



**Chrisland University**  
Owode, Abeokuta, Ogun State, Nigeria

**PROTOCOLS & APPRECIATIONS...**

BINDIR – CHRISLAND UNI, 2024



**Engr Umar Buba Bindir PhD**

(BABBAN MUFTI ADAMAWA EMIRATE)

FOUNDER/CEO: BINDIR KNOWLEDGE CENTER INTERNATIONAL, YOLA  
FAEng, FNSE, FNIAE, FSES, CEng, COREN® NPOM

ubindir@yahoo.com

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**UMAR B. BINDIR IN BRIEF**

- YOLA TOWN, ADAMAWA STATE; BSc (Maid), MSc, PhD (UK)
- Agricultural Power & Machinery Engineering Specialist
- FAEng, FNSE, FNIAE, COREN®, CEng, NPOM, etc
- ACADEMIA (Local and International)
- INDUSTRY (Local and International)
- CIVIL SERVICE (Federal Government)
  - FEAP, THE PRESIDENCY (Director), NAPEP, THE PRESIDENCY (Director)
  - Federal Ministry of Sports & Social Development (Director)
  - Federal Ministry of Science & Technology (Director)
- DG/CEO, NOTAP (2009 – 2015)
- Secretary to Government Adamawa State (SGS) (2015 – 2019)
- Director CIR, AFIT (currently on leave of absence)
- National Coordinator-National Social Investment Programme
- SOCIAL ENTREPRENEUR

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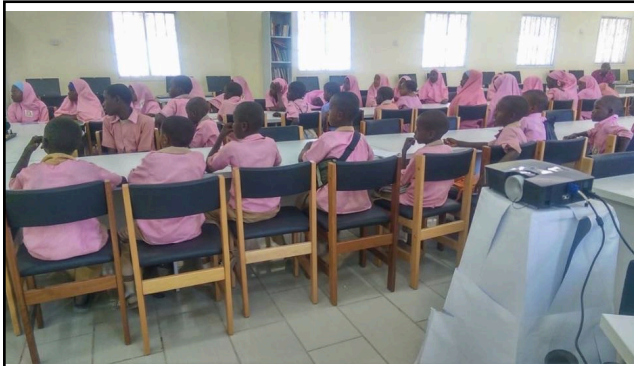
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**12 OFFICES/SHOPS/BUSINESSES & AN ICT/TRAINING HALL**

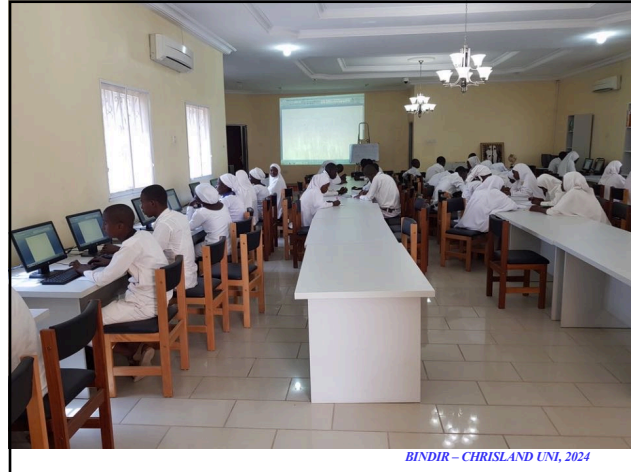


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## PARTNERSHIP/SUPPORT PLATFORM

- COMMUNITY DEVELOPMENT
- BUSINESS HUB
- CAPACITY BUILDING
- TECHNOLOGY HUB
- ENTREPRENEURSHIP
- RECREATION

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**BUT.....FOR TODAY**

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**NIGERIA,**  
**STRATEGIES FOR A NATIONAL REBIRTH:**  
SPECIAL REFERENCE TO A TRIPLE HELIX INNOVATION

*Convocation Lecture, Chrisland University, Abeokuta 2024*

29<sup>th</sup> OCTOBER, 2024

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**IRRESPECTIVE OF ANY FACTOR...**  
**FOR THE NATIONAL RE-BIRTH**

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**IN REAL TERMS, REBIRTH...**  
**MAINLY ACHIEVES THREE CORE THINGS**

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## THE NATIONAL RE-BIRTH

1. **Absolute poverty** is **totally eradicated**
  - BASIC EDUCATION
  - BASIC HEALTHCARE
  - POTABLE WATER
  - DECENT SHELTER
  - DECENT CLOTHING
  - SANITATION
  - ETC

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## THE NATIONAL RE-BIRTH...

