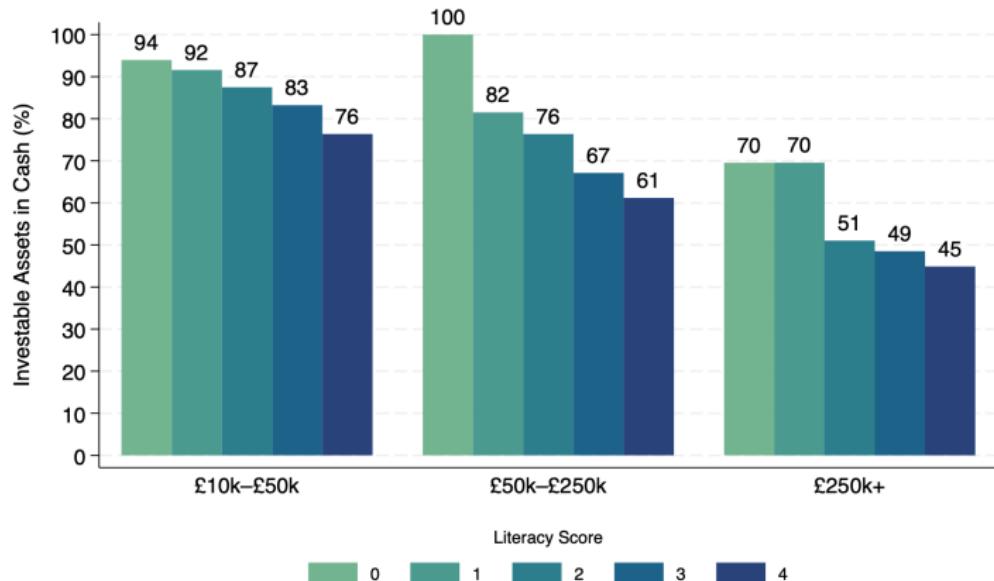


Figure: Stock participation by assets and financial literacy.

Average participation rates: 6.2%, 26.2%, and 53.1%.

Average financial literacy scores: 2.7, 3.2, and 3.6.

# Intensive Margin

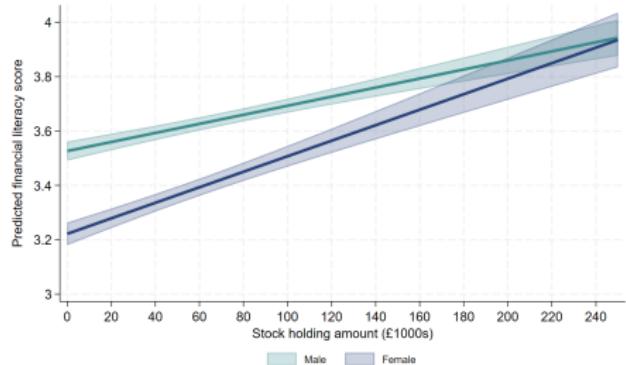


Source: FLS, 2022

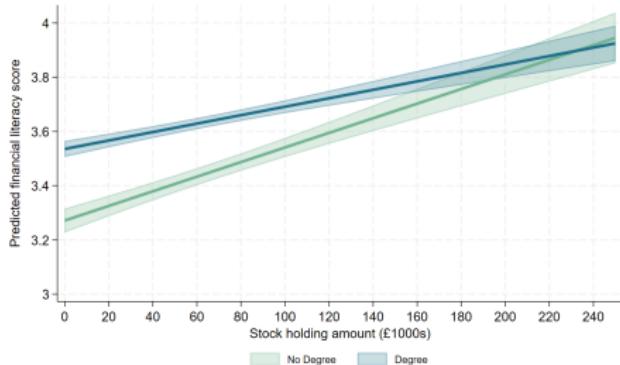
Figure: Share of cash assets by assets and financial literacy.

# Learning-by-Doing

- Financial literacy increases with non-cash investments.
- Gender and education gaps narrow as investment levels rise.



(a) By gender.



(b) By degree.

Source: FLS, 2022

Figure: Predicted financial literacy by stockholding and demographics.

# Existing Literature

- **Life-Cycle Models with Portfolio Choice**
  - Active choice to invest in financial literacy that affects returns (Cota et al., 2025; Jappelli and Padula, 2013; Lusardi et al., 2017)
- **Limited Stock Market Participation**
  - Limited financial literacy (Thomas and Spataro, 2018; van Rooij et al., 2011) and cognitive abilities (Christelis et al., 2010).
- **Participation Costs**
  - Investors face entry and per-period costs, particularly affecting households *with low financial wealth* (Alan, 2006; Fagereng et al., 2017; Galaasen and Raja, 2024; Vissing-Jorgensen, 2002).
- **Learning-by-Doing**
  - Financial experience boosts literacy (Frijns et al., 2014; Mandell, 2008).

