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# African Women Vulnerability Index: Focus on Rural Women

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# **African Women Vulnerability Index: Focus on Rural Women**

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#### **Abstract**

In this paper, we develop a new index labelled the African Women Vulnerability Index (AWVI) with a focus on rural women using Round 7 of the Afrobarometer Survey. The AWVI comprises 59 indicators in six dimensions namely: safety, empowerment, health, education, economic prosperity and digitalisation. Our findings show that: (i) Botswana performs best while women in Guinea and Sudan are the most vulnerable. Indeed, Mauritius appears as a good example in some dimensions such as health and digitalisation. (ii) Except for the dimension of digitalisation, rural women's vulnerabilities in other dimensions are very close to those at the national level. (iii) National vulnerability trends strongly explain rural women's vulnerability especially for the economic, empowerment and health dimensions.

**Keywords:** Index creation, gender, rural analysis, Africa

JEL Classification: C43, O18, O55.

#### 1. Introduction

The concern about gender exclusion has been extensively investigated in the existing literature. The main orientation in Africa is gender inequality. While women and men are born with the same rights to safety as well as access to social, health and education services, the reality shows that inequalities in access to the underlying services are still visible (ILO, 2011; African Union Commission, 2015). This reality is widely apparent in the context of Africa. The debate relative to gender has resurfaced for many reasons.

First, Goal 5 of the United Nations 2030 project for sustainable development is oriented towards the achievement of the objective of gender equality and empowerment: "Target 5.5: Ensure women's full and effective participation and equal opportunities for leadership at all levels of decision making in political, economic and public life" (SDSN, 2021). Moreover, Agenda 2063 of the African Union (AU) allocates an important weight to equality between women and men in order to attain sustainable development (African Union Commission, 2015).

Secondly, the literature on gender has shown that promoting gender equality and women economic empowerment will positively affect global economic activity (Abney & Laya, 2018; Asongu & Odhiambo, 2020a). Hence, according to the ILO (2011), reducing the gender gap in employment would generate an additional US\$1.6 trillion in output. Regarding sub-Saharan Africa, the gender gap reduction leads to a 0.2% increase in gross domestic product (GDP) growth. Reducing the gap in labour force participation rates between women and men by 25% by the year 2025 could raise GDP by 3.9% or US\$5.8 trillion. ActionAid International (2015) estimates thatif gender gaps in employment and wages were closed, African women could gain an additional US\$0.7 trillion. It is worthwhile to note that, beyond the concern of gender equality, equality in the strict sense is important not only because it produces growth, but also because it is valuable in itself, as a manifestation of social justice and human development.

To date and to the best of our knowledge, the literature on women's vulnerability and especially in African countries is very sparse. Here, women that we consider "vulnerable" are those that are neglected by the society, by their partners and are exposed to social pressures. Indeed, in this paper, we define several kinds of vulnerabilities (health, education, digitalisation, empowerment, safety and economic). For example, in the context of health, vulnerability affects access to the utilisation of health services while in the context of digitalisation, it affects access to information and communication technologies (ICTs) such as the internet. The existing studies are globally oriented towards gender inequality (Gender Inequality Index (GII) of the United Nations Development Program (UNDP), the World Economic Forum's Global Gender Gap Index, among others). Currently an African Gender Index (AGI) is jointly developed by African Development Bank Group and the United Nations Economic Commission for Africa (Africa Gender, 2020). The objective of this index is to calculate the inequality between women and men. The AGI is composed of three dimensions (economic, social and empowerment). Accordingly, the AGI is used to calculate the inequality between women and men, and is composed of three dimensions: the economic, the social, and the empowerment dimensions. Contrary to the gender parity index or gender inequality index, we assess the current situation of women both in urban and rural areas in relation to access affordability, the quality of infrastructures and government services, such as education, health, digitalisation safety, inter alia. Hence, we are not interested in a comparison of women and men or a ratio of female to male values including parity by socioeconomic characteristics (empowerment, health, education, labour, inter alia.).

The index we develop in this paper differs from the existing indexes in different ways. Firstly, it is constructed by proportion from individual level data of the Afrobarometer survey in 34 African countries. Secondly, unlike standard indexes of inequality, our index evaluates vulnerability and the exposure of women to safety, empowerment, health, education, economic prosperity and digitalisation. This approach allows us to assess the exposure of women as opposed to inequality. Finally, to extend the existing literature, we are interested specifically in the vulnerability ofrural women. This strategy is justified by the fact that women's vulnerability depends on place and context. Also, rural women play an important role in productivity and food security. For instance, according to the FAO (2011), if female farmers were given the same access to resources as men, their agricultural production could rise by 20% to 30%, the national agriculture yields could increase by 2.5% to 4% while the number of hungry people could be reduced by 12% to 17%. However, rural women have less access to land control than rural men (Aguilar *et al.*, 2014; Asongu & Odhiambo, 2020b; Uduji *et al.*, 2020, 2021)

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The objectives of the paper are threefold. First, we construct an index to rank African countries in terms of women's vulnerability with respect to different dimensions such as safety, empowerment, health, education, economic prosperity and digitalisation. Second, specific emphasis is placed on the vulnerability of rural women. Finally, we examine whether, the national vulnerability of women reflects the vulnerability of rural women. In other words, the third objective allows us to evaluate whether compared to urban women, more efforts should be placed in promoting rural women in order to improve their socio-economic conditions. The creation of the new women vulnerability index is important for several reasons. Firstly, to achieve the African Union's Agenda 2063 of sustainable development, we need to understand the level of women's vulnerability in every African country as well as detect where efforts have to be made. Secondly, the index brings together indicators showing vulnerabilities in safety, education, economic situation, empowerment, health and digitalization.

Thirdly, this index provides a useful tool not only for a panoramic view of women's vulnerability but also for both researchers and policy makers to synthesize and monitor the process towards Agenda 2063 and Goal 5 of the United Nations' 2030 project for sustainable development. Indeed, we focus on rural areas because specifying the vulnerability of rural women allows us to evaluate if national vulnerability explains rural vulnerability in African countries. The underlying reasons are consistent with the South African Women's Charter (1994) which argues that: "At the heart of women's marginalisation is the patriarchal order that confines women to the domestic arena and reserves for men the arena where political power and authority reside. Conventionally, democracy and human rights have been defined and interpreted in terms of men s experiences. Society has been organised and its institutions structured for the primary benefit of men" (Horn, 1994, p. 37).

The rest of the study is structured as follows. The construction of the index is provided in Section 2 with emphasis on the theoretical framework and data presentation, data normalization and insights into weighting and aggregating. The empirical results and corresponding discussed are provided in Section 3 while the robustness checks are covered in Section 4. Section 5 concludes with implications and future research directions.

# 2. The African Women Vulnerability Index (AWVI) construction 2.1 Theoretical framework and data presentation

According to a handbook on constructing composite indicators, the most important and problematic steps include the justification of the theoretical framework, the definition of dimensions, and the selection of variables (OECD & Joint Research Centre, 2008; Diop *et al.*, 2021). For Park and Claveria (2018), the theoretical framework represents the starting point of the composite indicator we need. In this study, the underpinnings of gender inequality and vulnerability discussed in the introduction constitute the theoretical foundation. We identify different vulnerabilities that African women face every day. Hence, we attempt to describe the vulnerabilities across different dimensions.