1. Absolute poverty is totally eradicated
2. Every man, woman, and child in the Country should **have access, not just to basic minimum needs, but to all the opportunities** to lead a happy, safe and fulfilling life
  - SKILLS & COMPETENCES
  - JOBS & PRODUCTIVITY
  - SAFETY & SECURITY
  - ETHICS (DISCIPLINE & RESPECT)
  - PLAY & ENJOYMENT
  - etc

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## THE NATIONAL RE-BIRTH...

1. Absolute poverty is totally eradicated
2. Every man, woman, and child in the Country should **have access, not just to basic minimum needs, but to all the opportunities** to lead a happy, safe and fulfilling life
3. Develop institutions to ensure that the country **emerges** as a **knowledge and a learning society** built on core values of development (*hard work, honesty, discipline, productivity, sincerity, and a collective sense of purpose*)
  - WORLD CLASS INSTITUTIONS, GLOBAL COMPANIES, PRODUCTS & KNOWHOW, INNOVATIONS & COMPETITIVENESS

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## THE EVIDENCE:

THOSE THAT HAVE **EFFECTIVELY** DONE THESE 3 THINGS...

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• **DEVELOPED & RICH** 1 T



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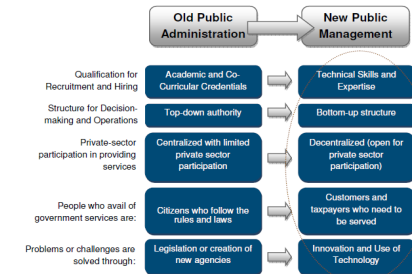
**SO, WHAT ACTUALLY HAVE THEY DONE?**

(LITERALLY, WHAT ARE THE SECRETS?)

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## KEY DRIVERS

- National Development Policies (evidence based, well coordinated, practical, implementable and measurable) on moving **ALL SECTORS**, are based on **knowledge**



Source: THOLONS 2010

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### KEY DRIVERS...

- National STI Policy (well coordinated, practical, implementable and measurable) on moving ALL SECTORS)
- Vibrant Research, Technology and Innovation system (**GOWN**)



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### KEY DRIVERS...

- National STI Policy (well coordinated, practical, implementable and measurable) on moving ALL SECTORS)
- Vibrant Research, Technology and Innovation system (GOWN)
- Institutional **Systems** of Innovation (**NSI**)



2024

### KEY DRIVERS...

- National STI Policy (well coordinated, practical, implementable and measurable) on moving ALL SECTORS)
- Vibrant Research, Technology and Innovation system (GOWN)
- Institutional Systems of Innovation (NSI)
- Sustained Research and Development (**R&D**) **Investment**



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### KEY DRIVERS...

- National STI Policy (well coordinated, practical, implementable and measurable) on moving ALL SECTORS)
- Vibrant Research, Technology and Innovation system (GOWN)
- Institutional Systems of Innovation (NSI)
- Sustained Research and Development (R&D) Investment
- **Raw Material** endowments and downstream value addition



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### KEY DRIVERS...

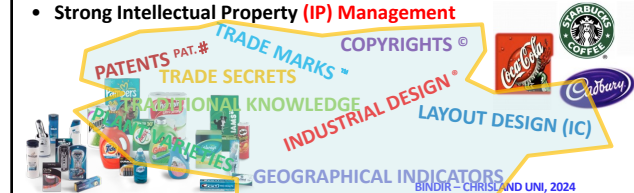
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- Sustained Research and Development (R&D) Investment
- Raw Material endowments and downstream value addition
- **Prioritised Technology Acquisition Focus and Mentor**



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- **Strong Intellectual Property (IP) Management**



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- **Innovative and Intense Deployment of ICT**



	Desktop PC
	Tablet PC
	Smartphone
	Laptop
	Tablet
	Smartphone
	Laptop
	Tablet
	Smartphone
	Laptop
	Tablet
	Smartphone

