

DR. HENRY OKODUA

Senior Economist | Agrifood Systems and Policy Modelling Specialist

CGE and Microsimulation | Trade and Market Systems | Climate, Energy and Public Finance | Capacity Strengthening

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Nationality: Nigerian | **Current professional base:** Dakar, Senegal / Nigeria | **Available for** Africa-wide and international assignments

 [Google Scholar](#)  [Scopus](#)  [Researchgate](#)  [Orcid](#)

PROFESSIONAL PROFILE

Senior economist, policy analyst and applied quantitative modeller with more than 20 years of experience in development consulting, policy research, university teaching and capacity strengthening across Africa. His expertise covers agrifood systems transformation, agricultural and trade policy, computable general equilibrium modelling, microsimulation, poverty and distributional analysis, climate adaptation and mitigation, energy transition, public finance and regional integration. As a Senior Scientist in AKADEMIYA2063's Policy Intelligence Department, he contributed to multi-country programmes that support policy dialogue, strategic planning and evidence-based decision-making. He contributed to the development of the CAADP Strategy and Action Plan 2026–2035 through Technical Working Group 6 on Boosting Intra-African Agri-food Trade and Technical Working Group 8 on Mitigation and Adaptation Actions to Climate Change in Agri-food Systems. His work also includes policy and institutional diagnostics, economy-wide and household-level modelling, scenario analysis, stakeholder consultations, technical reporting and the translation of complex evidence into practical recommendations for governments, development partners and research institutions. He has supported assignments involving the World Bank, AGRA, USAID, the Bill & Melinda Gates Foundation, IDRC, GIZ, IFPRI, ECOWAS and the African Union. Proficient in GAMS, Stata, EViews and Microsoft Excel, he combines rigorous analysis with a strong understanding of institutional, financing and implementation realities. He also brings nearly two decades of university teaching, postgraduate supervision and academic leadership experience, including the successful supervision of nine PhD theses.

AREAS OF EXPERTISE

• Agrifood systems transformation, agricultural policy, CAADP/Kampala Declaration domestication, food markets and investment planning	• Computable general equilibrium (CGE) modelling, dynamic recursive simulation, microsimulation, poverty and distributional analysis
• International trade, AfCFTA, regional integration, agricultural trade outlooks, market access and trade-policy reform	• Climate adaptation and mitigation, greenhouse-gas pathways, energy transition, carbon pricing and climate-development trade-offs
• Macroeconomic, fiscal and public-finance analysis, debt-climate interactions, sectoral linkages and long-term planning	• Institutional and innovation-system diagnostics, scaling readiness, stakeholder mapping, policy-process facilitation and evidence uptake

- Gender-responsive and inclusion-focused economic modelling, rural livelihoods, household welfare and employment analysis

- Capacity strengthening, curriculum and training design, technical manuals, policy briefs, proposal development and knowledge products

TECHNICAL METHODS, MODELS AND SOFTWARE

Economy-wide and policy models: GAMS; CGE models including STAND, PEP-1-t and Modular-type recursive dynamic frameworks; SAM-based calibration; scenario and sensitivity analysis.

Distributional and econometric tools: Top-down and linked CGE-microsimulation; poverty and inequality analysis; panel/time-series econometrics; PVAR, ARDL, gravity modelling; etc. using Stata and EViews.

Data and reporting workflows: Microsoft Excel and Google Sheets; model-data interfaces; quantitative data management; automated result extraction; indicator dashboards; policy tables, charts and publication-ready narratives.

Collaboration and delivery: Microsoft Word, PowerPoint, Teams and Google Workspace; virtual facilitation; technical documentation; learning-material development; stakeholder workshops; multidisciplinary and cross-country team delivery.

SELECTED VALUE AND DELIVERY HIGHLIGHTS

- More than 20 years of combined consulting, applied research, university teaching and policy engagement experience across Africa.
- Current Senior Scientist in AKADEMIYA2063's Policy Intelligence Department, delivering multi-country modelling, diagnostics and policy-support assignments.
- Country and regional work covering West, East, and Central Africa, including Senegal, Nigeria, Côte d'Ivoire, Rwanda, Kenya, Togo, Ghana, Sierra Leone, Niger, Tanzania and Cabo Verde.
- Completed supervision of nine PhD theses, additional doctoral supervision ongoing, and several M.Sc. dissertations; extensive experience mentoring researchers and training analysts.
- Author or co-author of more than 40 journal articles, working papers, field notes, book chapters and expert policy products.
- Proven ability to move from model design and data preparation to scenario simulation, interpretation, policy communication and stakeholder validation.

