Wild, Frederik

Presentation slides

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UNIVERSITÄT BAYREUTH

Coastal Proximity and Individual Living Standards:

Econometric Evidence from Geo-Referenced Household Surveys in sub-Saharan Africa

Frederik Wild
University of Bayreuth

David Stadelmann
University of Bayreuth
CREMA & BEST

The Wealth of Nations

year, will make three hundred thousand nails in the year. But in such a situation it would be impossible to dispose of one thousand, that is, of one day's work in the year.

As by means of water-carriage a more extensive market is opened to every sort of industry than what land-carriage alone can afford it, so it is upon the sea-coast, and along the banks of navigable rivers, that industry of every kind naturally begins to subdivide and improve itself, and it is frequently not till a long time after that those improvements extend themselves to the inland parts of the country. A broad-wheeled waggon, attended by two men, and drawn by eight horses, in about six weeks' time carries and brings back between London and Edinburgh near four ton weight of goods. In about the same time a ship navigated by six or eight men, and sailing between the ports of London and Leith, frequently carries and brings back two hundred ton weight of goods. Six or eight men, therefore, by the help of water-carriage, can carry and bring back in the same time the same quantity of goods between London and Edinburgh, as fifty broad-wheeled waggons, attended by a hundred men, and drawn by four hundred horses. Upon two hundred tons of goods, therefore, carried by the cheapest land-carriage from London to Edinburgh, there must be charged the maintenance of a hundred men for three weeks, and both the maintenance, and, what is nearly equal to the maintenance, the wear and tear of four hundred horses as well as of fifty great waggons. Whereas, upon the same quantity of goods carried by water, there is to be charged only the maintenance of six or eight men, and the wear and tear of a ship of two hundred tons burden, together with the value of the superior risk, or the difference of the insurance between land and water-carriage. Were there no other communication between those two places, therefore, but by land-carriage, as no goods could be transported from the one to the other, except such whose price was very considerable in proportion to their weight, they could carry on but a small part of that commerce which at present subsists between them, and consequently could give but a small part of that encouragement which they at present mutually afford to each other's industry. There could be little or no commerce of any kind between the distant parts of the world. What goods could bear the expense of land-carriage between London and Calcutta? Or if there were any so precious as to be able to support this expense, with what safety could they be transported through the territories of so many barbarous nations? Those two cities, however, at present carry on a very considerable commerce with each other, and by mutually affording a market, give a good deal of encouragement to each other's industry.

G.ed. p33

G.ed. p34

Since such, therefore, are the advantages of water-carriage, it is natural that the first improvements of art and industry should be made where this conveniency opens the whole world for a market to the produce of every sort of labour, and that they should always be much later in extending themselves into the inland parts of the country. The inland parts of the

or perhaps than both of them put together. It is remarkable that neither the ancient Egyptians, nor the Indians, nor the Chinese, encouraged foreign commerce, but seem all to have derived their great opulence from this inland navigation.

All the inland parts of Africa, and all that part of Asia which lies any considerable way north of the Euxine and Caspian seas, the ancient Scythia, the modern Tartary and Siberia, seem in all ages of the world to have been in the same barbarous and uncivilised state in which we find them at present. The Sea of Tartary is the frozen ocean which admits of no navigation, and though some of the greatest rivers in the world run through that country, they are at too great a distance from one another to carry commerce and communication through the greater part of it. There are in Africa none of those great inlets, such as the Baltic and Adriatic seas in Europe, the Mediterranean and Euxine seas in both Europe and Asia, and the gulfs of Arabia, Persia, India, Bengal, and Siam, in Asia, to carry maritime commerce into the interior parts of that great continent: and the great rivers of Africa are at too great a distance from one another to give occasion to any considerable inland navigation. The commerce besides which any nation can carry on by means of a river which does not break itself into any great number of branches or canals, and which runs into another territory before it reaches the sea, can never be very considerable; because it is always in the power of the nations who possess that other territory to obstruct the communication between the upper country and the sea. The navigation of the Danube is of very little use to the different states of Bavaria, Austria and Hungary, in comparison of what it would be if any of them possessed the whole of its course till it falls into the Black Sea.

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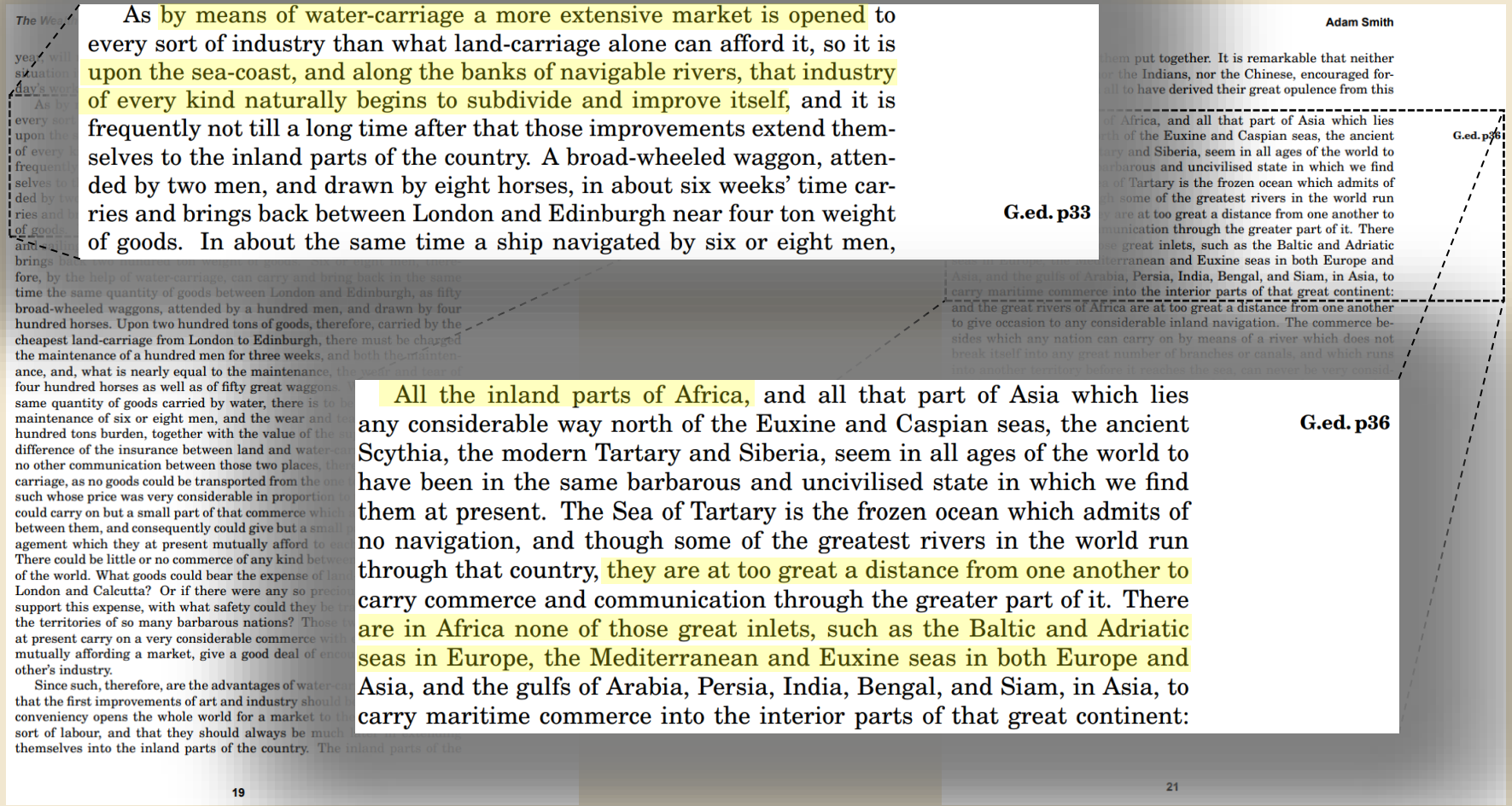
The Wealth of Nations



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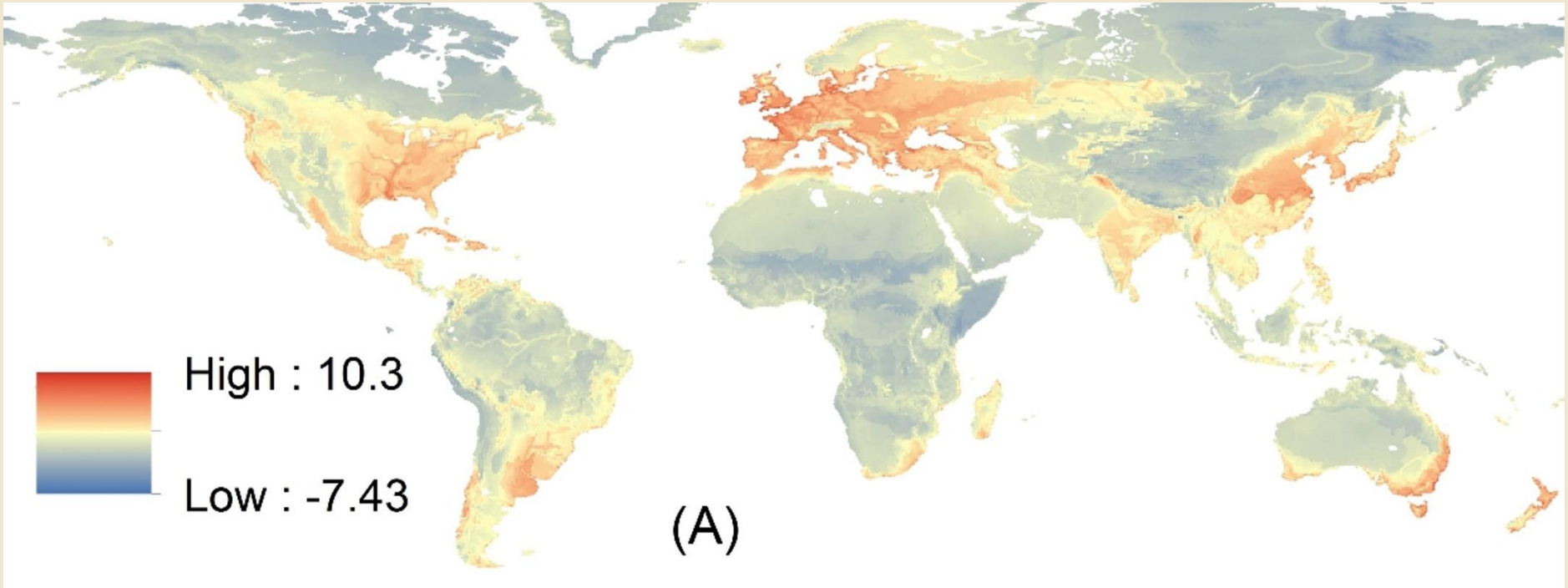
Recent Evidence (1/3)



Henderson, Vernon J., Tim Squires, Adam Storeygard, and David Weil. 2018. 'The Global Distribution of Economic Activity: Nature, History, and the Role of Trade1'. *The Quarterly Journal of Economics* 133 (1): 357–406.