When constructing an index, the theoretical framework which justifies the selection of data is an important step because it is the cornerstone on which the index construction is based. In this paper, the selection of the indicators is guided by the literature on gender vulnerability index. For example, the African Gender Index (2019) of the African Union uses: (i) labour, access to resources and management as sub-components of the economic dimension; (ii) education and health as components of the social dimension and (iii) female and male shares on national parliaments, ministerial positions, land and house ownership, females in top management, managers, professionals and technicians to define the dimension of representation and decision making. Indeed, the United Nations Development Programme (UNDP) publishes two indices annually. The first is the Gender Inequality Index with three dimensions. The health dimension entails the maternal mortality ratio and adolescent birth rate. The empowerment dimension includes female population with at least secondary education, female shares of parliament seats while the labour market dimension consists of female labour force participation rates. The second index calculated by the UNDP measures the Gender Development inequality in the context of human development. The dimensions are health (measured by female and male life expectancy at birth), education (measured by expected years of schooling and female and male mean years of schooling for adult ages 25 years and older) and economic resources (measured by female and male estimated earned income). Another index of gender vulnerability is calculated by the International Plan in India. The index includes poverty (measured by 19 indicators), protection (26 indicators), education (68 indicators) and health (57 indicators).

To compute our index, we employ the dataset of the Afrobarometer. More precisely, we use Round 7 surveys of the dataset which includes 45823 interviews completed in 34 countries between September 2016 and September 2018. It is worthwhile to note that the survey is handled in a comparative analysis of public attitude. It evaluates the attitude of citizens towards aspects such as democracy and governance, civil society and markets, *inter alia*.

We can justify the choice of the Round 7 dataset survey on many fronts. Firstly, a special module on gender equality is carried out in the dataset, thus allowing us to directly detect responses about vulnerabilities. Secondly, the vulnerability of women could be appreciated as a personal status, and such information cannot easily be captured by secondary or macro level data. Fortunately, the Afrobarometer conducts face-to-face interviews in the language proposed by the respondent. Finally, it is a comprehensive survey covering most of African countries and freely available. Table 1 presents the sample characteristics and Table 2 the sample size by country and the proportion of male and female. It appears there is equilibrium between males and females while the sample is dominated slightly by the rural population.

In Table 3, we describe the chosen indicators and their labels in order to understand the reference responses. The African Women Vulnerability Index (AWVI) has six dimensions (safety, empowerment, health, education, economic prosperity and digitalisation). The safety dimension assesses how women are vulnerable about their treatment both physically and psychologically. Seventeen indicators are included in this dimension. The empowerment

dimension measures how African women are independent in their actions and whether they participate in society's decision-making process. Eleven indicators are in this dimension. For the health dimension, we have ten variables corresponding to the evaluation of women's social and health status. The education dimension assesses how women face problems of school services access and inequality in accessing educational opportunities. Six variables are included in this dimension. Regarding the economic dimension, seven indicators are selected. Within this dimension, we attempt to evaluate African women's vulnerabilities in the labour market, income and economic well-being. Finally, the digitalisation dimension (consisting of eight indicators) measures the level access to new technologies such as internet and bank services.

To construct our AWVI, we are only interested in women's responses to the interviews. The data are constituted by the proportion of women who are in a favourable situation according to the different questions. As is apparent in Table 3 on data description, we take the favourable response as the reference. So, all the data have a negative impact on vulnerability exposure. Here, the term favourable response refers to the proportion of the women who are in a privileged position regarding the question asked. For example, regarding the "Q89e. Own bank account", question, a value of 0.3 indicates that 30% of women have their own bank accounts against 70% who do not hold such bank accounts. Hence, the higher the value of the indicator, the better the country's performance. In effect, we calculated a vulnerability index based on the proportion (i.e.in % of women) that has access to education, safety, health, ICTs, bank services, inter alia. Thus, the more the proportion is low, the more women in the country (national or rural) are vulnerable.

#### 2.2 Data normalisation

There is a vast literature on data normalization methods among which we can mention Min-Max, ranking, Z-score, SoftMax, distance to a reference, *inter alia* (OECD & Joint Research Centre, 2008; Diop *et al.*, 2021). Each of these methods has its advantages and disadvantages but the results obtained are usually close, *ceteris paribus*. In this study, we use the well-known min-max method which is one of the most famous ways to normalize data (Diop & Asongu, 2020). It provides value scaled into the range [0, 1] where the minimum index and the maximum index are 0 to 1, respectively. One of the drawbacks of the method is that the presence of outliers could bias the results. Since we use proportions and therefore the same data measurement units, the probability that this event occurs is weak. The min-max transformation is given as follows:

$$I_{qc} = \frac{x_{qc} - min_c(x_q)}{max_c(x_q) - min_c(x_q)}$$

Where  $x_{qc}$  is the value of indicator q for country c. The minimum and the maximum values for each indicator are calculated across different countries. 34 of the 54 African countries are sampled for the period 2016 to 2018 because of data availability constraints at the time of the study. The data are from the latest round of the Afrobarometer Survey, notably: Round 7-2016/2018. Accordingly, the focus is exclusively on 34 African countries because the Afrobarometer Round 7 survey, from which indicators are borrowed, consists of individual interviews in 34 countries. Data are collected for both opinions and perceptions of individuals around land-related issues including women's land rights. Since we are in the presence of cross section data, there is a limitation caused by the absence of the time dimension because this structure does not allow us to identify the different changes over time. Hence, without a panel dimension, it is not possible to take into account the evolution of the index over time. We can

note that the Afrobarometer is collecting information for the next round (i.e. Round 8) and it should be interesting to compute the same indexes with these data in order to assess changes over time. The sampled countries are disclosed in Table 6 of the Appendix.

#### 2.3 Weighting and aggregating

In the existing literature on gender inequality and vulnerability, most of the studies previously discussed have used classical methods such as arithmetic or geometric means (Africa Gender, 2020). These methods of weighting and aggregating are criticized in statistical tools for index creation. Accordingly, they are sensitive to extreme values and are robust only if all values are equally important. In our paper, we use a multivariate data analysis technique for data aggregation. More specifically, we employ the principal component analysis (PCA) which best works mostly when the variables are not equally important (Tchamyou, 2017). It is used with the objective to reduce the number of variables by elucidating the observed variance of data via the linear relation of the original data. Loadings obtained from the PCA are used to compute the different weights instead of giving the same weight to all variables as it is with the arithmetic or geometric methods (Tchamyou *et al.*, 2019). In the first step, we run the PCA on the variables in each of the six dimensions as presented in the tables in order to derive alternative weights. Once the weights are obtained, we again employ the PCA to the six sub-indexes that are weighted to compile the AWVI.

