

The background of the slide is a light gray gradient with several realistic water droplets of various sizes scattered across it. The droplets have highlights and shadows, giving them a three-dimensional appearance. The main title is centered in the middle of the slide.

FOOD SYSTEMS APPROACH TO SUSTAINABLE LIVING

STOP HUNGER PROJECT



WELCOME

INTRODUCE YOURSELF, YOUR NAME AND WHERE YOU ARE COMING FROM

THIS WORKSHOP SESSION IS BEING RECORDED

OUR SESSION TODAY WILL BE ON FOOD SYSTEMS APPROACH AND HEALTHY DIETS THROUGH VEGETABLE PRODUCTION

THE TRAINING WILL BE DONE THROUGH IVR SESSION, Q&A AND TEST AT THE END OF THE SESSION



INTRODUCTION OF FACILITATOR SAMIRAH FARUK



The image features a light gray background with a subtle gradient. In the top-left and bottom-right corners, there are several realistic water droplets of various sizes, rendered with soft shadows and highlights to give them a three-dimensional appearance. The text "ICE BREAKERS!" is centered in the upper half of the image.

ICE BREAKERS!

LEARNING OUTCOMES

- AT THE END OF THIS SESSION, PARTICIPANTS WILL KNOW THE IMPORTANCE OF APPLYING A SUSTAINABLE FOOD PRODUCTION.
- HOW TO BE A BETTER FARMER USING THE FOOD SYSTEM APPROACH
- IDENTIFICATION OF KEY COMPONENTS IN VEGETABLES
- BE IN DEPTH IN VEGETABLE PRODUCTION
- DISEASE CONTROL

WHY A CHANGE IN OUR FOOD SYSTEMS APPROACH?

NIGERIA IS FACING MAJOR CHALLENGES WITH HIGH POPULATION GROWTH, A HIGH NUMBER OF PEOPLE LIVING IN EXTREME POVERTY, RAPID URBANISATION, AND STAGNATING AGRICULTURAL PRODUCTIVITY. TENSIONS BETWEEN PASTORALISTS AND SEDENTARY FARMERS AFFECT MUCH OF NIGERIA'S NORTHERN REGION. GENDER INEQUALITIES ARE A MAJOR BARRIER TO RURAL DEVELOPMENT. THE CENTRAL PLACE THAT OIL EXPORTS HOLD IN THE NIGERIAN ECONOMY LIMITS DIVERSIFICATION TOWARDS AGRICULTURAL EXPORTS, WHICH HAVE THE POTENTIAL TO CONTRIBUTE TO MORE INCLUSIVE AND SUSTAINABLE ECONOMIC DEVELOPMENT. PUBLIC INVESTMENTS IN THE AGRICULTURAL SECTOR ARE LOW, RESULTING IN UNDERDEVELOPED (RURAL) INFRASTRUCTURE AND AGRICULTURAL SERVICES. UNDERLYING INSTITUTIONAL DRIVERS INCLUDE WEAK INSTITUTIONS, WEAK LINKS BETWEEN SCIENCE AND PRACTICE, LOW QUALITY OF EDUCATION, CORRUPTION, AND NON-TRANSPARENT MARKETS WITH HIGH TRANSACTION COSTS AND HIGH INVESTMENT RISKS DESPITE THE HIGH (URBAN) DEMAND FOR FOOD. AS NIGERIA IS A FOOD-DEFICIT COUNTRY, THE URBAN DEMAND FOR CHEAP FOOD IS MET THROUGH FOOD IMPORTS, BUT THERE IS A MUTUALLY REINFORCING MISMATCH BETWEEN SUPPLY AND DEMAND AT MANY LEVELS AND IN MANY DIMENSIONS. NEGATIVE FEEDBACK LOOPS – BETWEEN A WEAK ENABLING ENVIRONMENT, LACK OF INCENTIVES AND FINANCE FOR INVESTMENT AND LOW AGRICULTURAL PRODUCTIVITY – KEEP THE AGRI-FOOD SECTOR LOCKED INTO UNDERPERFORMANCE.

WHY A CHANGE IN OUR FOOD SYSTEMS APPROACH?