Illustration taken from: *Q J Econ*, Volume 133, Issue 1, February 2018, Pages 357–406, https://doi.org/10.1093/qje/qjx030

Recent Evidence (2/3)

Research on physical geography and economic development analyzes...

- **…cross-country variation**[1]
  - e.g. landlockedness, coastal access, coastal population density, coastline (to country size)
- **…subnational variation**[2]
  - Regional incomes or regional aggregation (e.g. nightlights)
  - e.g. (average/modal) distance to coast/port, (%) region has ocean access

Coastal access as a consistent and robust predictor of economic development

1) Bloom et al. 1998; Gallup et al. 1999; Easterly & Levine 2003; Sala-i.Martin et al. 2004
2) Rappaport and Sachs 2003; Gennaioli et al. 2013; Motamed et al. 2014; Mitton 2016; Henderson et al. 2018

Recent Evidence (3/3)

- **Other factors relating to spatial inequalities include**[1]
  - Institutions[2]
  - Infrastructure[3]
  - Human capital[4]
  - Market access and trade[5]
  - Urbanization and agglomeration[6]
  - Development itself[7]

Second-nature explanations are interconnected with first-nature causes!

1) For an overview, see Breinlich et al. 2014
2) Nunn and Wantchekon 2011; Mitton 2016 **3)** Jedwab and Moradi 2016; Jedwab et al. 2017 **4)** Gennaioli et al. 2013; Fortson 2011; **5)** Brülhart 2011; Hirte et al. 2020 **6)** Motamed et al. 2014; Henderson et al. 2018 **7)** Lessmann and Seidel 2017

Contribution

We…

1) …make use of

- Geo-coded household surveys spanning 17 African countries over 20 years

2) …assess coastal proximity as a predictor of *individual living standards*

- Complementing findings at the national or regional level

3) …investigate an array of potential channels simultaneously

- Systematically considering factors and their explanatory power

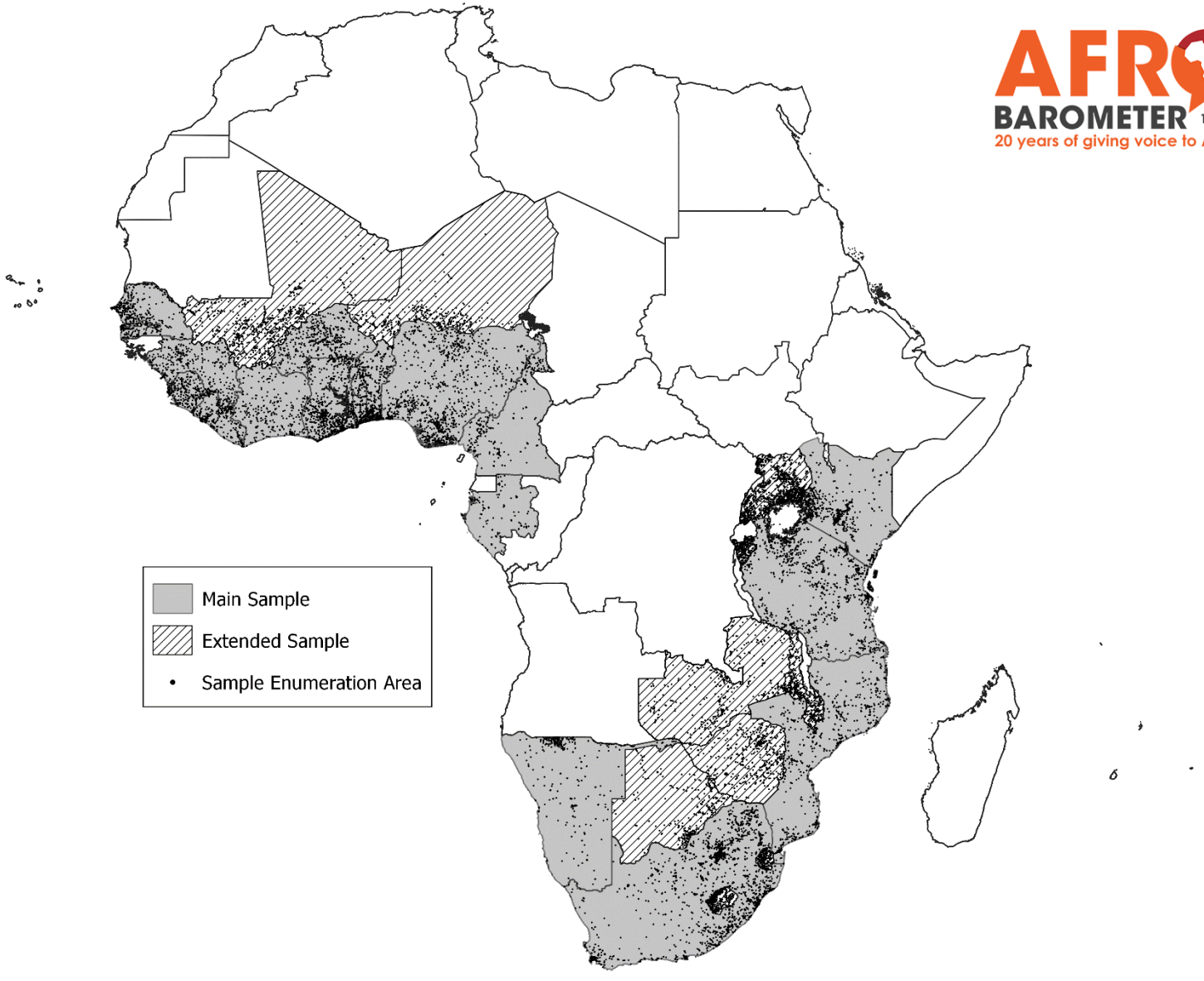
Data (1/3)

- **AFROBAROMETER – Nationally representative household surveys**
  - Individual/Household/EA level data on basic characteristics
  - Employment, occupation, wealth possessions, sentiments and attitudes, …

- **Geo-referenced survey locales**
  - 128,609 Households across 17 countries, 11,261 localities and 7 survey rounds

- **Survey rounds**
  - 1999, 2003, 2005, 2008, 2012, 2014, 2017

AFRO BAROMETER 1999-2019
20 years of giving voice to Africans



Data (2/3)

- **Main outcome variables**
  - Cash employment (0/1)
  - How often gone without [water / food / cash Income / medical care] (0-4)
  - Possessions [radio / tv / motor vehicle] (0-1)

- **Explanatory Variables**
  - Geodesic (within-country) distance to nearest major harbor (in km) *
  - Navigable river <25km (0/1), major lake <25km (0/1)
  - Age, Age^2, Female (0/1)
  - Latitude, elevation, ruggedness, malaria ecology, land suitability, growing days, temperature, rainfall, vegetation area

*) We also test coastline, and beelines to both harbors and coastline

Data (2/3)

- **Channels**
  - Most Important Issue [**Education**] (0/1)
  - **Educational** Level (0-9)
  - Most Important Issue [**Institutions**] (0/1)
  - **Institutions** Score (1-4)
  - Most Important Issue [**Infrastructure**] (0/1)
  - **Infrastructure** present in EA [Electricity Grid / Piped Water / Sewage / School / Paved Road / Health Clinic] (0-1)
  - **Urban** (0/1), Capital or Primate City <25km (0/1) & Population Density
  - Helps your country [**Regional Economic Community** / **African Union**] (0-3)

Empirical Approach (1/3)

$$(1) \quad Y_{i,t,c} = \alpha + \beta\, log(Distance\ to\ Harbor)_i + \delta_{c,t} + \varepsilon_{i,t,c}$$

$Y_{i,t,c}$ = Outcome of individual **i**, surveyed at time **t**, living in country **c**

β = Geodesic (ellipsoidal) distance to nearest major harbor

$\delta_{c,t}$ = Country*Time Fixed Effects

Empirical Approach (2/3)

$$(2) \quad Y_{i,t,c} = \alpha + \beta\, log(Distance\ to\ Harbor)_i + \gamma_k X'_i + \delta_{c,t} + \varepsilon_{i,t,c}$$

$Y_{i,t,c}$ = Outcome of individual **i**, surveyed at time **t**, living in country **c**

β = Geodesic (ellipsoidal) distance to nearest major harbor

γ_k = Individual / EA level controls
- *Basic controls*
- *Urbanization*
- *Trade*
- *Geographic ontrols*
- *Education controls*
- *Institution controls*
- *Infrastructure controls*

$\delta_{c,t}$ = Country*Time Fixed Effects

Empirical Approach (3/3)

(3) $$Y_{i,t,c} = \alpha_1 + \beta_1 \, log(Distance\ to\ Harbor)_i + \theta M_i + \gamma_k X'_{i,t} + \ \ldots$$