PROFESSIONAL EXPERIENCE

Senior Scientist - Department of Policy Intelligence, AKADEMIYA2063

Dakar, Senegal / Africa-wide | June 2024 - August 2026

- Leads and contributes to country and regional analytical assignments on agrifood systems, agricultural markets, trade, investment, climate policy and inclusive economic transformation.
- Designs, calibrates and applies CGE, microsimulation, econometric and related quantitative tools; prepares baseline and policy scenarios; tests sensitivities; and converts results into concise policy findings.
- Produces country diagnostics, technical reports, policy briefs, modelling documentation, data templates, training materials and presentations for governments, development partners and research institutions.
- Coordinates analytical inputs across multi-country teams, supports stakeholder consultations and validation workshops, responds to technical review comments, and helps align evidence with programme and policy decisions.

- Contributed to the development of the CAADP Strategy and Action Plan 2026–2035 through Technical Working Group 6 on Boosting Intra-African Agri-food Trade and Technical Working Group 8 on Mitigation and Adaptation Actions to Climate Change in Agri-food Systems.
- Supports proposal development, resource mobilisation, partnership engagement and internal capacity strengthening in quantitative policy analysis.

Senior Lecturer / Researcher in Economics, Covenant University

Ota, Nigeria | September 2004 - June 2024

- Designed and delivered undergraduate and postgraduate courses in mathematical economics, statistics, econometrics, macroeconomics and applied quantitative methods.
- Conducted and published applied research on trade, agriculture, energy, public finance, regional integration, household welfare and macroeconomic policy using econometric and economy-wide methods.
- Supervised nine completed PhD theses and several M.Sc. dissertations; mentored students and colleagues in research design, data analysis, academic writing and publication.
- Served as Head of Department (2015-2016), contributing to academic planning, quality assurance, staff coordination, programme administration and institutional reporting.
- Led the University Tutorial Committee for four academic sessions and helped strengthen hands-on quantitative instruction and student research performance.
- Received a Vice-Chancellor's commendation for contributions to university strategic-plan documents.

Adjunct Senior Lecturer, Emerald Energy Institute, University of Port Harcourt

Port Harcourt, Nigeria | March 2019 - Present

- Delivers graduate-level practical training in computable general equilibrium modelling for energy, environmental and development-policy applications.
- Supervises doctoral and master's research and advises candidates on model design, data construction, scenario formulation, interpretation and policy relevance.

Associate Senior Research Fellow, Resource and Environmental Policy Research Centre (REPRC-EfD Nigeria), University of Nigeria

Nsukka, Nigeria | January 2019 - Present

- Collaborates on research and advisory work in climate change, energy transition, environmental economics, food security and development policy.
- Contributes to competitive grant proposals, research execution, capacity-building workshops, stakeholder engagement and dissemination of policy evidence.

SELECTED CONSULTING AND POLICY ASSIGNMENTS

Innovation Impact at Scale (II@S): Agrifood Innovation-System Diagnostics

World Bank / AKADEMIYA2063 and partners | Côte d'Ivoire, Niger and Tanzania | 2026

- Contributed to country diagnostics examining innovation inventories, institutional arrangements, skills and capability gaps, packaging and agricultural extension processes, and delivery readiness for scaling agrifood innovations.
- For Côte d'Ivoire, reviewed policy and institutional evidence, integrated structured stakeholder interviews and field notes, and helped prepared the country diagnostic report by consolidating findings from research, extension, commodity, regulatory and knowledge institutions.

- Prepared and revised analytical sections, institutional profiles, scaling cases, recommendations and validation materials, ensuring coherence between evidence, diagnostic objectives and proposed interventions.
- Deliverables included country diagnostic reports, institutional findings, stakeholder synthesis, scaling-readiness analysis and concise top-line findings for programme communication.

Kampala CAADP Declaration Country Domestication and Strategy Diagnostics

Alliance for a Green Revolution in Africa (AGRA) / AKADEMIYA2063 | Multi-country Africa | 2025-2026

- Conducted country status assessments and profiling against the Kampala Declaration goals, milestones and implementation requirements for the next generation of national agrifood investment strategies.
- Reviewed national plans, budgets, programmes, policy instruments and performance indicators; identified implementation gaps, priority opportunities and evidence needs.
- Contributed to country diagnostics and technical products for Kenya, Senegal, Rwanda, and Sierra Leone, including workshop presentations and validation responses.
- Translated quantitative and institutional findings into actionable policy and programme recommendations for national stakeholders and development partners.