INVESTMENTS IN SECTORS SUCH AS HORTICULTURE (VEGETABLE AND POTATO) AND POULTRY HAVE HIGH POTENTIAL – WHEN THE SECTOR IS PROFESSIONALISED BY IMPROVING THE AGRIBUSINESS, VALUE CHAINS AND AGRI-LOGISTICS AND CLIMATE CHANGE RESILIENCE – TO CONTRIBUTE TO FOOD AND NUTRITION SECURITY AND INCOME GENERATION FOR WOMEN AND YOUTH IN THE NORTH (KADUNA AND KANO), WHILE EXPORT CROPS SUCH AS COCOA AND PALM OIL CAN CONTRIBUTE TO ECONOMIC DEVELOPMENT AND EMPLOYMENT GENERATION IN THE SOUTH. DUTCH PRIVATE SECTOR AND KNOWLEDGE INSTITUTES CAN RELY ON THEIR EXPERTISE IN THESE DOMAINS TO CONTRIBUTE WITH TARGETED INVESTMENTS AND PARTNERSHIPS. THE FOLLOWING LEVERAGE POINTS HAVE BEEN IDENTIFIED

WHY A CHANGE IN OUR FOOD SYSTEMS APPROACH?

- AGRICULTURAL SECTOR TRANSFORMATION – PUBLIC INVESTMENTS IN OPERATIONAL ENABLING ENVIRONMENT AND CREATION OF POLICIES.
- AGRIBUSINESS, VALUE CHAIN DEVELOPMENT, AGRI-LOGISTICS – VALUE CHAIN STRENGTHENING AND COORDINATION FOR SHORTER VALUE CHAIN
- ACCESS TO FINANCE – MARKETING SERVICE OF PRIVATE CAPITAL WITH PARTNERS WITH AGRICULTURAL KNOW HOW AND SOCIAL/ENVIRONMENTAL/ECONOMIC IMPACT GOALS AND CREATE ACCESS TO MICRO FINANCE FOR YOUNG MEN/FEMALE ENTREPRENUERS IN COMBINATION WITH BUSINESS COACHING/ADVICE AND MATCHMAKING
- EMPLOYMENT – TECHNICAL AND VOCATIONAL TRAINING OF YOUTHS AND WOMEN LINKED TO VALUE CHAIN/PROCESSORS AND PROMOTION OF RESPONSIBLE INVESTMENTS AND DECENT JOBS.
- FOOD AND NUTRITION SECURITY - AWARENESS RAISING AND KNOWLEDGE IMPROVEMENT ON HEALTHY DIETS; (PUBLIC AND PRIVATE) INVESTMENTS IN DOMESTIC AGRICULTURAL PRODUCTION AND PROCESSING CAPACITIES TO IMPROVE THE PRODUCTION OF FOOD AND CASH CROPS AND REDUCE FOOD LOSS.
- CLIMATE CHANGE ADAPTATION - SHARING OF DATA AND INFORMATION (AND KNOW-HOW) ON CLIMATE CHANGE IMPACTS AND ADAPTATION STRATEGIES FOR VALUE CHAIN ACTORS.

FOOD AND NUTRITION SECURITY IN NIGERIA

NIGERIA FACES THE DOUBLE BURDEN OF MALNUTRITION, WITH BOTH UNDERNUTRITION AND OBESITY RECOGNIZED AS A MAJOR HEALTH ISSUE FOR THE COUNTRY. THERE ARE ALSO CHALLENGES RELATED TO POST-HARVEST LOSSES AND FOOD SAFETY. NIGERIAN STAKEHOLDERS WITH KNOWLEDGE ON NUTRITION AND HEALTHY DIETS (E.G. NIGERIAN UNIVERSITIES) HAVE LITTLE INFLUENCE ON CONSUMER BEHAVIOUR. AWARENESS RAISING ON HEALTHY DIETS IS REQUIRED AT THE CONSUMER END. AT NATIONAL LEVEL, NIGERIA FACES A FOOD DEFICIT BECAUSE OF THE LOW AGRICULTURAL PRODUCTIVITY AND LIMITED PROCESSING AND STORAGE CAPACITY RESULTING IN HIGH PRICES FOR DOMESTICALLY PRODUCED FOOD PRODUCTS.