#### 3. Results and discussion

Before interpreting the vulnerability scores, we first evaluate the results of the PCA for the selection of the number of component factors in order to determine the different weights. We use the Kaiser criterion which drops all factors with eigenvalues below 1, consistent with contemporary literature (Abdi & Williams, 2010; Asongu & Tchamyou, 2019; Diop *et al.*, 2021; Diop &Asongu, 2020). The results ofthe PCA, loadings and weights are presented in Table 4 and Table 5 for vulnerability at the national level and the rural population, respectively. For national and rural women vulnerabilities, we note different weights for all indicators mostly for the empowerment dimension and the composite index. This result confirms that classical methods of weighting and aggregating (arithmetic, geometric and harmonic means) are not robust in the construction of indexes in this field.

Table 6 presents the descriptive statistics of the indexes and their sub-dimensions. The scores range from 0 (worst score) to 1 (best score). For vulnerability at the national level, the composite index ranges from 0.273 to 0.848 with a mean of 0.503. On average, a higher score is obtained from the empowerment dimension (0.508) while the lowest performance is noted on health dimension. The most volatile dimension is digitalisation where the value ranges from 0.069 to 0.986. Regarding the rural RWVI, the composite index is apparent in the scale of 0.146 to 0.787, with a mean of 0.455 indicating that the performance decreases by 4.8 points in the rural population compared to the National Women Vulnerability Index (NWVI). We also note the lowest performance of the digitalisation vulnerability (0.355) which is characterised by a high spread (0.220 to 0.998). On average, with the exception of digitalisation for which vulnerability decreases by 10 points compared to the NWVI, there is a marginal gap between the two composite indexes.

#### 3.1 National Women Vulnerability Index (NWVI)

Now we are interested in the vulnerability at the national level and its ranking for all countries. The results are presented in Table 7. The index scores are scaled from 0 to 1 and the closer the value is to 0, the poorer is the performance and vice versa. Since we have 34 countries, the

ranking is from 1 (best country's performance) to 34 (worst country's performance). The NWVI reveals Botswana as the country where women are least vulnerable. Botswana earns a score of 0.848 and also ranks 1<sup>st</sup> in terms of safety (0.650) and education (0.688), 2<sup>nd</sup> (0.668) and 3<sup>rd</sup> in health and empowerment, respectively. It is worthwhile to note that in the economic dimension, this country takes the modest 11<sup>th</sup> place with a score of 0.485. Botswana is followed by Namibia (2<sup>nd</sup>), Gambia (3<sup>rd</sup>), Ghana (4<sup>th</sup>) and Mauritius (5<sup>th</sup>). Another key fact is that Mauritius ranks first in two dimensions (health (0.703) and digitalisation (0.986)). Sudanese women are the most vulnerable (0.273) even if the country performs well in digitalisation (8<sup>th</sup>).

#### 3.2 Rural Women Vulnerability Index (RWVI)

Table 8 presents the index scores only for the population of rural women. Once more, Botswana has the best score for the composite index (0.787). Namibia always keeps the 2<sup>nd</sup> place with a score of 0.730. Mauritius takes the 3<sup>rd</sup> place from Gambia which is now ranked 10<sup>th</sup>. Ghana continues to maintain the same rank (4<sup>th</sup>) as for the NWVI. Rural women in Guinea are the most vulnerable in Africa behind Morocco and Sudan, respectively. For the economic dimension, Ghana performs best (0.736) while Mauritius ranks best for health (0.717) and digitalisation (0.998). For education, Sao Tome and Principe is the top performer with a score of 0.613.

### 3.3 Comparative analysis between NWVI and RWVI

After evaluating the NWVI and the RWVI, we can now focus our analysis on the comparison between the two indexes already created. It is apparent from the descriptive statistics that on average, when the two composite indexes are considered, at the national level, the score is 0.503 while it corresponds to 0.455 in the rural context, showing a decrease of 4.8 points. However, the digitalisation dimension decreases substantially. In effect, digitalisation vulnerabilities decrease by 10 points (0.455 in the national index and 0.355 regarding the rural index). For a better view of the relationship between the indexes, a graph is used for illustration. Graph 1 confirms the strong relationships between the two indexes and their sub-dimensions. It appears that the national trend of women's vulnerabilities strongly explains rural women's vulnerabilities especially for the economic, empowerment and health dimensions.

It is also important to emphasize that while much difference is not apparent between the rural and the national index with the exception of the digitalization dimension, assessing the vulnerability index in the rural area is interesting for the study for a multitude of reasons. Firstly, to our knowledge, the existing literature has only focused on national vulnerability while women in rural areas are expected to be more exposed. Secondly, as we note in the introduction, rural women play an important role is some sectors such as food security, productivity, *inter alia*. Finally, specifying rural women vulnerability allows us to evaluate if national vulnerability explains rural vulnerability in African countries.

#### 4. Robustness checks

For robustness checks and sensitivity analysis, we make two changes. We first consider an alternative method for normalization. In place of the Min-Max approach, a SoftMax method is employed. Secondly, we replace the PCA for weighting and aggregating by a geometric mean of aggregation. This method is used for the African Gender index (Africa Gender, 2020). The results are presented in Table 9. The findings show that the indexes have not changed much on average, indicating that the results are robust to the use of alternative methods of normalization, weighting and aggregating. It is also worthwhile to emphasize that while only descriptive statistics with alternative methodologies are provided in this robustness check section owing to a word count constraint, the results are nonetheless robust in terms of country rankings.

#### 5. Conclusion and future research directions

In this paper, we have created women's vulnerability index in African countries. Departing from the existing indexes (such as, among others, AGI, GII), we have used data from the Afrobarometer Round 7 surveys where indicators are individual interviews in 34 countries. This option has the advantage of taking into account the personal status of women's vulnerabilities. In a second step, we focused on rural women by creating a rural women vulnerability index (RWVI).

The results can be summarized as follows. Firstly, both for national and rural indexes, Botswana is the best ranked. It is followed by countries such as Namibia, Mauritius and Ghana. Indeed, Mauritius ranks first in the health and digitalisation dimensions. Secondly, on average, with the exception of the digitalisation dimension where there is a significant difference in the scores between national and rural vulnerability indexes, rural women's vulnerabilities in other dimensions are very close to those at the national level. Finally, the findings show that the national trend of women's vulnerabilities strongly explains rural women's vulnerability especially for the economic, empowerment and health dimensions.

The established findings in this study obviously leave room for future research especially as it pertains to employing the indexes to assess issues surrounding sustainable development goals (SDGs). It is important to note that, this study focuses on the fifth sustainable development goal (SDG) concerned with the promotion of gender quality (i.e. SDG5) as apparent in the second paragraph of the introduction. Moreover, while some other SDGs could be highlighted in the indicators, the perspective that these measurements are skewed towards the female gender implies that SDG5 is still the focus of the study.

It is also worthwhile to clarify that the definition of the concept of "vulnerable" as employed in this study "i.e. women that are neglected by the society, by their partners and are exposed to social pressures", can be improved in the light of Gilson (2016). Hence, in future research, a nuanced definition is needed that incorporates the systemic nature of social reproduction and production systems of how society is organized. Accordingly, it is possible that while women could have less access to health care, the health care itself could be of poor quality and by extension, clarification is needed as to whether, women are not utilizing the services because they are poor, or because they are vulnerable and thus unable to access the services.