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- **Learning-by-Doing**
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**This paper:** *Non-monetary literacy frictions, Learning-by-doing, Policy implications & macroeconomic dynamics.*

# Motivation and Identification Strategy

- Estimating the causal relationship between **stock ownership** and **financial literacy** is complicated by endogeneity:
  - Financially literate individuals are more likely to participate in equity markets.
  - Those that participate are likely to have higher literacy from learning-by-doing.

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  - Financially literate individuals are more likely to participate in equity markets.
  - Those that participate are likely to have higher literacy from learning-by-doing.
- Instrument for stock-holding:

$$Z_i = \text{nonImmediateInheritance}.$$

- The instrument equals one if the respondent received an inheritance in the past 12 months **without** reporting:
  - the death of a parent or spouse, or
  - a serious accident of a close family member.
  - $N = 886$ .

# Model Specification

$$FL_i^* = \gamma \text{OwnsStocks}_i + \mathbf{X}'_i \boldsymbol{\beta} + \varepsilon_{1i},$$
$$\text{OwnsStocks}_i^* = \pi_1 Z_i + \mathbf{X}'_i \boldsymbol{\pi}_2 + \varepsilon_{2i},$$

where  $(\varepsilon_{1i}, \varepsilon_{2i})$  are jointly normal with  $\text{corr}(\varepsilon_{1i}, \varepsilon_{2i}) = \rho$ .

- $FL_i^*$  is a latent continuous measure of financial literacy; observed as ordered categories:

$$FL\_Score_i = j \quad \text{if } \kappa_{j-1} < FL_i^* \leq \kappa_j.$$

- $\text{OwnsStocks}_i = 1$  if  $\text{OwnsStocks}_i^* > 0$ .
- $\rho$  captures the residual correlation between unobserved determinants of financial literacy and stockholding.

**Estimation:** Joint maximum likelihood (FIML) provides consistent estimates of  $(\gamma, \rho)$  and the cutpoints  $\{\kappa_j\}$ .

# Endogenous Ordered Probit Estimation

Table: Endogenous Ordered Probit – Financial Literacy and Stock Ownership

| Dependent Variable: Financial Literacy Score (Ordered) |                    |                    |                    |                    |                    |
|--|--------------------|--------------------|--------------------|--------------------|--------------------|
|  | (1)                | (2)                | (3)                | (4)                | (5)                |
| Owns Stocks  | 1.50***<br>(0.09)  | 1.36***<br>(0.12)  | 1.31***<br>(0.11)  | 0.85**<br>(0.37)   | 0.87***<br>(0.27)  |
| Female   | -0.35***<br>(0.03) | -0.40***<br>(0.03) | -0.39***<br>(0.03) | -0.51***<br>(0.06) | -0.47***<br>(0.04) |
| Has Degree   |                    | 0.36***<br>(0.03)  | 0.34***<br>(0.03)  | 0.51***<br>(0.06)  | 0.46***<br>(0.04)  |
| Income Controls  |                    |                    | Yes                |                    | Yes                |
| Age Controls   |                    |                    |                    | Yes                | Yes                |
| $\rho$   | -0.53              | -0.46              | -0.46              | -0.19              | -0.24              |
| $\Pr(\rho = 0)$  | 0.00               | 0.00               | 0.00               | 0.41               | 0.16               |
| First-stage Wald $\chi^2$                              | 20.8               | 14.9               | 9.5                | 16.6               | 10.7               |
| N  | 27,925             | 26,899             | 22,742             | 26,899             | 22,742             |

# Average Marginal Effects

Table: Average Marginal Effect of Stockholding on Expected Financial Literacy Score

| <b>Group</b>                 | <b>AME</b> | <b>Std. Err.</b> |
|------------------------------|------------|------------------|
| <i>Overall Sample</i>        |            |                  |
| All individuals              | 0.3574     | 0.0184           |
| <i>By Gender</i>             |            |                  |
| Male                         | 0.3181     | 0.0140           |
| Female                       | 0.3998     | 0.0406           |
| <i>By Education (Degree)</i> |            |                  |
| No Degree                    | 0.3872     | 0.0312           |
| Degree                       | 0.3095     | 0.0131           |

*Notes:* Each effect reflects the average change in expected financial literacy score when stockholding status changes from 0 to 1, controlling for other covariates and accounting for endogeneity via instrumental variables. Standard errors computed from nonparametric bootstrapping with 200 iterations.

# Model Overview

- Finite-horizon life-cycle model with endogenous financial literacy accumulation.
- Agents live for  $T = 29$  (two-year) periods: work for  $T - R$  years and retire for the remaining  $R = 5$ .
- Two assets: cash ( $m_t$ ) and stocks ( $s_t$ ).
- Stochastic stock returns  $R_t^s$  and idiosyncratic labor productivity  $z_t$ .
- Investing in stocks incurs a *literacy-dependent* utility cost.
- Financial literacy evolves via learning-by-doing.