(4) $$M_{i,t,c} = \alpha_1 + \beta_2 \, log(Distance\ to\ Harbor)_i + \gamma_k X'_{i,t} + \ \ldots$$

$Y_{i,t,c}$ = Outcome of individual **i**, surveyed at time **t**, living in country **c**

β_1 = ***Direct effect*** of log(Distance to Harbor) on Y

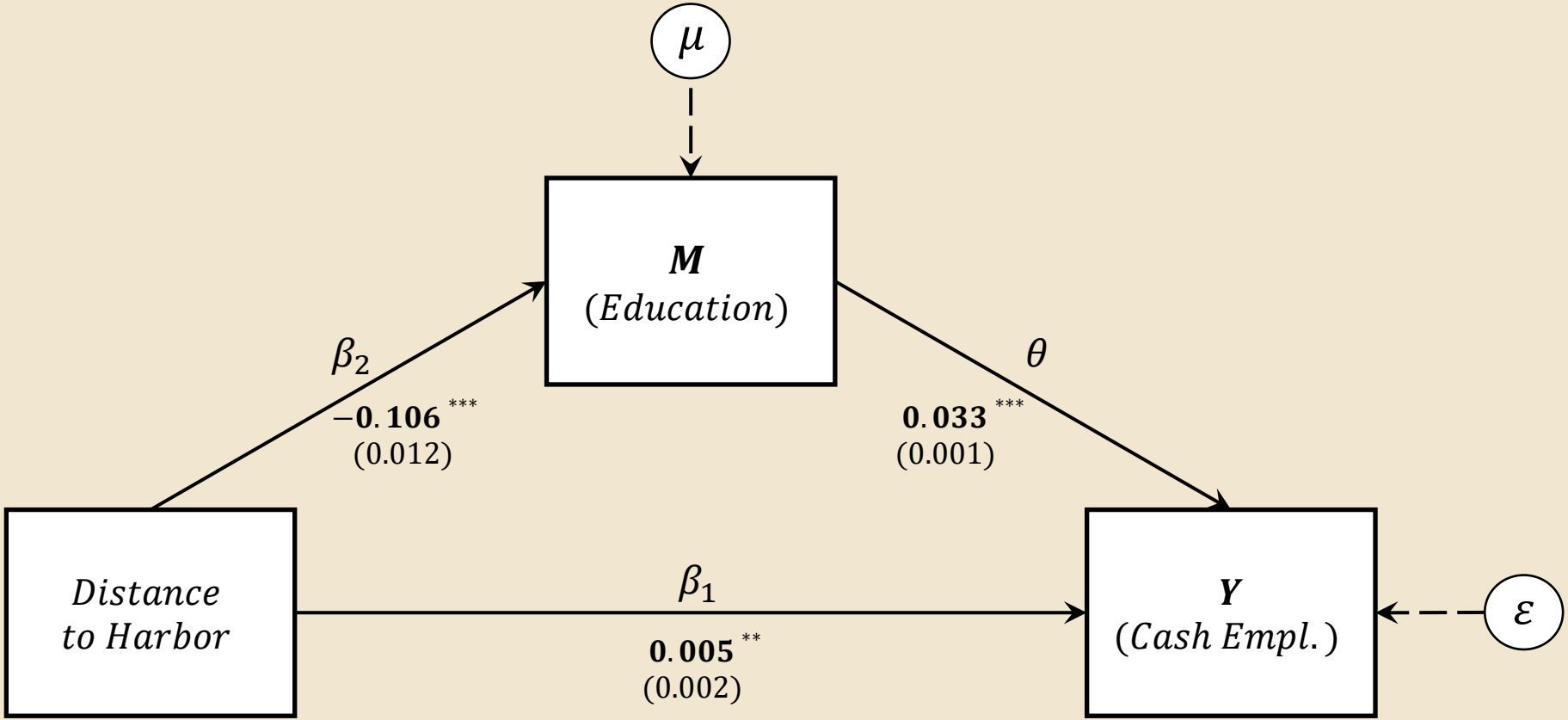
β_2 = ***Direct effect*** of log(Distance to Harbor) on Mediator M

θ = ***Direct effect*** of Mediator M on Y
- *Education*
- *Urban*
- *Infrastructure, …*

$\beta_2 * \theta$ = ***Indirect effect*** of log(Distance to Harbor) on Y via Mediator M

$\beta_1 + (\beta_2 * \theta)$ = ***Total effect*** of log(Distance to Harbor) on Y

Empirical Approach (3/3)



Results

Results (1/4)

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0-1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Distance to Harbor)	-0.018*** (0.001)	**-0.009*** (0.002)**	0.073*** (0.004)	**0.035*** (0.006)**	-0.037*** (0.001)	**-0.019*** (0.002)**
Discrete Change of Distance from Harbor to the 3rd Quartile (564km)	*-0.115*	***-0.055***	*0.460*	***0.223***	*-0.234*	***-0.120***
Sample Mean of Dependent Var.	[0.39]		[1.28]		[0.51]	
Basic Controls	NO	YES	NO	YES	NO	YES
Urbanization Controls	NO	YES	NO	YES	NO	YES
Trade-related Controls	NO	YES	NO	YES	NO	YES
Full Geographic Controls	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	123,793	122,238	128,609	126,982	103,889	102,990
R-Squared	0.09	0.14	0.17	0.20	0.15	0.22

Results (2/4)

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0-1)	
	log(Distance to Harbor)	Δ R-Squared	log(Distance to Harbor)	Δ R-Squared	log(Distance to Harbor)	Δ R-Squared
	(1)	(2)	(3)	(4)	(5)	(6)
(a) No Controls	-0.020*** (0.001)	-	0.076*** (0.004)	-	-0.037*** (0.001)	-
(b) = (a) + Basic Controls	-0.020*** (0.001)	[0.054]	0.075*** (0.004)	[0.003]	-0.037*** (0.001)	[0.026]
(c) = (b) + Urbanization Controls	**-0.009*** (0.002)**	**[0.004]**	**0.024*** (0.004)**	**[0.021]**	**-0.014*** (0.001)**	**[0.036]**
(d) = (c) + Trade-related Controls	-0.009*** (0.002)	[0.000]	0.024*** (0.004)	[0.000]	-0.014*** (0.001)	[0.000]
(e) = (d) + Geographic Controls	-0.009*** (0.002)	[0.001]	0.024*** (0.004)	[0.000]	-0.019*** (0.002)	[0.003]
(f) = (e) + Educational Level	**-0.006** (0.002)**	**[0.017]**	**0.029*** (0.006)**	**[0.035]**	**-0.015*** (0.002)**	**[0.056]**
(g) = (f) + Institutions Score	-0.006** (0.002)	[0.000]	0.036*** (0.006)	[0.016]	-0.015*** (0.002)	[0.000]
(h) = (g) + Infrastructure	-0.005** (0.002)	[0.000]	**0.032*** (0.006)**	**[0.011]**	**-0.014*** (0.002)**	**[0.010]**
Country-Time FE	YES		YES		YES	
Observations	114,857		115,307		102,287	
R-Squared	0.18		0.25		0.28	

Results (3/4)

	Dependent Variable								
	Most important Issue: Education (0/1)	*Education*: Educational Level (0-9)	Urban (0/1)	*Most important Issue*: Institutions (0/1)	Institutions Score (1-4)	*Most important Issue*: Infrastructure (0/1)	*Infrastructure Present in Enumeration Area*: [Electricity Grid / Piped Water / Sewage / School / Paved Road / Health Clinic] (0-1)	*Helps your Country*: REC (0-3)	*Helps your Country*: AU (0-3)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
log(Distance to Harbor)	0.001	**-0.106*** **	**-0.071*** **	0.002	0.025***	0.005***	**-0.009*** **	0.034***	0.046***
	(0.001)	**(0.012)**	**(0.007)**	(0.001)	(0.003)	(0.001)	**(0.003)**	(0.009)	(0.008)
Discrete Change of Distance from Harbor to the 3rd Quartile (564km)	*0.007*	***-0.670***	***-0.449***	*0.010*	*0.158*	*0.030*	***-0.056***	*0.214*	*0.293*
Sample Mean of Dependent Var.	[0.06]	**[3.40]**	**[0.46]**	[0.09]	[2.81]	[0.06]	**[0.56]**	[1.80]	[1.68]
Basic Controls	YES	YES	YES	YES	YES	YES	YES	YES	YES
Urbanization Controls	YES	YES	YES	YES	YES	YES	YES	YES	YES
Trade-related Controls	YES	YES	YES	YES	YES	YES	YES	YES	YES
Full Geographic Controls	YES	YES	YES	YES	YES	YES	YES	YES	YES
Country-Time FE	YES	YES	YES	YES	YES	YES	YES	YES	YES
Observations	120,461	126,555	127,075	120,461	126,683	120,461	116,174	35,409	47,298
R-Squared	0.03	**0.29**	**0.30**	0.06	0.21	0.04	**0.43**	0.11	0.07

Results (4/4)