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## **Appendices**

**Table 1: Sample characteristics** 

		Weighted	Unweighted
	Male	49.90%	49.90%
Gender	Female	50.00%	50.10%
	Missing	0.00%	0.00%
	Urban	42.80%	43.30%
Location	Rural	55.50%	55.20%
Location	Semi-urban	1.60%	1.40%
	Peri-urban	0.10%	0.10%
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Source: Authors' calculation on data from Round 7 Afrobarometer Survey

Table 2: Sample size by country and proportion of male and female

Country	#Observations	Male	Female
Benin	1200	0.500	0.500
Botswana	1200	0.500	0.500
Burkina Faso	1200	0.498	0.502
Cabo Verde	1200	0.495	0.505
Cameroon	1202	0.502	0.498
Cote d'Ivoire	1200	0.500	0.500
Eswatini	1200	0.498	0.502
Gabon	1200	0.499	0.501
Gambia	1200	0.500	0.500
Ghana	2400	0.498	0.502
Guinea	1194	0.500	0.500

Kenya	1599	0.500	0.500
Lesotho	1200	0.500	0.500
Liberia	1200	0.500	0.500
Madagascar	1200	0.499	0.501
Malawi	1200	0.499	0.501
Mali	1200	0.500	0.500
Mauritius	1200	0.500	0.500
Morocco	1200	0.502	0.498
Mozambique	2392	0.597	0.493
Namibia	1200	0.495	0.505
Niger	1200	0.499	0.501
Nigeria	1600	0.501	0.499
Sao Tome P	1200	0.497	0.503
Senegal	1200	0.497	0.503
Sierra Leone	1200	0.499	0.501
South Africa	1840	0.500	0.500
Sudan	1200	0.499	0.501
Tanzania	2400	0.500	0.500
Togo	1200	0.500	0.500
Tunisia	1199	0.499	0.500
Uganda	1200	0.500	0.500
Zambia	1200	0.500	0.500
Zimbabwe	1200	0.497	0.503

Sources: authors, Male is the proportion of male and Female the proportion of female

Table 3: Description of dimensions and indicators

	Indicators	Labels
	Q86a. Experienced discrimination based on gender	0=Never
	Q78b. Justified for men to beat their wives	1=Never justified
	Q66. Difficulty to move across borders	4=Very easy
	Q60d. Feared violence by extremists	0=No, never,
	Q60a. Feared violence in neighbourhood	0=No, never
	Q57g. Better or worse: equal opportunities and	4=Better
	treatment for women	4_Dettel
	Q57b. Better or worse: personal safety	4=Better
	Q56q. Handling promoting equal rights/opportunities for women	4=Very well
	Q51. Treatment by public officials compared to others	3=Better
	Q50. Respected by public officials	3=A lot
_	Q49p. Difficulty to obtain police assistance	1=Very easy
Safety	Q43g. Trust police	3=A lot
Saf	Q40. How much fear political intimidation or violence	3=Not at all

Q11b. Have been physically attacked 0=No Q11a. Had something stolen from your house Q10a. How often felt unsafe walking in neighbourhood Q77d. Women and men have equal chance to own/inherit land Q95c. Who decides how money is used Q38f. Better if woman takes care of household Q38e. Women have equal right to land Q38d. Men have more right to job Q20b. Member of voluntary association or community group Q19b. Better or worse: freedom to join political organizations Q18b. Access to information: land ownership Q16. Men only as leaders vs. women leaders Q97a. Better or worse: socess to medical care Q56j. Handling ensuring enough to eat Q56j. Handling providing water and sanitation services Q49g. Pay bribe for medical care Q56g. How often gone without water Q49e. Difficulty to obtain medical treatment Q57c. Better or worse: government effectiveness on education Q57b. Women and men have equal chance to earn Q77b. Women and men have equal chance to earn Q77b. Women and men have equal chance to earn Q77b. Women and men have equal chance to earn Q77c. Women and men have equal chance to earn Q77d. Women and men have equal chance to earn Q57d. Women and men have equal chance to earn Q57d. Women and men have equal chance to earn Q57d. Women and men have equal chance to earn Q57d. Women and men have equal chance to earn		Q14. Freedom to say what you think about the society's	4=Completely free		
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Q94. Employment status Q77c. Women and men have equal chance of paying job Q77b. Women and men have equal chance to earn income Q8d. How often gone without cooking fuel Q8d. Your living conditions vs. others Q94. Employment status 3=Yes, full time 4=Agree, 5=Strongly agree 4=Agree, 5=Strongly agree 4=Agree, 5=Strongly agree 4=Better	duc				
Q77c. Women and men have equal chance of paying job  Q77b. Women and men have equal chance to earn income  Q8d. How often gone without cooking fuel  Q5. Your living conditions vs. others  4=Agree, 5=Strongly agree department of the paying 4=Agree, 5=Strongly agree 4=Better	Щ				
Q77b. Women and men have equal chance to earn income  Q8d. How often gone without cooking fuel Q5. Your living conditions vs. others  4=Agree, 5=Strongly agree depends on the second depends on the s			3=Yes, full time		
income  Q8d. How often gone without cooking fuel Q5. Your living conditions vs. others  4=Agree, 3=Strongry agree		job	4=Agree, 5=Strongly agree		
Q8d. How often gone without cooking fuel Q5. Your living conditions vs. others Q4B. Your present living conditions 5=Very good	ic ic	income	4=Agree, 5=Strongly agree		
Q5. Your living conditions vs. others Q4B. Your present living conditions 4=Better 5=Very good	шс				
☐ Q4B. Your present living conditions 5=Very good	onc				
	Ec	Q4B. Your present living conditions	5=Very good		

	Q4A. Country's present economic condition	5=Very good
	Q93. Electric connection from mains	5=All of the time
	Q91b. How often use the internet	4=Every day
	Q91a. How often use a mobile phone	4=Every day
n	Q90. Mobile phone access to internet	1=Yes, has Internet access
atic	Q89f. Own mobile phone	2=Yes, personally owns
Digitalisation	Q89e. Own bank account	2=Yes, personally owns
gita	Q89d. Own computer	2=Yes, personally owns
Di	Q89b. Own television	2=Yes, personally owns

Source: Authors' calculation on data from Round 7 Afrobarometer Survey. Note:\* Statement 2: Women should have the same chance of being elected to political office as men.