# Labor Income and Returns

## Labor Income Process:

- Inelastically supply 1 unit of Labor.
- Earn labor  $z_t w_t$ , where  $w_t$  is the (age-dependent) wage rate and  $z_t$  is an AR(1) idiosyncratic productivity process.

$$z_{t+1} = \rho_0^z + \rho_1^z z_t + \varepsilon_{t+1}^z, \quad (1)$$

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## Asset Returns:

- Cash:  $R^m = 1 + r^m$  (constant)
- Stocks:  $R_t^s = 1 + r_t^s$ , i.i.d. over time (partial-equilibrium)

Agents face:

- Short-selling constraint:  $s_t \geq 0$
- Borrowing constraint:  $m_t \geq \underline{m}$

# Investment Costs and Financial Literacy

## Utility Cost of Investing:

$$\kappa(s_{t+1}, s_t, \lambda_t) = \begin{cases} \frac{\max\{s_{t+1} - s_t, 0\}}{s_{t+1}\lambda_t}, & \text{if } s_{t+1} > 0, \\ 0, & \text{if } s_{t+1} = 0. \end{cases} \quad (2)$$

- Captures utility cost of increasing stock holdings.
- No cost of selling stocks or leaving holdings unchanged.
- Decreases in financial literacy,  $\lambda_t$ .

# Financial Literacy Accumulation

**Learning-by-Doing:**

$$\lambda_{t+1} = \delta_t \lambda_t + \left( \eta \max\{s_{t+1} - s_t, 0\}^\psi + \chi \mathbf{1}\{s_{t+1} > 0\} \right) \lambda_t^\phi, \quad (3)$$

# Financial Literacy Accumulation

## Learning-by-Doing:

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where:

- $\delta_t$ : age-specific depreciation rate,
- $\psi$ : curvature of learning-by-doing,
- $\phi$ : returns-to-scale in learning,
- $\eta$ : effect of *increasing stocks*,
- $\chi$ : effect of *holding stocks*.

*Interpretation:* literacy rises with active investment experience; higher  $\lambda_t$  amplifies future learning if  $\phi > 0$  or dampens if  $\phi < 0$ .

# The Household Problem

## Objective:

$$V_t(s_t, m_t, \lambda_t, z_t, R_t^s) = \max_{c_t, s_{t+1}, m_{t+1}} \left[ u(c_t) - \kappa(s_{t+1}, s_t, \lambda_t) + \beta \mathbb{E}[V_{t+1}(s_{t+1}, m_{t+1}, \lambda_{t+1}, z_{t+1}, R_{t+1}^s)] \right] \quad (4)$$

CRRA:  $u(c_t) = \frac{c_t^{1-\sigma} - 1}{1 - \sigma}$ .

## Budget Constraint:

$$c_t + s_{t+1} + m_{t+1} = w_t z_t + \tau_t + R_t^s s_t + R^m m_t \quad (5)$$

## Constraints:

$$s_{t+1} \geq 0, \quad m_{t+1} \geq \underline{m}.$$

# Calibration Results

Table: Model Parameters – Internal and External Calibration

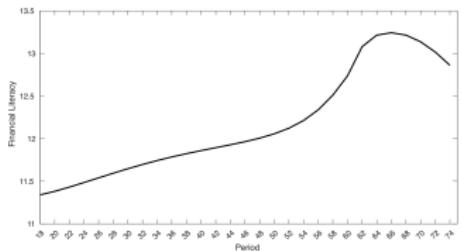
|                            | Description                     | Value  | Target / Source                 |
|----------------------------|---------------------------------|--------|---------------------------------|
| <i>External Parameters</i> |                                 |        |                                 |
| $r^m$                      | Cash return (two-year)          | 0.0183 | Average deposit rate, 2011–2025 |
| $\mathbb{E}[r^s]$          | Mean equity return (two-year)   | 0.2090 | FTSE All-World, 2003–2025       |
| $\sigma^s$                 | Std. dev. of equity returns     | 0.2410 | FTSE All-World, 2003–2025       |
| $\rho_0^z$                 | Constant in log-productivity    | -0.06  | WAS household panel             |
| $\rho_1^z$                 | Persistence of log-productivity | 0.75   | WAS household panel             |
| $\sigma_{\varepsilon^z}$   | Shock std. dev.                 | 0.46   | WAS household panel             |
| $\underline{m}$            | Borrowing limit                 | 0      | No borrowing                    |
| $\tau$                     | Retiree transfer                | 0.66   | 30% replacement rate            |
| $\xi$                      | Taste shock                     | 0.01   | Externally imposed              |
| <i>Internal Parameters</i> |                                 |        |                                 |
| $\beta$                    | Discount factor (two-year)      | 0.568  | Internally calibrated           |
| $\chi$                     | Literacy return (holding)       | 58.000 | Internally calibrated           |
| $\eta$                     | Literacy return (increase)      | 71.000 | Internally calibrated           |
| $\sigma$                   | CRRA coefficient                | 3.250  | Internally calibrated           |
| $\psi$                     | Stock-increase curvature        | 0.065  | Internally calibrated           |
| $\phi$                     | Learning curvature              | -1.630 | Internally calibrated           |
| $\delta$                   | Final depreciation rate         | 0.981  | Internally calibrated           |
| $\lambda^0$                | Initial literacy (lowest group) | 2.500  | Internally calibrated           |
| $\Lambda$                  | Literacy scaling factor         | 1.660  | Internally calibrated           |