	Dependent Variable								
	Cash Employment (0/1)			*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)			*Possessions*: [Radio / TV / Motor Vehicle] (0-1)		
	Mediator: Education (0-9)	*Mediator*: Urban (0/1)	*Mediator*: Infrastructure (0-1)	*Mediator*: Education (0-9)	*Mediator*: Urban (0/1)	*Mediator*: Infrastructure (0-1)	*Mediator*: Education (0-9)	*Mediator*: Urban (0/1)	*Mediator*: Infrastructure (0-1)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Baseline (Total) Effect:									
log(Distance to Harbor)	**-0.009*** (0.002)**	**-0.012*** (0.002)**	-0.009*** (0.002)	**0.035*** (0.006)**	**0.055*** (0.006)**	0.037*** (0.006)	**-0.019*** (0.002)**	**-0.028*** (0.002)**	-0.019*** (0.002)
Direct Effect:									
log(Distance to Harbor)	**-0.005** (0.002)**	**-0.009*** (0.002)**	-0.008*** (0.002)	**0.027*** (0.006)**	**0.035*** (0.006)**	0.032*** (0.006)	**-0.015*** (0.002)**	**-0.019*** (0.002)**	-0.017*** (0.002)
Indirect Effect:									
Distance to Harbor via Mediator	**-0.003*** (0.000)**	**-0.004*** (0.000)**	-0.001*** (0.000)	**0.009*** (0.001)**	**0.020*** (0.002)**	0.005*** (0.002)	**-0.004*** (0.001)**	**-0.009*** (0.001)**	-0.002*** (0.001)
Direct Effect of Mediator:									
[Education / Urban / Infrastructure]	**0.033*** (0.001)**	**0.055*** (0.004)**	0.089*** (0.008)	**-0.082*** (0.002)**	**-0.284*** (0.010)**	-0.582*** (0.019)	**0.044*** (0.001)**	**0.134*** (0.003)**	0.210*** (0.006)
Proportion Mediated	**[0.39]**	**[0.30]**	[0.09]	**[0.25]**	**[0.36]**	[0.14]	**[0.21]**	**[0.33]**	[0.10]
Basic Controls	YES	YES	YES	YES	YES	YES	YES	YES	YES
Urbanization Controls	YES	YES	YES	YES	YES	YES	YES	YES	YES
Trade-related Controls	YES	YES	YES	YES	YES	YES	YES	YES	YES
Full Geographic Controls	YES	YES	YES	YES	YES	YES	YES	YES	YES
Country-Time FE	YES	YES	YES	YES	YES	YES	YES	YES	YES
Observations	121,823	122,238	115,480	126,401	126,982	116,084	102,514	102,990	102,990

Conclusion

- **Coastal proximity…**
  - … predicts a relevant part of individual living standards
  - … remains robust to the inclusion of a large array of controls & channels

- **Exploring potential channels highlights the mediating roles of…**
  - …Education
  - …Urbanization
  - …Infrastructure

Our findings lend support to the interrelation of first- and second-nature causes of development

Thank you!

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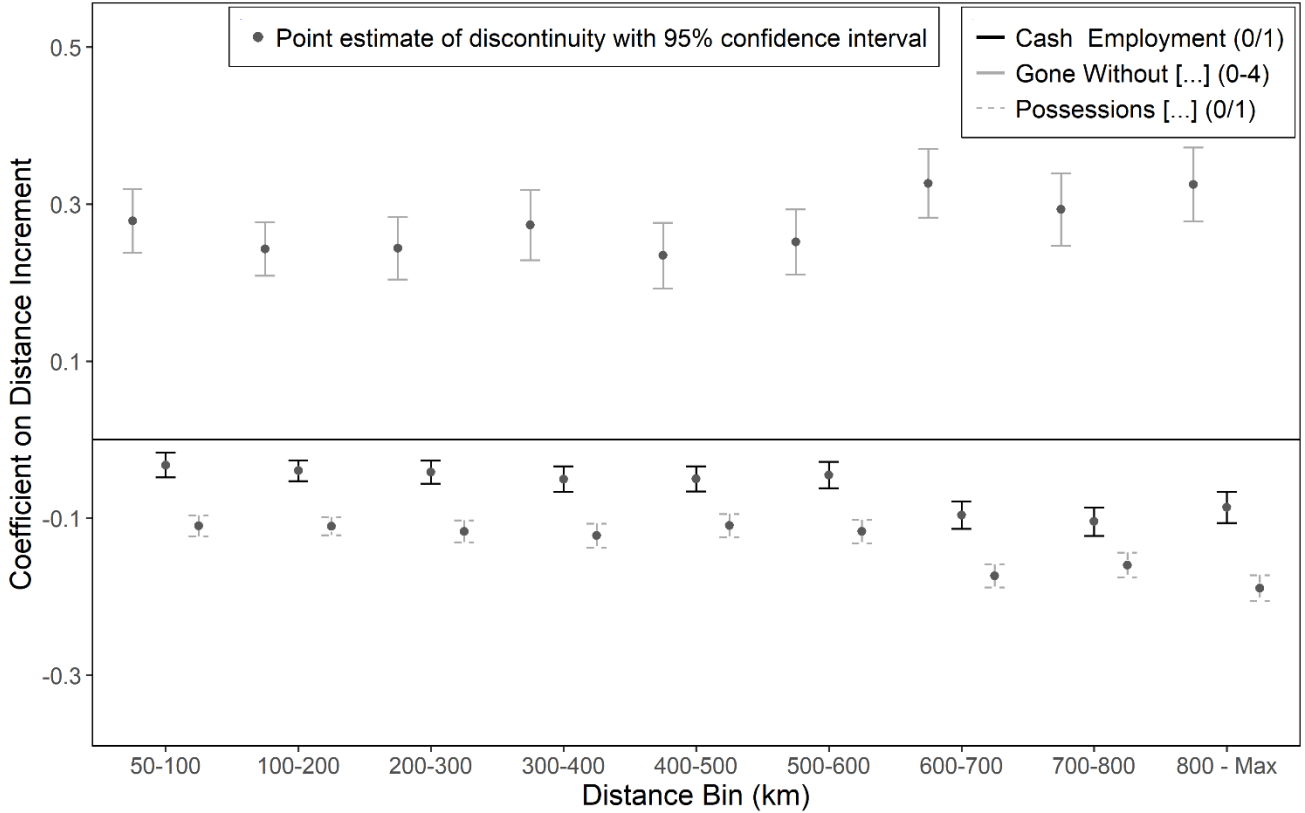
Backup

Backup



Notes: The plot depicts point estimates as well as their corresponding 95% confidence intervals produced from three separate regressions of the three main outcome variables - distinguished by black, grey and dashed-grey figures - on all harbor distance increments shown on the X-axis, and including country-sample fixed effects. Coefficients are interpreted as the average change in the outcome variable for individuals living within the distance increments to living within 50km to the harbor. Results are produced using the sample of coastal, sub-Saharan African countries from round 1 through round 7 of the geo-coded Afrobarometer surveys, except for the dashed estimates (Possessions), given that this question is available only from round 3 and onwards. Binary dependent variables are estimated through a simple LPM (Linear Probability Model) specification. Standard errors are clustered at the survey-enumeration level.

Backup

	Distribution across Sample							
	Mean	*St. Dev*	*Min.*	*1st Quartile*	*Median*	*3rd Quartile*	*Max.*	*N*
Basic Characteristics								
Age	36	14	18	25	33	44	130	127,462
Female (0/1)	0.50	0.5	0	0	1	1	1	128,747
Educational Level (0-9)	3.40	2.2	0	2	4	5	9	128,211
Trade-related Covariates								
Distance to Harbor (in km)	345	289	0.02	82	282	564	1346	128,804
Distance to Coast (in km)	278	276	0.06	26	188	468	1328	128,804
Distance to Navigable River (in km)	296	229	0.27	127	234	422	1111	128,868
Distance to Major Lake (in km)	814	683	0.17	230	623	1309	2749	128,868
Urbanization Covariates								
Urban (0/1)	0.46	0.5	0	0	0	1	1	128,656
Primate City < 25km (0/1)	0.19	0.4	0	0	0	0	1	128,868
Population Density (per sq. km)	1.99	5	0	0.1	0.2	1.3	125	128,848
Geographical Covariates								
Absolute Latitude	12	8.6	0	6	8	16	35	128,868
Elevation (in m)	543.01	595.5	0.0	48.0	276.0	1094.0	3914.0	128,860
Terrain Ruggedness (standardised)	0.00	1.0	-0.7	-0.6	-0.3	0.1	17.1	128,860
Land Suitability	0.46	0.2	0.0	0.3	0.4	0.6	1.0	128,802
Average Monthly Temperature (in Celsius)	26	3.8	8	24	28	29	33	128,860
Average Monthly Rainfall (in mm)	108	63	1	68	94	127	384	128,860
Growing Days (0-365)	231	82	0	178	244	296	365	128,868
Malaria Ecology Index	12	10	0	0	13	23	33	128,802
Mediterranean (0/1)	0.02	0.1	0	0	0	0	1	128,868
Desert (0/1)	0.04	0.2	0	0	0	0	1	128,868
Mangroves (0/1)	0.04	0.2	0	0	0	0	1	128,868
Tropical Forest (0/1)	0.31	0.5	0	0	0	1	1	128,868
Tropical Grassland (0/1)	0.51	0.5	0	0	1	1	1	128,868
Temperate Grassland (0/1)	0.01	0.1	0	0	0	0	1	128,868
Montane Grassland (0/1)	0.07	0.3	0	0	0	0	1	128,868