 Table 4: Principal Component Analysis and weights (National Level)

Princip	le Componen	t Analysis		Squared loadings						
Comp	Egen. Val.	Proportion	Cumulative	Variable	F1	F2	F3	F4	F5	Weights
Dimens	sion: safety									
1	4.225	0.248	0.248	Q86a	0.124	0.051	0.010	0.007	0.038	0.063
2	2.986	0.176	0.424	Q78b	0.000	0.006	0.273	0.070	0.043	0.062
3	2.099	0.123	0.548	Q66	0.071	0.045	0.001	0.000	0.031	0.040
4	1.367	0.080	0.628	Q60d	0.006	0.001	0.147	0.132	0.111	0.055
5	1.261	0.074	0.702	Q60a	0.113	0.020	0.000	0.022	0.017	0.050
6	0.927	0.055	0.757	Q57g	0.099	0.104	0.003	0.013	0.041	0.068
7	0.851	0.050	0.807	Q57b	0.012	0.214	0.057	0.027	0.006	0.072
8	0.694	0.041	0.848	Q56q	0.123	0.060	0.016	0.004	0.001	0.062
9	0.546	0.032	0.880	Q51	0.000	0.075	0.219	0.007	0.000	0.058
10	0.464	0.027	0.907	Q50	0.058	0.097	0.002	0.017	0.041	0.052
11	0.445	0.026	0.933	Q49p	0.031	0.068	0.117	0.016	0.116	0.062
12	0.314	0.018	0.952	Q43g	0.007	0.115	0.039	0.102	0.003	0.050
13	0.299	0.018	0.969	Q40	0.081	0.019	0.007	0.204	0.005	0.059
14	0.190	0.0112	0.981	Q14	0.006	0.081	0.100	0.001	0.274	0.069
15	0.160	0.009	0.990	Q11b	0.090	0.017	0.000	0.170	0.007	0.057
16	0.100	0.006	0.996	Q11a	0.120	0.006	0.007	0.009	0.083	0.055
17	0.068	0.004	1.000	Q10a	0.028	0.017	0.000	0.209	0.178	0.057
Dimens	sion: empowe	rment								
1	4.139	0.376	0.376	Q95c	0.081	0.001	0.047			0.054
2	1.980	0.180	0.556	Q38f	0.023	0.162	0.028			0.061
3	1.277	0.116	0.672	Q38e	0.162	0.116	0.006			0.122
4	0.983	0.089	0.762	Q38d	0.147	0.002	0.000			0.083

5	0.818	0.074	0.836	Q20b	0.071 0.168 0.085	0.099
6	0.683	0.062	0.898	Q19b	0.118 0.098 0.155	0.119
7	0.491	0.045	0.943	Q19a	0.088 0.149 0.158	0.116
8	0.295	0.027	0.970	Q18b	0.066 0.007 0.100	0.056
9	0.179	0.016	0.986	Q16	0.142 0.024 0.047	0.094
10	0.093	0.008	0.994	Q9	0.002 0.158 0.363	0.107
11	0.061	0.005	1.000	Q77d	0.100 0.113 0.007	0.088
Dime	nsion: Healtl	1				
1	2.883	0.288	0.288	Q92b	0.024 0.249 0.003	0.097
2	2.730	0.273	0.561	Q57a	0.153 0.003 0.099	0.085
3	2.193	0.220	0.781	Q56j	0.033 0.000 0.300	0.097
4	0.661	0.066	0.847	Q56i	0.088 0.003 0.295	0.116
5	0.520	0.052	0.899	Q56g	0.151 0.056 0.114	0.107
6	0.916	0.039	0.938	Q49g	0.194 0.003 0.079	0.095
7	0.241	0.024	0.962	Q49e	0.213 0.002 0.102	0.108
8	0.183	0.018	0.980	Q8c	0.074 0.226 0.000	0.107
9	0.122	0.012	0.992	Q8b	0.065 0.141 0.004	0.075
10	0.074	0.007	1.000	Q8a	0.003 0.315 0.001	0.111
Dime	nsion: Educa	tion				
1	2.275	0.379	0.379	Q97	0.007 0.157 0.476	0.161
2	1.475	0.246	0.625	Q77a	0.104 0.066 0.325	0.143
3	1.129	0.188	0.813	Q57c	0.106 0.259 0.178	0.169
4	0.650	0.108	0.922	Q56h	0.004 0.511 0.012	0.159
5	0.384	0.064	0.986	Q49c	0.372 0.002 0.005	0.175
6	0.085	0.014	1.000	Q49b	0.407 0.005 0.008	0.193
Dime	nsion: Econo	omic				
1	2.401	0.343	0.343	Q94	0.116 0.057 0.246	0.131

2	1.731	0.247	0.590	Q77c	0.292	0.064	0.120	0.177
3	1.420	0.203	0.793	Q77b	0.284	0.068	0.132	0.178
4	0.654	0.093	0.887	Q8d	0.029	0.036	0.434	0.135
5	0.471	0.067	0.954	Q5	0.007	0.318	0.022	0.108
6	0.312	0.044	0.998	Q4B	0.110	0.294	0.027	0.146
7	0.010	0.001	1.000	Q4A	0.162	0.163	0.0193	0.126
Dime	nsion: Digita	llisation						
1	5.439	0.777	0.777	Q93	0.124			0.124
2	0.704	0.101	0.878	Q91b	0.163			0.163
3	0.419	0.060	0.938	Q91a	0.122			0.122
4	0.253	0.036	0.974	Q90	0.166			0.166
5	0.078	0.011	0.985	Q89f	0.143			0.143
6	0.074	0.011	0.996	Q89e	0.120			0.120
7	0.031	0.004	1.000	Q89d	0.162			0.162
Natio	nal Vulnerab	ility Index						
1	2.598	0.433	0.433	Safety	0.170	0.048		0.128
2	1.358	0.226	0.659	Empowerme nt	0.181	0.226		0.196
3	0.863	0.144	0.803	Health	0.212	0.204		0.210
4	0.580	0.097	0.900	Education	0.218	0.002		0.144
5	0.384	0.064	0.964	Economic	0.208	0.102		0.172
6	0.217	0.036	1.000	Digitalisation	0.011	0.416		0.150

Table 5: Principal Component Analysis and weights

		1	•	
Principle Comr	onent A	nalysis		Squared loadings
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											Weights
Comp	Egen Val.	Proportional	Cumulative	Variable	F1	F2	F3	F4	F5	F6	
Dimens	sion: Safety	7									
1	3.724	0.219	0.219	Q86a	0.011	0.005	0.217	0.000	0.067	0.01	0.050
2	2.681	0.158	0.377	Q78b	0.004	0.079	0.100	0.066	0.083	0.117	0.062
3	2.147	0.126	0.503	Q66	0.061	0.040	0.000	0.124	0.210	0.030	0.065
4	1.530	0.090	0.593	Q60d	0.036	0.029	0.089	0.012	0.170	0.013	0.051
5	1.143	0.067	0.660	Q60a	0.177	0.002	0.014	0.010	0.004	0.044	0.062
6	1.035	0.061	0.721	Q57g	0.006	0.079	0.104	0.110	0.000	0.740	0.121
7	0.825	0.048	0.770	Q57b	0.001	0.124	0.128	0.120	0.023	0.003	0.067
8	0.778	0.046	0.815	Q56q	0.076	0.104	0.016	0.006	0.002	0.008	0.050
9	0.667	0.039	0.854	Q51	0.019	0.038	0.122	0.077	0.096	0.002	0.054
10	0.564	0.033	0.888	Q50	0.060	0.050	0.003	0.127	0.054	0.048	0.055
11	0.493	0.029	0.917	Q49p	0.004	0.159	0.017	0.106	0.040	0.065	0.061
12	0.412	0.024	0.941	Q43g	0.016	0.042	0.135	0.036	0.002	0.009	0.043
13	0.307	0.018	0.959	Q40	0.147	0.003	0.038	0.031	0.003	0.085	0.063
14	0.259	0.015	0.974	Q14	0.001	0.222	0.016	0.006	0.051	0.102	0.066
15	0.180	0.010	0.985	Q11b	0.164	0.003	0.000	0.006	0.000	0.058	0.056
16	0.142	0.008	0.993	Q11a	0.143	0.009	0.000	0.029	0.158	0.004	0.064
17	0.142	0.006	1.000	Q10a	0.070	0.010	0.000	0.072	0.039	0.319	0.063
Dimens	sion: Empo	werment									
1	4.213	0.383	0.383	Q95c	0.079	0.008	0.004				0.047
2	2.162	0.197	0.580	Q38f	0.026	0.167	0.042				0.068
3	1.283	0.117	0.696	Q38e	0.169	0.083	0.003				0.117
4	0.942	0.086	0.782	Q38d	0.160	0.007	0.002				0.090
5	0.830	0.075	0.857	Q20b	0.068	0.165	0.040				0.090

