**Supplementary material 1**

Wealth index detail

Table S1. Asset variables and household characteristics used to construct the wealth index by year

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | **1988** | **1999** | **2006** | **2012** | **2016** |
| **Assets and household characteristics included in index** | Radio  TV  Refrigerator  Telephone  Vehicle  Floor material  Piped water  Sewage  Toilet | Radio  TV  Refrigerator  Telephone  Vehicle  Floor material  Piped water  Sewage  Toilet  Washing machine  Separate kitchen  Number of rooms | Refrigerator  Telephone  Vehicle  Floor material  Sewage  Washing machine  Number of rooms  Computer | Refrigerator  Telephone  Vehicle  Floor material  Sewage  Number of rooms  Computer  Separate kitchen  Number of lightbulbs  Pay TV  Internet connection | Refrigerator  Vehicle  Floor material  Number of rooms  Computer  Number of lightbulbs  Pay TV  Internet connection  Water source  Washing machine |
| **Eigenvalue of first principal component** | 3.9 | 4.3 | 3.6 | 4.1 | 3.7 |
| **Covariance**  **explained** | 43% | 36% | 40% | 37% | 33% |

Table S2. Ownership of assets and household characteristics by level of wealth and survey year, urban areas

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1988** | | | **1999** | | | **2006** | | | **2012** | | | **2016** | | |
|  | **Poorest~** | **Middle** | **Richest** | **Poorest** | **Middle** | **Richest** | **Poorest** | **Middle** | **Richest** | **Poorest** | **Middle** | **Richest** | **Poorest** | **Middle** | **Richest** |
| **N** | 3,758 | 3,232 | 3,738 | 2,143 | 3,979 | 5,156 | 7,966 | 12,152 | 14,652 | 7,871 | 11,718 | 14,771 | 2,132 | 1,668 | 746 |
|  | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** |
| **Fridge** | 15.8 | 89.4 | 99.8 | 16.4 | 80.0 | 99.2 | 47.4 | 94.2 | 99.7 | 60.4 | 94.8 | 99.4 | 49.6 | 93.6 | 98.3 |
| **Telephone** | 0.2 | 7.2 | 76.8 | 0.5 | 11.6 | 79.0 | 5.1 | 49.3 | 94.3 | 49.5 | 87.0 | 98.9 |  |  |  |
| **Vehicle** | 3.8 | 10.9 | 74.5 | 2.3 | 13.0 | 64.0 | 2.8 | 17.9 | 68.1 | 4.7 | 24.6 | 70.4 | 1.4 | 8.1 | 36.6 |
| **Floor material\*** | 1.7 | 2.2 | 2.6 | 1.8 | 2.2 | 2.7 | 1.9 | 2.2 | 2.6 | 2.0 | 2.3 | 2.7 | 1.9 | 2.2 | 2.6 |
| **Sewage type \*** | 2.2 | 1.1 | 1 | 1.8 | 1.3 | 1.1 | 1.6 | 1.2 | 1.0 | 1.4 | 1.1 | 1.0 |  |  |  |
| **Radio** | 76.3 | 97.7 | 99.8 | 67.3 | 90.6 | 98.1 |  |  |  |  |  |  |  |  |  |
| **TV** | 54.6 | 98.7 | 100 | 66.8 | 97.2 | 99.9 |  |  |  |  |  |  |  |  |  |
| **Water source** | 71.1 | 99.8 | 100 | 85.8 | 98.1 | 99.8 |  |  |  |  |  |  | 2.0 | 2.5 | 2.8 |
| **Toilet** | 68.5 | 99.9 | 100 | 84.9 | 99.8 | 100 |  |  |  |  |  |  |  |  |  |
| **Number of rooms\*** |  |  |  | 1.6 | 2.4 | 3.9 | 1.8 | 2.7 | 3.9 | 2.2 | 3.5 | 4.7 | 1.5 | 2.0 | 2.5 |
| **Washing machine** |  |  |  | 5.6 | 44.8 | 89.9 | 8.9 | 50.4 | 87.3 |  |  |  | 24.0 | 71.9 | 91.4 |
| **Kitchen** |  |  |  | 58.8 | 88.3 | 98.1 |  |  |  | 66.1 | 94.3 | 97.8 |  |  |  |
| **Computer** |  |  |  |  |  |  | 0.2 | 2.3 | 42.7 | 0.7 | 6.2 | 69.4 | 0.5 | 5.5 | 38.9 |
| **Number of light bulbs\*** |  |  |  |  |  |  |  |  |  | 3.3 | 5.6 | 9.4 | 3.5 | 5.3 | 8.0 |
| **Internet connection** |  |  |  |  |  |  |  |  |  | 0 | 1.4 | 57.7 | 0.2 | 1.8 | 29.9 |
| **Pay TV** |  |  |  |  |  |  |  |  |  | 5.4 | 19.1 | 61.5 | 23.1 | 50.1 | 69.8 |
| **Roof material** |  |  |  |  |  |  |  |  |  |  |  |  | 1.7 | 2.4 | 2.9 |

\*All assets presented as percentages except for floor and roof material, sewage type, water source (2016), number of rooms and number of light bulbs which are presented as means. Variables coded: 1 household owns the asset 0 does not own it; floor material: 1 dirt, 2 cement 3 other better materials; roof material: 1 very low quality materials 2 medium quality materials 3 higher quality materials; sewage type: 1 connected to main public sewage, 2 connected to septic tank, 3 not connected; water source: 1 tap within or outside household 0 other source of water; water source in 2016: 1 river, pond, well 2 pipe, public tap 3 tap inside of household; number of rooms and number of light bulbs are continuous and range from 0 to 8 and from 0 to 22 respectively.