Africa Trade Outlook Portal (AfTOP): CGE and Microsimulation Outlook Modelling

USAID / AKADEMIYA2063 | Multi-country Africa | 2024-2026

- Applied CGE and household microsimulation models to generate annual outlook indicators for agricultural commodity markets, macroeconomic conditions, poverty and welfare outcomes.
- Prepared baseline and alternative scenarios, ensured results were reported consistently relative to business-as-usual trajectories, and developed indicator narratives suitable for a public-facing African agricultural outlook portal.
- Produced model outputs, data-upload templates, technical checks and publication-ready comments for country profiles for twelve African countries.
- Supported methodological revisions, quality assurance and harmonisation of reporting across model components.

CAADP Decision Support Tools (CAADP-DST)

Bill & Melinda Gates Foundation / AKADEMIYA2063 | Africa-wide | 2024-2026

- Contributed to AI-enabled and quantitative decision-support tools designed to strengthen policy analysis, investment prioritisation and participatory assessment in African agrifood systems.
- Supported model-based evidence generation, Bayesian estimation, indicator design and development of interactive analytical products for policy users.
- Prepared technical inputs and helped translate complex methods into usable guidance and learning materials.

INCLUDING-Africa: Inclusive and Gender-Responsive Fiscal and Investment Modelling

International Development Research Centre (IDRC) / research consortium | Nigeria and Africa | 2025-2028

- Developed and tested a gender-disaggregated, emissions-aware CGE framework using a Nigeria social accounting matrix, with linkages to employment, household welfare and inclusive investment outcomes.
- Assessed fiscal and policy frameworks, mobilisation of public and private capital, local delivery mechanisms and distributional implications of green-investment scenarios.

- Produced scenario outputs, gender and formality dashboards, sensitivity analysis and documentation for research and policy engagement.

GeoClimRisk Nigeria: Climate Mitigation, Energy Transition and Political-Economy Risk

GIZ / consortium partners | Nigeria | 2025-2026

- Designed economy-wide scenarios to assess climate-mitigation and energy-transition pathways, including sectoral shocks, policy responses and implications for growth, prices, households and emissions.
- Contributed to political-economy and discourse analysis linking climate policy to migration, conflict and implementation risks.
- Prepared model results, technical interpretation and policy-facing analytical materials.

Africa Think Tank Platform (ATTP): Economic Transformation and Governance

African Union / World Bank / participating think tanks | Africa | 2026-2028

- Contributed to thematic work on Climate Change, Food Security, evidence priorities, cross-country collaboration and stakeholder engagement.
- Helped frame policy-relevant research questions and practical pathways for evidence generation, capacity strengthening and uptake across African institutions.

Senegal Agricultural and Food-Sovereignty Strategy Analysis

AKADEMIYA2063 / national and development partners | Senegal | 2024-2026

- Undertook economy-wide and distributional simulations supporting assessment of agricultural strategy options in support of the implementation of the national food-sovereignty agenda.
- Analysed growth, sectoral production, trade, household income, poverty and related outcomes under business-as-usual and policy scenarios.
- Produced model outputs and concise interpretations for technical reports and stakeholder discussion.

Comprehensive Action for Climate Change Initiative (CACCI)

AKADEMIYA2063 / partners | Rwanda and Nigeria | 2023-2024

- Contributed to ex-ante assessment of climate adaptation and mitigation pathways, combining country evidence with economy-wide modelling and policy analysis.
- Co-authored field notes on Nigeria's climate adaptation status and pathways, and on Rwanda's climate adaptation and greenhouse-gas mitigation pathways.
- Translated scenario results into accessible policy messages on sectoral transitions, investment needs and development trade-offs.

Climate and Debt Policy Coherence: Optimal Carbon Pricing in Nigeria

EfD Nigeria / CSEA / IDRC | Nigeria | 2023

- Conducted CGE-based assessment of carbon-pricing options and their implications for economic performance, public finance, debt management, household welfare and climate objectives.
- Developed policy scenarios, interpreted economy-wide and distributional effects, and contributed to research outputs and stakeholder engagement.

Climate Adaptation Support Programme (CASP Phase II) - Nigeria

AKADEMIYA2063 | Nigeria | 2023

- Served as national consultant on climate-adaptation status, policy pathways and analytical evidence, including CGE modelling inputs.

- Contributed to country evidence synthesis and the preparation of policy-oriented adaptation pathways.

Agricultural Productivity Shocks, Adaptation and Household Welfare

RAMP Large Research Grant | Nigeria | 2024

- Led and contributed to research design assessing crop-productivity shocks, adaptation pathways and household welfare implications using economy-wide and microsimulation methods.
- Developed the analytical framework, scenario logic and grant implementation approach.