# Model Performance – Targeted Moments

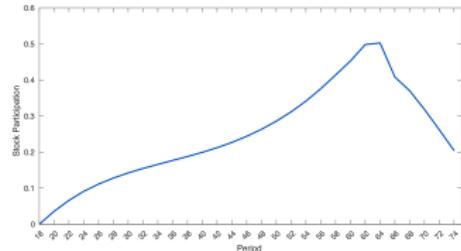
Table: Model Performance – Targeted Moments

|   | Model | Target | Source     |
|---|-------|--------|------------|
| <i>A. Stock Market Participation</i>      |       |        |            |
| Overall participation rate                | 24%   | 22%    | FLS – 2022 |
| Participation rate (Under age 25)         | 7%    | 7%     | FLS – 2022 |
| Participation rate (Retirees)             | 34%   | 28%    | FLS – 2022 |
| <i>B. Wealth Distribution</i>             |       |        |            |
| Households with zero financial assets     | 11%   | 12%    | FLS – 2022 |
| Cash-to-stock asset ratio                 | 7.48  | 9.88   | WAS 2020   |
| <i>C. Financial Literacy Ratios</i>       |       |        |            |
| Stockholders vs. non-stockholders         | 1.67  | 1.22   | FLS – 2022 |
| 75th-to-25th percentile of stock holdings | 1.04  | 1.07   | FLS – 2022 |
| End-of-life vs. retirement period         | 0.94  | 0.93   | FLS – 2022 |
| Ages 35–44 vs. Ages 18–24                 | 1.01  | 1.30   | FLS – 2022 |

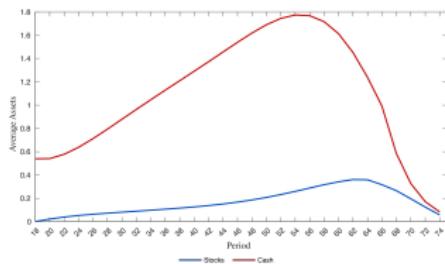
# Steady-state Results



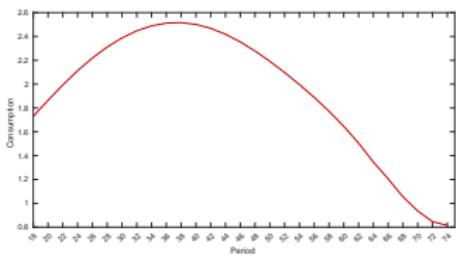
(a) Financial literacy



(b) Stock participation



(c) Average assets



(d) Average consumption

Figure: Model outcomes by age

# Results (I)

- Cohort 4 vs 5: 64% at  $t = 0 \rightarrow 77\%$  at  $T - R \rightarrow 84\%$  at  $T$ .