~ Poor, middle and richest refer to tertiles of the wealth index.

Table S3. Ownership of assets and household characteristics by level of wealth and survey year, rural areas

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **1988** | | | **1999** | | | **2006** | | | **2012** | | | **2016** | | |
|  | **Poorest~** | **Middle** | **Richest** | **Poorest** | **Poorest** | **Middle** | **Richest** | **Middle** | **Richest** | **Poorest** | **Middle** | **Richest** | **Poorest** | **Middle** | **Richest** |
| **N** | 1,197 | 345 | 216 | 3,680 | 1,900 | 606 | 7,847 | 3,378 | 1,018 | 8,937 | 5,079 | 2,029 | 1,020 | 1,477 | 2,402 |
|  | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** | **%** |
| **Fridge** | 12.6 | 88.2 | 100 | 14.4 | 82.7 | 99.2 | 39.0 | 95.3 | 99.4 | 50.9 | 98.5 | 99.2 | 59.3 | 92.5 | 99.5 |
| **Telephone** | 0 | 5.5 | 60.2 | 0.2 | 4.7 | 38.9 | 7.1 | 45.3 | 87.2 | 27.8 | 79.3 | 96.6 |  |  |  |
| **Vehicle** | 5.7 | 18.3 | 71.2 | 5.3 | 32.0 | 77.6 | 6.0 | 41.9 | 84.2 | 8.6 | 48.1 | 82.2 | 1.2 | 7.5 | 45.7 |
| **Floor material\*** | 1.6 | 2.2 | 2.6 | 1.6 | 2.1 | 2.5 | 1.7 | 2.1 | 2.6 | 1.9 | 2.2 | 2.6 | 2.0 | 2.3 | 2.8 |
| **Sewage type\*** | 2.6 | 1.3 | 1.1 | 2.4 | 1.9 | 1.4 | 2.5 | 1.9 | 1.5 | 2.1 | 1.6 | 1.4 |  |  |  |
| **Radio** | 76.5 | 97.9 | 100 | 66.0 | 91.6 | 97.8 |  |  |  |  |  |  |  |  |  |
| **TV** | 43.9 | 97.2 | 100 | 52.2 | 96.9 | 99.0 |  |  |  |  |  |  |  |  |  |
| **Water source** | 59.2 | 100 | 100 | 55.1 | 88.8 | 96.5 |  |  |  |  |  |  | 2.3 | 2.7 | 2.9 |
| **Toilet** | 51.0 | 100 | 100 | 63.6 | 96.7 | 100 |  |  |  |  |  |  |  |  |  |
| **Number of rooms\*** |  |  |  | 1.8 | 2.7 | 4.4 | 1.9 | 2.8 | 3.9 | 2.5 | 3.7 | 4.8 | 1.3 | 1.7 | 2.3 |
| **Washing machine** |  |  |  | 4.1 | 45.1 | 90.2 | 8.9 | 51.1 | 82.5 |  |  |  | 25.9 | 20.1 | 91.7 |
| **Kitchen** |  |  |  | 79.6 | 95.6 | 99.7 |  |  |  | 79.7 | 96.8 | 99.3 |  |  |  |
| **Computer** |  |  |  |  |  |  | 0.1 | 1.1 | 21.1 | 0.3 | 5.0 | 47.3 | 1.1 | 7.1 | 57.2 |
| **Number of light bulbs\*** |  |  |  |  |  |  |  |  |  | 3.3 | 5.6 | 8.5 | 3.2 | 4.9 | 9.2 |
| **Internet connection** |  |  |  |  |  |  |  |  |  | 0 | 0.5 | 20.8 | 1.2 | 6.5 | 65.7 |
| **Pay TV** |  |  |  |  |  |  |  |  |  | 5.3 | 23.2 | 58.8 | 17.8 | 35.1 | 70.3 |
| **Roof material** |  |  |  |  |  |  |  |  |  |  |  |  | 1.8 | 2.7 | 2.9 |

\*All assets presented as percentages except for floor and roof material, sewage type, water source (2016), number of rooms and number of light bulbs which are presented as means. Variables coded: 1 household owns the asset 0 does not own it; floor material: 1 dirt, 2 cement 3 other better materials; roof material: 1 very low quality materials 2 medium quality materials 3 higher quality materials; sewage type: 1 connected to main public sewage, 2 connected to septic tank, 3 not connected; water source: 1 tap within or outside household 0 other source of water; water source in 2016: 1 river, pond, well 2 pipe, public tap 3 tap inside of household; number of rooms and number of light bulbs are continuous and range from 0 to 8 and from 0 to 22 respectively.

~ Poor, middle and richest refer to tertiles of the wealth index.