Economy-wide Implications of the African Continental Free Trade Area for Nigeria

Nigerian Economic Summit Group / Equilibria Consults | Nigeria | 2019

- Applied a CGE model to assess AfCFTA-related trade reforms, sectoral adjustments, macroeconomic outcomes and household welfare implications.
- Prepared scenario results and policy findings for private-sector and national policy dialogue.

Nigeria in 2050: CGE-Based Perspective Planning Framework

Nigerian Economic Summit Group / Equilibria Consults | Nigeria | 2019

- Developed long-term economy-wide scenarios exploring alternative growth, structural transformation and policy pathways to 2050.
- Contributed modelling, interpretation and strategic planning evidence for national stakeholders.

Second-Generation National Agricultural Investment Plans

International Food Policy Research Institute (IFPRI) | Nigeria / Africa | 2016

- Served as regional expert for Nigeria in the appraisal and design of the second phase of National Agricultural Investment Plans.
- Reviewed national agricultural priorities, investment needs and CAADP alignment and contributed country-level technical inputs.

Investment-Climate Monitoring Indicators for ECOWAS Countries

Economic Community of West African States (ECOWAS) | Cabo Verde | 2012

- Provided regional consultancy support for assessment and monitoring of investment-climate indicators.
- Prepared country evidence and technical inputs for regional comparison and policy monitoring.

Advanced CGE Modelling Research and Capacity Development

AGRODEP Seed Fund Grant | Africa / Nigeria | 2015

- Undertook advanced CGE modelling work and contributed to the development and dissemination of applied policy-modelling capacity.
- Produced analytical outputs relevant to agricultural and household-welfare policy questions.

SELECTED ASSIGNMENT CLIENTS AND INSTITUTIONAL PARTNERS

World Bank • African Union • AUDA-NEPAD • AGRA • USAID • Bill & Melinda Gates Foundation • IDRC • GIZ • IFPRI • ECOWAS • AKADEMIYA2063 • EfD Nigeria / REPRC • CSEA • Nigerian Economic Summit Group

CAPACITY STRENGTHENING, FACILITATION AND KNOWLEDGE TRANSLATION

- Designs and delivers hands-on training in CGE modelling, econometrics, quantitative policy analysis and interpretation of simulation results for postgraduate students, researchers and policy analysts.

- Prepares technical manuals, model documentation, lecture notes, slide decks, exercises, data templates, policy briefs and publication-ready narratives for both technical and non-technical audiences.
- Facilitates stakeholder consultations, validation workshops and multidisciplinary review processes; systematically integrates field evidence and reviewer feedback into final products.
- Experienced in remote and hybrid collaboration through Microsoft Teams and Google Workspace and in managing multi-country inputs under tight delivery timelines.
- Mentors junior researchers in research design, model calibration, software use, analytical writing, peer review and publication.

EDUCATION

PhD in Economics - Covenant University, Ota, Nigeria | 2005-2011

Specialisation: International Economics. Dissertation: Workers' Remittances and Economic Growth in Selected Sub-Saharan African Countries.

M.Sc. in Economics - University of Benin, Benin City, Nigeria | 2002-2004

Specialisation: International Economics. Dissertation: Foreign Aid and Domestic Saving in Nigeria.

B.Sc. in Economics - University of Ilorin, Ilorin, Nigeria | 1995-1999

Research project: The Role of the Informal Sector in the Development of the Nigerian Economy.

SELECTED PROFESSIONAL DEVELOPMENT

- MIT J-WEL Higher Education (2020): "Remotely" Designing for Learning - From Principles to Practice.
- ECOWAS-EU-BMZ-UNITAR (2016): WTO Trade Facilitation Agreement and Regional Trade Facilitation Rules and Regulations.
- World Bank Institute (2015): Economic Analysis of Investments.
- UNECA / UNITAR (2013): African Economic Outlook.
- World Bank Institute (2010): Policies for Growth.
- World Bank Institute (2009): Advanced Poverty Analysis - Poverty Dynamics.

SELECTED PUBLICATIONS AND KNOWLEDGE PRODUCTS

1. Okodua, H., Fofana, I., & Tadesse, G. (2024). Climate adaptation status and pathways in Nigeria. CACCI Field Notes No. 18, AKADEMIYA2063.
2. Okodua, H., Sedegan, V., & Tankari, M. (2024). Climate change and adaptation pathways for Rwanda. CACCI Field Notes No. 15, AKADEMIYA2063.
3. Okodua, H., Sedegan, V., & Tankari, M. (2024). Greenhouse gas emissions mitigation pathways for Rwanda. CACCI Field Notes No. 14, AKADEMIYA2063.
4. Okodua, H., Adesanya, O., & Erhi, M. A. (2023). Overlapping trade flows and potentials for intra-trade expansion in Africa: The case of Nigeria's agricultural trade. *Journal of Economics and Sustainability*, 5(2), 43-57.
5. Okodua, H., Urhie, E., Erhi, M. A., Hassan, C. O., & Fasanu, E. A. (2022). Oil price volatility and equity valuation of listed energy companies in Nigeria: A panel ARDL model. *International Journal of Energy Economics and Policy*, 12(5), 1-9.
6. Okodua, H., Erhi, M. A., & Ewetan, O. O. (2022). Public debt, fiscal space, and industrial sector performance in Nigeria. *Asian Economic and Financial Review*, 12(10).