FOOD AND NUTRITION SECURITY IN NIGERIA CONT'D

FNS IS AT THE HEART OF THE NIGERIAN AGRICULTURAL POLICY, WITH FOOD SECURITY AS ONE OF FOUR FEDERAL PRIORITIES. THE AGRICULTURAL PROMOTION POLICY IDENTIFIES FOOD AS A HUMAN RIGHT, COMPELLING THE GOVERNMENT TO PROTECT NIGERIANS FROM HUNGER AND MALNUTRITION. NUTRITION SENSITIVE AGRICULTURE IS MENTIONED AS ONE OF THE WAYS TO ADDRESS ISSUES OF STUNTING, WASTING AND UNDERWEIGHT IN THE COUNTRY (FMARD, 2016). NIGERIA'S NATIONAL STRATEGIC PLAN FOR ACTION ON NUTRITION AIMS TO PROMOTE THE DELIVERY OF EFFECTIVE INTERVENTIONS THAT WILL ENSURE ADEQUATE NUTRITION FOR ALL NIGERIANS, ESPECIALLY VULNERABLE GROUPS (MINISTRY OF HEALTH, 2014).

LEVERAGE POINTS FOR SUCCESSFUL FOOD SECURITY IMPLEMENTATION

ONE IDENTIFIED LEVERAGE POINT IS AWARENESS RAISING AND KNOWLEDGE IMPROVEMENT ON HEALTHY DIETS INCORPORATING THE PRIVATE SECTOR. KNOWLEDGE ON NUTRITION, FOOD SAFETY AND HEALTHY DIETS COULD BE INCLUDED IN THE TECHNICAL AND VOCATIONAL TRAINING OF YOUTH AND WOMEN IN THE PROCESSING INDUSTRY.

SUGGESTED ACTIVITIES FOR A SUCCESSFUL IMPLEMENTATION AS FOLLOWS

- INCLUDE HEALTHY DIETS AND KNOWLEDGE ON NUTRITION IN TECHNICAL AND VOCATIONAL TRAINING OF YOUTH AND WOMEN, FARMERS AND PROCESSORS
- ENGAGE (SMALL-SCALE) PROCESSORS, VENDORS, SUPERMARKETS, FARMER UNIONS IN AWARENESS RAISING ON NUTRITION AND HEALTHY DIETS (INCL. FOOD SAFETY)
- WORK WITH UNIVERSITIES (E.G. STUDENT CHALLENGES) TO PROMOTE AWARENESS AND KNOWLEDGE ABOUT FOOD SAFETY IN NIGERIA'S URBAN OPEN MARKETS
- PROMOTE INFO/STATISTICS ON HEALTHY FOOD AND (SOCIAL) MEDIA CAMPAIGN
- INVOLVE LOCAL AND INTERNATIONAL CIVIL SOCIETY TO IMPROVE AWARENESS ON HEALTH & NUTRITION AMONG CONSUMERS

LEVERAGE POINTS FOR SUCCESSFUL FOOD SECURITY IMPLEMENTATION

AT NATIONAL LEVEL, AN IMPORTANT LEVERAGE POINT IS THE (PUBLIC AND PRIVATE) INVESTMENTS IN DOMESTIC AGRICULTURAL PRODUCTION AND PROCESSING CAPACITIES TO IMPROVE THE PRODUCTION OF FOOD AND CASH CROPS AND REDUCE FOOD LOSSES. ACCESS TO QUALITY SEEDS CAN SIGNIFICANTLY IMPROVE PRODUCTIVITY.

SUCCESSFUL ACTIVITIES FOR A SUCCESSFUL IMPLEMENTATION AS FOLLOWS

- VALUE CHAIN DEVELOPMENT IN HORTICULTURE SUB-SECTOR (ALSO FOR NUTRITIOUS FOOD, AFFORDABILITY OF NUTRITIOUS FOOD)
- PROMOTE VEGETABLE PRODUCTION AS FOOD AND NUTRITION SOURCES FOR THE PEOPLE

VEGETABLE PRODUCTION AS PART OF CULTIVATING HEALTHY DIETS FOR FOOD SECURITY

WHAT IS VEGETABLE PRODUCTION?

THIS IS THE GROWING OF VEGETABLE CROPS PRIMARILY FOR USE AS HUMAN FOOD.

VEGETABLE FARMING RANGES FROM HOME GARDENS, SMALL PATCHES OF CROPS PRODUCING A FEW VEGETABLES FOR FAMILY USE OR FOR MARKETING.

ACTIVITIES OF VEGETABLE PRODUCTION INCLUDES IDENTIFICATION OF THE RIGHT SEEDS SPECIFIC TO THE WEATHER, SOIL PREPARATION, CULTIVATION, IRRIGATION, APPLICATION OF FERTILIZERS, CONTROL OF WEEDS, DISEASES, AND INSECTS, PROTECTION AGAINST FROST.