6	0.616	0.056	0.913	Q19b	0.068	0.138	0.116	0.096
7	0.409	0.037	0.950	Q19a	0.102	0.191	0.082	0.124
8	0.242	0.022	0.973	Q18b	0.078	0.005	0.186	0.075
9	0.160	0.015	0.987	Q16	0.051	0.023	0.030	0.040
10	0.091	0.008	0.995	<b>Q</b> 9	0.154	0.112	0.476	0.196
11	0.049	0.004	1.000	Q77d	0.109	0.099	0.011	0.090
Dime	ension: Heal	th						
1	3.131	0.313	0.313	Q92b	0.000	0.184	0.033	0.074
2	2.785	0.279	0.592	Q57a	0.140	0.004	0.112	0.084
3	1.789	0.179	0.770	Q56j	0.012	0.087	0.248	0.094
4	0.715	0.072	0.842	Q56i	0.044	0.122	0.230	0.115
5	0.520	0.062	0.904	Q56g	0.110	0.154	0.032	0.107
6	0.3459	0.035	0.939	Q49g	0.160	0.001	0.110	0.091
7	0.244	0.024	0.963	Q49e	0.217	0.006	0.085	0.110
8	0.200	0.020	0.983	Q8c	0.188	0.092	0.021	0.115
9	0.114	0.011	0.994	Q8b	0.107	0.098	0.054	0.092
10	0.055	0.005	1.000	Q8a	0.017	0.250	0.030	0.104
Dime	ension: Educ	cation						
1	1.696	0.282	0.283	Q97	0.016	0.180	0.469	0.195
2	1.422	0.237	0.520	Q77a	0.004	0.174	0.425	0.176
3	1.184	0.197	0.717	Q57c	0.266	0.125	0.042	0.158
4	0.792	0.132	0.849	Q56h	0.088	0.246	0.001	0.116
5	0.697	0.116	0.965	Q49c	0.288	0.251	0.037	0.207
6	0.208	0.035	1.000	Q49b	0.337	0.023	0.026	0.148
Dime	ension: Ecor	nomic						
1	2.578	0.368	0.368	Q94	0.079	0.098	0.282	0.135
2	1.731	0.247	0.616	Q77c	0.267	0.084	0.095	0.169
3	1.412	0.202	0.817	Q77b	0.250	0.100	0.107	0.169

4	0.496	0.071	0.888	Q8d	0.022	0.022 0.500	0.140
5	0.413	0.059	0.947	Q5	0.029	0.389 0.000	0.131
6	0.357	0.051	0.998	Q4B	0.147	0.221 0.014	0.136
7	0.012	0.002	1.000	Q4A	0.206	0.085 0.002	0.119
Dime	ension: Digi	talisation					
1	5.255	0.751	0.750	Q93	0.120		0.120
2	0.720	0.103	0.853	Q91b	0.161		0.161
3	0.437	0.062	0.916	Q91a	0.131		0.131
4	0.260	0.037	0.953	Q90	0.146		0.146
5	0.202	0.029	0.982	Q89f	0.143		0.143
6	0.072	0.010	0.992	Q89e	0.131		0.131
7	0.054	0.008	1.000	Q89d	0.166		0.166
Rural	Vulnerabil	ity Index					
1	2.613	0.435	0.435	Safety	0.150	0.022	0.105
2	1.382	0.230	0.666	Empowerme nt	0.218	0.182	0.206
3	0.828	0.138	0.804	Health	0.161	0.230	0.185
4	0.525	0.088	0.891	Education	0.228	0.012	0.153
5	0.463	0.077	0.970	Economic	0.193	0.018	0.132
6	0.190	0.031	1.000	Digitalisation	0.009	0.536	0.191
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Table 6: Descriptive statistics on indexes

	Obs.	Mean	Std. Dev	Min	Max
National Vulnerability Index					
Safety	34	0.449	0.100	0.207	0.649
Empowerment	34	0.508	0.145	0.184	0.721
Health	34	0.420	0.125	0.119	0.702
Education	34	0.425	0.124	0.208	0.688
Economic	34	0.442	0.122	0.212	0.716
Digitalisation	34	0.455	0.246	0.069	0.986
Composite National Index	34	0.503	0.157	0.273	0.848
Rural Vulnerability Index					
Safety	34	0.522	0.105	0.341	0.807
Empowerment	34	0.529	0.146	0.180	0.766
Health	34	0.411	0.121	0.091	0.717
Education	34	0.416	0.114	0.230	0.613
Economic	34	0.448	0.121	0.207	0.736
Digitalisation	34	0.355	0.220	0.040	0.998
Composite Rural Index	34	0.455	0.146	0.232	0.787

