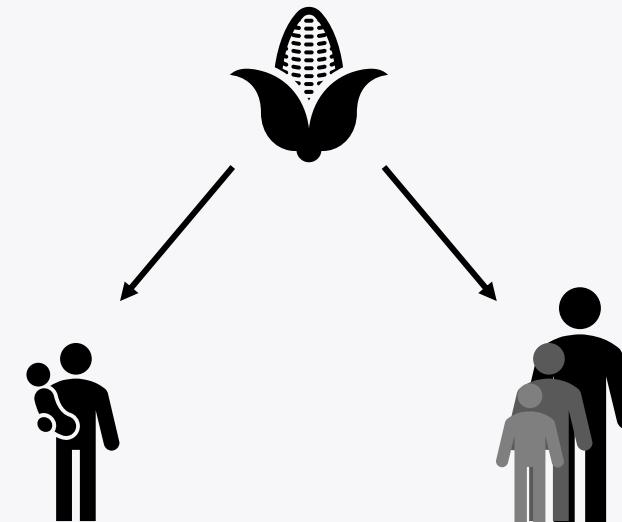




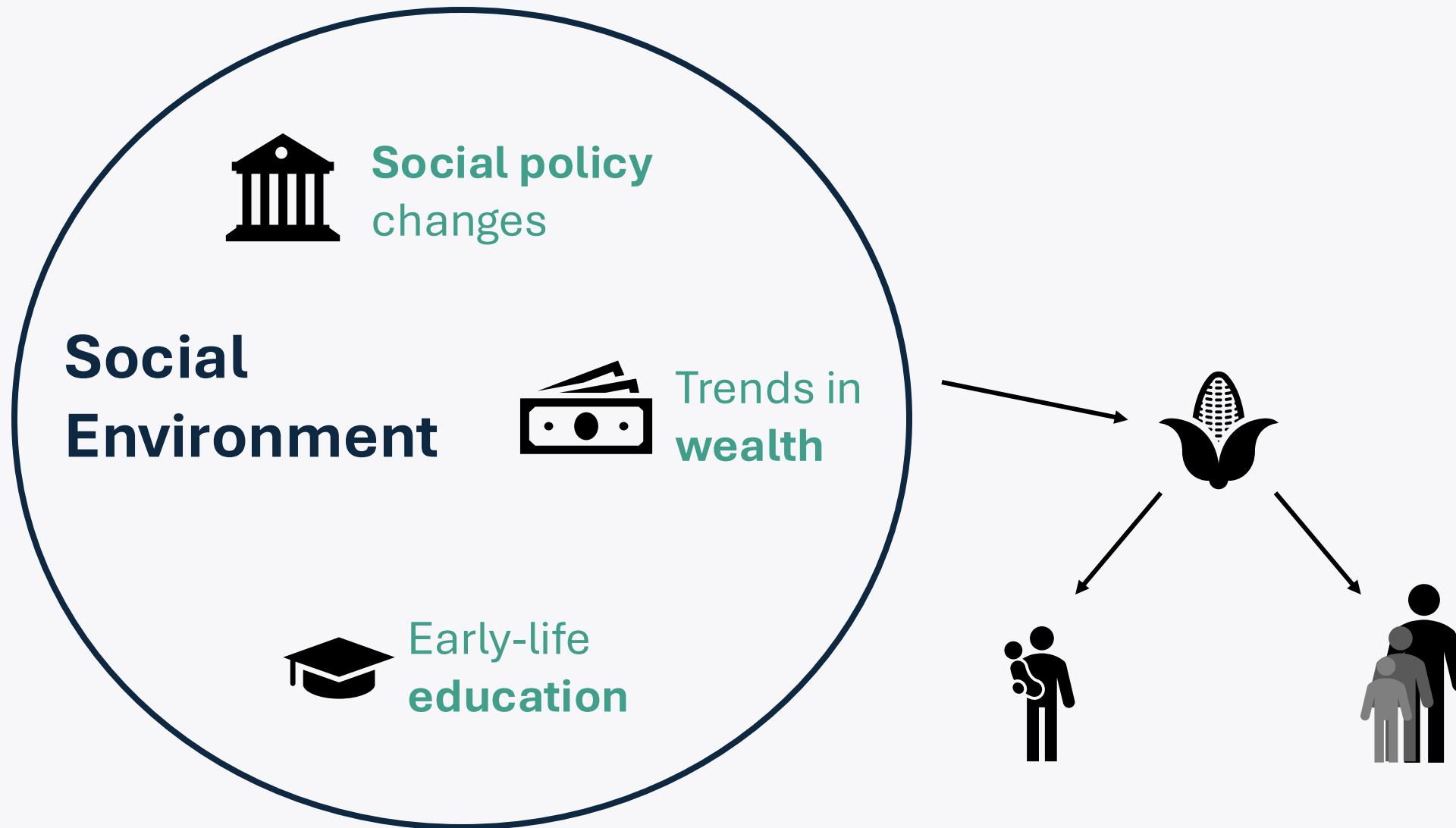
# Quantifying the impact of the social environment on human life-histories in times of change: Insights from archival records for the Isles of Scilly, UK

Rosie Layfield - r.layfield@exeter.ac.uk | Supervisors: Dr Erik Postma and Prof Jane Wills

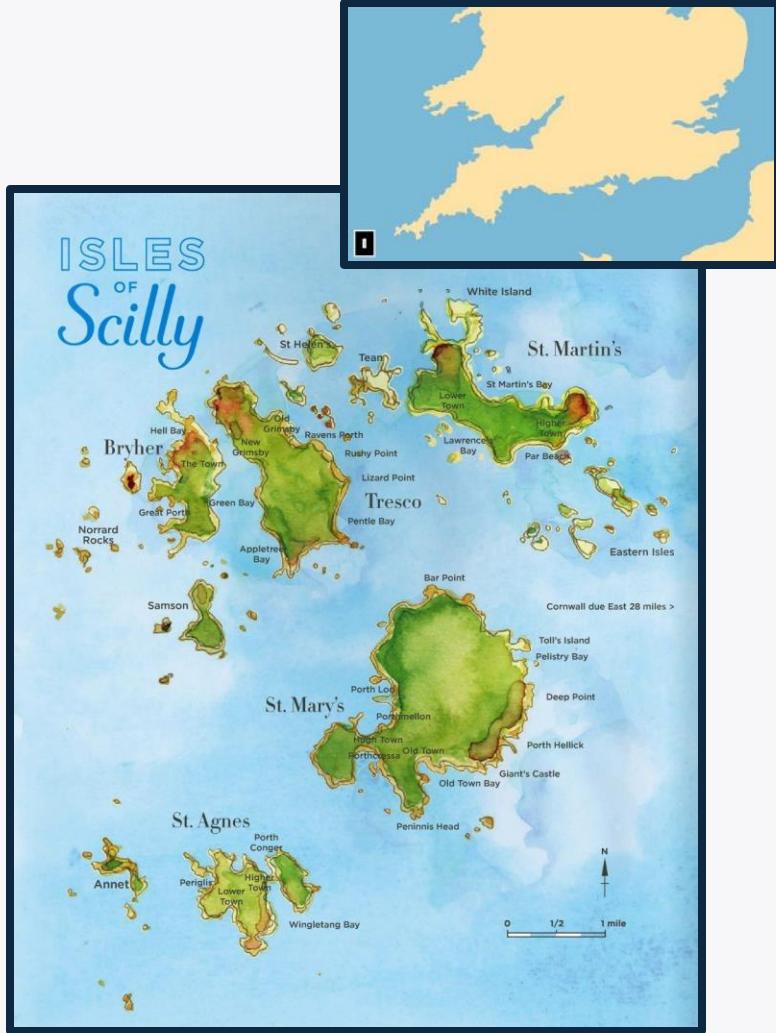
# Life-history theory



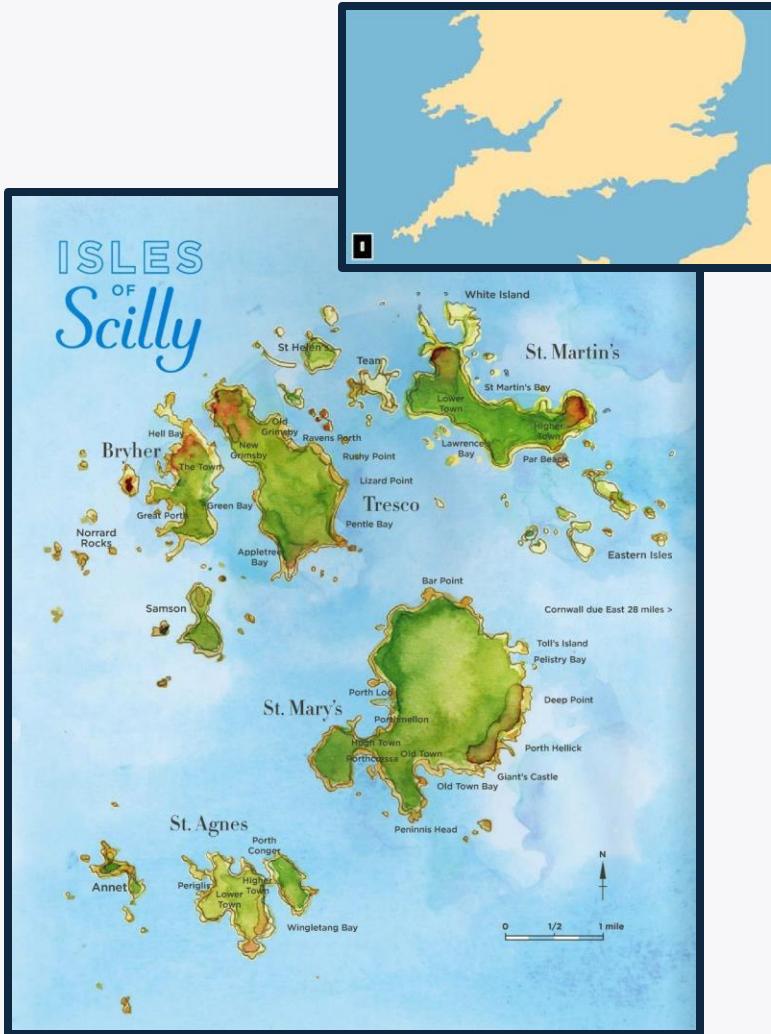
# Life-history theory



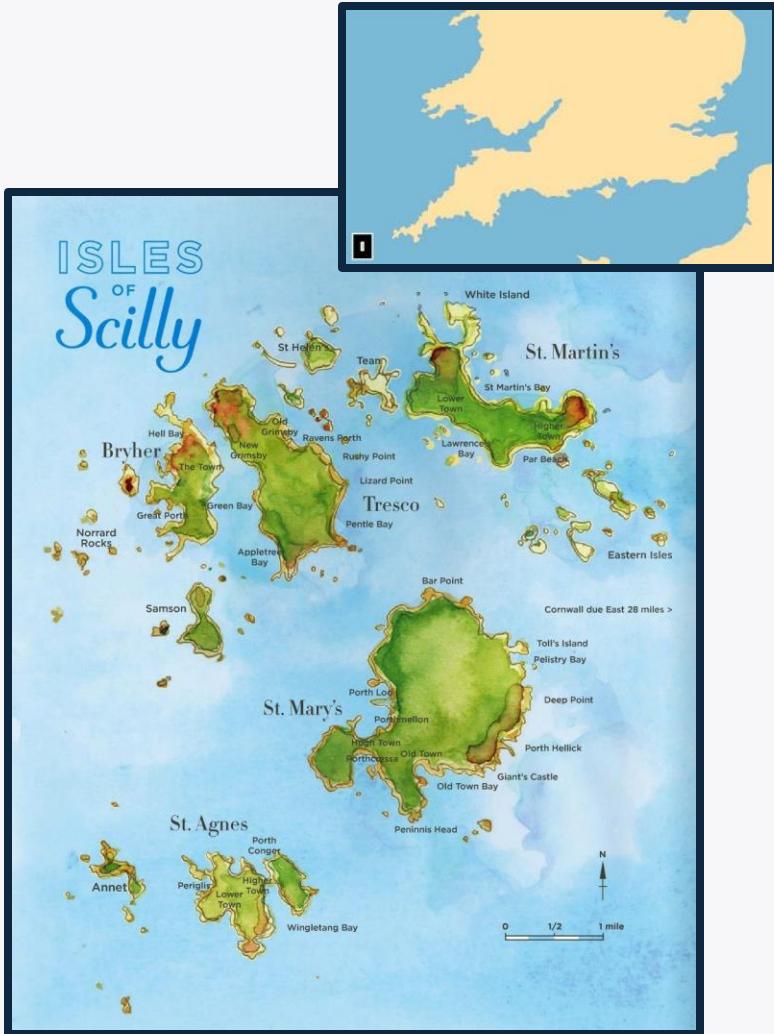
# Isles of Scilly: A natural experiment



# Isles of Scilly: A natural experiment



# Isles of Scilly: A natural experiment

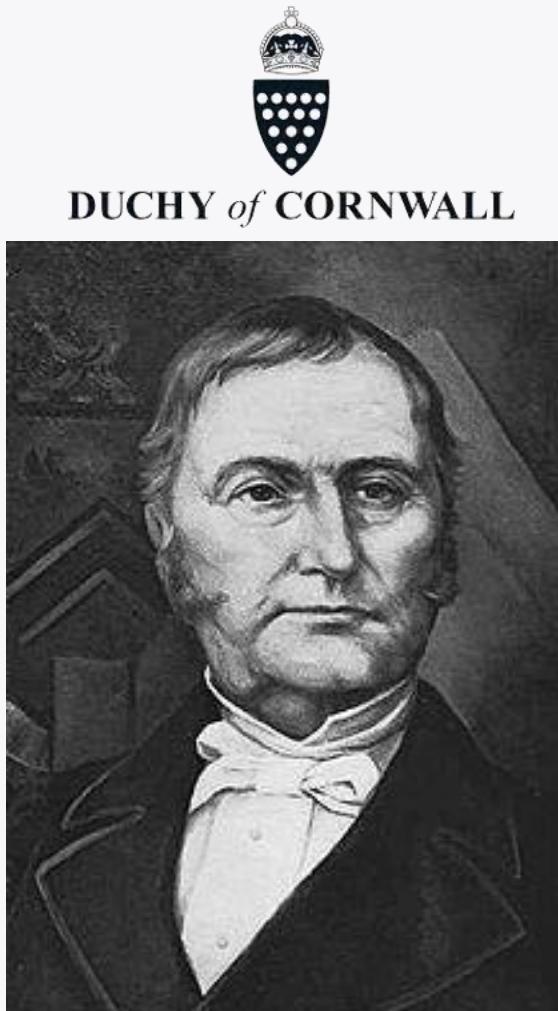
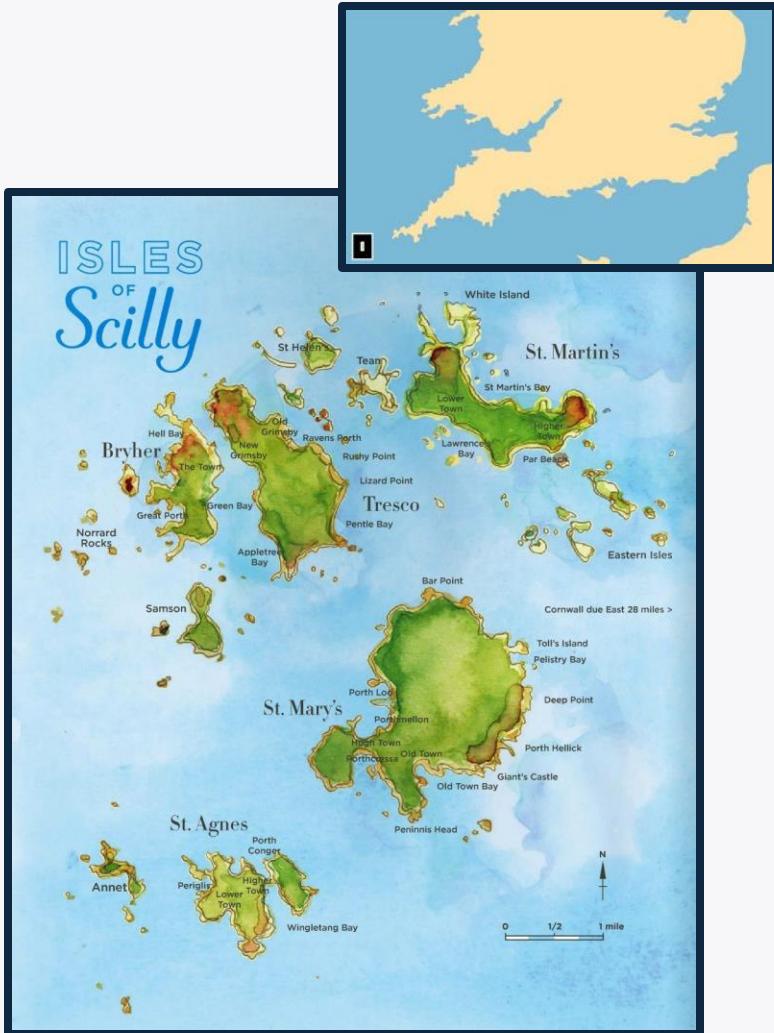