OLERICULTURE IS THE SCIENCE OF VEGETABLE GROWING, DEALING WITH THE CULTURE OF NON WOODY HERBACEOUS PLANTS FOR FOOD. IT IS THE PRODUCTION OF PLANTS FOR USE OF THE EDIBLE PARTS AND CLASSIFIED INTO CATEGORIES SUCH AS POTHERBS AND GREENS – SPINACH AND COLLARDS

LEAFY GREEN- LETTUCE, SPINACH AND SILVERBEET

CRUCIFEROUS – CABBAGE, CAULIFLOWER, BRUSSELS SPROUTS AND BROCCOLI

MARROW – PUMPKIN, CUCUMBER AND ZUCCHINI

ROOT – POTATO, SWEET POTATO AND YAM

VEGETABLE PRODUCTION AS PART OF CULTIVATING HEALTHY DIETS FOR FOOD SECURITY

VEGETABLE PRODUCTION IN NIGERIA

NIGERIA IS ONE OF THE LARGEST PRODUCERS OF VEGETABLES IN AFRICA, WITH OVER 1.9 MILLION HECTARES OF LAND USED FOR VEGETABLE FARMING. THE COUNTRY'S TOP VEGETABLE PRODUCING STATES INCLUDE LAGOS, KANO, KADUNA, PLATEAU AND OYO

LEAF VEGETABLES – LETTUCE, CABBAGE, SPINACH

FRUIT VEGETABLES – PEPPER, CUCUMBER, TOMATO

ROOT VEGETABLES – CARROT, RADISH, SWEET POTATO, YAM, IRISH POTATO

BULB VEGETABLES – GARLIC, ONION, FENNEL

FLOWER VEGETABLES – CAULIFLOWER, BROCCOLI, ARTICHOKE

EAST WEST SEED KNOWLEDGE TRANSFER VIDEOS

YOU TUBE VIDEOS

[HTTPS://YOUTU.BE/WTQWDYURBDU](https://youtu.be/WTQWDYURBDU) SOIL HEALTH

[HTTPS://YOUTU.BE/VJX0RY6UR1A](https://youtu.be/VJX0RY6UR1A) - SEEDLING GROWTH

[HTTPS://YOUTU.BE/WKIRWKKZ -U](https://youtu.be/WKIRWKKZ-U) SEEDLING GROWTH 2

[HTTPS://YOUTU.BE/HIFZ-HKIT2M_](https://youtu.be/HIFZ-HKIT2M_) SPRAYING METHODS

[HTTPS://YOUTU.BE/WXL648J6ROQ_](https://youtu.be/WXL648J6ROQ_) MULCHING

[HTTPS://YOUTU.BE/S4BTIXTNJO8](https://youtu.be/S4BTIXTNJO8) DISEASE IDENTIFICATION

EAST WEST SEED KNOWLEDGE TRANSFER VIDEOS

YOU TUBE VIDEOS

[HTTPS://YOUTU.BE/ZG5WJZLJ9KS](https://youtu.be/ZG5WJZLJ9KS)_ BIOPESTICIDES

[HTTPS://WWW.YOUTUBE.COM/WATCH?V=XVAFCFIENAY&AUTHUSER=0](https://www.youtube.com/watch?v=XVAFCFIENAY&AUTHUSER=0)_ FERTILISATION OF
VEGETABLES

[HTTPS://YOUTU.BE/NXTZUASQLFO](https://youtu.be/NXTZUASQLFO)_ HOW TO MAKE COMPOST

GROUP ACTIVITY

GROUP 1 – DRAW UP THE CRUCIAL STEPS TO STARTING A VEGETABLE HOME GARDEN

GROUP 2 – DRAW UP A PLAN TO STOP POST-HARVEST LOSS OF A SOLANACEAE PLANT

GROUP 3 – WHAT ARE THE MOST IMPORTANT COMPONENTS TO EVALUATE SOIL HEALTH

TEST QUIZ

TEST

- **WHAT IS THE FAMILY NAME OF ONIONS, LETTUCE, EGGPLANT, CAULIFLOWER, PAPAYA**
- **WHAT ARE THE 6(SIX) SUCCESS FACTORS OF VEGETABLE PRODUCTION PLANNING**
- **MENTION THE 3 VARIETIES OF TOMATO AND THEIR MATURING DATES**

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REVIEW OF OBJECTIVES

THANK YOU!!