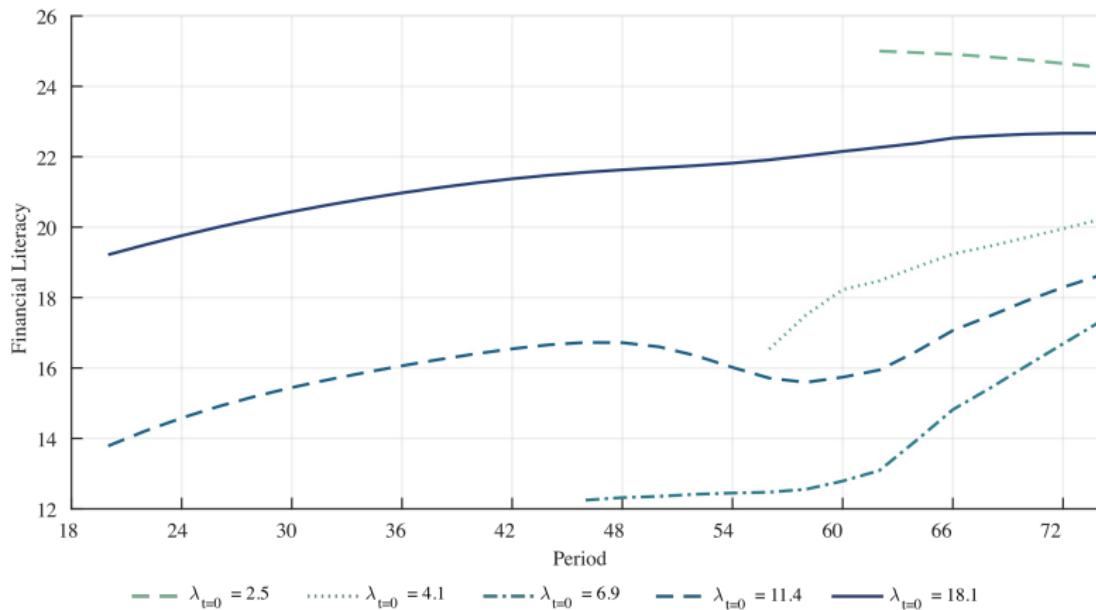


Figure: Financial literacy across cohorts conditional on stock-holding

## Results (II)

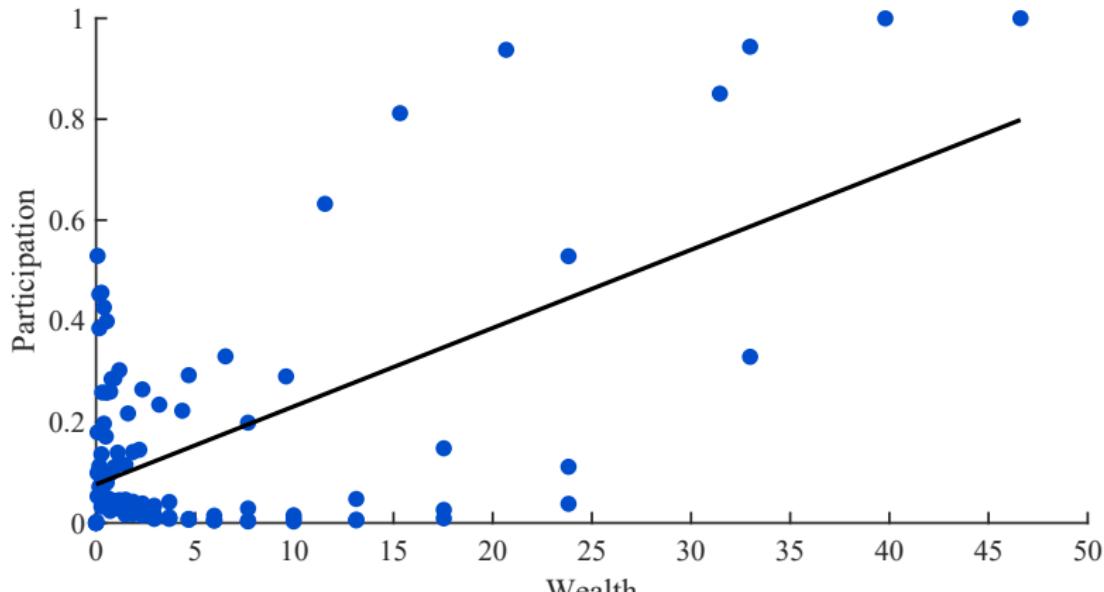
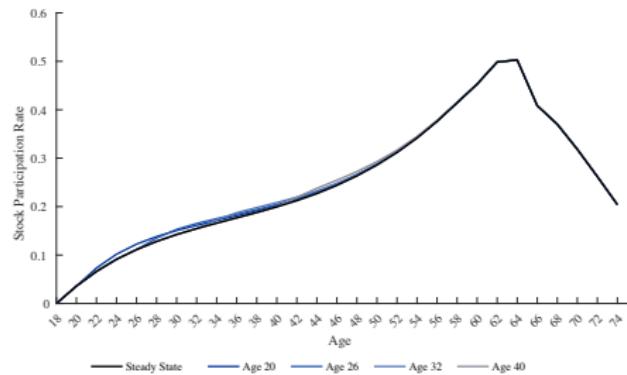


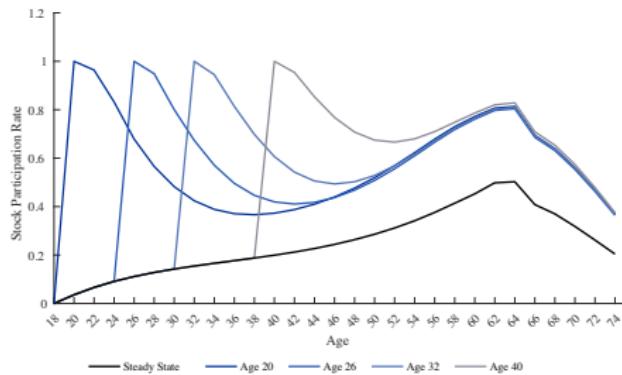
Figure: Model-implied Wealth vs Participation

- $\text{Corr}(\text{Wealth}, \text{Participation}) = 0.59$ .

# Policy Implications



(a) Cash transfer



(b) Stock transfer

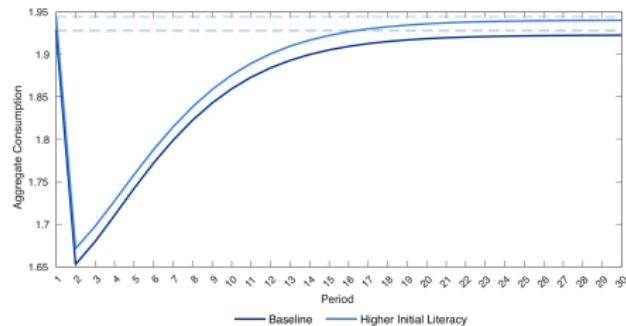
Figure: Cash vs. Stock Transfer by Age: Participation Rates

- Transfers of 0.25 units in cash or stocks.
- By retirement:
  - Cash transfer: +0.1pp. participation, +0.2% literacy, +0.1% consumption.
  - Stock transfer: +30pp. participation, +40% literacy, +4.5% consumption.