DUCHY of CORNWALL



Augustus Smith  
Lord Proprietor 1834-1872

# Isles of Scilly: A natural experiment



Augustus Smith  
Lord Proprietor 1834-1872



DUCHY of CORNWALL



Education

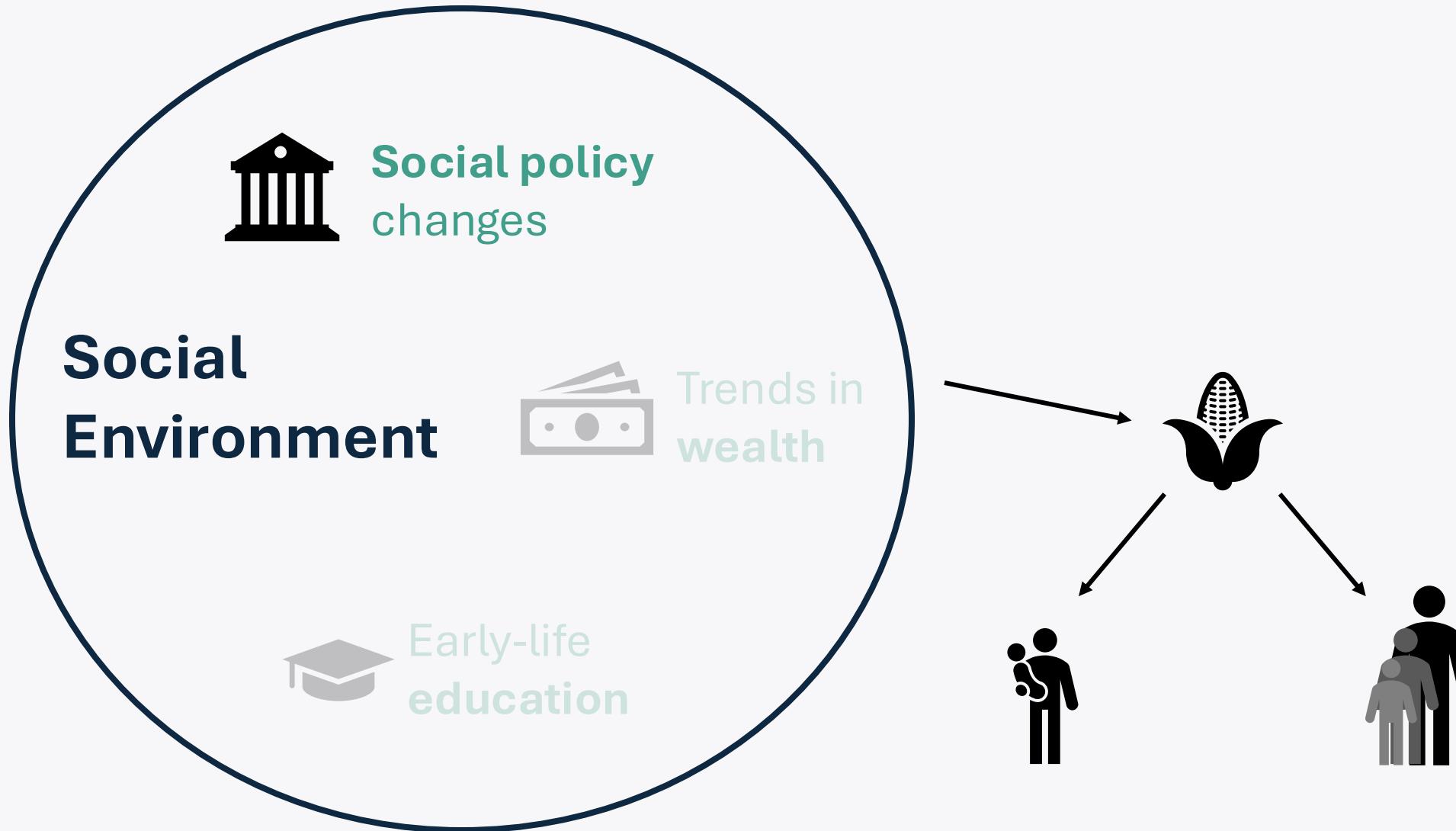


Consolidated plots  
Tenant security



Employment

# 1. The institutional environment and LHS



# 1. The institutional environment and LHS



Education



Food security



Employment

# 1. The institutional environment and LHS



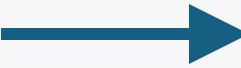
Education



Food security



Employment



Mean age at death ↑



Child mortality ↓



Mean family size ↓

# 1. Lifespans and mortality: memorials + parish deaths



**Deaths**



1637-2002



5134 records



Lifespans and  
child mortality



ISLES OF SCILLY  
**Museum**  
on the move  
Kiernan, Banfield



Diane Donohue  
Pat Wall  
Karen Duvall  
Claudia Richards

# 1. Families: parish births and marriages



Deaths



Births



Marriages



1637-2002

1754-1915

1755-1900



5134 records

6815 records

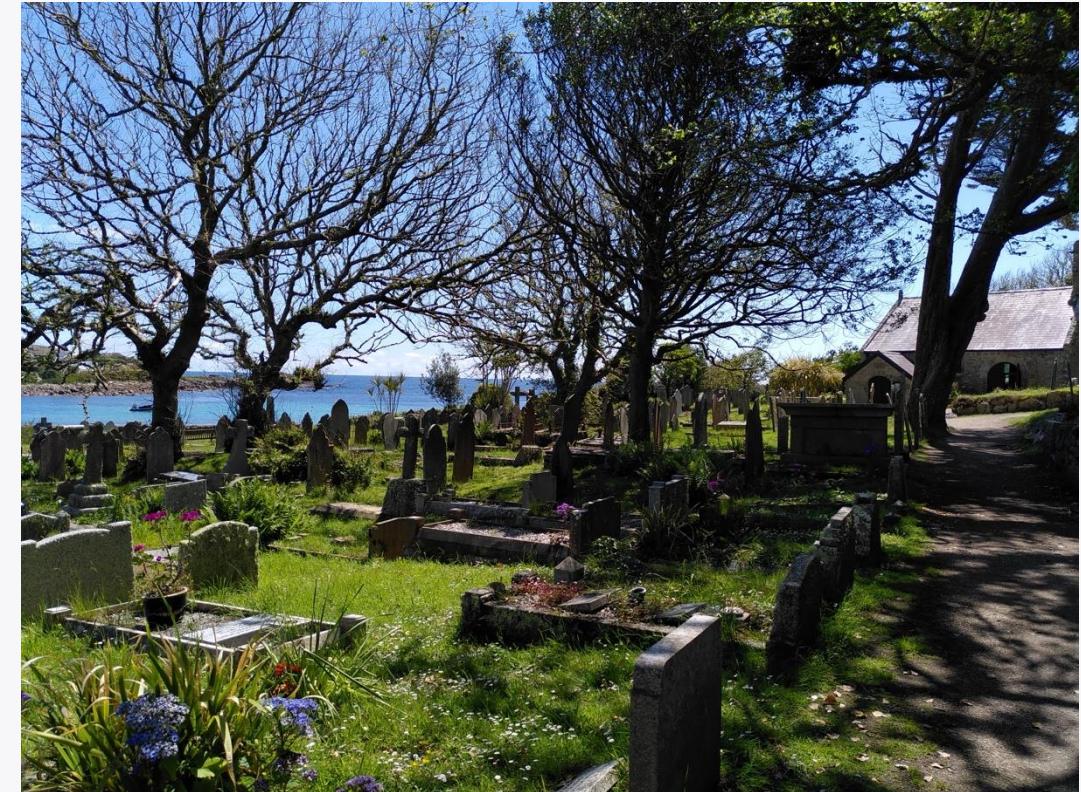
1116 records



Lifespans and  
child mortality

DOB  
Parents

Couple's  
occupations



ISLES OF SCILLY  
**Museum**  
on the move  
Kiernan, Banfield



Diane Donohue  
Pat Wall  
Karen Duvall  
Claudia Richards

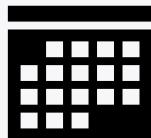
# 1. Families: parish births and marriages



Deaths



Families



1637-2002

1754-1915



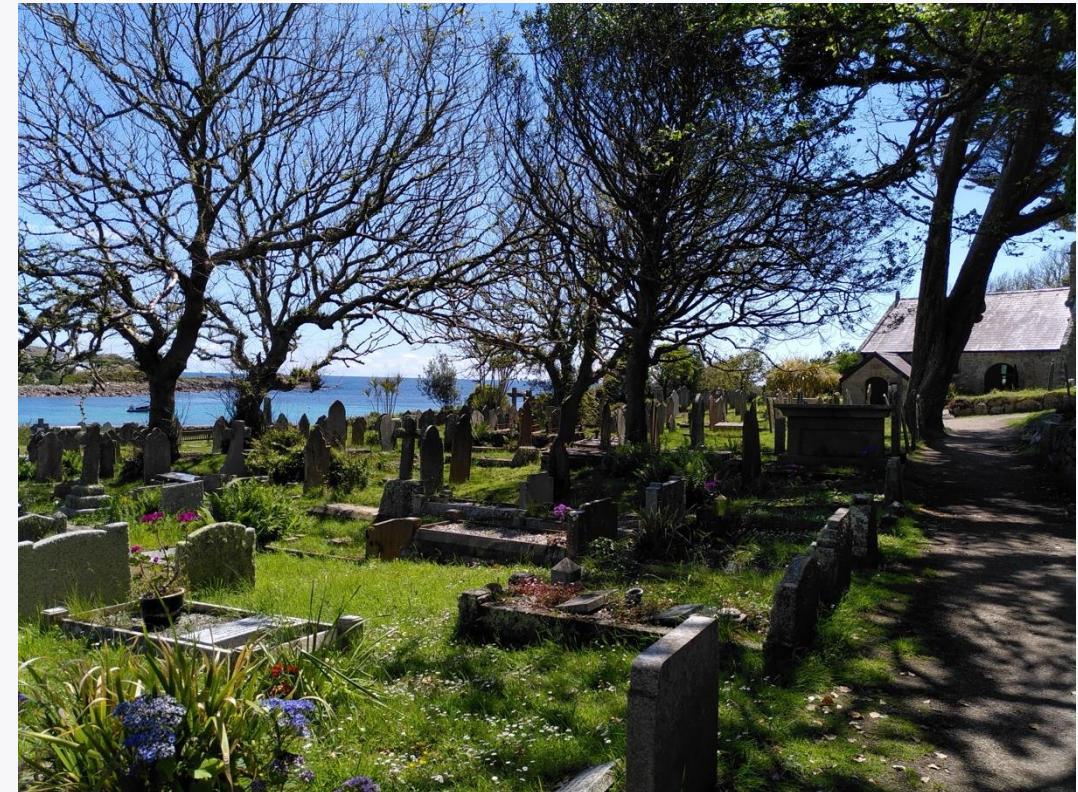
5134 records

2540 families



Lifespan and  
child mortality

Parents & occupations, years  
of births, no. children



ISLES OF SCILLY  
**Museum**  
on the move  
Kiernan, Banfield



Diane Donohue  
Pat Wall  
Karen Duvall  
Claudia Richards



# 1. Interrupted time series

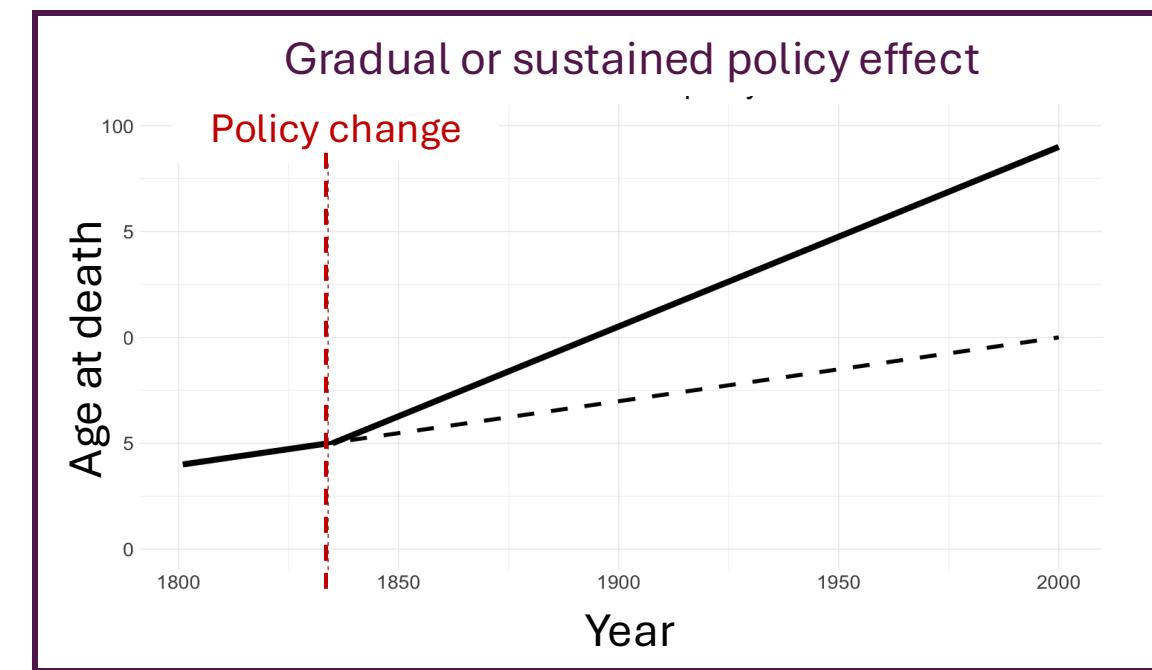
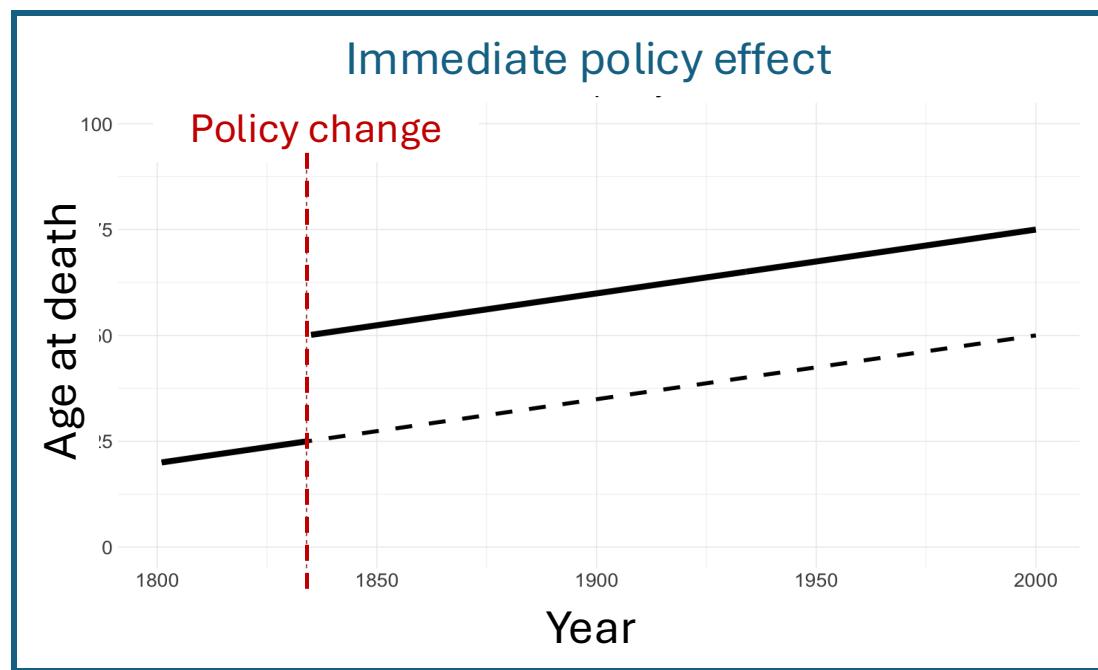
$$Y_t = \beta_0 + \beta_1 T + \beta_2 X + \beta_3 TE + e_t$$

Outcome at time  $t$  ←

Pre-intervention intercept and trend ←

Level change →

Post-intervention trend change →





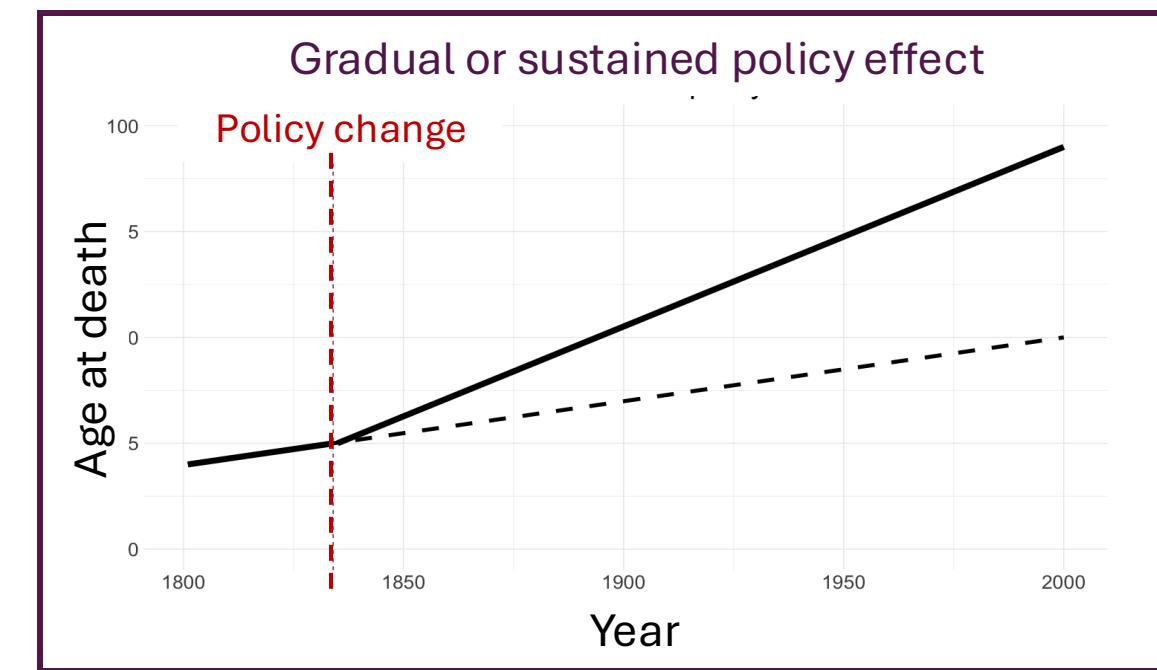
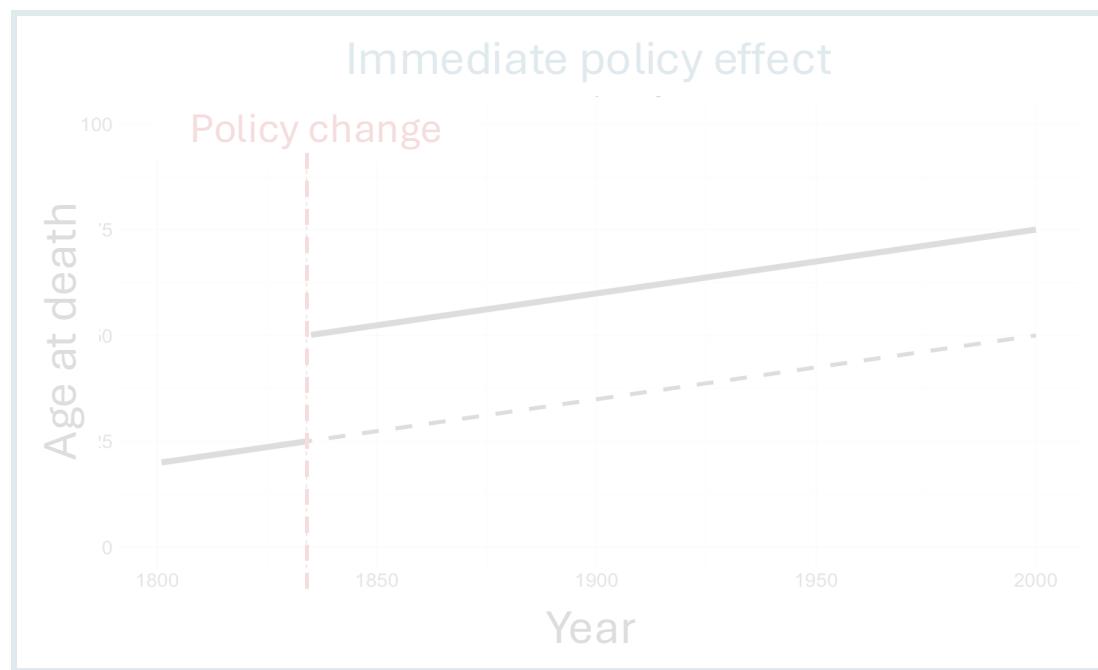
# 1. Interrupted time series

$$\text{Outcome at time } t \leftarrow Y_t = \beta_0 + \beta_1 T + \beta_2 X + \beta_3 TE + e_t$$