Backup

				Distribution across Distance (within Quartiles)				
	Mean	*St. Dev*	*Min.*	*1st Quartile*	*2nd Quartile*	*3rd Quartile*	*4th Quartile*	*N*
Dependent Variables								
Cash Employment (0/1)	0.39	0.49	0	0.40	0.38	0.40	0.38	123,857
How often: Gone without […] (0-4)	1.28	0.99	0	1.20	1.33	1.28	1.30	128,673
How often: Gone without Food (0-4)	0.97	1.16	0	0.94	1.03	0.93	0.99	128,420
How often: Gone without Water (0-4)	1.14	1.36	0	1.04	1.21	1.16	1.15	128,491
How often: Gone without Cash Income (0-4)	1.90	1.36	0	1.80	1.95	1.90	1.94	122,427
How often: Gone without Medical Care (0-4)	1.15	1.26	0	1.05	1.22	1.16	1.18	128,169
Possessions : […] (0/1)	0.51	0.34	0	0.58	0.49	0.50	0.45	103,953†
Possessions: TV (0/1)	0.48	0.50	0	0.65	0.46	0.46	0.33	103,646†
Possessions: Radio (0/1)	0.75	0.43	0	0.77	0.74	0.74	0.73	103,902†
Possessions: Motor Vehicle (0/1)	0.30	0.46	0	0.32	0.28	0.31	0.29	103,452†
Pathways								
Most Important Issue : Education (0/1)	0.06	0.24	0	0.06	0.07	0.06	0.06	122,062
Most Important Issue: Institutions (0/1)	0.09	0.29	0	0.10	0.07	0.10	0.10	122,062
Most Important Issue: Infrastructure (0/1)	0.06	0.24	0	0.05	0.08	0.06	0.05	122,062
Present in EA: […] (0/1)	0.56	0.30	0	0.67	0.54	0.54	0.47	117,554‡
Present in EA: Electricity Grid (0/1)	0.64	0.48	0	0.82	0.61	0.61	0.53	116,989‡
Present in EA: Piped Water (0/1)	0.55	0.50	0	0.74	0.50	0.55	0.40	116,304‡
Present in EA: Sewage (0/1)	0.29	0.45	0	0.41	0.26	0.30	0.18	115,159‡
Present in EA: Paved Road (0/1)	0.43	0.49	0	0.54	0.41	0.42	0.33	116,975‡
Present in EA: School (0/1)	0.86	0.35	0	0.88	0.88	0.83	0.84	116,668‡
Present in EA: Health Clinic (0/1)	0.57	0.49	0	0.63	0.58	0.54	0.53	115,179‡
Institutions Score (1-4)	2.81	0.53	1	2.72	2.75	2.85	2.91	128,347
Helps your Country : REC (0-4)	1.80	0.97	0	1.72	1.79	1.81	1.86	35,710'
Helps your Country : AU (0-4)	1.68	0.99	0	1.64	1.64	1.71	1.71	47,726*
Occupation : Commercial Farmer (0/1)	0.01	0.10	0	0.01	0.01	0.01	0.01	37,349**

Backup

	Dependent Variable													
	How often gone without: [Cash Income] (0-4)		*How often gone without:* [Water] (0-4)		*How often gone without:* [Food] (0-4)		*How often gone without:* [Medical Care] (0-4)		*Possessions:* [Radio] (0/1)		*Possessions:* [TV] (0/1)		*Possessions:* [Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)
log(Distance to Harbor)	0.095***	0.051***	0.069***	0.015*	0.036***	0.023***	0.096***	0.053***	-0.019***	-0.017***	-0.085***	-0.039***	-0.008***	0.000
	(0.004)	(0.007)	(0.005)	(0.009)	(0.004)	(0.007)	(0.004)	(0.007)	(0.001)	(0.002)	(0.002)	(0.003)	(0.001)	(0.002)
Discrete Change of Distance from Harbor to the 3rd Quartile (564km)	***0.599***	***0.322***	***0.433***	***0.093***	***0.230***	***0.143***	***0.604***	***0.334***	***-0.121***	***-0.109***	***-0.535***	***-0.248***	***-0.050***	***-0.003***
Sample Mean of Dependent Var.	[1.90]		[1.14]		[0.97]		[1.15]		[0.75]		[0.48]		[0.30]	
Basic Controls														
Age		0.007***		0.010***		0.010***		0.015***		0.014***		0.011***		0.010***
		(0.001)		(0.001)		(0.001)		(0.001)		(0.001)		(0.001)		(0.000)
Age^2		0.000***		0.000***		0.000***		0.000***		0.000***		0.000***		0.000***
		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)		(0.000)
Female (0/1)		0.043***		-0.002		0.041***		0.002		-0.119***		-0.038***		-0.091***
		(0.006)		(0.006)		(0.006)		(0.006)		(0.003)		(0.002)		(0.003)
Urbanization Controls														
Urban (0/1)		-0.287***		-0.298***		-0.214***		-0.350***		0.062***		0.259***		0.083***
		(0.012)		(0.015)		(0.011)		(0.012)		(0.004)		(0.006)		(0.004)
Primate City (0/1)		-0.144***		-0.069***		-0.045***		-0.079***		0.004		0.051***		0.033***
		(0.021)		(0.023)		(0.016)		(0.018)		(0.006)		(0.009)		(0.008)
Population Density		0.007***		0.002*		0.004***		0.004***		-0.001*		0.002***		-0.003***
		(0.001)		(0.001)		(0.001)		(0.001)		(0.000)		(0.001)		(0.001)
Trade-related Controls														
Navigable River (0/1)		-0.125***		-0.137***		-0.152***		-0.075***		0.021**		0.044***		0.022***
		(0.023)		(0.030)		(0.024)		(0.025)		(0.009)		(0.011)		(0.008)
Major Lake (0/1)		0.060*		-0.001		0.053*		0.031		-0.008		-0.040***		-0.017**
		(0.032)		(0.039)		(0.027)		(0.029)		(0.010)		(0.013)		(0.009)
Full Geographic Controls	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES	YES
Observations	122,363	120,792	128,427	126,808	128,356	126,761	128,105	126,508	103,838	102,940	103,582	102,687	103,388	102,493
R-Squared	0.17	0.19	0.09	0.12	0.07	0.09	0.11	0.14	0.04	0.08	0.23	0.30	0.23	0.25

Backup

	Coefficient on *log(Distance to Harbor)* - if not indicated otherwise					
	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
Baseline Coefficient	-0.018***	-0.009***	0.073***	0.035***	-0.037***	-0.019***
	(0.001)	(0.002)	(0.004)	(0.006)	(0.001)	(0.002)
(a) *log(Beeline Distance to Harbor)* **(see Table A5)**	-0.019***	-0.011***	0.071***	0.033***	-0.037***	-0.019***
	(0.001)	(0.003)	(0.004)	(0.006)	(0.001)	(0.002)
(b) *log(Distance to Coastline)* **(see Table A6)**	-0.014***	-0.008***	0.050***	0.031***	-0.026***	-0.010***
	(0.001)	(0.002)	(0.003)	(0.005)	(0.001)	(0.002)
(c) *log(Beeline Distance to Coastline)* **(see Table A7)**	-0.014***	-0.011***	0.048***	0.027***	-0.026***	-0.011***
	(0.001)	(0.002)	(0.003)	(0.005)	(0.001)	(0.002)
(d) Including Harbor <25km Dummy **(see Table A8)**	-0.028***	-0.021***	0.038***	0.037***	-0.028***	-0.023***
	(0.002)	(0.003)	(0.006)	(0.007)	(0.002)	(0.002)
(e) Including Coast <25 km Dummy **(see Table A8)**	-0.019***	-0.010***	0.060***	0.031***	-0.033***	-0.018***
	(0.002)	(0.003)	(0.005)	(0.006)	(0.002)	(0.002)
(f) Keeping Observations constant **(see Table A9)**	-0.019***	-0.008***	0.074***	0.032***	-0.037***	-0.019***
	(0.001)	(0.003)	(0.004)	(0.006)	(0.001)	(0.002)
(g) Excluding Distances > 629 km **(see Table A10)**	-0.015***	-0.005**	0.074***	0.039***	-0.035***	-0.016***
	(0.002)	(0.003)	(0.004)	(0.006)	(0.001)	(0.002)
(h) Excluding Low-Precision Localities **(see Table A11)**	-0.018***	-0.011***	0.062***	0.029***	-0.034***	-0.018***
	(0.002)	(0.003)	(0.005)	(0.008)	(0.002)	(0.003)
(i) Including Survey Weights **(see Table A12)**	-0.018***	-0.006**	0.070***	0.029***	-0.037***	-0.017***
	(0.002)	(0.003)	(0.004)	(0.006)	(0.001)	(0.002)
(j) Country-Sample Clustering **(see Table A13)**	-0.018***	-0.009*	0.073***	0.035***	-0.037***	-0.019***
	(0.003)	(0.005)	(0.008)	(0.009)	(0.003)	(0.003)
Basic Controls	NO	YES	NO	YES	NO	YES
Urbanization Controls	NO	YES	NO	YES	NO	YES
Trade-related Controls	NO	YES	NO	YES	NO	YES
Full Geographic Controls	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES

Backup

Independent Variable	Explanatory Variable: log(Distance to Harbor), Oster Specifications: δ=0.5, R_{max}=1				
	β° Baseline Effect	β' Controlled Effect	$R^{\circ 2}$ Baseline	R'^2 Controlled	$[\beta', \beta^*]$ Identified Set
	(1)	(2)	(3)	(4)	(5)
Cash Employment (0/1)	-0.003	-0.009***	[0.00]	[0.14]	[-.027 , -0.009]
	(0.002)	(0.002)			
How often gone without: [Water / Food / Cash Income / Medical Care] (0-4)	0.025***	0.035***	[0.00]	[0.20]	[0.035 , 0.055]
	(0.006)	(0.006)			
Possessions [Radio / TV / Motor Vehicle] (0/1)	-0.030***	-0.019***	[0.02]	[0.22]	[-.019 , 0.002]
	(0.002)	(0.002)			
Basic Controls	NO	YES	NO	YES	YES
Urbanization Controls	NO	YES	NO	YES	YES
Trade-related Controls	NO	YES	NO	YES	YES
Full Geographic Controls	NO	YES	NO	YES	YES
Country-Time FE	NO	YES	NO	YES	YES

Notes: This table presents result from a formal analysis of coefficient stability and influence of unobservables according to Oster (2019), analyzing changes in the estimate of our main explanatory variable "log(Distance to Harbor)" when adding the full set of controls as well as fixed-effects, using our three main outcome variables. Columns (1) and (2) present the uncontrolled β°, as well as the controlled β' and columns (3) and (4) depict their respective regression's R-Squared. Column (5) shows the lower- and upper bound estimate of the identified set assuming $R_{max} = 1$ and $\delta = 0.5$. The bias-adjusted upper bound is calculated using $\beta^* = \beta' - \delta((\beta^{\circ} - \beta')*(R_{max} - R'^2))/(R'^2 - R^{\circ 2}))$, the lower bound is given by β'. Results are estimated using the main sample of coastal, sub-saharan African countries included in survey rounds 1 through 7 of the Afrobarometer. The sample used row 3 do not include individuals surveyed in Rounds 1 and 2 of the Afrobarometer, as questions on ownership of household items were not asked in this round. Binary dependent variables are estimated through a simple LPM (Linear Probability Model) specification.The standard errors reported are clustered at the survey-enumeration area level. * p < .1, ** p < .05, *** p < .01.