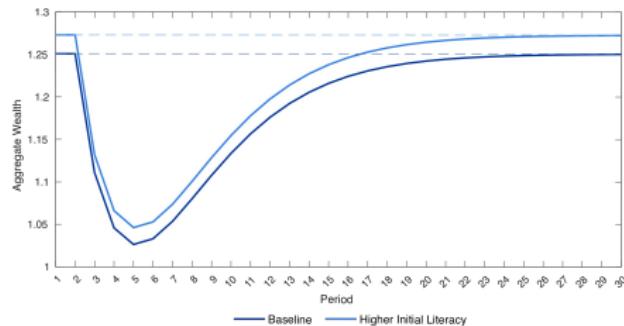
# Macroeconomic Shocks

- Consider recessions/shocks in two economies:
  - Calibrated baseline
  - Economy where agents start with +25% literacy
- Simulate shocks and recovery through time:
  - Household income shock - Lower  $z_t$  for all agents
  - One-off 28% drop in stock prices
- Future work: General equilibrium recessions with correlated income and financial shocks.

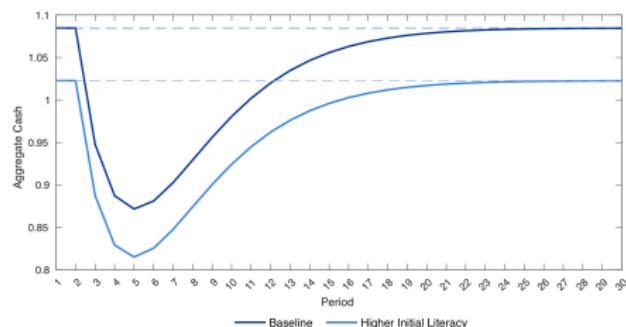
# Macroeconomic Dynamics - Income Shock



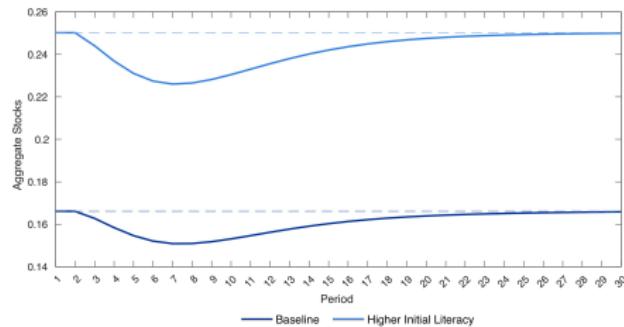
(a) Consumption



(b) Wealth



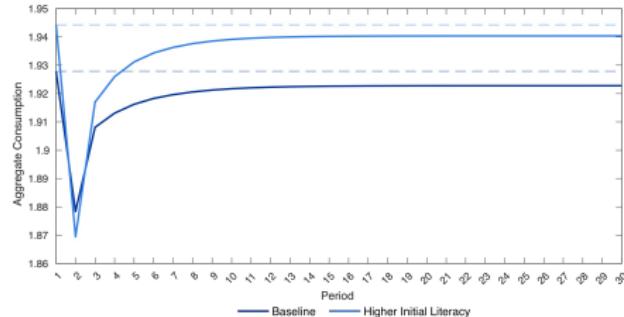
(c) Cash



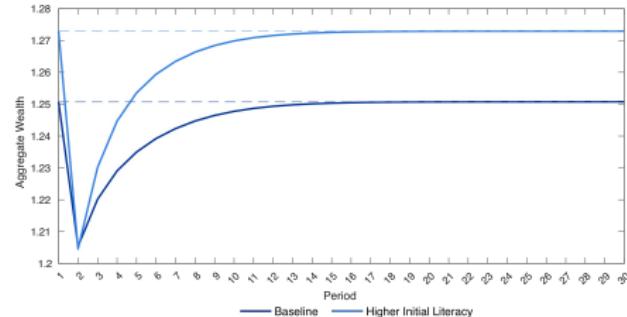
(d) Stocks

Figure: Income Shock - Baseline vs Higher Initial Literacy: Aggregate Moments

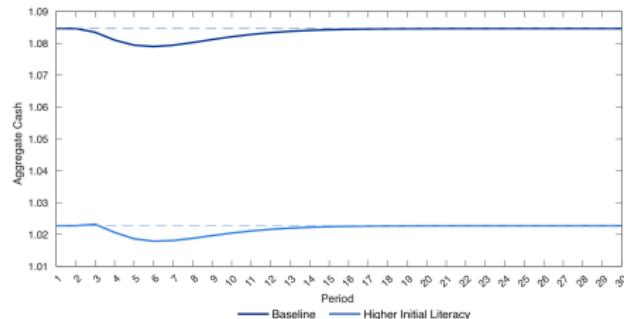
# Macroeconomic Dynamics - Financial Shock