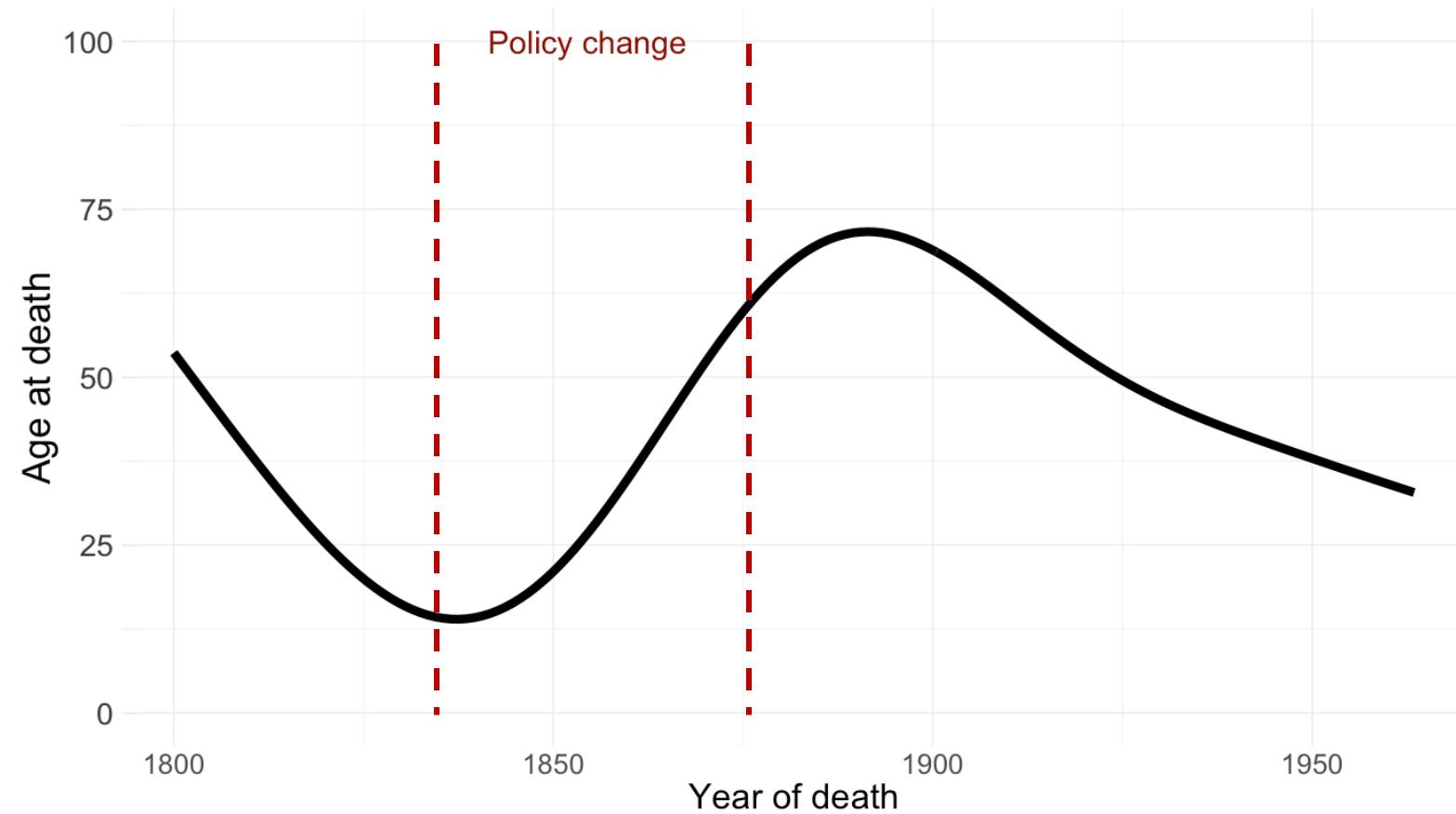
Pre-intervention  
intercept and trend

Level change

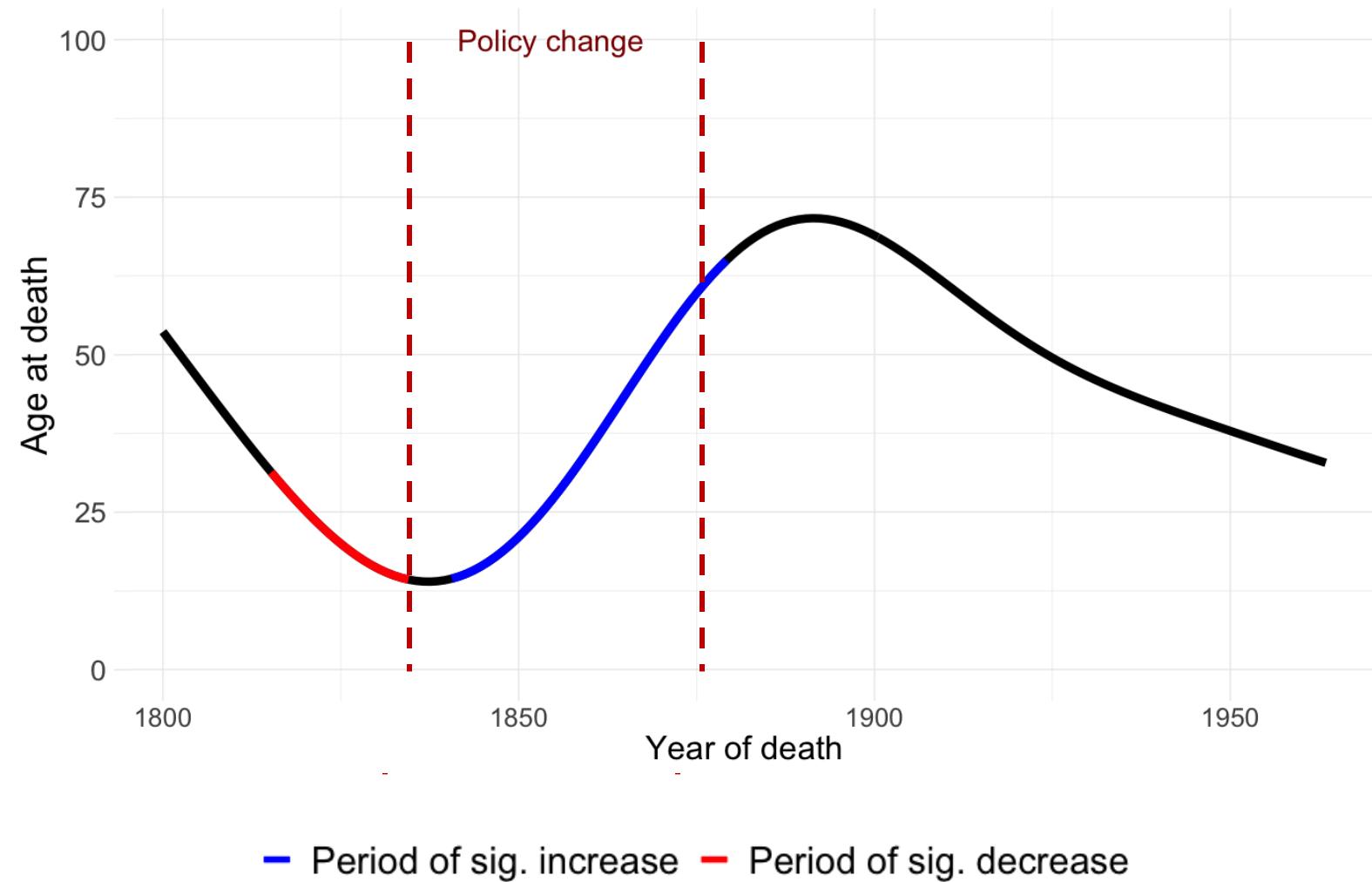
Post-intervention trend change



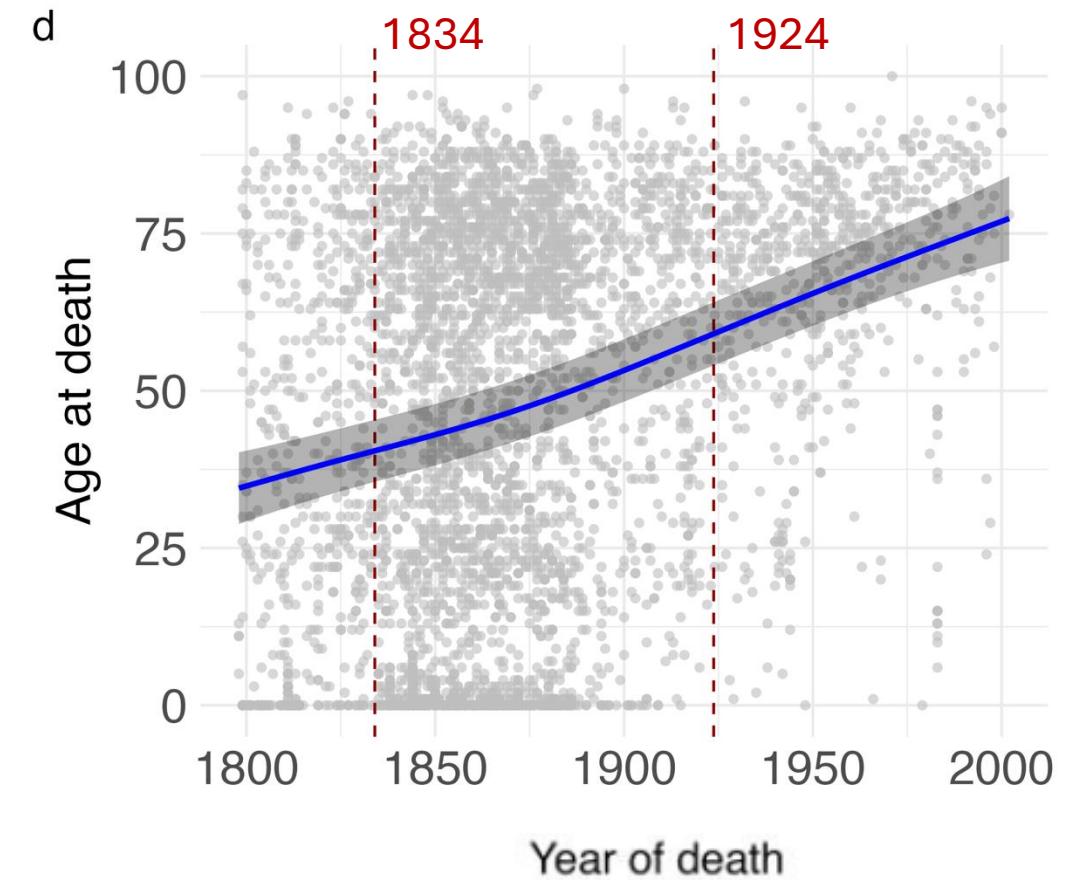
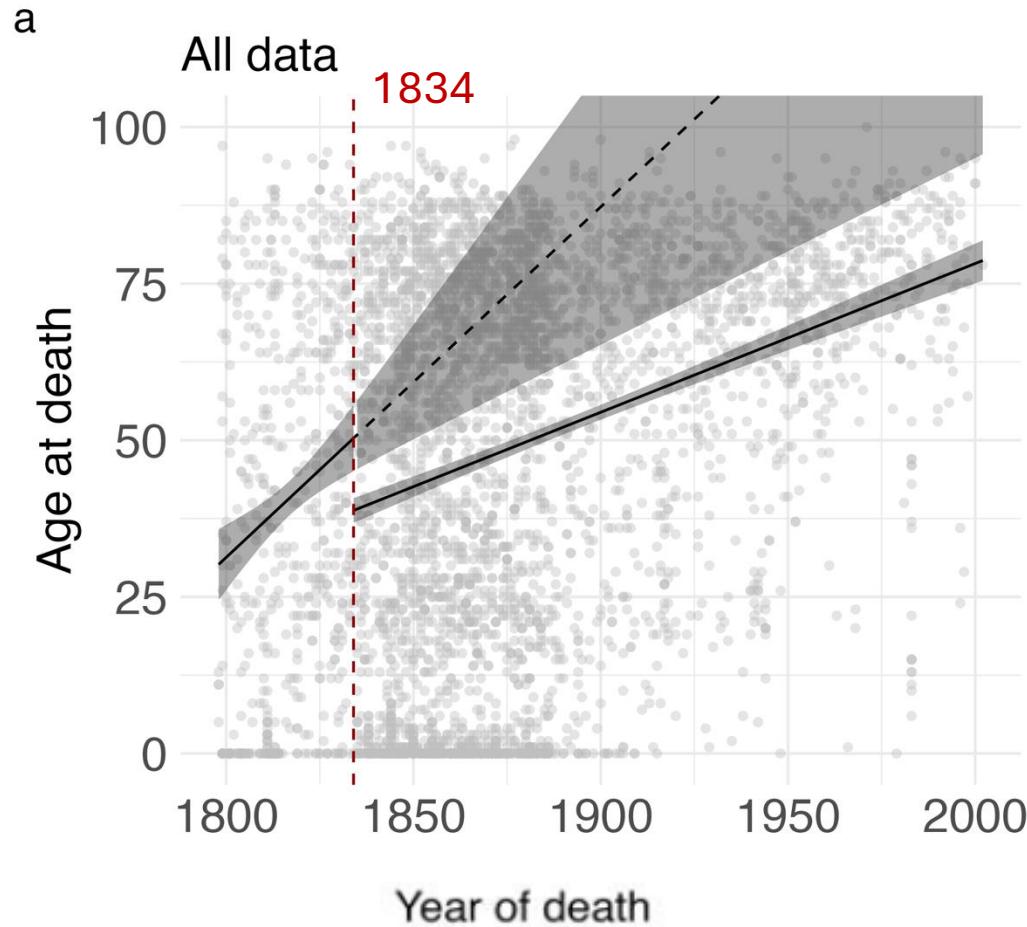
# 1. Generalised additive model (GAM)



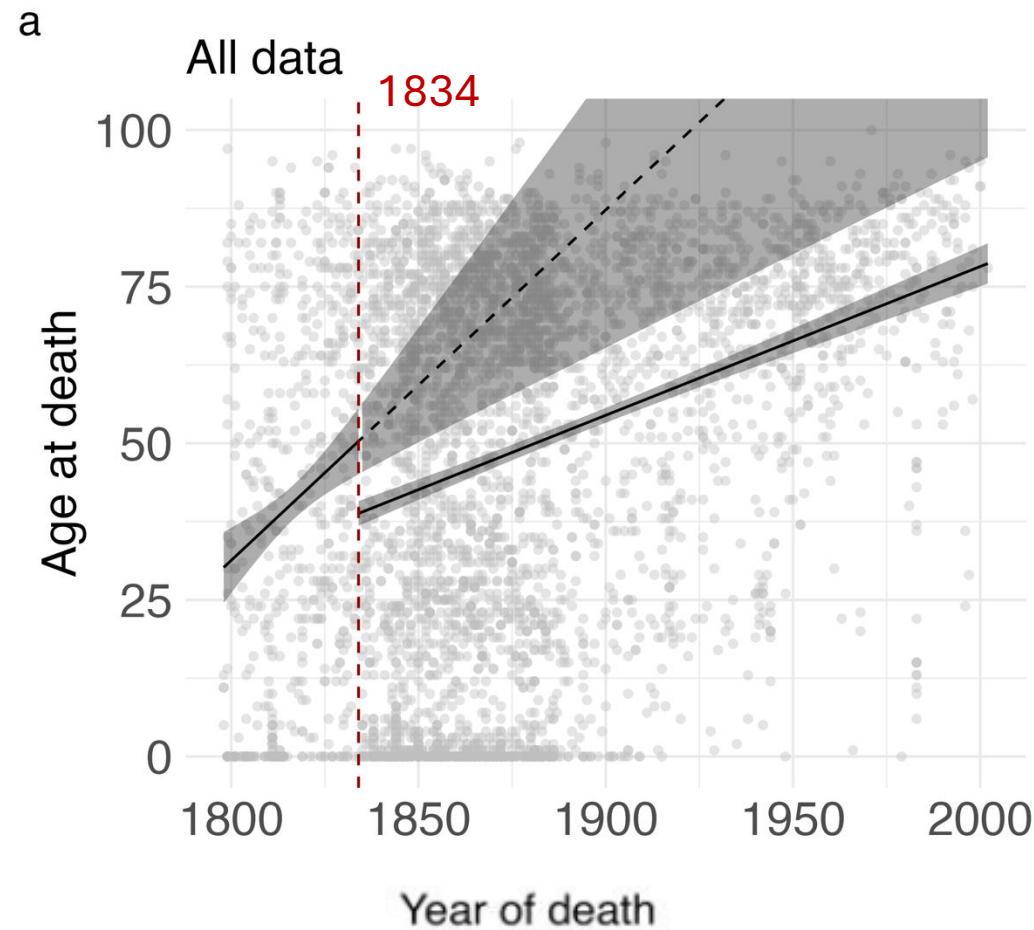
# 1. Generalised additive model (GAM)



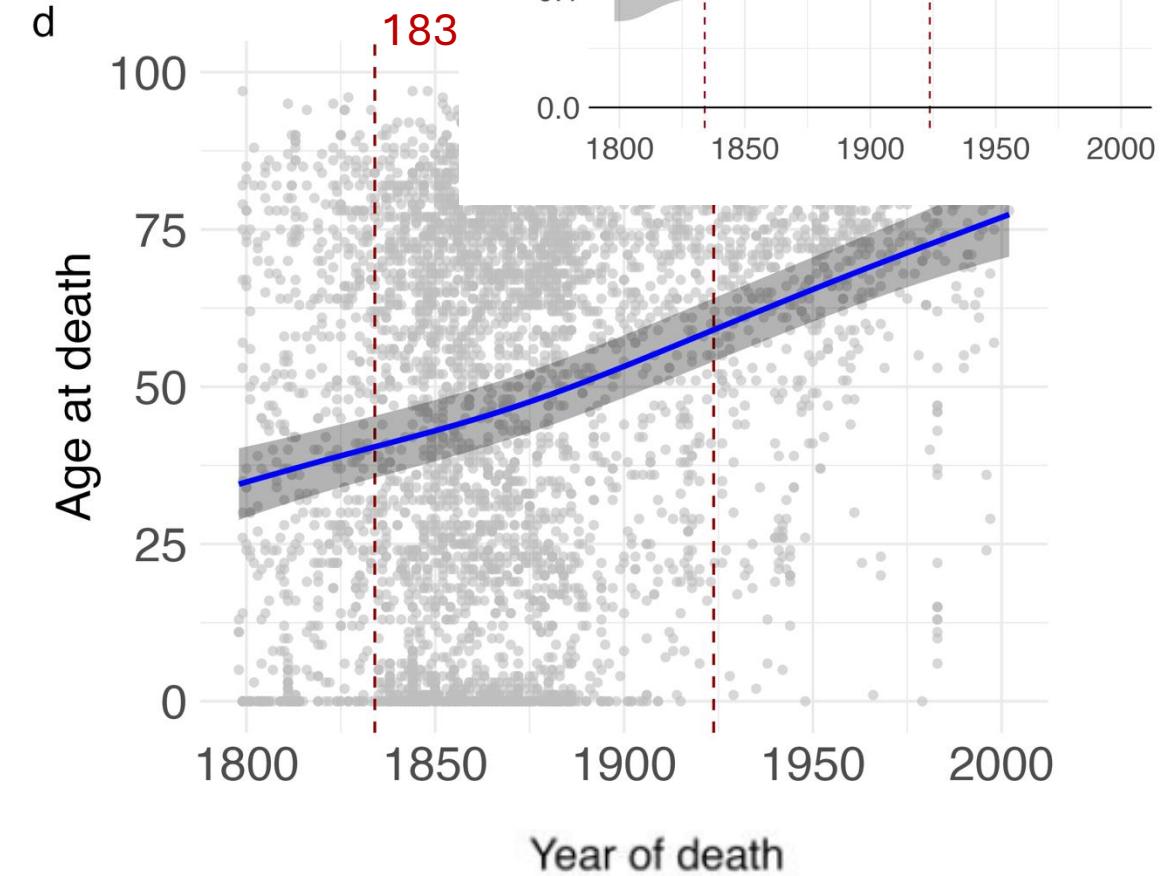
# 1. Lifespan ITS & GAM



# 1. Lifespan ITS & GAM

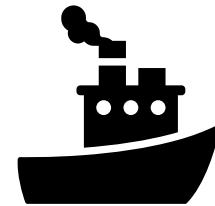


ITS -- Counterfactual — Predicted values

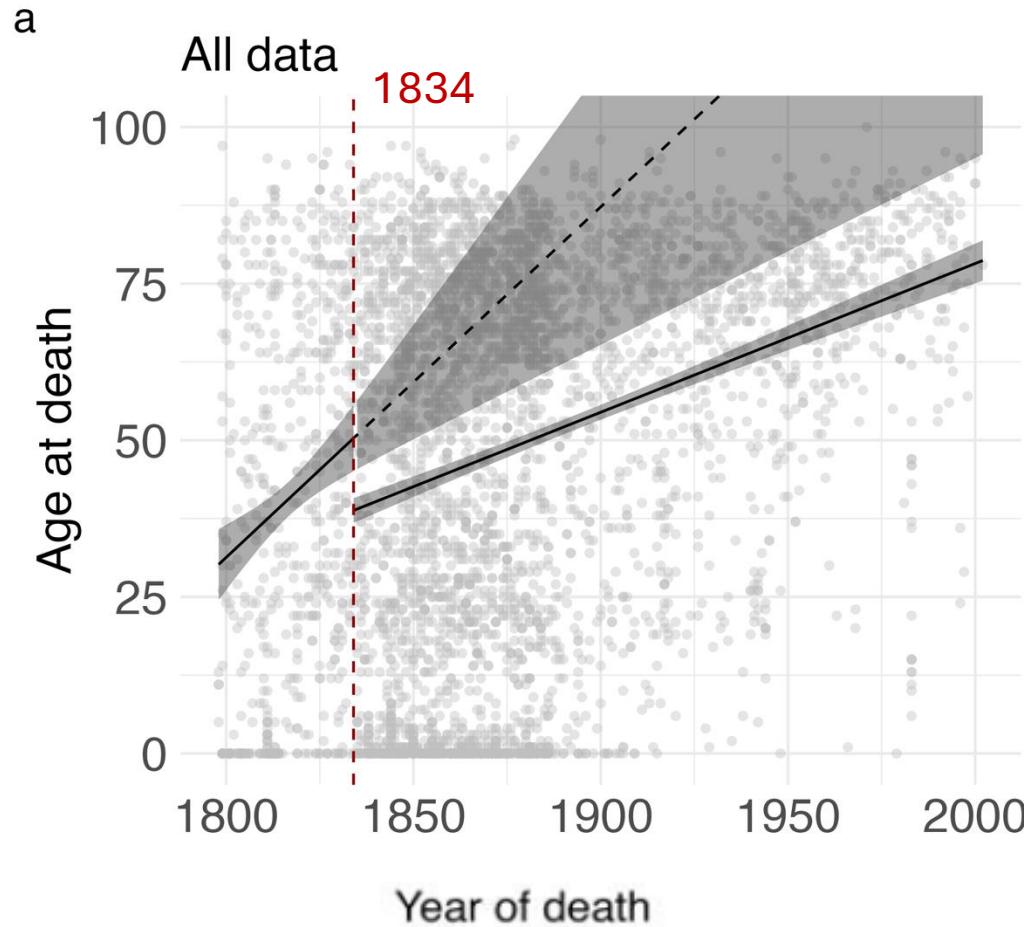


GAM — Significant increase — Significant decrease

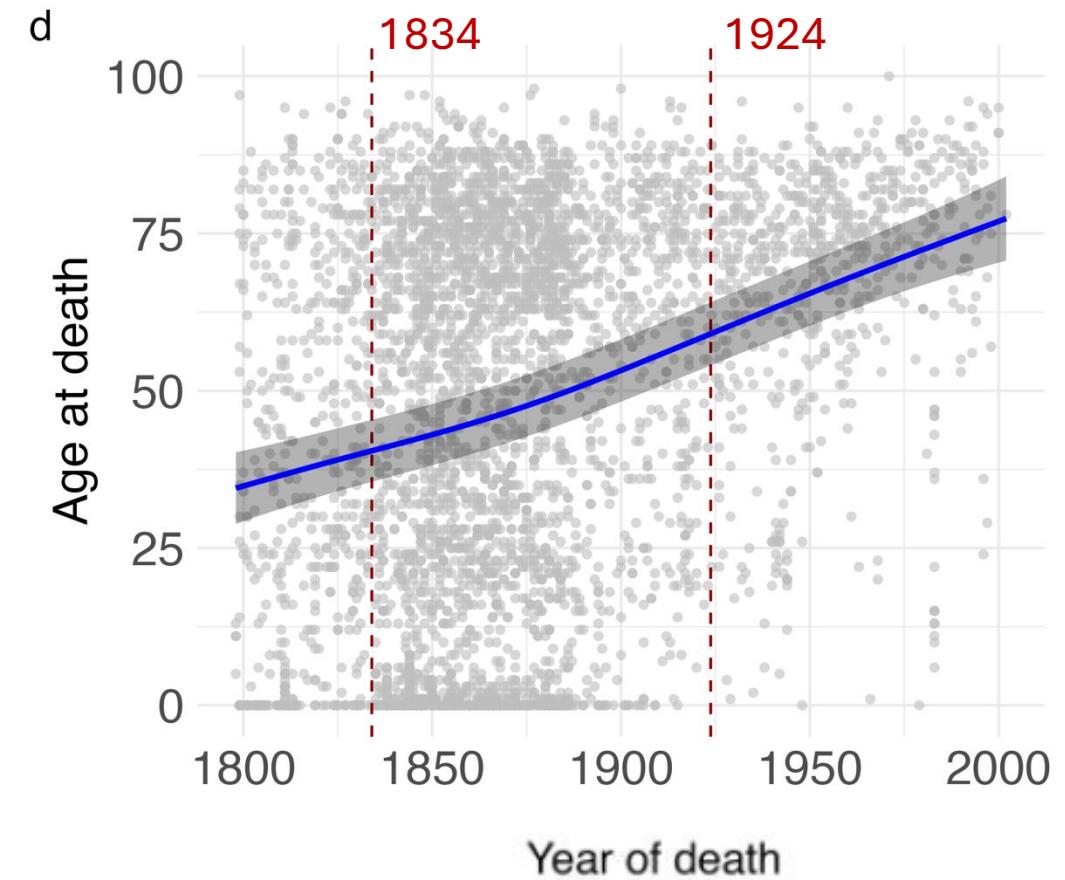
# 1. Lifespan ITS & GAM



Migration?