Backup

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
Distance to Harbor ('100km)	-0.018***	0.003	0.073***	0.017***	-0.037***	-0.009***
	(0.001)	(0.002)	(0.004)	(0.005)	(0.001)	(0.002)
Interaction:						
Distance to Harbor ('100km) * Landlocked (0/1)	0.030**	0.019	0.026	0.057*	0.025*	0.005
	(0.013)	(0.013)	(0.039)	(0.033)	(0.014)	(0.010)
Isolated Effect of the Distance to Harbor in Landlocked Countries						
Combined Effect:						
Distance + *Interaction*	0.011	0.022*	0.099**	0.074**	-0.012	-0.005
	[0.39]	[0.08]	[0.01]	[0.03]	[0.40]	[0.65]
Basic Controls	NO	YES	NO	YES	NO	YES
Urbanization Controls	NO	YES	NO	YES	NO	YES
Trade-related Controls	NO	YES	NO	YES	NO	YES
Full Geographic Controls	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	204,717	200,128	212,037	207,211	169,590	166,242
R-Squared	0.106	0.153	0.149	0.189	0.158	0.237

Backup

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Distance to Harbor)	-0.023***	-0.025***	0.026***	0.039***	-0.027***	-0.029***
	(0.003)	(0.003)	(0.007)	(0.008)	(0.002)	(0.003)
Interaction:						
Log(Distance to Harbor) * Urban (0/1)	0.016***	0.022***	0.010	-0.004	0.010***	0.014***
	(0.003)	(0.003)	(0.007)	(0.008)	(0.002)	(0.002)
Isolated Effect of the Distance to Harbor for Individuals living in Urban Environments						
Combined Effect:						
Log Distance + *Interaction*	-0.007***	-0.003	0.036***	0.034***	-0.016***	-0.015***
	[0.00]	[0.23]	[0.00]	[0.00]	[0.00]	[0.00]
Basic Controls	NO	YES	NO	YES	NO	YES
Urbanization Controls	NO	YES	NO	YES	NO	YES
Trade-related Controls	NO	YES	NO	YES	NO	YES
Full Geographic Controls	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	123,584	122,238	128,397	126,982	103,889	102,990
R-Squared	0.098	0.145	0.187	0.201	0.188	0.219

Backup

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Distance to Harbor)	-0.015***	-0.011**	0.083***	0.045***	-0.032***	-0.023***
	(0.004)	(0.006)	(0.008)	(0.012)	(0.003)	(0.006)
Interaction:						
Log(Distance to Harbor) * Commercial Farmer (0/1)	-0.047**	-0.047**	0.063	0.088**	0.005	-0.001
	(0.022)	(0.022)	(0.041)	(0.040)	(0.018)	(0.018)
Isolated Effect of the Distance to Harbor for Individuals working as Commercial Farmers						
Combined Effect:						
Log Distance + *Interaction*	-0.062***	-0.058***	0.146***	0.134***	-0.026***	-0.025***
	[0.00]	[0.00]	[0.00]	[0.00]	[0.00]	[0.00]
Basic Controls	NO	YES	NO	YES	NO	YES
Urbanization Controls	NO	YES	NO	YES	NO	YES
Trade-related Controls	NO	YES	NO	YES	NO	YES
Full Geographic Controls	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	33,084	32,296	37,481	36,637	13,239	13,080
R-Squared	0.061	0.095	0.106	0.146	0.117	0.222

Backup

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Distance to Harbor)	-0.023***	-0.014***	0.069***	0.031***	-0.039***	-0.021***
	(0.002)	(0.003)	(0.004)	(0.006)	(0.001)	(0.002)
Interaction:						
log(Distance to Harbor) * Young (0/1)	0.008***	0.010***	0.007*	0.008**	0.003*	0.004***
	(0.002)	(0.002)	(0.003)	(0.003)	(0.002)	(0.002)
Isolated Effect of the Distance to Harbor for Individuals below median Age (33)						
Combined Effect:						
log Distance + *Interaction*	-0.015***	-0.004	0.075***	0.039***	-0.036***	-0.017***
	[0.00]	[0.11]	[0.00]	[0.00]	[0.00]	[0.00]
Basic Controls	NO	YES	NO	YES	NO	YES
Urbanization Controls	NO	YES	NO	YES	NO	YES
Trade-related Controls	NO	YES	NO	YES	NO	YES
Full Geographic Controls	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	122,555	122,238	127,305	126,982	103,083	102,990
R-Squared	0.102	0.145	0.170	0.201	0.158	0.218

Backup

	Dependent Variable								
	Cash-Employment (0/1)			*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)			*Possessions*: [Radio / TV / Motor Vehicle] (0/1)		
	Mediator: Institutions Score (1-4)	*Mediator:* Helps your country: REC (0-3)	*Mediator:* Helps your country: AU (0-3)	*Mediator*: Institutions Score (1-4)	*Mediator:* Helps your country: REC (0-3)	*Mediator:* Helps your country: AU (0-3)	*Mediator*: Institutions Score (1-4)	*Mediator:* Helps your country: REC (0-3)	*Mediator:* Helps your country: AU (0-3)
	(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)
Baseline (Total) Effect:									
log(Distance to Harbor)	-0.009***	-0.008**	-0.016***	0.035***	0.037***	0.038***	-0.019***	-0.020***	-0.020***
	(0.002)	(0.004)	(0.004)	(0.006)	(0.010)	(0.009)	(0.002)	(0.004)	(0.003)
Direct Effect:									
log(Distance to Harbor)	-0.009***	-0.009**	-0.016***	0.041***	0.038***	0.040***	-0.019***	-0.021***	-0.021***
	(0.002)	(0.004)	(0.004)	(0.006)	(0.010)	(0.009)	(0.002)	(0.004)	(0.003)
Indirect Effect:									
Distance to Harbor via Mediator	0.000	0.000***	0.000***	-0.005***	-0.001***	-0.002***	0.000**	0.001***	0.001***
	(0.000)	(0.000)	(0.000)	(0.001)	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)
Direct Effect of Mediator:									
[Institutions / REC / AU]	0.001	0.011***	0.010***	-0.216***	-0.037***	-0.039***	-0.007**	0.016***	0.014***
	(0.004)	(0.003)	(0.002)	(0.008)	(0.006)	(0.005)	(0.003)	(0.002)	(0.002)
Proportion Mediated	[0.00]	[0.05]	[0.03]	[0.15]	[0.04]	[0.05]	[0.01]	[0.04]	[0.04]
Basic Controls	YES	YES	YES	YES	YES	YES	YES	YES	YES
Urbanization Controls	YES	YES	YES	YES	YES	YES	YES	YES	YES
Trade-related Controls	YES	YES	YES	YES	YES	YES	YES	YES	YES
Full Geographic Controls	YES	YES	YES	YES	YES	YES	YES	YES	YES
Country-Time FE	YES	YES	YES	YES	YES	YES	YES	YES	YES
Observations	121,897	35,216	47,063	126,602	35,380	47,265	102,677	27,769	39,882

Notes: This table presents results from a formal mediation analysis testing the influence of three potential mediators of log(Distance to Harbor) on our three main outcome variables, respectively. Row one presents the baseline effect, its counterpart is depictable in Table 1. Row two shows the direct effect of our main explanatory variable, i.e. the effect of distance not attributable to the mediating factor, while row 3 depicts the part of the effect which runs precisely via its influence on the mediator. Row four shows the direct effect of the mediator on the respective outcome variable. Results in each column come from a seperate SEM regression. Changes in the number of observations across columns stem from differencs in the response rates of dependent/independent variables. The sample used is comprised of coastal, sub-saharan African countries included in survey rounds 1 through 7 of the Afrobarometer. The sample used in columns (7), (8) and (9) do not include individuals surveyed in rounds 1 and 2 of the Afrobarometer, as questions on ownership of household items (infrastructure) were not asked in this round. Similiarly, the sample in columns (2), (5), (8) only include invidiuals surveyed in rounds 2, 4, and 6 and the sample in columns (3), (6), (9) only include invidiuals surveyed in rounds 2, 4, 5 and 6. Binary dependent variables are estimated through a simple LPM (Linear Probability Model) specification.The standard errors reported are clustered at the survey-enumeration area level. * p < .1, ** p < .05, *** p < .01.

