









Launch of the Food Security Simulator – Nigeria

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Motivation and purpose

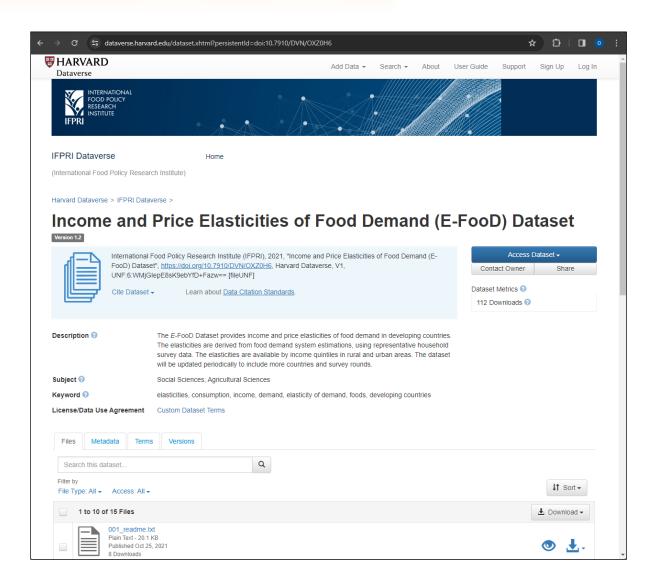
- Food security in many countries has been impacted by a succession of recent crises.
- Especially when a crisis hits unexpectedly, policymakers need to take quick action.
- To inform such policy action, IFPRI and its partners developed the Food Security Simulator – Nigeria (FSSN) under the NPS Initiative.
- FSSN is an innovative tool for first-cut evaluations of direct, household-level outcomes of economic crises and policy responses in a timely manner.
- FSSN is designed for assessing the potential, short-term impacts of food price or household income changes ("shocks") on food consumption, diet quality, and other food security indicators among different population groups in Nigeria.

Features of the Food Security Simulator

- Is easy-to-use, with an intuitive Excel-based interface, and has a detailed user guide.
- Provides detailed simulation results tables, but also concise overview tables and graphs for key indicator results (for e.g., export to policy reports or presentations).
- Is based on rigorous research, incl. sophisticated food demand models to capture consumer behavior:
 - Income and price elasticities of food demand (E-FooD) dataset:
 Documentation of estimation methodology (IFPRI Data Paper, 2021).
 - Measuring changes in diet deprivation: New indicators and methods (Food Policy journal article, 2023).
- Was piloted using data for Kenya. FSS Kenya was launched at the annual Kenya Institute for Public Policy Research and Analysis (KIPPRA) conference.

The Food Security Simulator - Nigeria

- Uses recent, representative household survey data: Nigeria Living Standard Survey 2018-19.
- Uses estimated income and price elasticities of food demand, to be published in E-FooD dataset V2.0.
- Was refined based on feedback during a recent workshop jointly organized by NBS and IFPRI and additional comments from Nigerian policy analysts.



Access to the Food Security Simulator - Nigeria

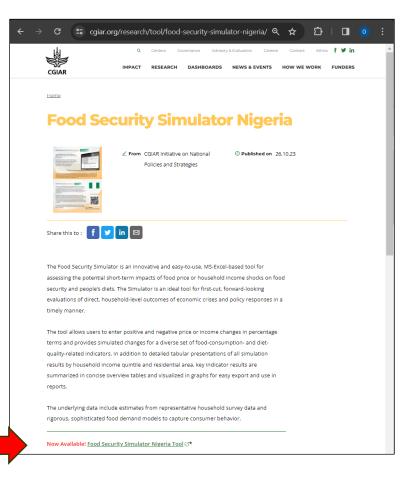
Use URL:

https://bit.ly/FSS-Nigeria

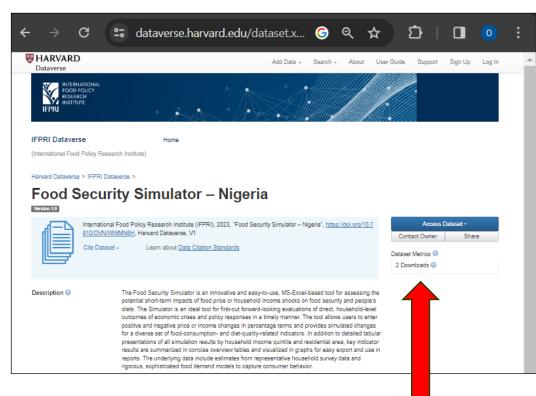
Or, scan QR code:



Click link on CGIAR website:



Download from Harvard Dataverse:



Save both files in same folder!

Tool live demonstration

- Brief walkthrough.
- Examples: Simulation of food price and income shocks
 - 1. Universal staple food price reduction by 20% (e.g., food subsidies).
 - 2. Uniform household income increase (6.3%), resulting in similar average effects on diet quality nationally (e.g., cash transfers).
 - 3. Price reduction for vegetables, fruits, pulses, and nuts by 20% (e.g., food vouchers).
 - 4. Universal grain price increase by 20% (e.g., floods/droughts).

Proposed next steps

- Work with gov't and intl. partners to incorporate FSSN into standard tool kit for food policy analysis and national/state strategies development.
- Train key users and trainers.
- Build on FSSN to expand collaborations and further strengthen analytical capacities (incl. for subnational analysis).





Food Security Simulator NIGERIA



Thanks to our partners and donors:









The Food Security Simulator - Nigeria was developed by the International Food Policy Research Institute (IFPRI), under the CGIAR Research Initiative on National Policies and Strategies (NPS), with important contributions from National Bureau of Statistics (NBS), Federal Ministry of Agriculture and Food Security (FMAFS), Federal Ministry of Humanitarian Affairs, and Poverty Alleviation Reduction (FMHAPA), and other partners in Nigeria during the validation processes of the tool. This work was made possible by support from the CGIAR Trust Fund.