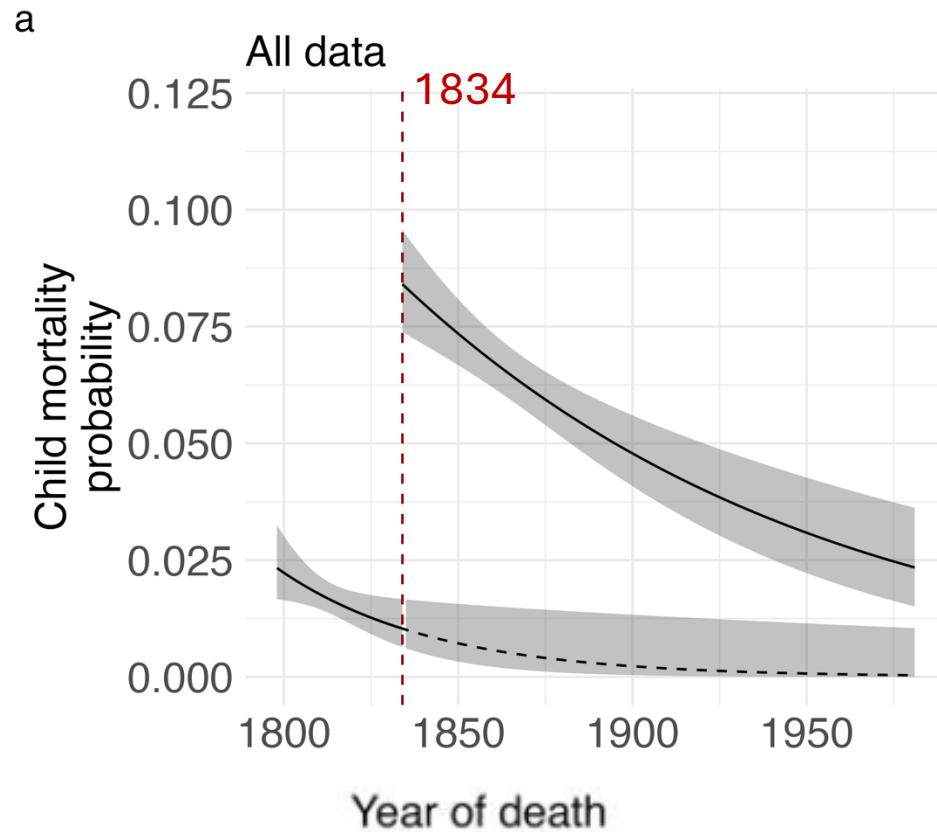


ITS -- Counterfactual — Predicted values

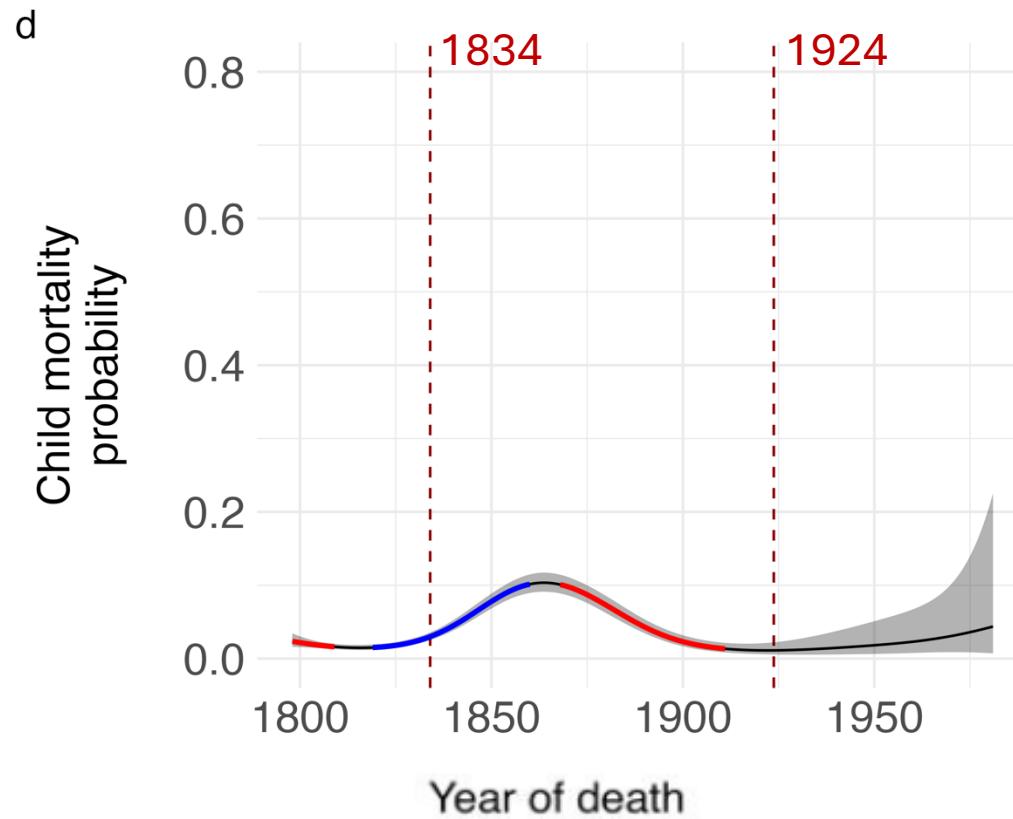


GAM — Significant increase — Significant decrease

# 1. Child mortality ITS & GAM

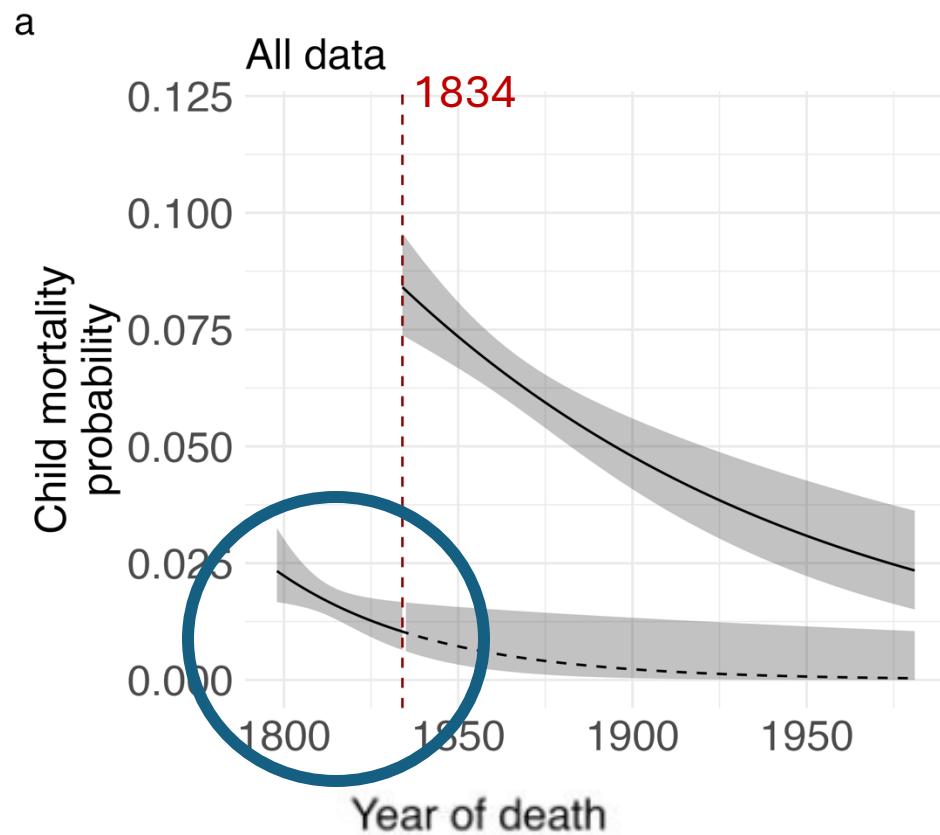


ITS -- Counterfactual — Predicted values

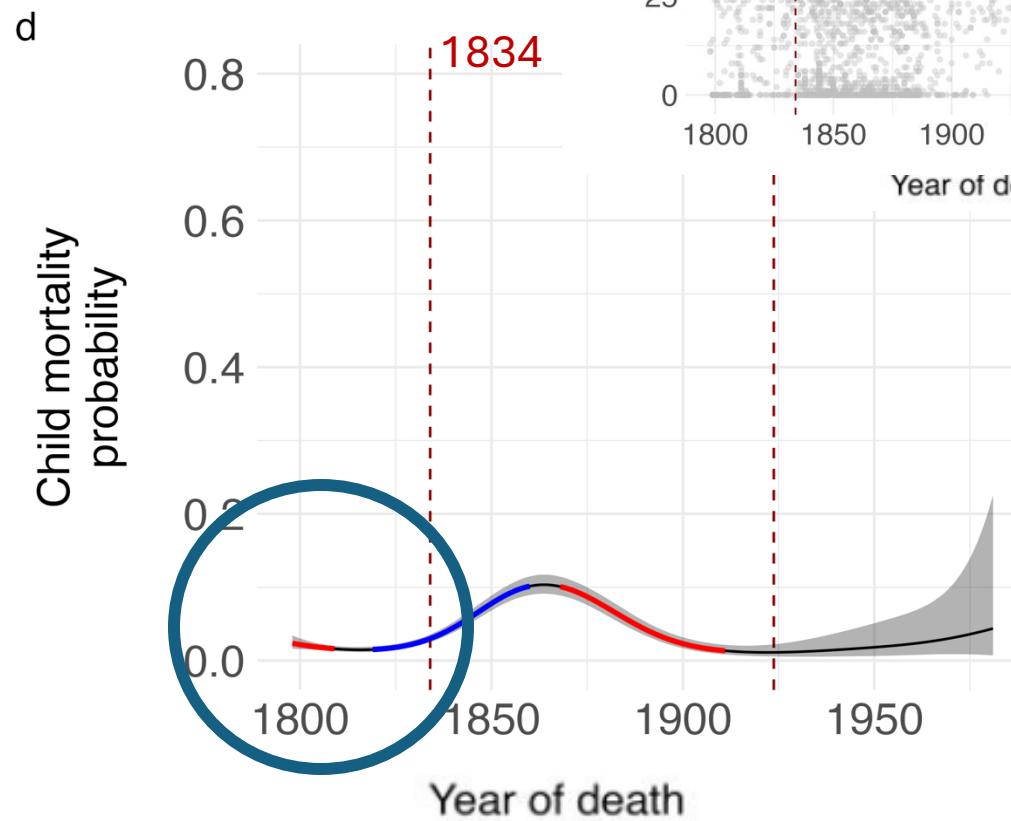


GAM — Significant increase — Significant decrease

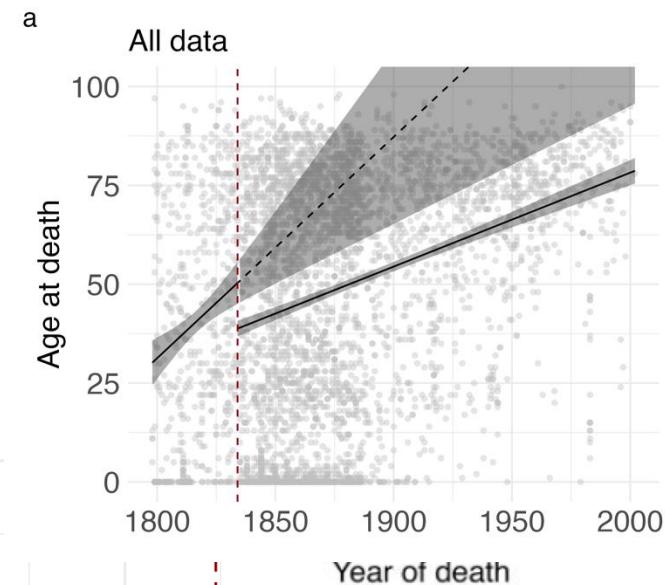
# 1. Child mortality ITS & GAM



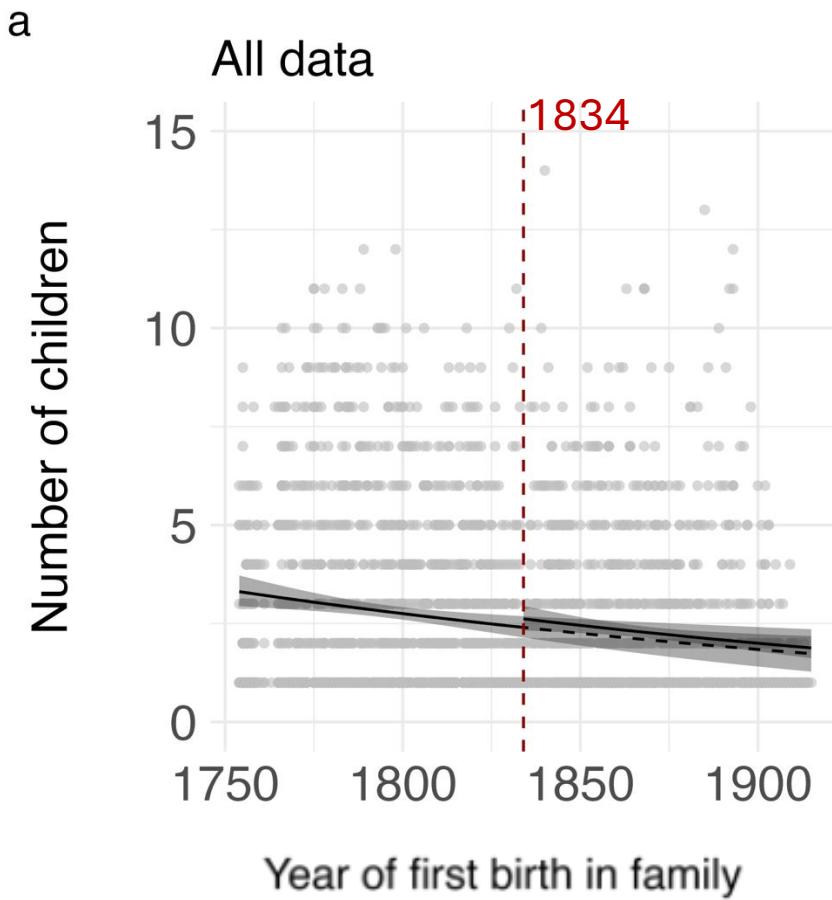
ITS -- Counterfactual — Predicted values



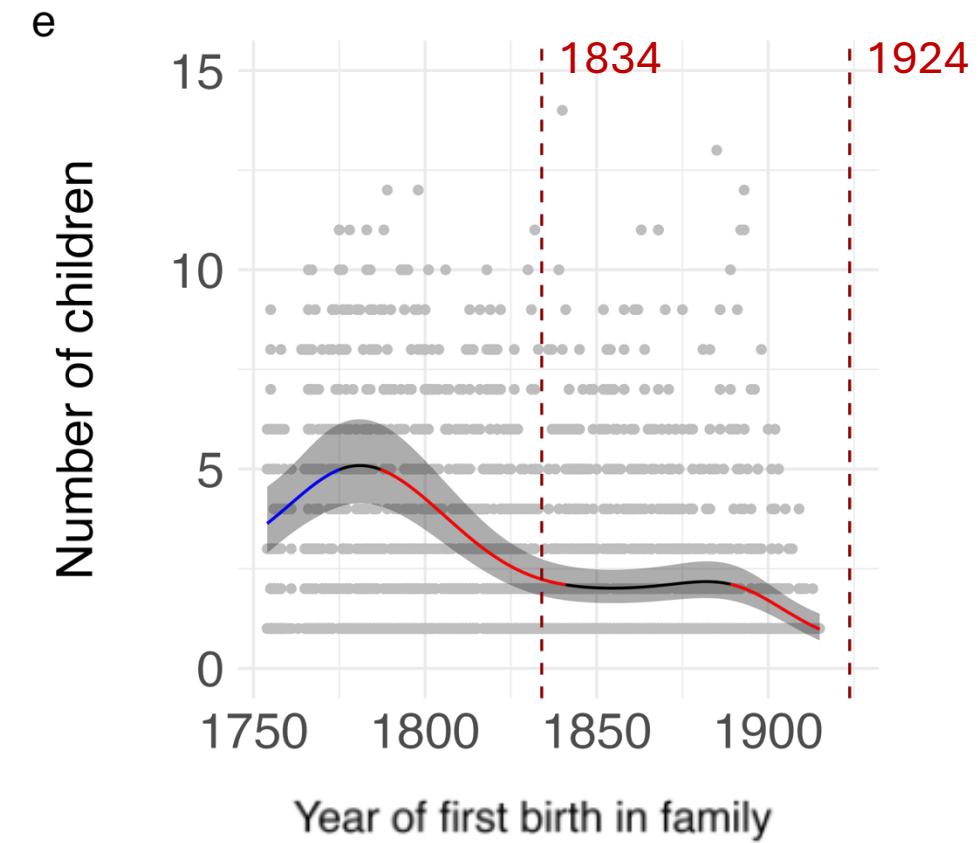
GAM — Significant increase — Significant decrease