7. Folarin, E. M., Osabuohien, E. S., Okodua, H., & Okafor, V. (2022). Access to healthcare through renewable energy on female agricultural productivity in Nigeria. *IOP Conference Series: Earth and Environmental Science*, 1054(1).
8. Edo, S., & Okodua, H. (2021). Fiscal budget deficit and the emerging capital markets in West African countries. *Afro-Asian Journal of Finance and Accounting*, 11(5), 647-671.
9. Obasaju, B. O., Olayiwola, W. K., Okodua, H., Adediran, O. S., & Lawal, A. I. (2021). Regional economic integration and economic upgrading in global value chains: Selected cases in Africa. *Heliyon*, 7(2).
10. Afolayan, O. T., Okodua, H., Daikhenan, H., & Matthew, O. (2020). Carbon emissions, human capital investment and economic development in Nigeria. *International Journal of Energy Economics and Policy*, 10(2).
11. Okodua, H. (2020). Policy priorities for Nigeria's economic development. KIEP EMERiCs Expert Opinion.
12. Okodua, H. (2018). Assessing the impact of rice sector policy reforms on the income mobility of rural households in Nigeria. *The Open Agriculture Journal*, 12(1).
13. Akinyemi, O., Alege, P. O., Ajayi, O. O., & Okodua, H. (2017). Energy pricing policy and environmental quality in Nigeria: A dynamic computable general equilibrium approach. *International Journal of Energy Economics and Policy*, 7(1), 268-276.
14. Okodua, H., & Alege, P. O. (2014). Household welfare impact of trade liberalization in Nigeria: A computable general equilibrium model. *Journal of Economics and Sustainable Development*, 5(28).
15. Olayiwola, W. K., Osabuohien, E. S. C., Okodua, H., & Ola-David, O. A. (2014). Economic integration, trade facilitation and agricultural exports performance in the ECOWAS sub-region. In *Regional Integration and Trade in Africa*. Palgrave Macmillan.
16. Alege, P. O., & Okodua, H. (2014). International competitiveness and growth of the Nigerian economy: A structural VAR-based perspective. *Research in Applied Economics*, 6(4).
17. Okodua, H. (2017). Assessing the impact of rice sector policy reforms on the income mobility of rural households in Nigeria. AGRODEP Working Paper 0039.
18. Edo, S., Okodua, H., & Odebiyi, J. (2019). Internet adoption and financial development in Sub-Saharan Africa: Evidence from Nigeria and Kenya. *African Development Review*, 31(1).
19. Obasaju, B. O., Olayiwola, W. K., Okodua, H., Eseyin, O., & Ahmed, A. V. (2019). Intermediate tariffs and intraregional intermediate exports. *Cogent Economics & Finance*, 7(1).
20. Okodua, H. (2009). Foreign direct investment and economic growth: Co-integration and causality analysis of Nigeria. *African Finance Journal*, 11(1).

A fuller publication list is available on request and through the candidate's academic profiles ([Google Scholar](#) ; [Scopus](#) ; [Researchgate](#) ; [Orcid](#))

ACADEMIC LEADERSHIP, SUPERVISION AND SERVICE

- Head of Department, Economics and Development Studies, Covenant University (2015-2016).
- Chair/lead, University Tutorial Committee for four academic sessions.
- Nine completed PhD supervisions, additional doctoral supervision ongoing, and several completed M.Sc. dissertations.
- External assessor for postgraduate Economics theses at the University of Johannesburg.
- Instructor and mentor in mathematical economics, statistics, econometrics, macroeconomics, CGE modelling and research methods.

- Reviewer and contributor to academic publications, research grants, strategic planning and institutional quality processes.

LANGUAGE AND REGIONAL EXPERIENCE

Language	English - fluent professional and academic proficiency
Regional experience	Extensive Africa-wide work, with direct analytical or policy engagement in West, East, and Central Africa

PROFESSIONAL REFEREES

Professor Nnaemeka Chukwuone

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Dr. Mahamadou Tankari

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