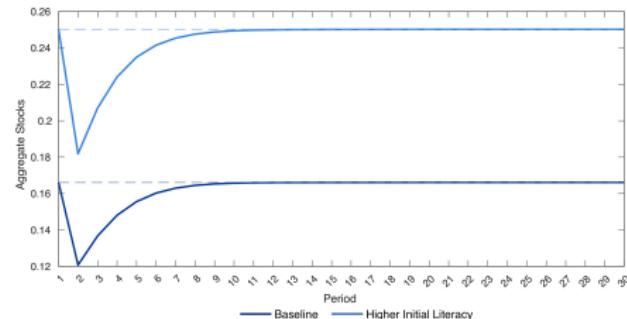
(a) Consumption



(b) Wealth



(c) Cash



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Figure: Financial Shock - Baseline vs Higher Initial Literacy: Aggregate Moments

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  - Learning by doing narrows gender and education literacy gaps.
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  - Higher literacy raises wealth and smooths income shocks, but increases exposure to rare asset-price crashes.

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- ⑤ **Future work:** Embed in general equilibrium with endogenous prices and policy to study macro and distributional effects of higher literacy.

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# Appendix

# Financial Literacy Questions (FLS 2022)

- 1 Suppose you put £100 into a savings account with a guaranteed interest rate of 2% per year (with no fees or tax to pay). How much would be in the account at the end of the first year, once the interest payment is made? **72%**

(Numeric response)

- 2 And how much would be in the account at the end of five years? **56%**

**More than £110** Exactly £110 Less than £110 Do not know

- 3 If the inflation rate is 5% and the interest rate you get on your savings is 3%, will your savings have more, less, or the same amount of buying power in a year's time? **63%**

More The same **Less** Do not know

- 4 Is the following statement true or false?

"Buying shares in a single company usually provides a safer return than buying shares in a range of companies." **58%**

True **False** Do not know

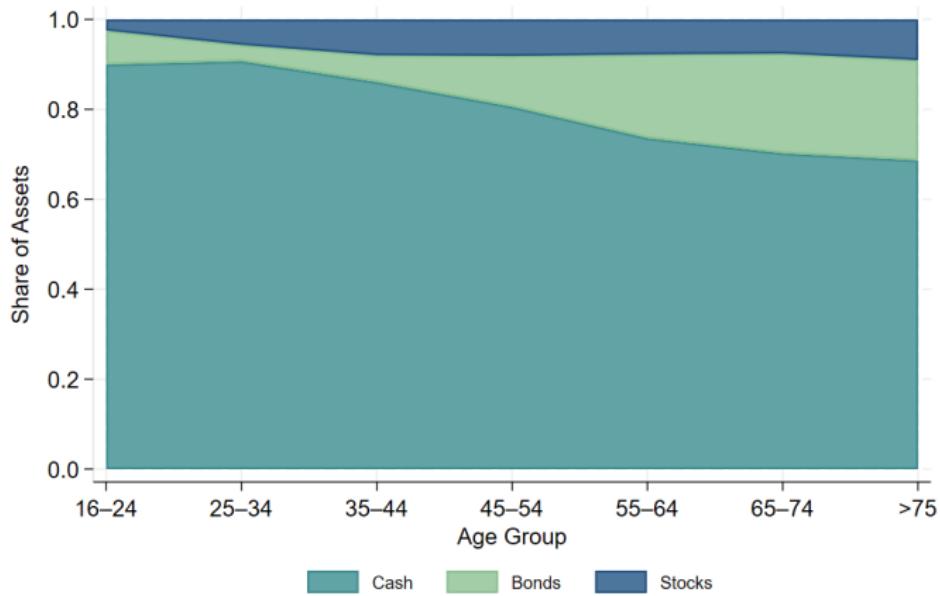
# Wealth & Asset Survey - Descriptive Statistics

Table: Descriptive Statistics of Household Income and Wealth Variables in 2020 (in £000's)

|                         | Mean  | Std. Dev. | P10  | P50   | P90   | N      |
|-------------------------|-------|-----------|------|-------|-------|--------|
| <i>Income</i>           |       |           |      |       |       |        |
| Gross income            | 44.1  | 41.3      | 13.0 | 33.7  | 85.3  | 11,341 |
| <i>Net Wealth</i>       |       |           |      |       |       |        |
| Property wealth         | 264.2 | 327.4     | 0.0  | 190.0 | 600.0 | 11,341 |
| Financial wealth        | 100.5 | 244.9     | -2.0 | 25.6  | 284.0 | 11,340 |
| <i>Financial Assets</i> |       |           |      |       |       |        |
| Stocks                  | 4.5   | 20.5      | 0.0  | 0.0   | 5.0   | 11,341 |
| Bonds                   | 8.5   | 53.9      | 0.0  | 0.0   | 10.5  | 11,341 |
| Cash and deposits       | 44.5  | 86.4      | 0.3  | 14.0  | 118.8 | 11,341 |