# 1. Family size ITS & GAM

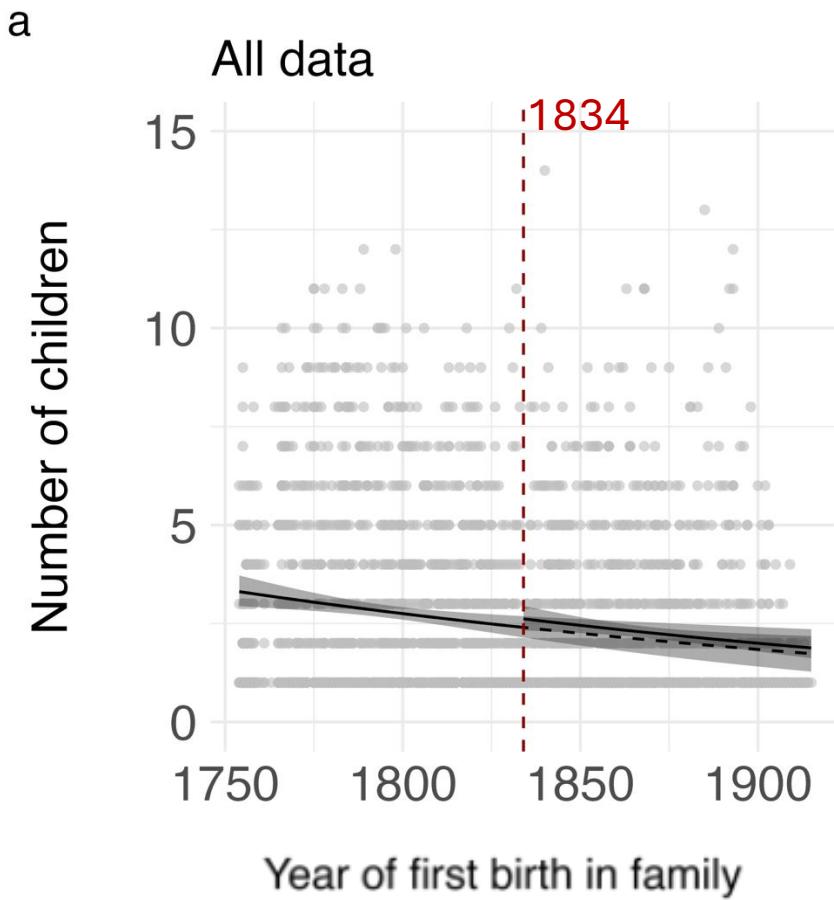


ITS -- Counterfactual — Predicted values

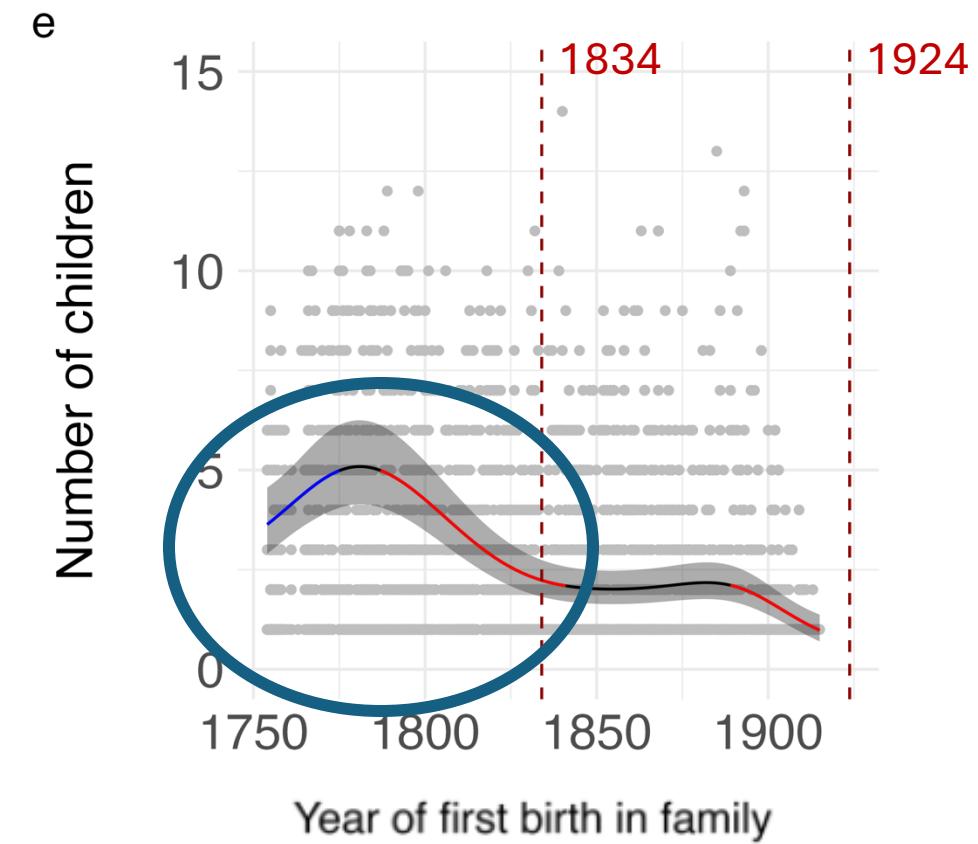


GAM — Significant increase — Significant decrease

# 1. Family size ITS & GAM

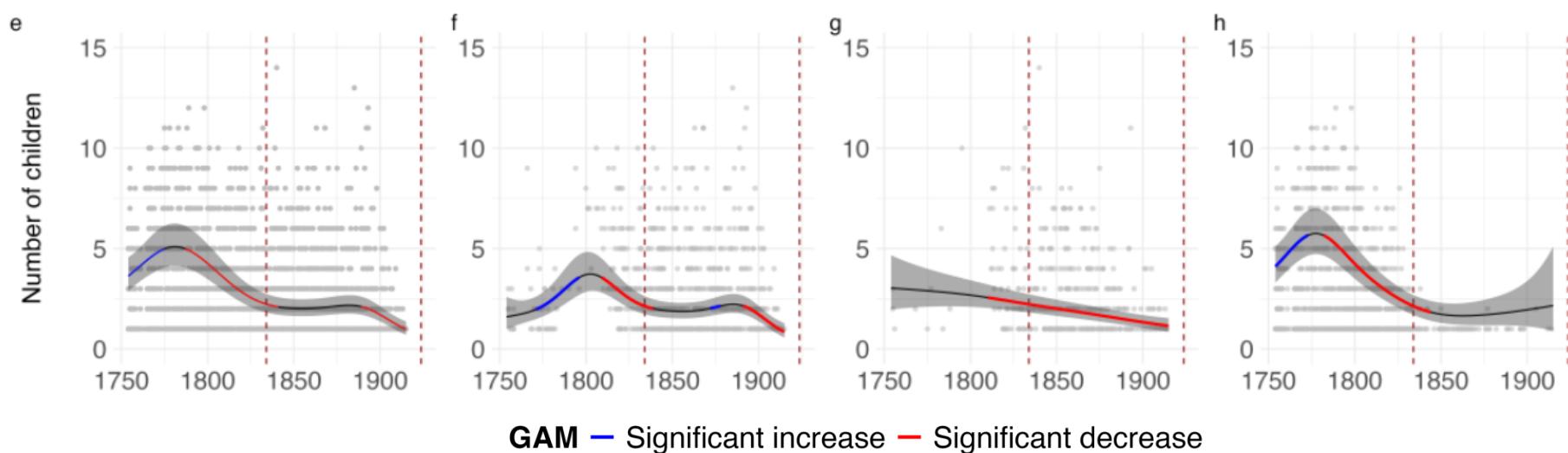
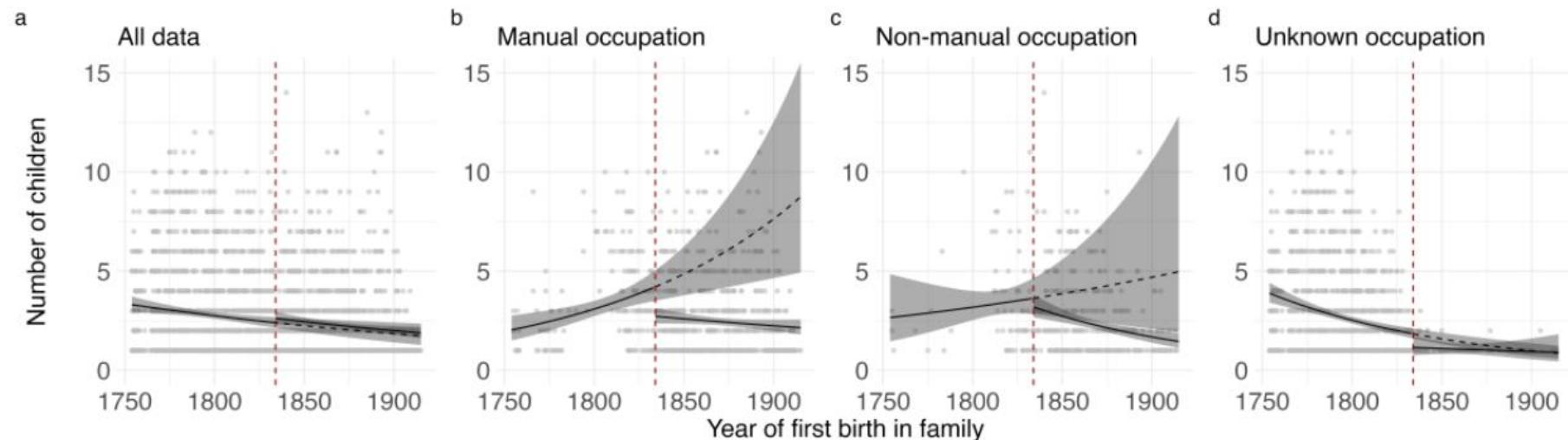


ITS -- Counterfactual — Predicted values

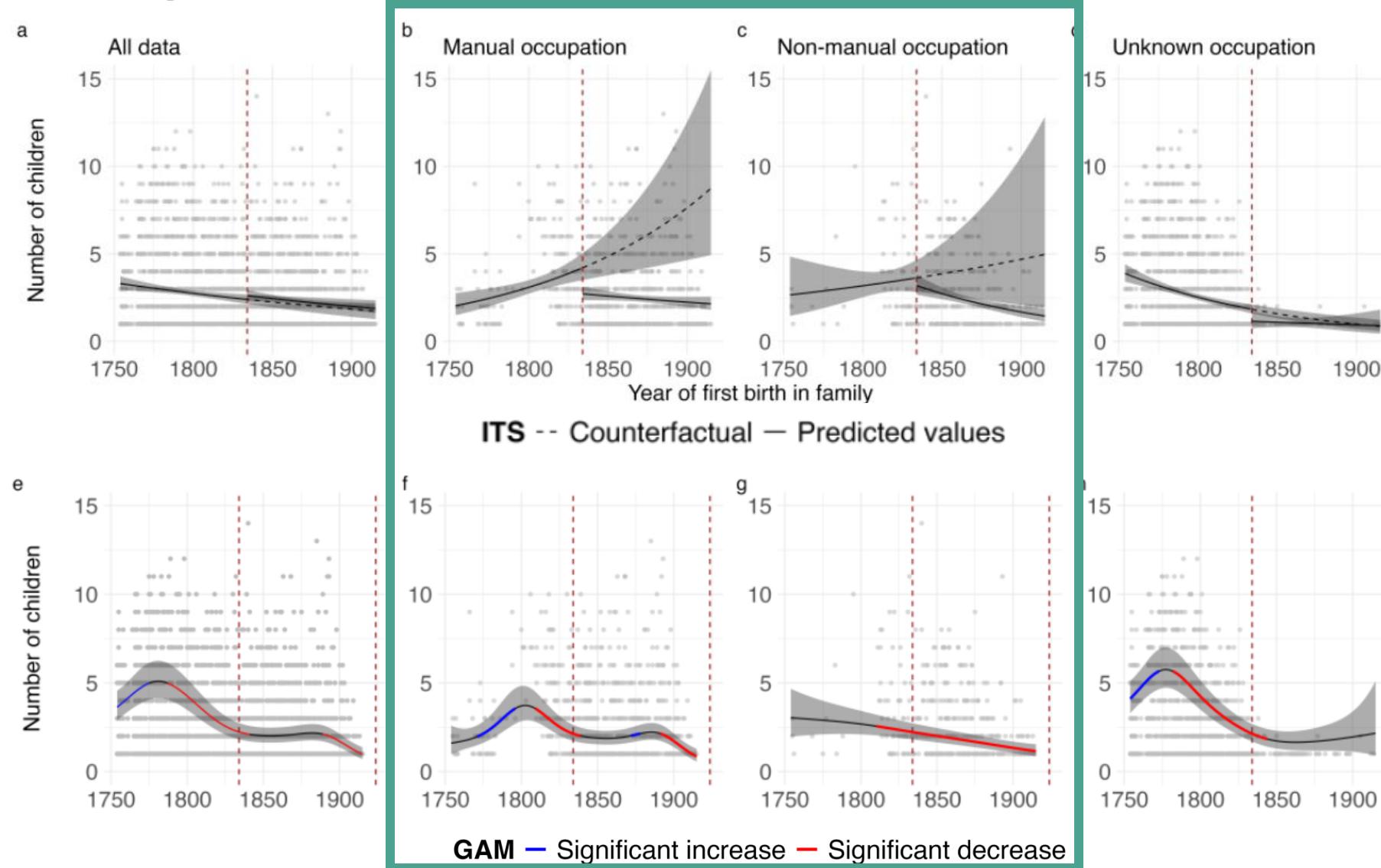


GAM — Significant increase — Significant decrease

# 1. Family size ITS & GAM



# 1. Family size ITS & GAM



# 1. The institutional environment and LHS



Mean age at death ↑



Child mortality ↓



Mean family size ↓

# 1. The institutional environment and LHS



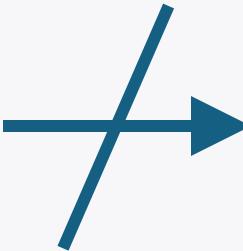
Education



Food security



Employment



Mean age at death ↑



Child mortality ↓



Mean family size ↓

# 1. The institutional environment and LHS

- Harsh pre-policy conditions  $\neq$  falling lifespans, rising child mortality or increasing family size



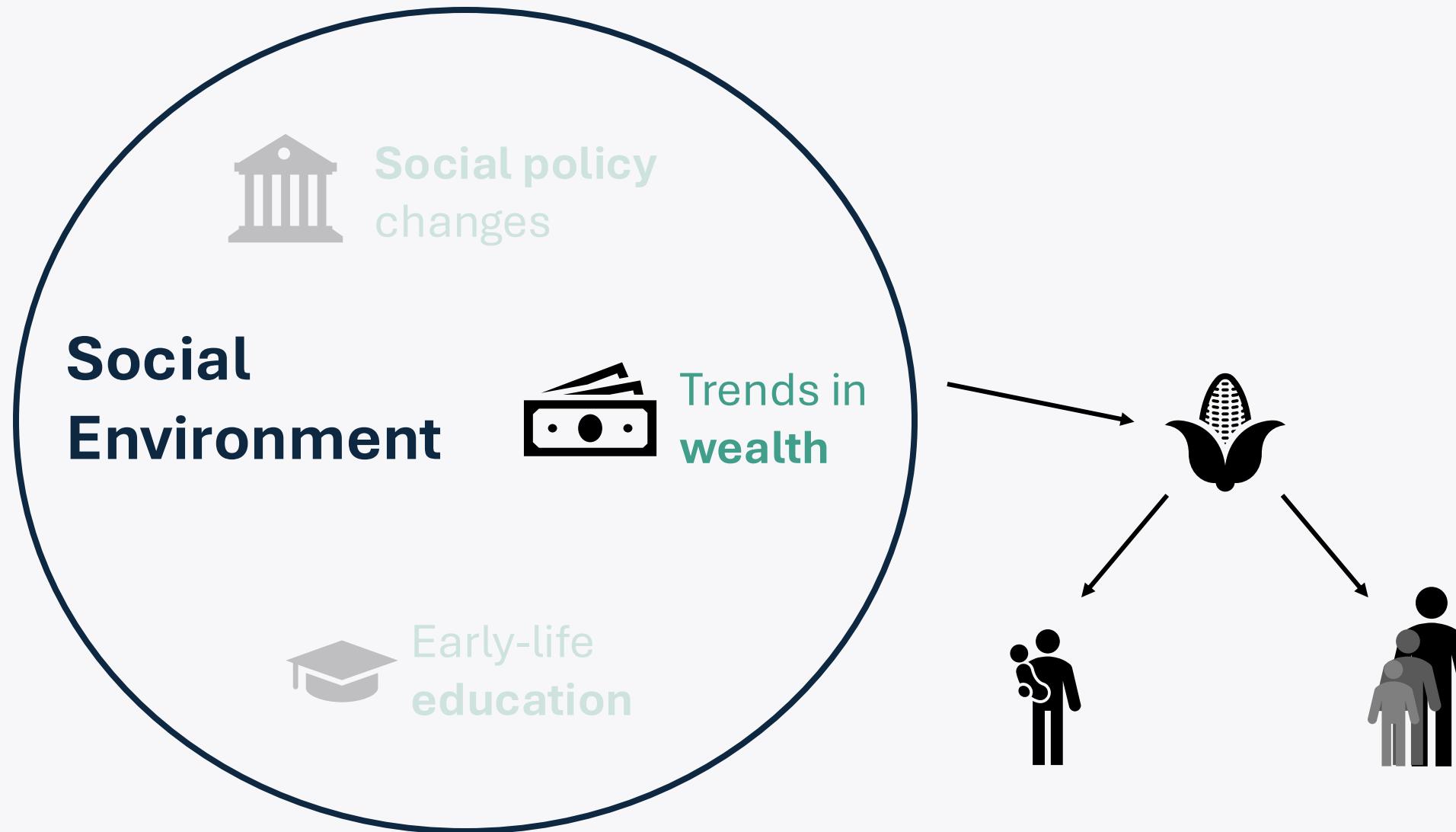
Behavioural  
flexibility



Record keeping  
practices

- Policies may have improved local living standards and economy
- But are not clearly linked to human life-histories

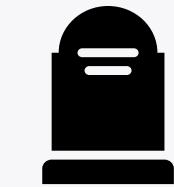
## 2. Disentangling trends in wealth



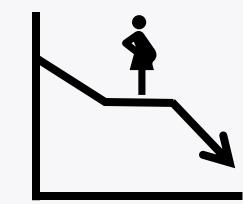
## 2. Wealth: economic resources



Improved  
health  
Longer  
lifespans



Lower  
mortality

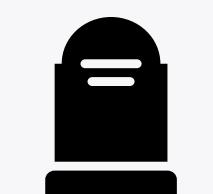


Smaller  
family  
size (post-  
transition)

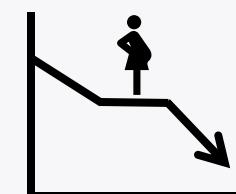
## 2. Wealth: economic resources



Improved  
health  
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transition)

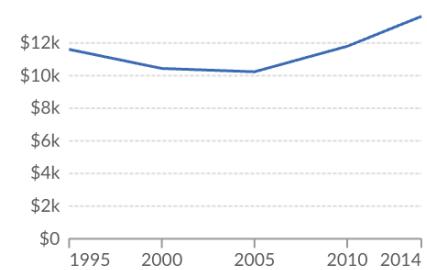
### Total wealth per capita, by income groups, 1995 to 2014

Total wealth is calculated by the World Bank as the sum of natural capital, produced capital, human capital, and net foreign assets.

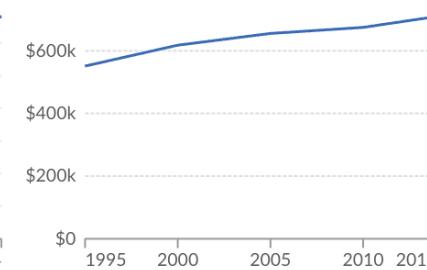
Table Chart

Our World  
in Data

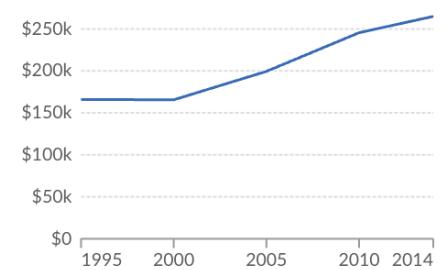
Low income



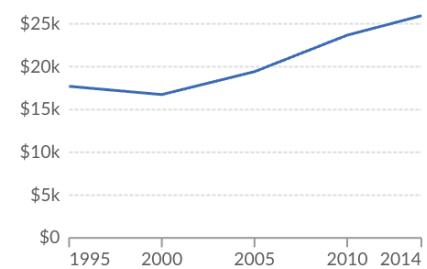
High income: OECD



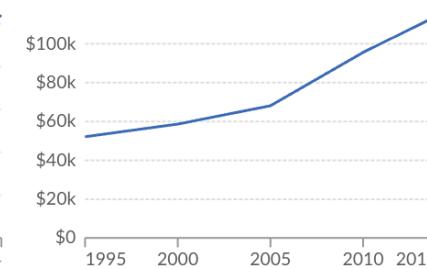
High income: non-OECD



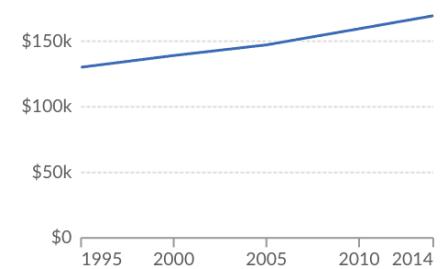
Lower middle income



Upper middle income



World



1995 2014

Data source: World Bank – [Learn more about this data](#)  
OurWorldInData.org/the-missing-economic-measure-wealth | CC BY