Backup

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Distance to Harbor)	-0.013***	-0.016***	0.008	0.026***	-0.019***	-0.023***
	(0.003)	(0.003)	(0.006)	(0.008)	(0.002)	(0.003)
Interaction:						
log(Distance to Harbor) * Urban (0/1)	0.010***	0.015***	0.014**	0.000	0.007***	0.009***
	(0.003)	(0.003)	(0.007)	(0.007)	(0.002)	(0.002)
Interaction:						
log(Distance to Harbor) * + 1σ Education (sdz.)	0.017***	0.018***	-0.013**	-0.011**	0.004***	0.004***
	(0.002)	(0.002)	(0.005)	(0.005)	(0.002)	(0.002)
Interaction:						
log(Distance to Harbor) * + Urban (0/1) + 1σ Education (sdz.)	-0.011***	-0.013***	0.008	0.009	0.004**	0.004**
	(0.003)	(0.003)	(0.006)	(0.006)	(0.002)	(0.002)
Isolated Effect of the Distance to Harbor for Individuals living in Urban Environments						
Combined Effect:						
log Distance + *Interaction*	-0.003*	-0.001	0.023***	0.026***	-0.012***	-0.014***
	[0.08]	[0.67]	[0.00]	[0.00]	[0.00]	[0.00]
Isolated Effect of the Distance to Harbor for Individuals 1σ above Education mean (3.4)						
Combined Effect:						
log Distance + *Interaction*	0.004	0.002	-0.005	0.015	-0.015***	-0.019***
	[0.34]	[0.61]	[0.58]	[0.10]	[0.00]	[0.00]
Isolated Effect of the Distance to Harbor for Individuals 1σ above Education mean (3.4) living in Urban Environments						
Combined Effect:						
log Distance + *Interaction*	0.014***	0.017***	0.010	0.016*	-0.008***	-0.010***
	[0.00]	[0.00]	[0.12]	[0.05]	[0.00]	[0.00]
Basic Controls	NO	NO	NO	YES	NO	YES
Urbanization Controls	NO	NO	NO	YES	NO	YES
Trade-related Controls	NO	NO	NO	YES	NO	YES
Full Geographic Controls	NO	NO	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	123,142	121,823	127,849	126,472	103,469	102,585
R-Squared	0.118	0.162	0.213	0.224	0.246	0.276

Backup – Full Table (1/2)

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Distance to Harbor)	-0.018***	-0.009***	0.073***	0.035***	-0.037***	-0.019***
	(0.001)	(0.002)	(0.004)	(0.006)	(0.001)	(0.002)
Discrete Change of Distance from Harbor to the 3rd Quartile (564km)	***-0.115***	***-0.055***	***0.460***	***0.223***	***-0.234***	***-0.120***
Sample Mean of Dependent Var.	[0.39]		[1.28]		[0.51]	
Basic Controls						
Age	0.031***		0.011***		0.012***	
	(0.001)		(0.001)		(0.000)	
Age^2	0.000***		0.000***		0.000***	
	(0.000)		(0.000)		(0.000)	
Female (0/1)	-0.106***		0.020***		-0.083***	
	(0.003)		(0.004)		(0.002)	
Urbanization Controls						
Urban (0/1)	0.055***		-0.284***		0.134***	
	(0.004)		(0.010)		(0.003)	
Primate City (0/1)	0.029***		-0.084***		0.029***	
	(0.007)		(0.016)		(0.006)	
Population Density	-0.001		0.004***		-0.001*	
	(0.000)		(0.001)		(0.000)	
Trade-related Controls						
Navigable River (0/1)	-0.013		-0.121***		0.029***	
	(0.009)		(0.021)		(0.008)	
Major Lake (0/1)	0.010		0.033		-0.023***	
	(0.012)		(0.024)		(0.008)	

Backup – Full Table (2/2)

Full Geographic Controls						
Abs. Latitude	-0.002		-0.015***		0.001	
	(0.001)		(0.002)		(0.001)	
Elevation (km)	-0.016		-0.115***		0.038***	
	(0.013)		(0.028)		(0.012)	
Ruggedness (Standardized)	-0.004		0.015*		-0.006**	
	(0.004)		(0.008)		(0.003)	
Land Suitability (0-1)	0.021*		0.189***		0.011	
	(0.012)		(0.027)		(0.009)	
Monthly Temperature (Celsius)	-0.009***		0.020***		-0.001	
	(0.002)		(0.005)		(0.002)	
Monthly Rainfall (Standardized)	-0.003		0.003		-0.001	
	(0.004)		(0.009)		(0.003)	
Growing Days (0-365)	0.000		-0.001***		0.000**	
	(0.000)		(0.000)		(0.000)	
Malaria Index	0.000		0.004***		-0.001***	
	(0.000)		(0.001)		(0.000)	
Mediterraenean (0/1)	0.014		0.038		0.038	
	(0.037)		(0.084)		(0.031)	
Desert (0/1)	0.028		0.170**		0.024	
	(0.035)		(0.077)		(0.030)	
Mangroves (0/1)	0.017		0.129*		-0.005	
	(0.034)		(0.074)		(0.028)	
Tropical Forest (0/1)	0.041		0.037		0.025	
	(0.032)		(0.072)		(0.027)	
Tropical Grassland (0/1)	0.029		0.070		0.017	
	(0.032)		(0.071)		(0.027)	
Temperate Grassland (0/1)	0.046		0.146*		0.016	
	(0.039)		(0.089)		(0.032)	
Montane Grassland (0/1)	0.032		0.229***		-0.007	
	(0.034)		(0.076)		(0.029)	
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	123,793	122,238	128,609	126,982	103,889	102,990
R-Squared	0.09	0.14	0.17	0.20	0.15	0.22

Full Tables

Backup - Beeline

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Beeline Distance to Harbor)	-0.019***	-0.011***	0.071***	0.033***	-0.037***	-0.019***
	(0.001)	(0.003)	(0.004)	(0.006)	(0.001)	(0.002)
Discrete Change of Distance from Harbor to the 3rd Quartile (506km)	***-0.117***	***-0.067***	***0.440***	***0.204***	***-0.229***	***-0.115***
Sample Mean of Dependent Var.	[0.39]		[1.28]		[0.51]	
Basic Controls						
Age		0.031***		0.011***		0.012***
		(0.001)		(0.001)		(0.000)
Age^2		0.000***		0.000***		0.000***
		(0.000)		(0.000)		(0.000)
Female (0/1)		-0.106***		0.020***		-0.083***
		(0.003)		(0.004)		(0.002)
Urbanization Controls						
Urban (0/1)		0.055***		-0.285***		0.135***
		(0.004)		(0.010)		(0.003)
Primate City (0/1)		0.026***		-0.087***		0.029***
		(0.007)		(0.016)		(0.006)
Population Density		-0.001		0.004***		-0.001
		(0.000)		(0.001)		(0.000)
Trade-related Controls						
Navigable River (0/1)		-0.012		-0.125***		0.031***
		(0.009)		(0.020)		(0.008)
Major Lake (0/1)		0.011		0.033		-0.023***
		(0.012)		(0.024)		(0.008)
Full Geographic Controls	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	123,793	122,238	128,609	126,982	103,889	102,990
R-Squared	0.10	0.14	0.17	0.20	0.15	0.22

Backup - Coastline

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Distance to Coastline)	-0.014***	-0.008***	0.050***	0.031***	-0.026***	-0.010***
	(0.001)	(0.002)	(0.003)	(0.005)	(0.001)	(0.002)
Discrete Change of Distance from the Coast to the 3rd Quartile (468km)	***-0.085***	***-0.047***	***0.303***	***0.188***	***-0.161***	***-0.063***
Sample Mean of Dependent Var.	[0.39]		[1.28]		[0.51]	
Basic Controls						
Age		0.031***		0.011***		0.012***
		(0.001)		(0.001)		(0.000)
Age^2		0.000***		0.000***		0.000***
		(0.000)		(0.000)		(0.000)
Female (0/1)		-0.106***		0.020***		-0.082***
		(0.003)		(0.004)		(0.002)
Urbanization Controls						
Urban (0/1)		0.055***		-0.285***		0.136***
		(0.004)		(0.010)		(0.003)
Primate City (0/1)		0.033***		-0.102***		0.043***
		(0.007)		(0.014)		(0.005)
Population Density		-0.001		0.004***		0.000
		(0.000)		(0.001)		(0.000)
Trade-related Controls						
Navigable River (0/1)		-0.011		-0.130***		0.032***
		(0.009)		(0.021)		(0.008)
Major Lake (0/1)		0.012		0.026		-0.023***
		(0.012)		(0.024)		(0.008)
Full Geographic Controls	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	123,793	122,238	128,609	126,982	103,889	102,990
R-Squared	0.09	0.14	0.16	0.20	0.15	0.22

Backup – Coastline beeline

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Beeline Distance to Coastline)	-0.014***	-0.011***	0.048***	0.027***	-0.026***	-0.011***
	(0.001)	(0.002)	(0.003)	(0.005)	(0.001)	(0.002)
Discrete Change of Distance from the Coast to the 3rd Quartile (426km)	***-0.087***	***-0.063***	***0.288***	***0.162***	***-0.158***	***-0.063***
Sample Mean of Dependent Var.	[0.39]		[1.28]		[0.51]	
Basic Controls						
Age	0.031***		0.011***		0.012***	
	(0.001)		(0.001)		(0.000)	
Age^2	0.000***		0.000***		0.000***	
	(0.000)		(0.000)		(0.000)	
Female (0/1)	-0.106***		0.020***		-0.082***	
	(0.003)		(0.004)		(0.002)	
Urbanization Controls						
Urban (0/1)	0.055***		-0.286***		0.136***	
	(0.004)		(0.010)		(0.003)	
Primate City (0/1)	0.031***		-0.105***		0.043***	
	(0.007)		(0.015)		(0.005)	
Population Density	-0.001		0.004***		0.000	
	(0.000)		(0.001)		(0.000)	
Trade-related Controls						
Navigable River (0/1)	-0.010		-0.130***		0.033***	
	(0.009)		(0.021)		(0.008)	
Major Lake (0/1)	0.013		0.028		-0.023***	
	(0.012)		(0.024)		(0.008)	
Full Geographic Controls	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	123,793	122,238	128,609	126,982	103,889	102,990
R-Squared	0.09	0.14	0.16	0.20	0.15	0.22