# Portfolio Allocation

Figure: Share of Average Portfolio

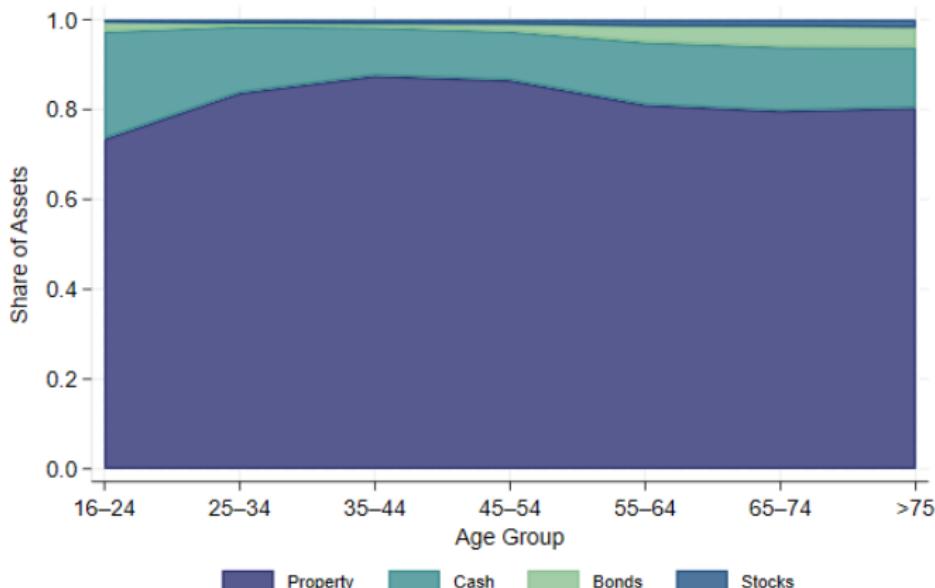


Source: Wealth and Assets Survey (2020)

► Include Property

# Portfolio Allocation incl. Property

Figure: Share of Average Portfolio (Including Property)



Source: Wealth and Assets Survey (2020)

# Portfolio Allocation incl. Property (Aggregate Share)

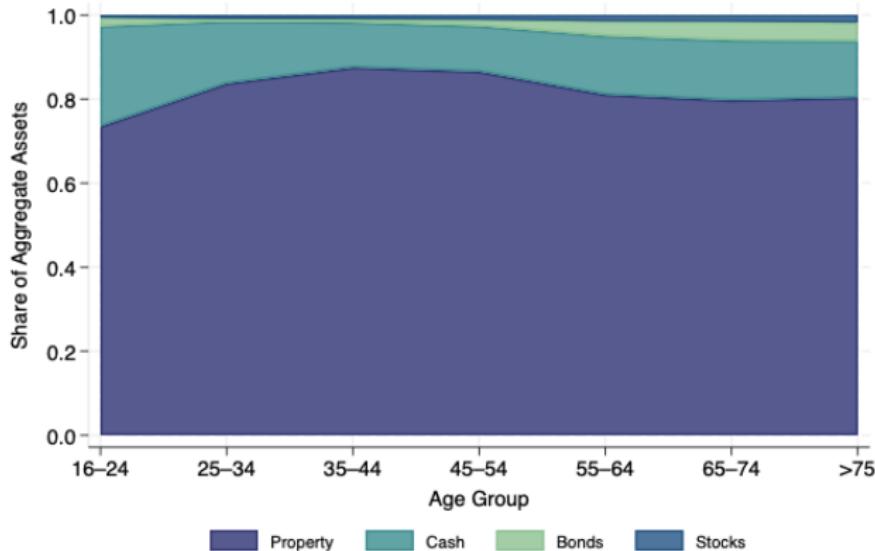


Figure: Share of Aggregate Household Assets by Age Group (Including Property)

Source: Wealth and Assets Survey (2020)

# Literacy Scores by Group

Table: Mean Financial Literacy Scores by Demographic Group and Interactions

|                                     | Mean | Std. Dev. | N      |
|-------------------------------------|------|-----------|--------|
| <i>Gender</i>                       |      |           |        |
| Male                                | 3.29 | 0.95      | 14,717 |
| Female                              | 2.80 | 1.09      | 13,340 |
| <i>Gender × Education Level</i>     |      |           |        |
| <b>Lower Secondary</b>              |      |           |        |
| Male                                | 2.93 | 1.07      | 2,016  |
| Female                              | 2.54 | 1.11      | 2,290  |
| <b>Upper Secondary</b>              |      |           |        |
| Male                                | 3.22 | 0.95      | 4,280  |
| Female                              | 2.71 | 1.09      | 3,427  |
| <b>Tertiary</b>                     |      |           |        |
| Male                                | 3.58 | 0.75      | 7,667  |
| Female                              | 3.07 | 1.01      | 6,949  |
| <i>Stock Ownership</i>              |      |           |        |
| No Stocks                           | 2.91 | 1.08      | 20,467 |
| Has Stocks                          | 3.52 | 0.76      | 7,824  |
| <i>Inheritance (last 12 months)</i> |      |           |        |
| Received Inheritance                | 3.38 | 0.90      | 949    |
| No Inheritance                      | 3.04 | 1.05      | 27,369 |

Source: FLS, 2022