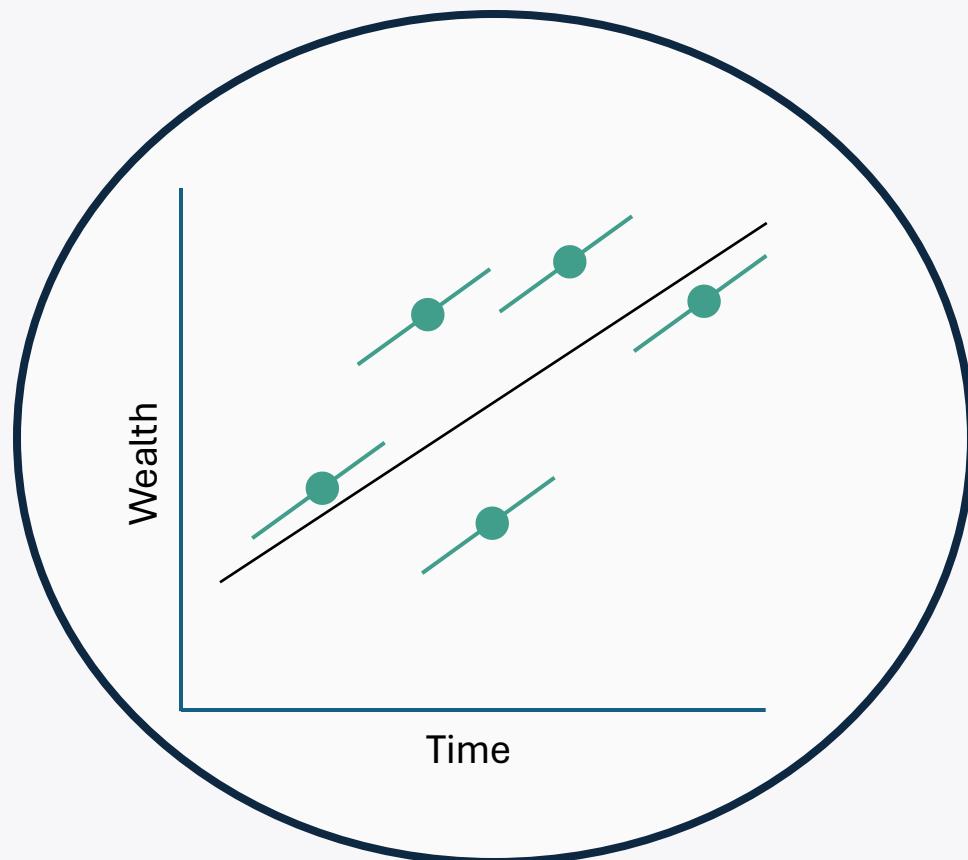
Download

Share

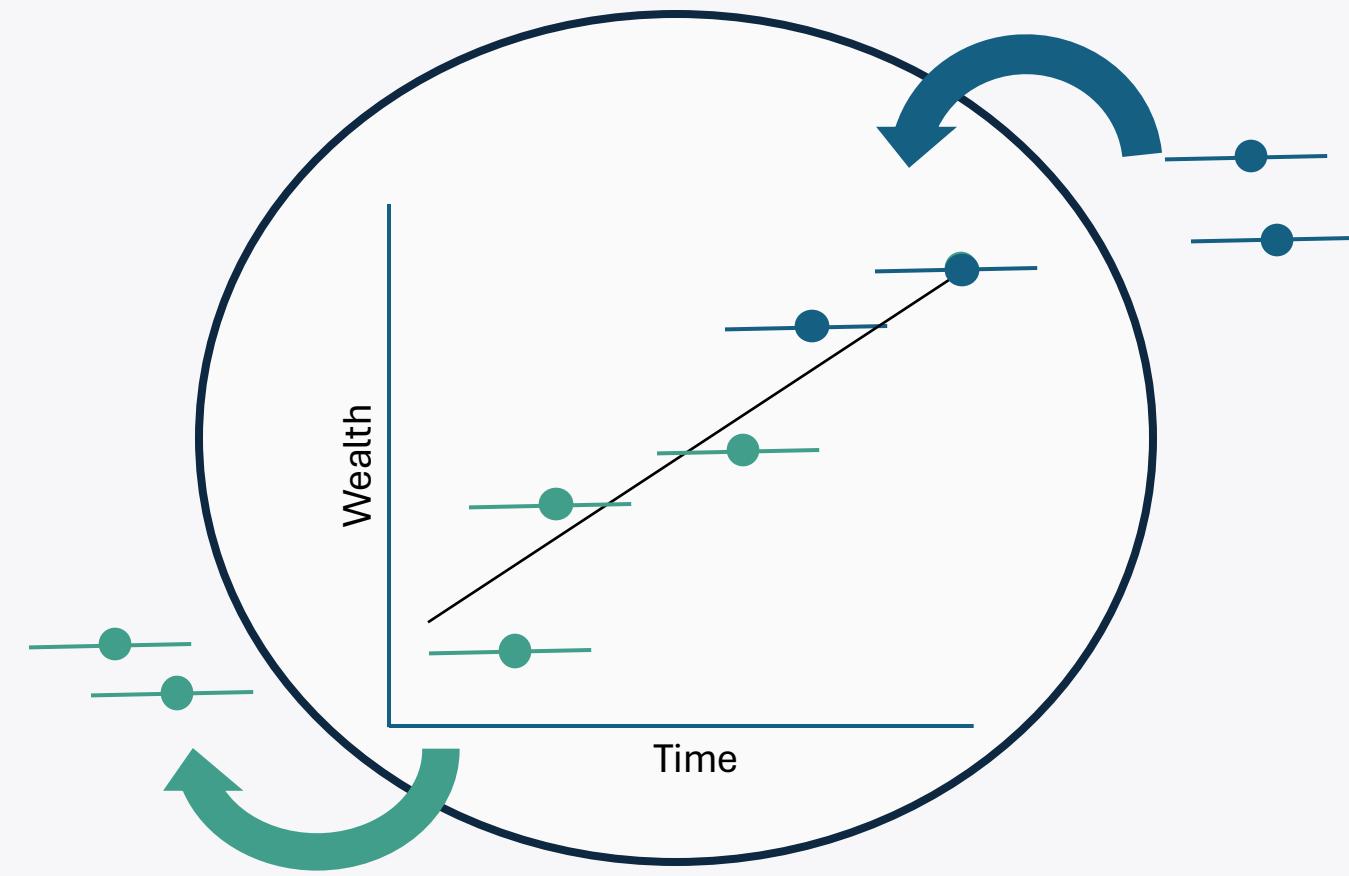
Enter full-screen

## 2. But are households getting wealthier?

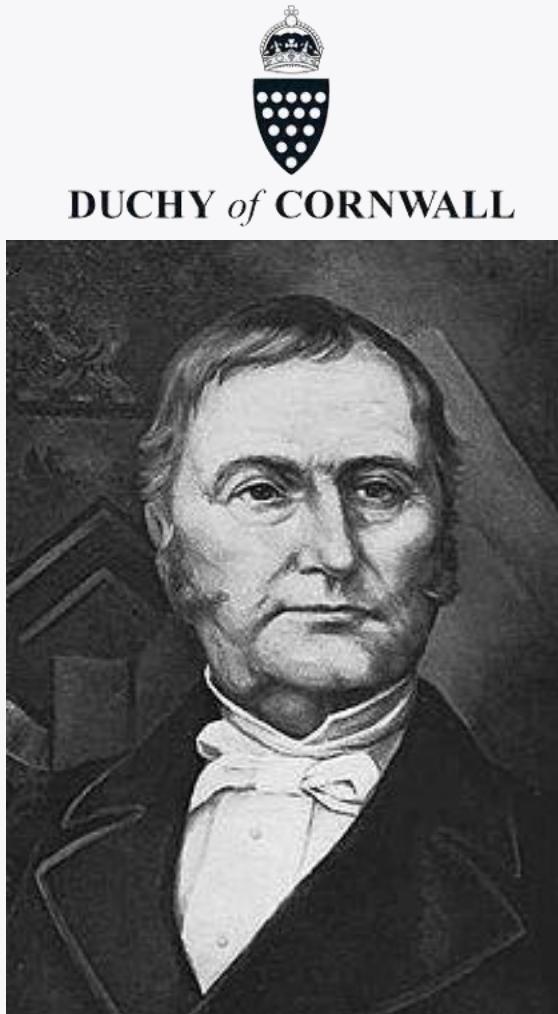
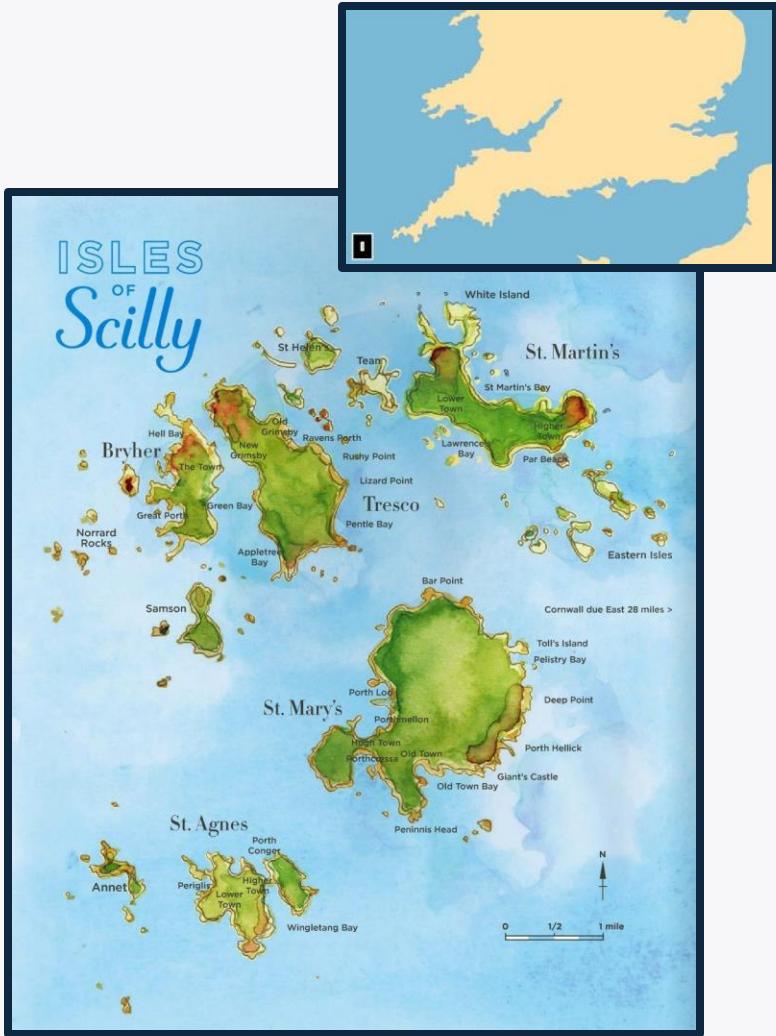
Households becoming wealthier



Change in population composition



## 2. Rent records



Augustus Smith  
Lord Proprietor 1834-1872



DUCHY of CORNWALL

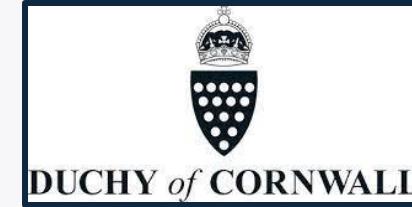


Rents as a proxy  
for wealth



Comprehensive  
records

## 2. Rent records



# 2. Rent records



3246 tenancies



1656 households



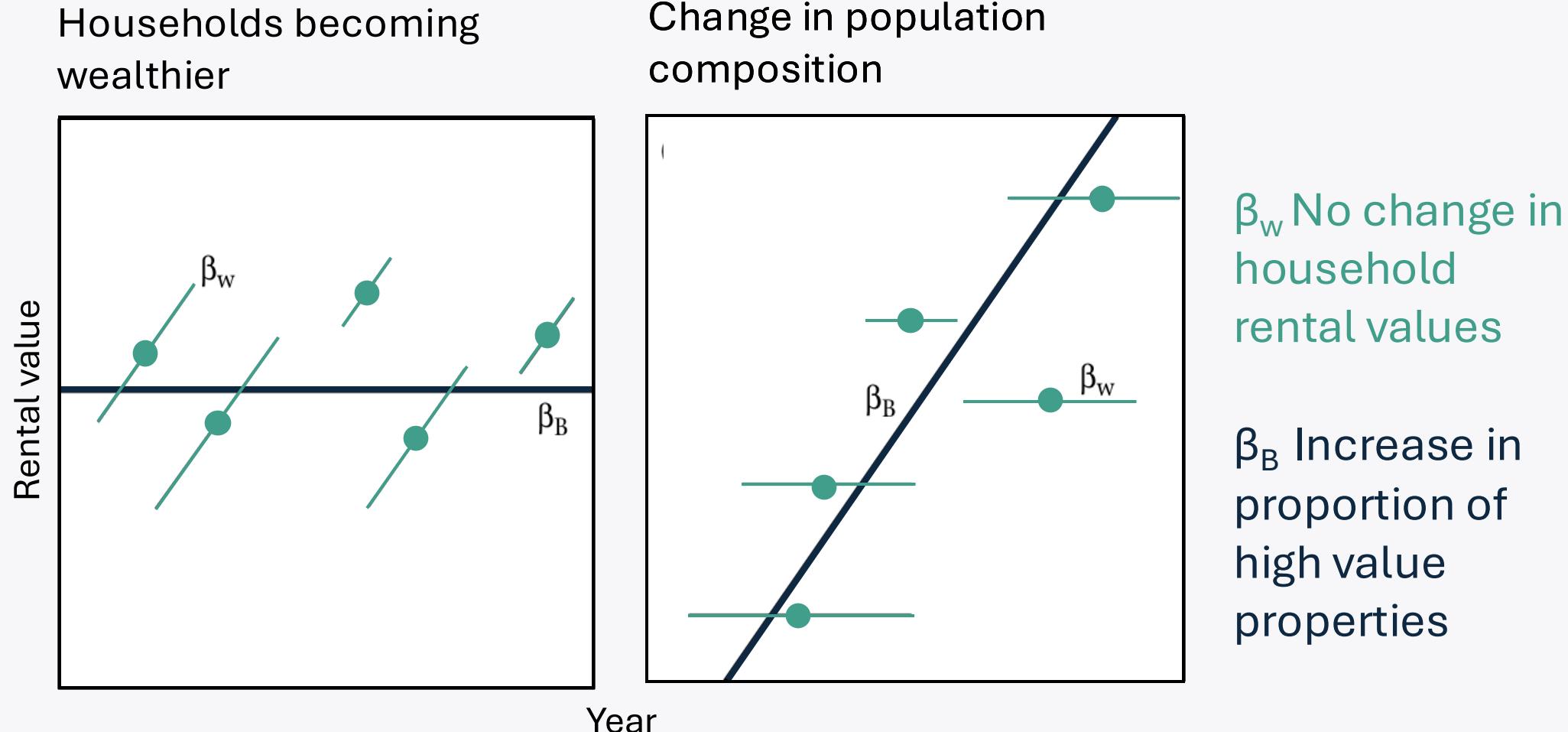
1783 – 1905



Rachel O'Brien &  
Nils Tregenza

A Rent Roll for the Island of St. Mary's in Jersey dated 29 <sup>th</sup> September 1710								
S. Marys.	Tenements Names.		Tenants Names.		Yearly rent	Due att 1710	Per <sup>2</sup> . att 1710	Rem. <sup>2</sup> due 1710
	Leases	Names	Leases	Names				
Giles Chenehales house & garden Pitching	2 <i>m</i> 10 <i>s</i>		m <sup>r</sup> James Denton	=	-	3 <i>m</i> 5 <i>s</i>	3 <i>m</i> 5 <i>s</i>	3 <i>m</i> 5 <i>s</i>
Bulford Moores house	-	15-	Martia Culibert wife	-	-	6 <i>m</i> 1 <i>s</i>	6 <i>m</i> 1 <i>s</i>	6 <i>m</i> 1 <i>s</i>
Francis Morris house	-	-	John Morris	-	-	2 <i>m</i> 6 <i>s</i>	3 <i>m</i> 3 <i>s</i>	3 <i>m</i> 3 <i>s</i>
Francis Johnson house	-	-	m <sup>r</sup> James Mitchell	-	-	6 <i>m</i> -	9 <i>m</i> 9 <i>s</i>	3 <i>m</i> 3 <i>s</i>
Half of the Entry ground	-	3 <i>m</i> -	m <sup>r</sup> James Mitchell	-	-	6 <i>m</i> -	9 <i>m</i> 9 <i>s</i>	3 <i>m</i> 3 <i>s</i>
m <sup>r</sup> James Nichols house	-	3 <i>m</i> -	John Mitchell	-	-	3 <i>m</i> -	3 <i>m</i> -	3 <i>m</i> -
Other half	-	-	m <sup>r</sup> Geo. Hooper	-	-	3 <i>m</i> 18 <i>s</i>	3 <i>m</i> 18 <i>s</i>	3 <i>m</i> 18 <i>s</i>
George Rogers house and shop	-	-	m <sup>r</sup> Jno. Vibolles	-	-	4 <i>m</i> 10 <i>s</i>	4 <i>m</i> 10 <i>s</i>	4 <i>m</i> 10 <i>s</i>
Other Squires house	-	6 <i>m</i> 10 <i>s</i>	Elisabell Rowlins wife	-	-	4 <i>m</i> -	4 <i>m</i> -	4 <i>m</i> -
Land lots of pennys	-	9 <i>m</i> -	John Chenehale	-	-	2 <i>m</i> 10 <i>s</i>	5 <i>m</i> -	3 <i>m</i> -
W <sup>r</sup> Thomas house	-	-	Richard Scaddan	-	-	6 <i>m</i> -	10 <i>m</i> -	6 <i>m</i> -
Chenehale house	-	-	m <sup>r</sup> Francis Ley	-	-	12 <i>m</i> -	12 <i>m</i> -	12 <i>m</i> -
Rich Scaddens house & land	-	-	Geo. Harris	-	-	3 <i>m</i> -	3 <i>m</i> -	3 <i>m</i> -
Customs house	-	-	Wm <sup>r</sup> Rogers wife	-	-	6 <i>m</i> -	6 <i>m</i> -	3 <i>m</i> -
Sierris house agt the Customs house	-	-	Cheston Bligh t <sup>o</sup> the nowdus	-	-	2 <i>m</i> 10 <i>s</i>	2 <i>m</i> 10 <i>s</i>	2 <i>m</i> 10 <i>s</i>
Roger's house & land	-	-	Mary Chenehale wife	-	-	1 <i>m</i> -	1 <i>m</i> -	1 <i>m</i> -
Parts of others houses	-	-	Widow Earle	-	-	6 <i>m</i> -	6 <i>m</i> -	2 <i>m</i> -
Other parts	-	-	William Mumpford	-	-	8 <i>m</i> 10 <i>s</i>	6 <i>m</i> -	5 <i>m</i> -
Dobert house	-	-	m <sup>r</sup> Thomas Brookes	-	-	4 <i>m</i> -	4 <i>m</i> -	2 <i>m</i> -
Susie Thomas's house	-	2 <i>m</i> 10 <i>s</i>	Ben <sup>r</sup> Browns	-	-	3 <i>m</i> 10 <i>s</i>	4 <i>m</i> 5 <i>s</i>	2 <i>m</i> 5 <i>s</i>
Long Stone Barnenre	-	6 <i>m</i> -	Joseph Dines	-	-	4 <i>m</i> -	8 <i>m</i> -	8 <i>m</i> -
Charles Giffers house	-	-	Edward Hollenshed	-	-	6 <i>m</i> -	6 <i>m</i> -	5 <i>m</i> -
Lynes house and Land	-	-	Marg <sup>r</sup> Bant wife	-	-	10 <i>m</i> -	10 <i>m</i> -	5 <i>m</i> -
and Giffers house and Land	-	-	m <sup>r</sup> Jane Rattenbury wife	-	-	10 <i>m</i> -	10 <i>m</i> -	5 <i>m</i> -
Fantyls house	-	-	The Same	-	-	4 <i>m</i> -	4 <i>m</i> -	4 <i>m</i> -
Sharrs house and Barts Cellars	-	-	m <sup>r</sup> John Green	-	-	8 <i>m</i> 5 <i>s</i>	8 <i>m</i> 5 <i>s</i>	6 <i>m</i> -
Several houses & Cellars	-	-	Dorothy Browns house	-	-	2 <i>m</i> 10 <i>s</i>	m <sup>r</sup> Clement Hooper	1 <i>m</i> 6 <i>s</i>
Phillips land and Moore	-	-	Other lots of Openys house	-	-	1 <i>m</i> 15 <i>s</i>	1 <i>m</i> 15 <i>s</i>	1 <i>m</i> 15 <i>s</i>
Tho <sup>r</sup> Syncock house	-	-	Dorothy Browns house	-	-	3 <i>m</i> 15 <i>s</i>	m <sup>r</sup> Clement Hooper	1 <i>m</i> 6 <i>s</i>
Land by Newford	-	2 <i>m</i> 10 <i>s</i>	Seare Land	-	-	3 <i>m</i> 10 <i>s</i>	4 <i>m</i> -	6 <i>m</i> -
Pts of Openys house	-	1 <i>m</i> 15 <i>s</i>	Other lots of Openys house	-	-	1 <i>m</i> 15 <i>s</i>	1 <i>m</i> 15 <i>s</i>	1 <i>m</i> 15 <i>s</i>
Other lots of Openys house	-	-	Jane Squirt wife	-	-	12 <i>m</i> -	12 <i>m</i> -	12 <i>m</i> -
Dorothy Browns house	-	-	Blackfitts house	-	-	2 <i>m</i> -	2 <i>m</i> -	1 <i>m</i> -
Seare Land	-	-	m <sup>r</sup> Daniel	-	-	4 <i>m</i> -	4 <i>m</i> -	4 <i>m</i> -
Other lots of Openys house	-	-	Jane Squirt wife	-	-	12 <i>m</i> -	12 <i>m</i> -	12 <i>m</i> -
Blackfitts house	-	-	m <sup>r</sup> Daniel	-	-	2 <i>m</i> -	2 <i>m</i> -	1 <i>m</i> -