Table 7: NWVI and Rankings

Country	Safety	Rank	Empow	Rank	Health	Rank	Educ	Rank	Econ	Rank	Digit	Rank	Global	Rank
Benin	0.411	24	0.550	14	0.337	26	0.359	23	0.484	12	0.201	30	0.430	22
Botswana	0.650	1	0.715	3	0.668	2	0.688	1	0.485	11	0.631	9	0.848	1
Burkina Faso	0.463	14	0.349	31	0.490	9	0.385	22	0.450	16	0.220	28	0.427	23
Cabo Verde	0.515	8	0.480	20	0.466	13	0.345	25	0.249	33	0.876	2	0.508	16
Cameroon	0.298	33	0.444	24	0.384	22	0.469	12	0.397	21	0.535	12	0.434	21
Cote d'Ivoire	0.432	21	0.260	32	0.308	30	0.279	30	0.372	26	0.397	19	0.291	33
Eswatini	0.422	23	0.398	26	0.527	5	0.469	11	0.373	25	0.612	10	0.509	15
Gabon	0.207	34	0.469	22	0.119	34	0.289	28	0.380	23	0.803	4	0.306	30
Gambia	0.458	15	0.719	2	0.539	4	0.483	9	0.675	2	0.564	11	0.740	3
Ghana	0.531	6	0.697	5	0.433	18	0.533	6	0.716	1	0.466	17	0.729	4
Guinea	0.381	27	0.483	19	0.244	31	0.282	29	0.292	30	0.315	23	0.294	32
Kenya	0.387	26	0.491	18	0.504	7	0.682	2	0.443	17	0.504	13	0.595	9
Lesotho	0.596	4	0.721	1	0.462	14	0.401	20	0.572	5	0.447	18	0.674	6
Liberia	0.315	32	0.601	11	0.412	21	0.398	21	0.613	4	0.267	26	0.515	13
Madagascar	0.437	19	0.366	28	0.203	33	0.456	14	0.404	20	0.069	34	0.303	31
Malawi	0.434	20	0.648	7	0.312	28	0.208	34	0.321	29	0.098	32	0.346	28
Mali	0.428	22	0.567	13	0.499	8	0.338	26	0.435	19	0.159	31	0.470	18
Mauritius	0.494	10	0.400	25	0.703	1	0.434	16	0.537	7	0.986	1	0.700	5
Morocco	0.455	17	0.184	34	0.431	20	0.248	33	0.283	31	0.763	6	0.334	29
Mozambique	0.325	30	0.358	29	0.476	11	0.413	19	0.389	22	0.316	22	0.388	26
Namibia	0.620	3	0.638	8	0.592	3	0.624	3	0.669	3	0.706	7	0.840	2
Niger	0.629	2	0.358	30	0.475	12	0.325	27	0.345	28	0.087	33	0.397	25
Nigeria	0.319	31	0.453	23	0.360	24	0.426	17	0.547	6	0.473	16	0.463	20
Sao Tome P	0.512	9	0.538	15	0.452	15	0.608	4	0.371	27	0.475	14	0.578	10
Senegal	0.475	12	0.624	9	0.432	19	0.425	18	0.470	15	0.474	15	0.570	11
Sierra Leone	0.381	28	0.525	17	0.343	25	0.504	8	0.479	13	0.270	25	0.468	19
South Africa	0.438	18	0.597	12	0.510	6	0.468	13	0.496	10	0.835	3	0.658	8
Sudan	0.392	25	0.244	33	0.335	27	0.271	31	0.212	34	0.689	8	0.273	34

Tanzania	0.580	5	0.703	4	0.439	17	0.594	5	0.528	8	0.250	27	0.665	7
Togo	0.326	29	0.611	10	0.211	32	0.348	24	0.437	18	0.325	21	0.384	27
Tunisia	0.523	7	0.471	21	0.450	16	0.250	32	0.472	14	0.777	5	0.532	12
Uganda	0.457	16	0.674	6	0.310	29	0.437	15	0.505	9	0.205	29	0.511	14
Zambia	0.488	11	0.530	16	0.478	10	0.471	10	0.374	24	0.290	24	0.507	17
Zimbabwe	0.473	13	0.396	27	0.377	23	0.532	7	0.264	32	0.392	20	0.415	24

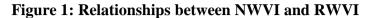
Source: Authors' calculation on data from Round 7 Afrobarometer Survey. NWVI refers to National Women Vulnerability Index.

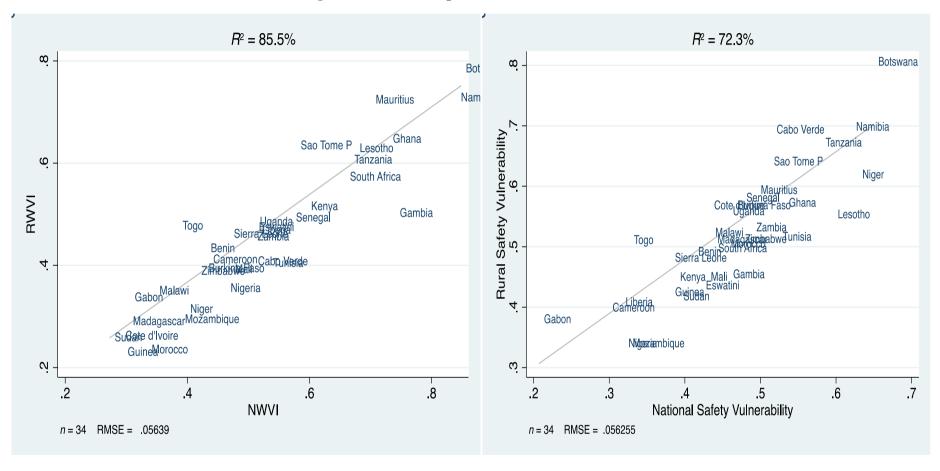
**Table 8: RWVI and Rankings** 

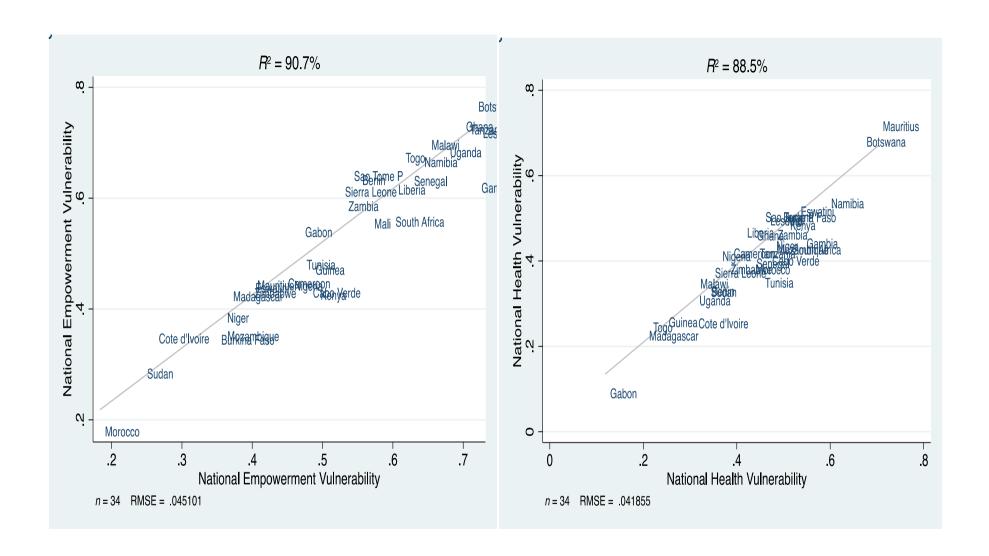
Country	Safety	Rank	Empow	Rank	Health	Rank	Educ	Rank	Econ	Rank	Digit	Rank	Rural	Rank
Benin	0.493	22	0.633	10	0.330	27	0.411	21	0.511	12	0.153	29	0.435	18
Botswana	0.807	1	0.766	1	0.680	2	0.580	3	0.528	10	0.451	11	0.787	1
Burkina Faso	0.570	10	0.345	32	0.504	6	0.432	18	0.445	17	0.163	28	0.396	22
Cabo Verde	0.695	3	0.430	25	0.402	20	0.244	32	0.275	32	0.679	3	0.410	20
Cameroon	0.401	31	0.447	21	0.419	17	0.410	22	0.438	19	0.439	12	0.413	19
Cote d'Ivoire	0.570	11	0.348	31	0.255	31	0.263	28	0.373	27	0.295	19	0.264	31
Eswatini	0.437	27	0.439	24	0.517	4	0.434	17	0.393	23	0.591	6	0.476	14
Gabon	0.381	32	0.540	18	0.091	34	0.466	11	0.383	25	0.368	15	0.339	27
Gambia	0.456	24	0.619	12	0.442	13	0.326	26	0.562	6	0.507	8	0.504	10
Ghana	0.574	9	0.730	2	0.461	12	0.498	10	0.736	1	0.317	18	0.649	4
Guinea	0.426	28	0.471	20	0.257	30	0.244	33	0.294	31	0.212	23	0.232	34
Kenya	0.451	26	0.426	27	0.485	9	0.580	2	0.457	15	0.478	9	0.517	9
Lesotho	0.555	13	0.718	4	0.496	7	0.555	5	0.547	8	0.337	17	0.631	6
Liberia	0.410	30	0.616	13	0.467	10	0.411	20	0.595	3	0.151	30	0.471	15
Madagascar	0.513	18	0.424	28	0.226	33	0.447	16	0.374	26	0.040	34	0.292	30
Malawi	0.525	15	0.697	5	0.348	26	0.250	31	0.355	28	0.082	32	0.352	26
Mali	0.452	25	0.555	17	0.495	8	0.347	24	0.422	21	0.129	31	0.394	23
Mauritius	0.595	7	0.444	22	0.717	1	0.504	9	0.571	5	0.998	1	0.726	3
Morocco	0.506	20	0.180	34	0.381	23	0.305	27	0.208	34	0.462	10	0.237	33
Mozambique	0.341	33	0.352	30	0.428	16	0.361	23	0.396	22	0.226	22	0.296	29