Backup – Harbor & coast

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Distance to Harbor)	-0.021***	-0.010***	0.037***	0.031***	-0.023***	-0.018***
	(0.003)	(0.003)	(0.007)	(0.006)	(0.002)	(0.002)
Discrete Change of Distance from Harbor to the 3rd Quartile (564km)	***-0.133***	***-0.064***	***0.232***	***0.195***	***-0.147***	***-0.116***
Sample Mean of Dependent Var.	[0.39]		[1.28]		[0.51]	
Trade-related Controls						
Harbor (0/1)	-0.071***		0.008		-0.025***	
	(0.010)		(0.025)		(0.008)	
Coast (0/1)		-0.013*		-0.039**		0.006
		(0.008)		(0.018)		(0.006)
Navigable River (0/1)	-0.013	-0.013	-0.121***	-0.122***	0.029***	0.029***
	(0.009)	(0.009)	(0.021)	(0.020)	(0.008)	(0.008)
Major Lake (0/1)	0.016	0.010	0.032	0.032	-0.021***	-0.023***
	(0.012)	(0.012)	(0.024)	(0.024)	(0.008)	(0.008)
Urbanization Controls						
Urban (0/1)	0.056***	0.055***	-0.285***	-0.283***	0.135***	0.134***
	(0.004)	0.0043	(0.010)	0.0099	(0.003)	0.0035
Primate City (0/1)	0.044***	0.031***	-0.085***	-0.078***	0.034***	0.028***
	(0.008)	(0.007)	(0.016)	(0.016)	(0.006)	(0.006)
Population Density	0.000	-0.001	0.004***	0.004***	-0.001*	-0.001*
	(0.000)	(0.000)	(0.001)	(0.001)	(0.000)	(0.000)
Basic Controls						
Age	0.031***	0.031***	0.011***	0.011***	0.012***	0.012***
	(0.001)	0.0006	(0.001)	0.0009	(0.000)	0.0004
Age^2	0.000***	0.000***	0.000***	0.000***	0.000***	0.000***
	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)	(0.000)
Female (0/1)	-0.106***	-0.106***	0.020***	0.020***	-0.083***	-0.083***
	(0.003)	(0.003)	(0.004)	(0.004)	(0.002)	(0.002)
Full Geographic Controls	YES	YES	YES	YES	YES	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	122,238	122,238	126,982	126,982	102,990	102,990
R-Squared	0.15	0.14	0.20	0.20	0.22	0.22

Backup – Constant obs.

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Distance to Harbor)	-0.019***	-0.008***	0.074***	0.032***	-0.037***	-0.019***
	(0.001)	(0.003)	(0.004)	(0.006)	(0.001)	(0.002)
Discrete Change of Distance from Harbor to the 3rd Quartile (547km)	***-0.118***	***-0.049***	***0.463***	***0.201***	***-0.232***	***-0.118***
Sample Mean of Dependent Var.	[0.39]		[1.33]		[0.51]	
Basic Controls						
Age	0.035***		0.011***		0.012***	
	(0.001)		(0.001)		(0.000)	
Age^2	0.000***		0.000***		0.000***	
	(0.000)		(0.000)		(0.000)	
Female (0/1)	-0.114***		0.022***		-0.083***	
	(0.003)		(0.005)		(0.002)	
Urbanization Controls						
Urban (0/1)	0.060***		-0.288***		0.135***	
	(0.005)		(0.011)		(0.003)	
Primate City (0/1)	0.030***		-0.076***		0.029***	
	(0.007)		(0.018)		(0.006)	
Population Density	-0.001**		0.003***		-0.001*	
	(0.000)		(0.001)		(0.000)	
Trade-related Controls						
Navigable River (0/1)	-0.018*		-0.143***		0.029***	
	(0.010)		(0.022)		(0.008)	
Major Lake (0/1)	-0.001		0.030***		-0.023***	
	(0.012)		(0.003)		(0.008)	
Full Geographic Controls	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	102,460	102,460	102,460	102,460	102,460	102,460
R-Squared	0.11	0.17	0.17	0.20	0.15	0.22

Backup – Excl. large distances

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Distance to Harbor)	-0.015***	-0.005**	0.074***	0.039***	-0.035***	-0.016***
	(0.002)	(0.003)	(0.004)	(0.006)	(0.001)	(0.002)
Discrete Change of Distance from Harbor to the 3rd Quartile (410km)	***-0.093***	***-0.032***	***0.444***	***0.232***	***-0.207***	***-0.097***
Sample Mean of Dependent Var.	[0.39]		[1.27]		[0.53]	
Basic Controls						
Age	0.032***		0.011***		0.012***	
	(0.001)		(0.001)		(0.000)	
Age^2	0.000***		0.000***		0.000***	
	(0.000)		(0.000)		(0.000)	
Female (0/1)	-0.101***		0.027***		-0.087***	
	(0.003)		(0.005)		(0.002)	
Urbanization Controls						
Urban (0/1)	0.050***		-0.296***		0.131***	
	(0.005)		(0.011)		(0.004)	
Primate City (0/1)	0.033***		-0.076***		0.033***	
	(0.007)		(0.016)		(0.006)	
Population Density	-0.001**		0.004***		-0.001**	
	(0.000)		(0.001)		(0.000)	
Trade-related Controls						
Navigable River (0/1)	-0.008		-0.108***		0.027***	
	(0.010)		(0.024)		(0.008)	
Major Lake (0/1)	0.042**		0.015***		-0.019	
	(0.019)		(0.003)		(0.016)	
Full Geographic Controls	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	99,302	98,269	103,029	101,945	84,589	83,929
R-Squared	0.10	0.15	0.18	0.22	0.15	0.21

Backup – Drop low prec.

	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions :* [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Distance to Harbor)	-0.018***	-0.011***	0.062***	0.029***	-0.034***	-0.018***
	(0.002)	(0.003)	(0.005)	(0.008)	(0.002)	(0.003)
Discrete Change of Distance from Harbor to the 3rd Quartile (542km)	***-0.111***	***-0.068***	***0.374***	***0.173***	***-0.204***	***-0.108***
Sample Mean of Dependent Var.	[0.40]		[1.21]		[0.51]	
Basic Controls						
Age		0.034***		0.011***		0.017***
		(0.001)		(0.001)		(0.001)
Age^2		0.000***		0.000***		0.000***
		(0.000)		(0.000)		(0.000)
Female (0/1)		-0.105***		0.022***		-0.088***
		(0.004)		(0.006)		(0.003)
Urbanization Controls						
Urban (0/1)		0.046***		-0.291***		0.124***
		(0.006)		(0.014)		(0.005)
Primate City (0/1)		0.035***		-0.117***		0.044***
		(0.010)		(0.021)		(0.007)
Population Density		-0.001		0.006***		-0.001**
		(0.001)		(0.001)		(0.001)
Trade-related Controls						
Navigable River (0/1)		-0.012		-0.110***		0.031***
		(0.012)		(0.027)		(0.010)
Major Lake (0/1)		-0.002		0.002		-0.025**
		(0.018)		(0.003)		(0.012)
Full Geographic Controls	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	61,731	60,869	64,023	63,122	49,067	48,594
R-Squared	0.08	0.14	0.18	0.21	0.15	0.23

Backup - Weighted

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Distance to Harbor)	-0.018***	-0.006**	0.070***	0.029***	-0.037***	-0.017***
	(0.002)	(0.003)	(0.004)	(0.006)	(0.001)	(0.002)
Discrete Change of Distance from Harbor to the 3rd Quartile (425km)	***-0.112***	***-0.039***	***0.446***	***0.186***	***-0.232***	***-0.106***
Sample Mean of Dependent Var.	[0.39]		[1.28]		[0.51]	
Basic Controls						
Age		0.031***		0.011***		0.012***
		(0.001)		(0.001)		(0.000)
Age^2		0.000***		0.000***		0.000***
		(0.000)		(0.000)		(0.000)
Female (0/1)		-0.105***		0.021***		-0.083***
		(0.003)		(0.005)		(0.002)
Urbanization Controls						
Urban (0/1)		0.055***		-0.281***		0.135***
		(0.005)		(0.011)		(0.004)
Primate City (0/1)		0.030***		-0.090***		0.030***
		(0.008)		(0.017)		(0.006)
Population Density		0.000		0.004***		-0.001
		(0.000)		(0.001)		(0.000)
Trade-related Controls						
Navigable River (0/1)		-0.009		-0.111***		0.027***
		(0.010)		(0.022)		(0.008)
Major Lake (0/1)		0.019		0.023		-0.020**
		(0.013)		(0.025)		(0.009)
Full Geographic Controls	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	123,793	122,238	128,608	126,982	103,889	102,990
R-Squared	0.10	0.15	0.16	0.20	0.15	0.22

Backup – Country-Sample Clustering

	Dependent Variable					
	Cash Employment (0/1)		*How often gone without:* [Water / Food / Cash Income / Medical Care] (0-4)		*Possessions*: [Radio / TV / Motor Vehicle] (0/1)	
	(1)	(2)	(3)	(4)	(5)	(6)
log(Distance to Harbor)	-0.018***	-0.009*	0.073***	0.035***	-0.037***	-0.019***
	(0.003)	(0.005)	(0.008)	(0.009)	(0.003)	(0.003)
Discrete Change of Distance from Harbor to the 3rd Quartile (564km)	***-0.115***	***-0.055***	***0.460***	***0.223***	***-0.234***	***-0.120***
Sample Mean of Dependent Var.	[0.39]		[1.28]		[0.51]	
Basic Controls						
Age		0.031***		0.011***		0.012***
		(0.002)		(0.001)		(0.001)
Age^2		0.000***		0.000***		0.000***
		(0.000)		(0.000)		(0.000)
Female (0/1)		-0.106***		0.020***		-0.083***
		(0.007)		(0.005)		(0.006)
Urbanization Controls						
Urban (0/1)		0.055***		-0.284***		0.134***
		(0.007)		(0.018)		(0.007)
Primate City (0/1)		0.029**		-0.084***		0.029***
		(0.011)		(0.027)		(0.009)
Population Density		-0.001		0.004***		-0.001
		(0.001)		(0.001)		(0.001)
Trade-related Controls						
Navigable River (0/1)		-0.013		-0.121***		0.029***
		(0.012)		(0.026)		(0.010)
Major Lake (0/1)		0.010		0.033		-0.023**
		(0.020)		(0.036)		(0.010)
Full Geographic Controls	NO	YES	NO	YES	NO	YES
Country-Time FE	YES	YES	YES	YES	YES	YES
Observations	123,793	122,238	128,609	126,982	103,889	102,990
R-Squared	0.09	0.14	0.17	0.20	0.15	0.22