## 2. Distinguishing within- versus between-household effects



## 2. Distinguishing within- versus between-household effects



$$y_{ij} = \beta_0 + \beta_w(x_{ij} - \bar{x}_j) + \beta_B \bar{x}_j + u_{0j} + e_{0ij}$$

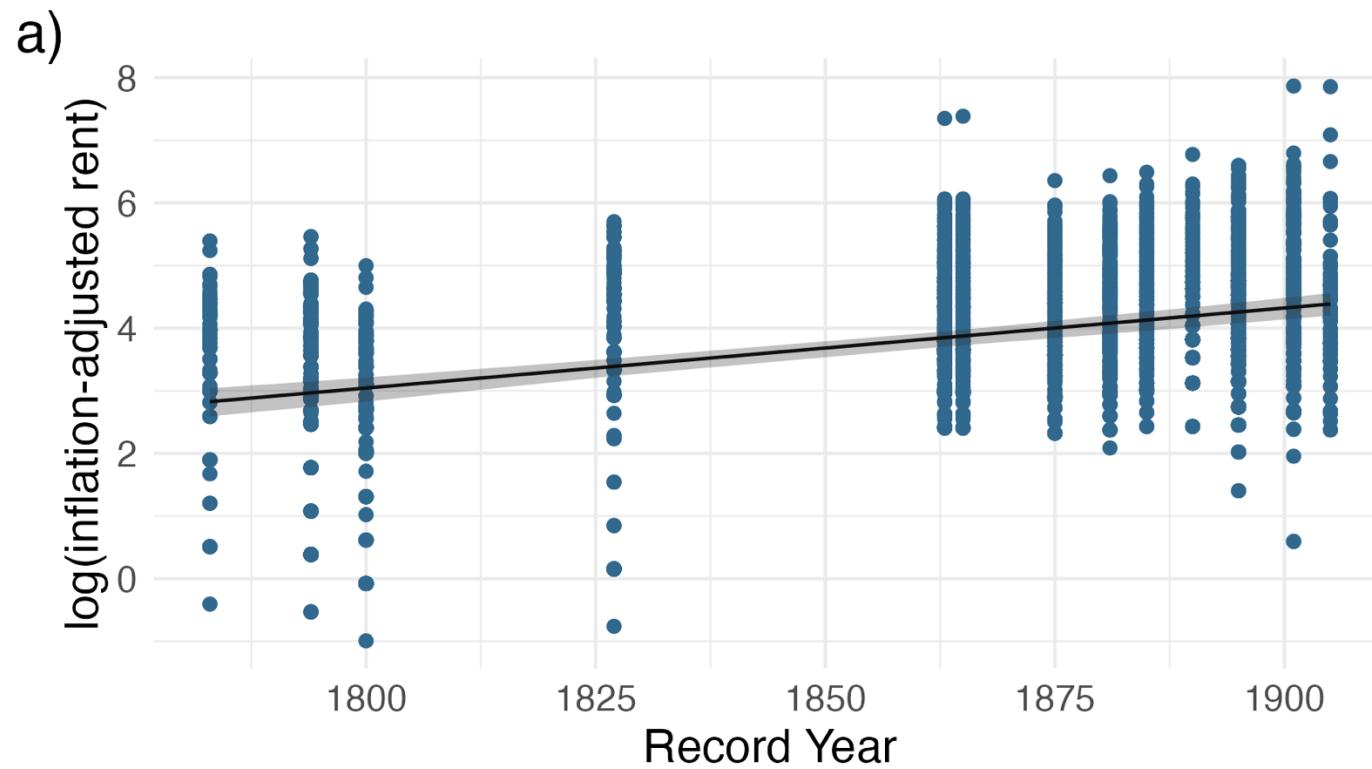
Rental value

Within-household variation:  
Household mean centred year

Between-household variation:  
Household mean year

HH	Lead tenant	Adjusted rent	Record year	Household mean centred year	Household mean year
1.01	Mr James Tonken	50.50500	1710	-1.000000	1711.000
1.01	Mr James Tonken	56.38750	1711	0.000000	1711.000
1.01	James Tonken	47.07500	1712	1.000000	1711.000
2.01	Martha Cuthbert	8.67500	1711	0.000000	1711.000
2.01	Martha Cuthbert wid	7.77000	1710	-1.000000	1711.000

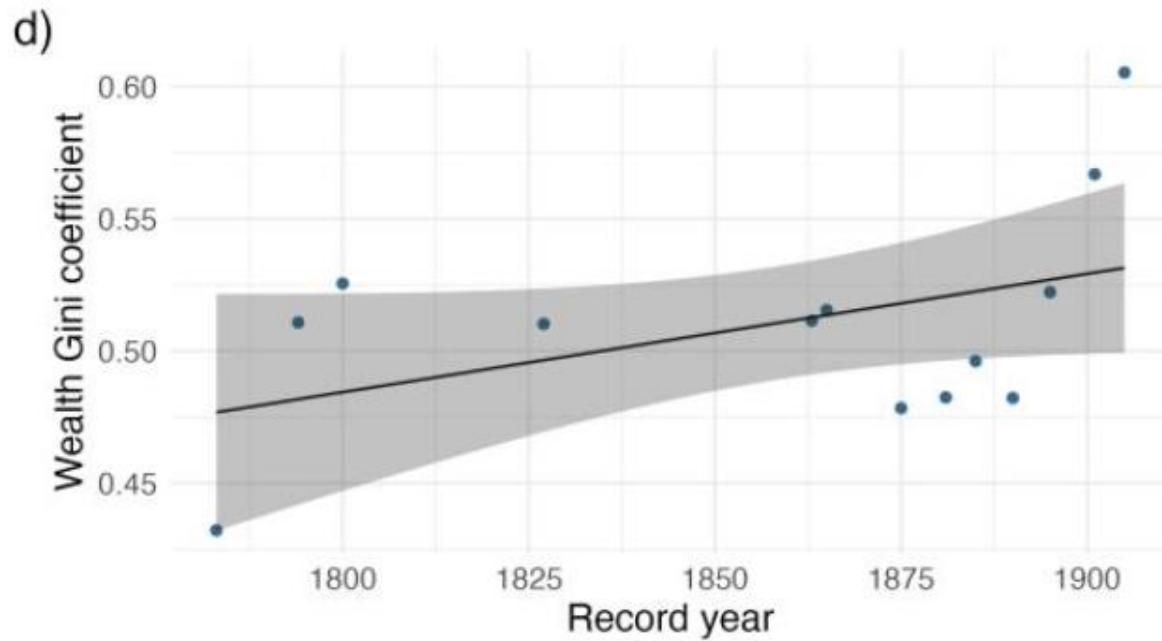
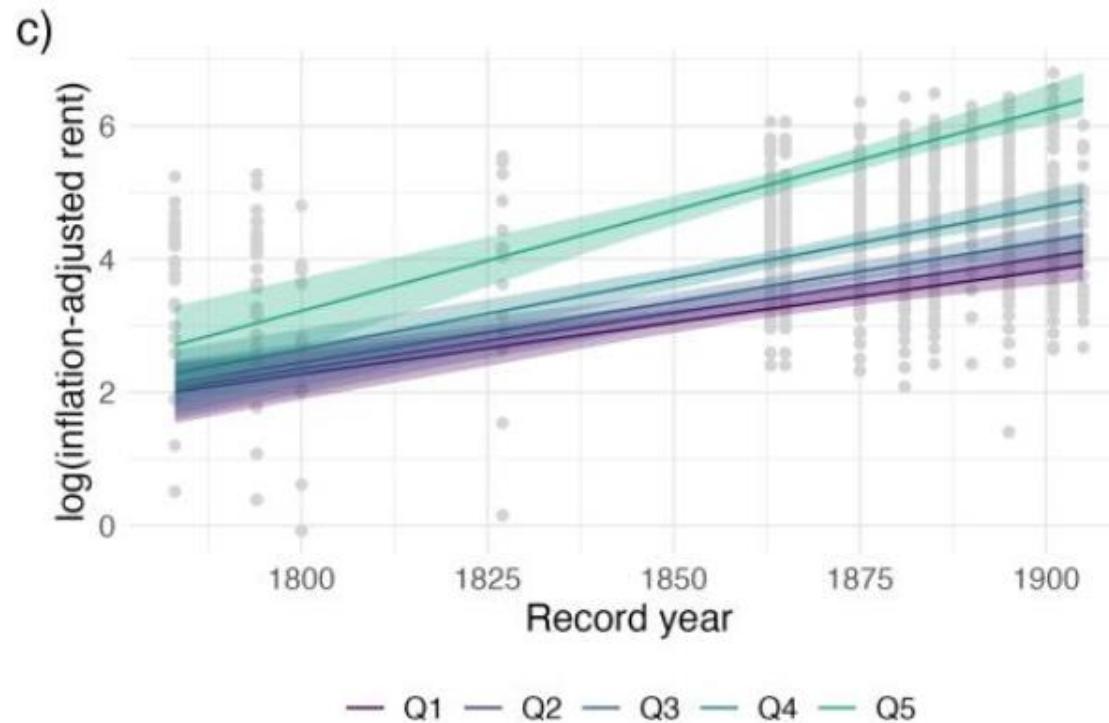
## 2. Distinguishing within- versus between-household effects



## 2. Distinguishing within- versus between-household effects



## 2. Distinguishing within- versus between-household effects



## 2. Distinguishing within- versus between-household effects

- Household wealth ↑
- Investment in education, jobs, tenant protection, health = local growth without displacement
- Wealthier households = faster increase in wealth
- Economic growth linked to rising inequality

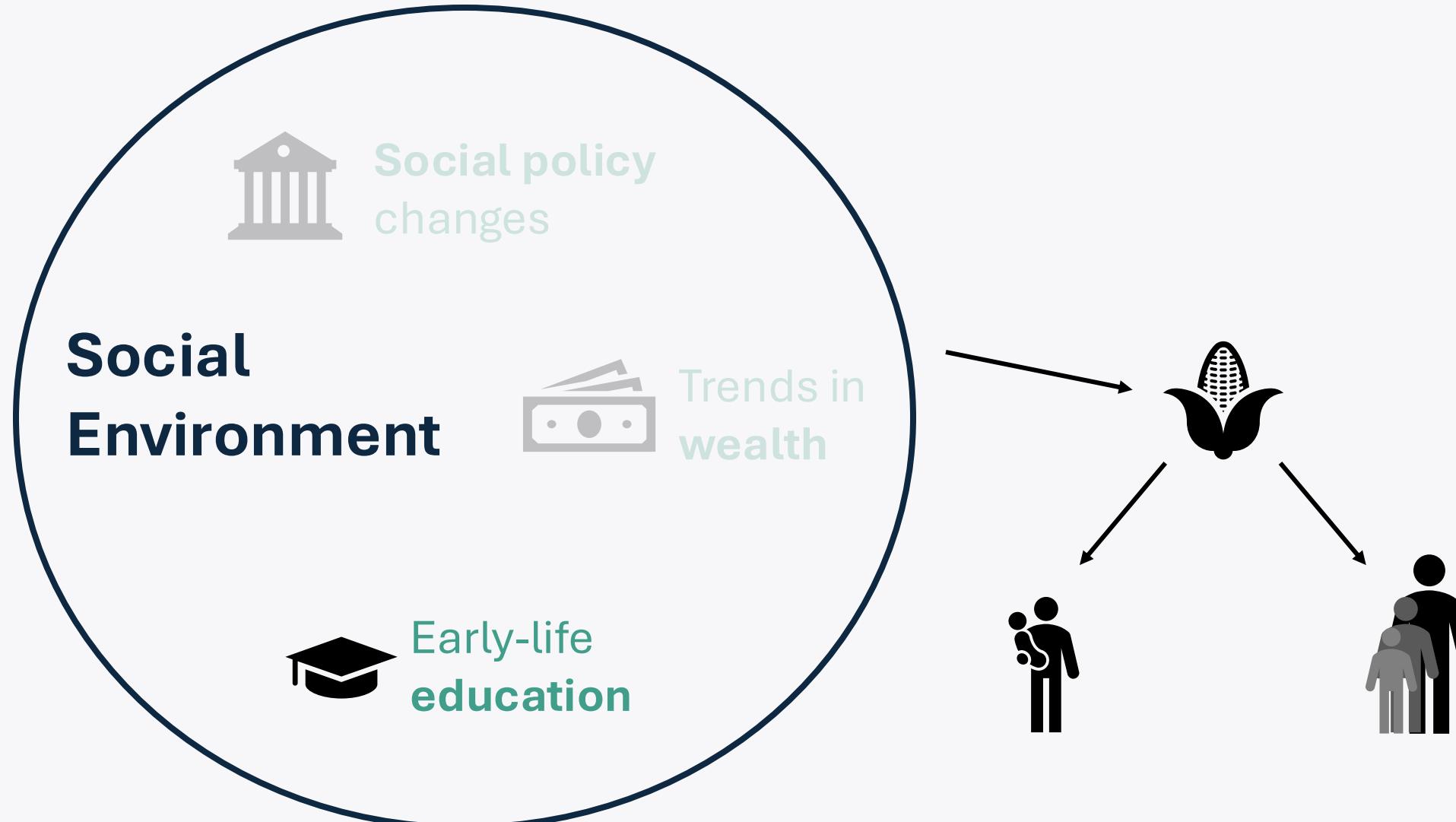


Tyler Lariviere



Greg Martin

### 3. Education as a leveller? Early-life advantage and adult outcomes



# 3. Education records



No.	DATE of ADMISSION.		DATE of RE-ADMISSION.		CHILD'S NAME, CHRISTIAN AND SURNAME.	CHILD'S PARENT OR GUARDIAN			EXACT DATE OF CHILD'S BIRTH.	If BAPTISED.	Whether Exemption from RELIGIOUS INSTRUCTION is claimed. (Under "Yes" or "No")	THE LAST SCHOOL (if any) attended before entering this SCHOOL.	The HIGHEST STANDARD in which Child was there presented.	The SUCCESSIVE STANDARDS in which presented in THIS SCHOOL (Enter Date.)						DATE of LEAVING.
	Year.	Month.	Day.	Year.	Month.	Day.	NAME.	ADDRESS.	OCCUPATION.											
71	83	1			Watts Samuel	Thomas J.	Old Town	Labourer	75 8 23	Parent			Holm School		84				84 12 19	
2	83	1			Phillips Claude	William	Carn Thomas	Labourer	75 11 29	do			"		84	85	86		86 12 24	
3	83	3			Ashford Edgar	Benjamin	Old Town	Labourer	72 10 18	do			"					83 12 21		
4	83	4			Hicks Frederick	Frederick	Hugh St.	Captain	73 6 14	do			Walcott, Penzance		85	87		84 85 86 87 87 7 22		
5	83	5			Morris Richard	Richard	Helvere	Carpenter	75 3 17	do			"		84	85		87 6 30		
6	83	J.			Watts Frederick	Thomas J.	Old Town	Labourer	77 5 1	do			Infant School		84	85		86 2 19		
7	83	7			Watts William Frao.	Mathew	Parting Carn	Farmer	76 8 7	Rept.			"		84	85		87 9 30		
8	83	7			Hoskin Charles W.	Charles	Old Town	Lawyer (C&B)	77 5 19	Parent			"		84	85		87 9 30		
9	83	7			Woodcock Claude	Joshua	Porth Looe	Farmer	76 11 21	Rept.			"		84	85		87 1 28		
80	83	7			Trenerry George H.	Grace	Poor House	Washwoman	77 3 20	Parent			"		84	85		87 3 13		
1	83	7			Aldiford Theodore	Joseph	Thoroughfare	Carpenter	77 2 18	do			"		84	85		88 4 6		
2	83	7			Mitchell Herbert	James	Dorothy	Saddler	77 1 20	Rept.			"		84	85		88 12 19		
3	83	7			Jenkins Alfred Dawson	James	Strand	Labourer	77 3 19	Parent			"		84	85		89 10 6		
4	83	7			Jenkins Thomas	Arthur	Hugh St.	Labourer	76 9 5	do			"		84	85		89 11 21		
5	83	7			Foster Albert	Joseph	Porthcressa St	Sailor	76 11 9	do			"		84	85		89 12 18		
6	83	7			Hicks Ernest G.	John	Porthcressa St.	Carpenter	77 1 25	Rept.			"		84	85		89 9 20		
7	83	9			Giblings Charles	Thomas	Jerusalem Terrace	Custom Off.	76 11 11	do			"		84	85		89 7 29		
8	84	1			Ashford William	Stephen	Bank	Captain	76 4 14	Parent			"		84	85		89 5 15		
9	84	1			Williams James	Thomas	Carn Thomas	Sailor	77 5 3	do			"		84	85		89 12 18		
90	84	1			Silverwright Tobias	C. Walter	Porthcressa St	Hodgings	76 6 29	do			"		84	85		89 12 18		
1	84	1			Thompson Richard	John	Carn Thomas	Carpenter	77 5 29	do			"		84	85		89 12 18		
2	84	1			Collett Francis	Richard	Well Lane	Shoemaker	77 5 15	do			"		84	85		89 5 14		
3	84	1			Williams Sydney	Nicholas	Parade	do	77 4 2	do			"		85	86		89 12 24		
4	84	1			Bender Frederick	Robert	Quay	Labourer	77 5 5	do			"		85	86		89 7 31		
5	84	1			Pideaux William	William	Trevarne	do	76 9	do			"		84	85		89 1 9		
6	84	5	12		Colenau Arthur	Stephen	Porth Looe	Sailor	77 8 25	do			"		85			88 2 3		
7	84	7	25		Vincoe Hubert	Thomas	Buzzard Street	Boatman	77 12 17	Rept.			"		85			88 2 5		
8	84	7	25		Bickford Walter	Walter	Bank	Pilot	78 2 21	do			"		85	87		88 7 30		
9	84	7	25		Davis Arnold	Francis	Church St.	Carpenter	77 12	Parent			"		85	86		89 7 31		
100	84	7	25		Hicks Abiah	Abiah	Strand	Boatman-deal	77 11 11	do			"		85	86		89 12 24		
1	84	7	25		Jiddy Edward	Samuel	Church St.	Carter	78 6 10	Rept.			"		85	86		89 1 29		
2	84	7	25		Lutkin										85	86		89 1 29		



2,023 (age  
5-16)