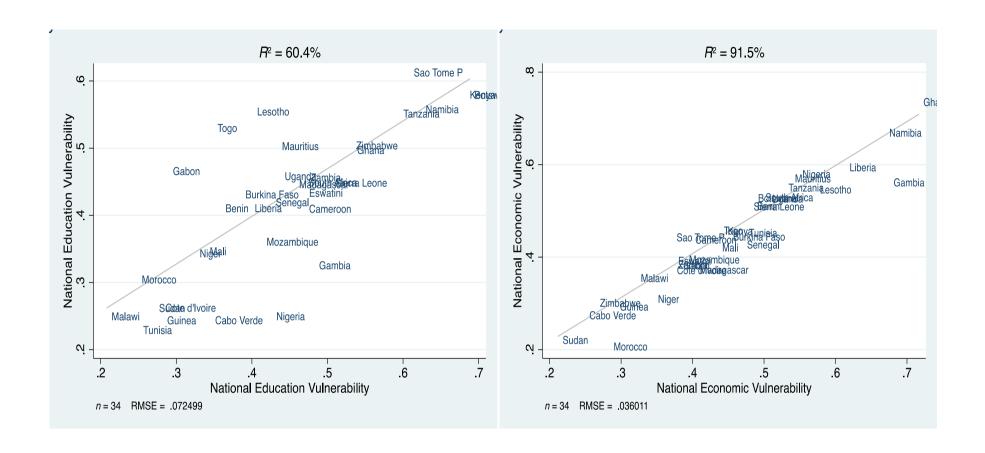
Namibia	0.700	2	0.666	8	0.536	3	0.558 4		0.670 2	0.544 7	0.730 2
Niger	0.621	6	0.385	29	0.436	14	0.344 2	5	0.310 29	0.080 33	0.316 28
Nigeria	0.341	34	0.443	23	0.412	19	0.250 3	0	0.581 4	0.383 14	0.357 25
Sao Tome P	0.642	5	0.641	9	0.504	5	0.613 1		0.444 18	0.405 13	0.636 5
Senegal	0.582	8	0.632	11	0.395	21	0.420 1	9	0.428 20	0.347 16	0.495 11
Sierra Leone	0.483	23	0.612	14	0.373	24	0.449 1	5	0.510 13	0.205 24	0.463 16
South Africa	0.499	21	0.558	16	0.428	15	0.450 1	4	0.530 9	0.736 2	0.575 8
Sudan	0.419	29	0.284	33	0.328	28	0.262 2	9	0.222 33	0.640 5	0.261 32
Tanzania	0.674	4	0.725	3	0.419	18	0.552 6		0.551 7	0.196 25	0.609 7
Togo	0.512	19	0.674	7	0.245	32	0.531 7		0.458 14	0.235 21	0.479 13
Tunisia	0.518	16	0.481	19	0.350	25	0.230 3	4	0.453 16	0.657 4	0.406 21
Uganda	0.560	12	0.684	6	0.308	29	0.459 1	2	0.527 11	0.168 27	0.487 12
Zambia	0.533	14	0.586	15	0.463	11	0.457 1	3	0.384 24	0.177 26	0.458 17
Zimbabwe	0.514	17	0.429	26	0.382	22	0.505 8		0.302 30	0.266 20	0.391 24

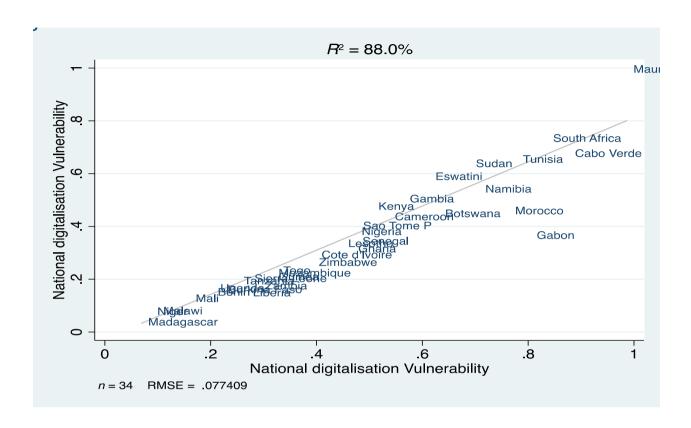
Source: Authors' calculation on data from Round 7 Afrobarometer Survey. RWVI refers to Rural Women Vulnerability Index.











Source: Authors' calculation on data from Round 7 Afrobarometer Survey. NWVI and RWVI refer to National Women Vulnerability Index and Rational Women Vulnerability Index respectively.

Table 9: Results for Robustness Checks

	Obs.	Mean	Std. Dev	Min	Max
National Vulnerability Index					
Safety	34	0.454	0.080	0.266	0.613
Empowerment	34	0.470	0.121	0.205	0.663
Health	34	0.461	0.107	0.211	0.682
Education	34	0.454	0.110	0.253	0.713
Economic	34	0.461	0.110	0.265	0.698
Digitalisation	34	0.483	0.190	0.169	0.847
CompositeNationalIndex	34	0.468	0.150	0.243	0.798
Rural Vulnerability Index					
Safety	34	0.454	0.080	0.312	0.678
Empowerment	34	0.470	0.124	0.187	0.682
Health	34	0.459	0.107	0.192	0.688
Education	34	0.456	0.105	0.268	0.640
Economic	34	0.460	0.107	0.255	0.702
Digitalisation	34	0.477	0.178	0.200	0.905
CompositeRuralIndex	34	0.264	0.155	0.068	0.629