1877-1955



Lizzy Martin

# 3. Education records & LHS



No.	DATE of ADMISSION.		DATE of RE-ADMISSION.		CHILD'S NAME, CHRISTIAN AND SURNAME.	CHILD'S PARENT OR GUARDIAN			EXACT DATE OF CHILD'S BIRTH.	If BAPTISED.	Whether Exemption from RELIGIOUS INSTRUCTION is claimed. (Under "Year" or "Month")	THE LAST SCHOOL (if any) attended before entering this SCHOOL.	The HIGHEST STANDARD in which Child was there presented.	The SUCCESSIVE STANDARDS in which presented in THIS SCHOOL (Enter Date.)						DATE of LEAVING.	
	Year.	Month.	Day.	Year.		NAME.	ADDRESS.	OCCUPATION.						I.	II.	III.	IV.	V.	VI.		
	Year.	Month.	Day.	Year.																	
71	83	1			Watts Samuel	Thomas J.	Old Town	Labourer	75 8 23	Parent		Holm School		84						84 12 19	
2	83	1			Phillips Claude	William	Carn Thomas	Labourer	75 11 29	do		"		84	85	86				86 12 24	
3	83	3			Ashford Edgar	Benjamin	Old Town	Labourer	72 10 18	do		"							83 12 21		
4	83	4			Hicks Frederick	Frederick	Hugh St.	Captain	73 6 14	do		Walcott, Penzance		85	87					87 6 30	
5	83	5			Morris Richard	Richard	Helvere	Carpenter	75 3 17	do		Infant School		84	85	86	87	87	7 22		
6	83	J.			Watts Frederick	Thomas J.	Old Town	Labourer	77 5 1	do		"		84	85					87 6 30	
7	83	7			Watts William Frao.	Methwold	Parting Carn	Farmer	76 8 7	Rept.		Infant School		84	85					86 2 19	
8	83	7			Hoskin Charles W.	Charles	Old Town	Lawyer (C&B)	77 5 19	Parent		"		84	85	86	87	88	89 90 90	9 30	
9	83	7			Woodcock Claude	Joshua	Porth Looe	Farmer	76 11 21	Rept.		"		84	85					87 9 30	
80	83	7			Trenerry George H.	Grace	Poor House	Washwoman	77 3 20	Parent		"		84	85	86	87	88	89 90 90	12 19	
1	83	7			Ashford Theodore	Joseph	Thoroughfare	Carpenter	77 2 18	do		"		84						87 1 28	
2	83	7			Mitchell Herbert	James	Dorothy	Saddler	77 1 20	Rept.		"		84	85	86				85 3 13	
3	83	7			Jenkins Alfred Dawson	James	Strand	Labourer	77 3 19	Parent		"		84	85	86				88 4 6	
4	83	7			Jenkins Thomas	Arthur	Hugh St.	Labourer	76 9 5	do		"		84	85	86	87	88	89 90 91	3 20	
5	83	7			Foster Albert	Joseph	Porthcressa St.	Sailor	76 11 9	do		"		84	85	86	87	88	89 10 6		
6	83	7			Hicks Ernest G.	John	Porthcressa St.	Carpenter	77 1 25	Rept.		"		84	85	86	87	88	89 11 21		
7	83	9			Giblings Charles	Thomas	Jerusalem Terrace	Custan Off.	76 11 11	do		"		84	85	86	87	88	89 9 20		
8	84	1			Ashford William	Stephen	Bank	Captain	76 4 29	do		"		84	85	86				87 7 29	
9	84	1			Williams James	Thomas	Carn Thomas	Captain	77 4 14	Parent		"		84	85	86	87	88	89 9 15		
90	84	1			Silverwright Tobias	C. Walter	Porthcressa St.	Sailor	77 5 3	do		"		84	85					85 12 18	
1	84	1			Thompson Richard	John	Carn Thomas	Hodgings	76 6 29	do		"		84						85 12 18	
2	84	1			Collett Francis	Richard	Well Lane	Carpenter	77 5 29	do		"		84	87	90				92 5 14	
3	84	1			Williams Sydney	Nicholas	Parade	Shoemaker	77 5 15	do		"		85	86	88	89	90	91 12 24		
4	84	1			Bender Frederick	Robert	Quay	Labourer	77 4 2	do		"		85	86	88	89	90	91 7 31		
5	84	1			Pideaux William	William	Trevarne	do	77 5 5	do		"		84	85	87				91 1 9	
6	84	5 12			Colenau Arthur	Stephen	Porth Looe	Sailor	76 9	do		"		85						88 2 3	
7	84	7 25			Vincoe Hubert	Thomas	Buzzystreet	Boatman	77 8 25	do		"		85						88 2 5	
8	84	7 25			Bickford Walter	Walter	Bank	Pilot	77 12 17	Rept.		"		85	87					86 7 30	
9	84	7 25			Davis Arnold	Francis	Church St.	Carpenter	78 2 21	do		"		85	86	87	88	89	90 9 1	7 31	
100	84	7 25			Hicks Abiah	Abiah	Strand	Boatman-deal	77 11 11	do		"		85	86	87	88	89	90 9 12 24		
1	84	7 25			Jiddy Edward	Samuel	Church St.	Carter	78 6 10	Rept.		"		85	86	87	88	89	90 9 2 29		
2	84	7 25			Lutkin																



40 boys



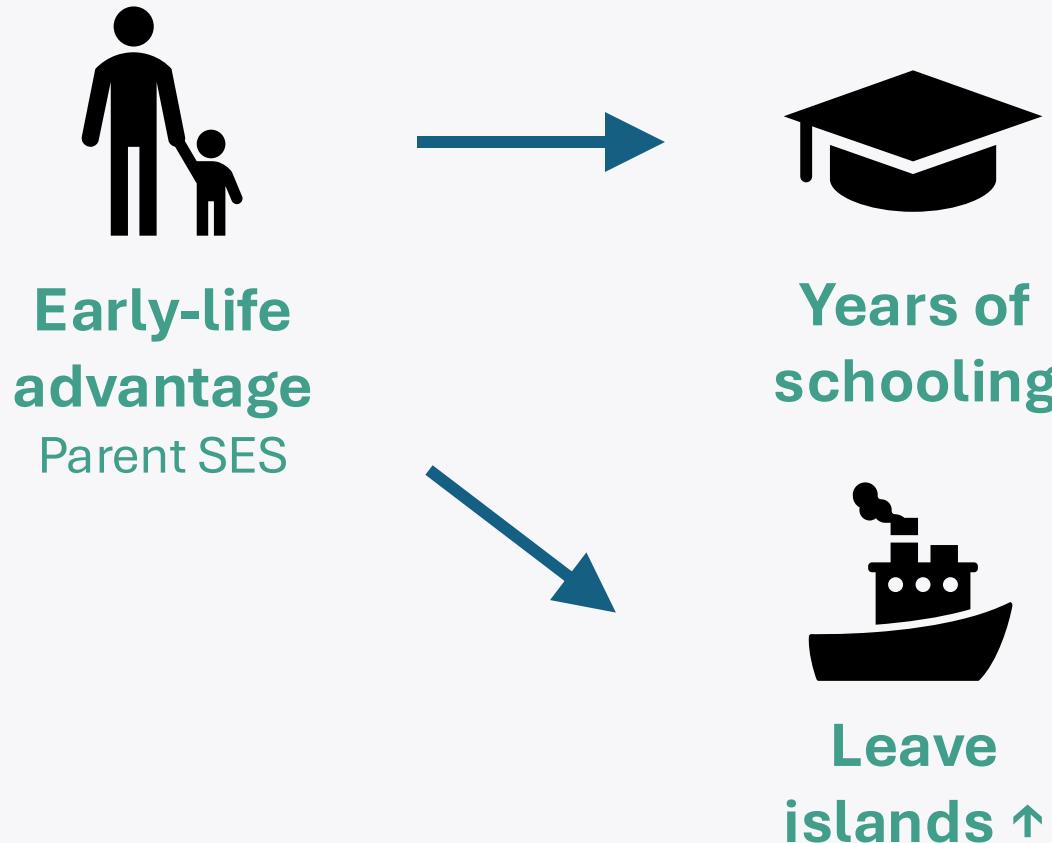
41 boys



94 boys

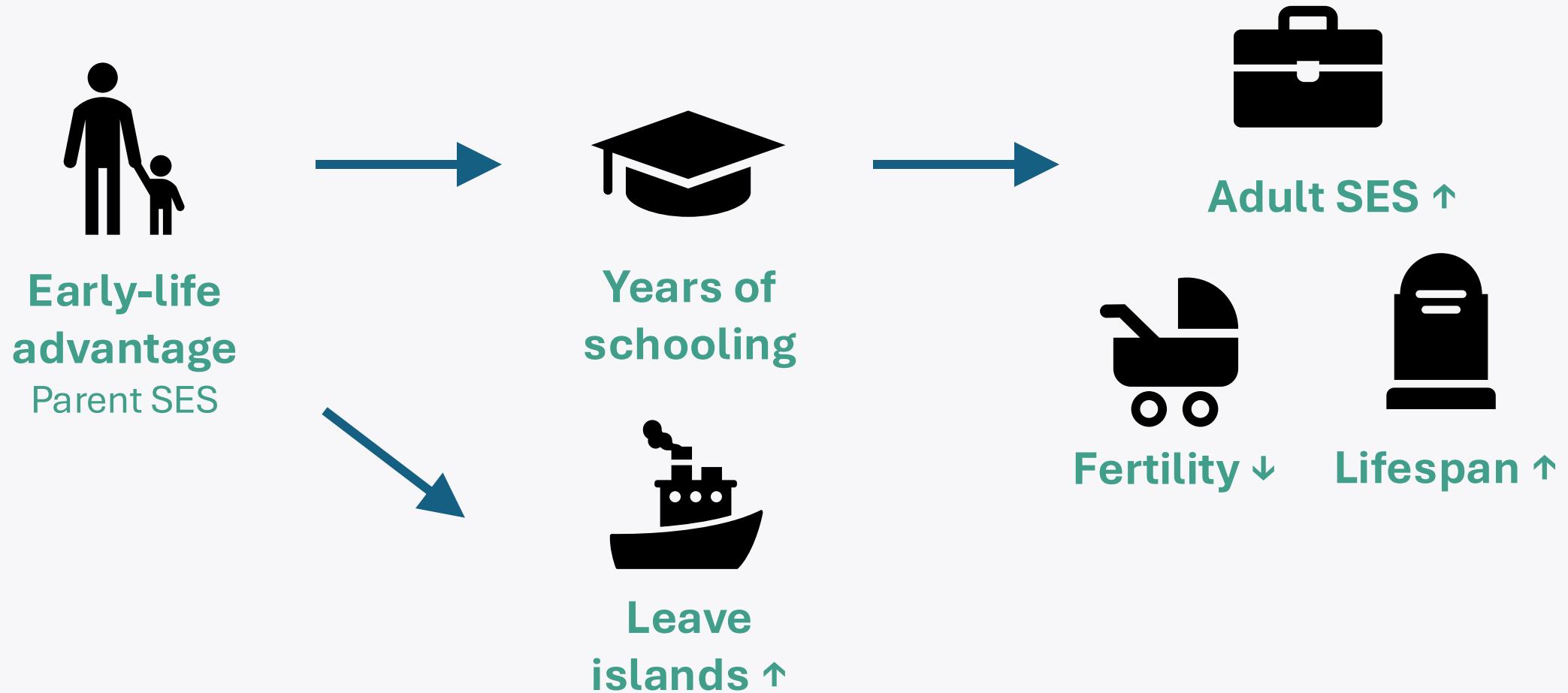


### 3. Education as a leveller? Early-life advantage and adult outcomes



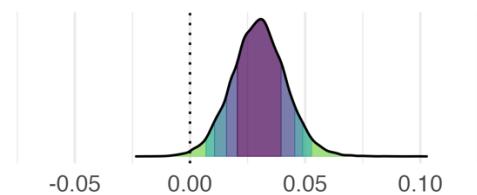


### 3. Education as a leveller? Early-life advantage and adult outcomes

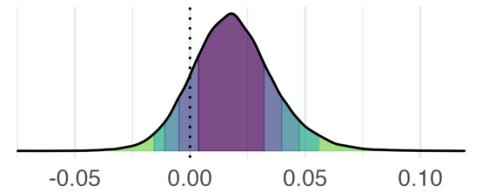


### 3. Parental SES → Education

Log-odds leaving  
islands  
(Bernoulli)



Log-odds attending  
subsequent school  
(Bernoulli)

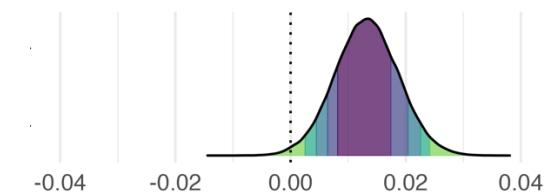


Parent SES  
(0-100)

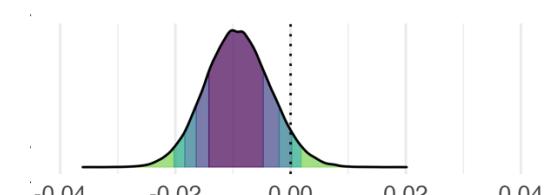
HDI 60% 80% 90% 95% 100%

Log-odds leaving school  
(Binomial survival)

All data

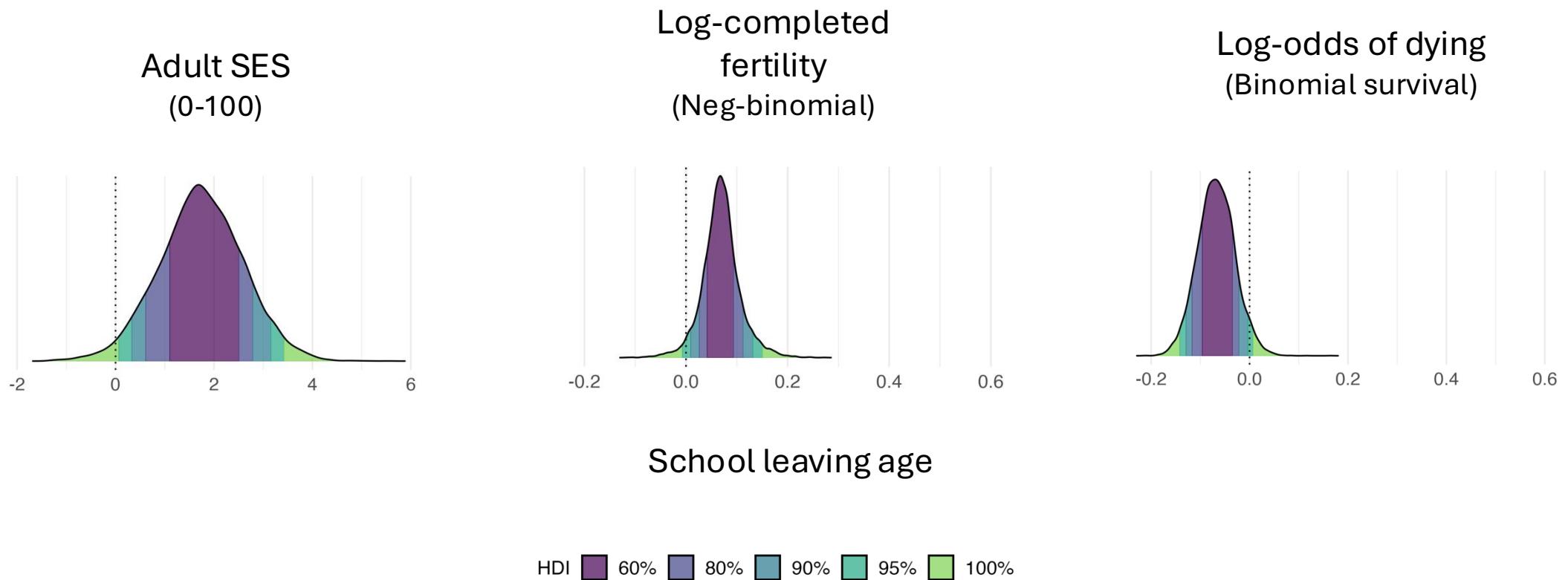


Stayed on islands

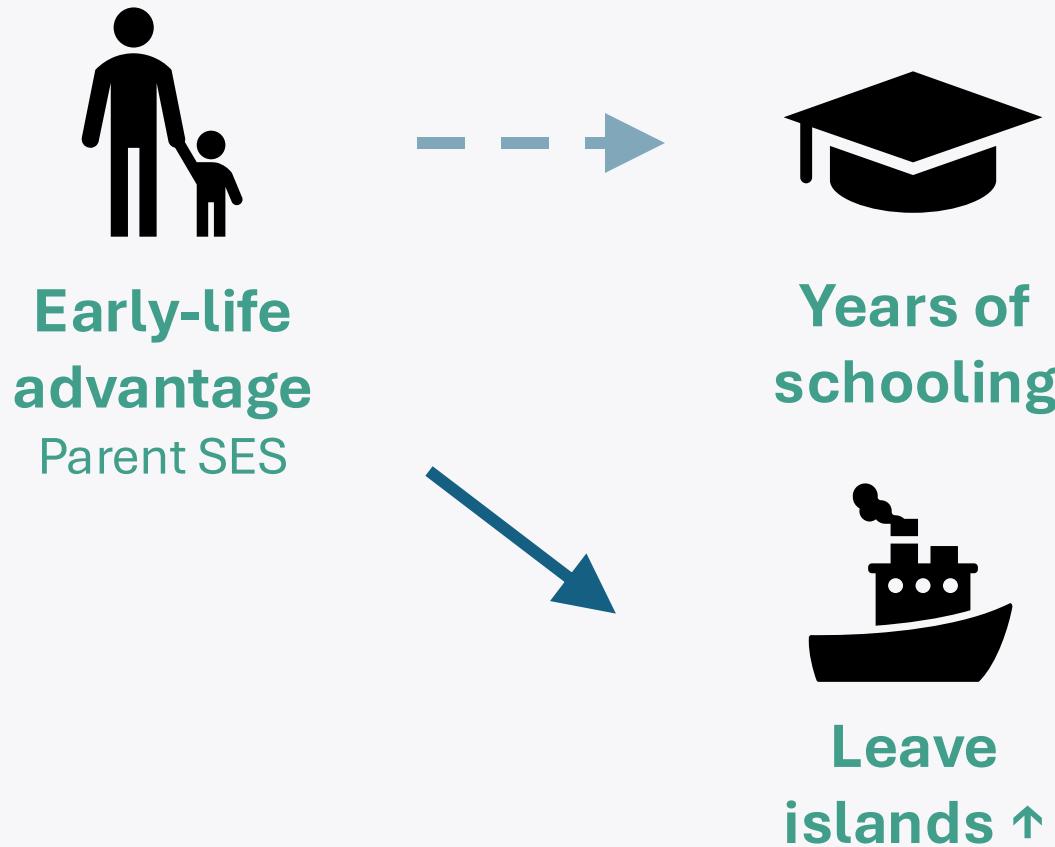


Parent SES  
(0-100)

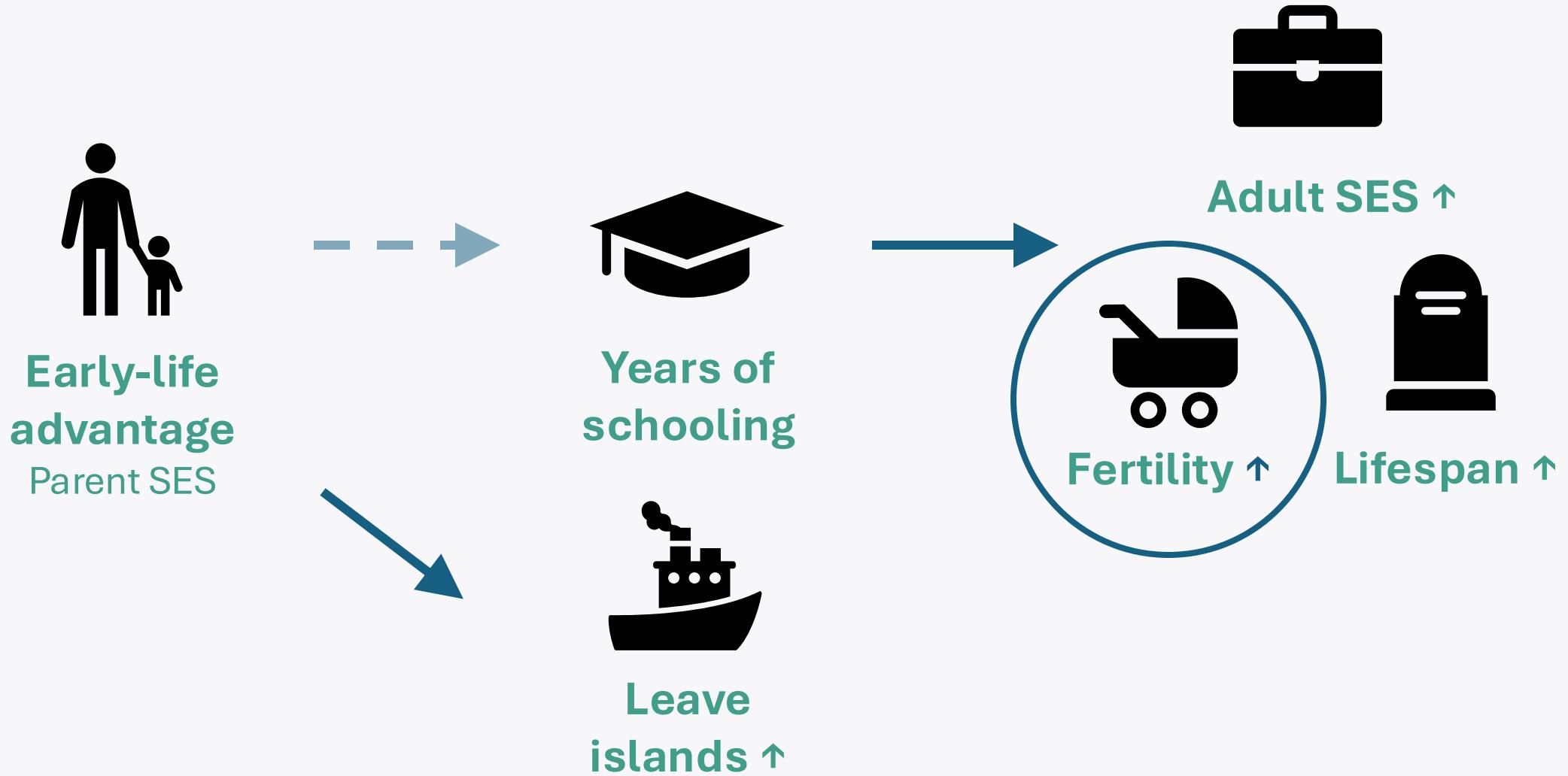
### 3. Education → Adult outcomes



### 3. Overall results



### 3. Overall results



### 3. Education as a leveller? Early-life advantage and adult outcomes



Early-life advantage:  
education



Education as a leveller?



Higher SES = higher  
probability of leaving



Education



Food security



Employment

# The social environment and human LHSs on the Isles of Scilly



## Policy effects

- People became wealthier
- Education effects
- Changes in job types



## Life-histories

- No clear link to LHSs
- Early-life effects



## Demographic transition

- Overall fertility declines
- But education – higher fertility
- Mix of strategies – early stages of transition



## Historical data

- Messy but rich
- Large, individual-level, longitudinal datasets