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### KEY ATTRIBUTES

- National STI Policy (well coordinated, practical, implementable and measurable) on moving ALL SECTORS)
- Vibrant Research, Technology and Innovation system (GOWN)
- Institutional Systems of Innovation (NSI)
- Sustained Research and Development (R&D) Investment
- Raw Material endowments and downstream value addition
- Prioritised Technology Acquisition Focus and Mentor
- Strong Intellectual Property (IP) Management
- Innovative and Intense Deployment of ICT
- **Viable Research - Industry Linkage models**
  - Hi-Tech companies, Efficient Technology Incubation, Science and Technology Parks, Research Parks, Innopolis, Technopolis etc

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### KEY PERFORMANCE INDICATORS

- **GLOBAL TECHNOLOGY VISIBILITY**
- **GLOBAL OPS/COMPANIES**
- **GLOBAL KNOW-HOW, SKILLS**
- **GLOBAL INDUSTRIAL PRODUCT RANGE**
- **CAPABILITIES & SERVICES**
- **DYNAMIC CREATIVITY & INNOVATION**
- etc...

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**IN THE EARLY DECADES, THESE SUCCESSFUL COUNTRIES WERE ALL IN EUROPE, and NORTH AMERICA**

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**AND THEY DOMINATED THE VALUES OF USING SUPERIOR KNOWLEDGE FOR HIGH SOCIO-ECONOMIC BENEFITS FOR A VERY LONG TIME...**

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## AS GLOBALISATION PROMOTION MATURED SOME COUNTRIES...

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## FOLLOWED, LEARNED & ADAPTED THESE VALUES...

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### ATTRIBUTES OF NATIONAL ECONOMIC MATURITY

- National STI Policy (well coordinated, practical, implementable and measurable) on moving ALL SECTORS)
- Vibrant Science, Technology and Innovation (STI) system
- Institutional Systems of Innovation (NSI)
- Sustained Research and Development (R&D) Investment
- Raw Material Endowments and downstream value addition
- Prioritised Technology Acquisition Focus and Mentor
- Strong Intellectual Property (IP)
- Intense Deployment of ICT
- Viable Research - Industry Linkage models
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### THEY ALSO JOINED...



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- 
- A globe showing the world's continents in various colors. A blue bracket on the right side of the globe groups North America, Europe, and Asia under the label '1ST'. A purple bracket on the left side of the globe groups Africa, South America, and Australia under the label '2ND'. The text 'DEVELOPED & RICH' is written in red above the '1ST' bracket, and 'EMERGING RICH' is written in purple above the '2ND' bracket.
- DEVELOPED & RICH
  - EMERGING RICH

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### SIMILAR KEY VALUES & INDICATORS

- GLOBAL VISIBILITY
- GLOBAL WELL RESPECTED
- CUSTODIANS OF BEST PRACTICES GLOBALLY
- GLOBAL ENTERPRISES & INSTITUTIONS
- GLOBAL KNOW-HOW, SKILLS
- HIGH CAPABILITIES & SERVICES
- DYNAMIC CREATIVITY & INNOVATION
- etc...

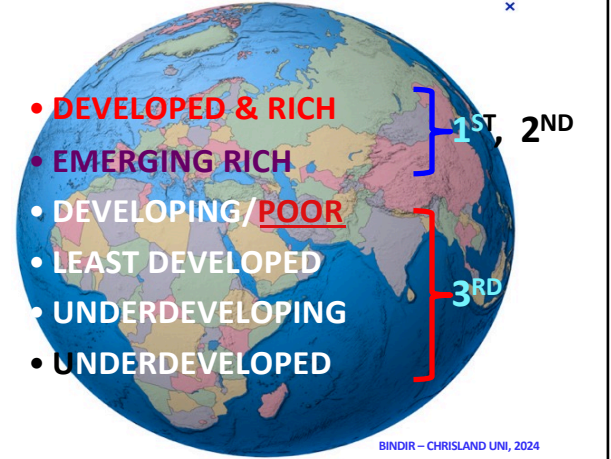
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**ON THE OTHER HAND, MANY COUNTRIES (MOSTLY IN AFRICA) HAVE NOT TAKEN THE ADVANTAGE OF THIS GLOBALISATION TO: FOLLOW, LEARN, OR ADOPT SUCH VALUES...**

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**THESE ARE:  
THE POOR AND VULNERABLE COUNTRIES...WHOSE PROFESSIONALS AND POLICY MAKERS HAVE NOT RESOLVED TO RE-JIG THEIR NATIONAL VALUES SYSTEM TO SOLVE THEIR CHALLENGES IN MOST OF THEIR DEVELOPMENT SECTORS...**

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### **FACTS & REALITIES OF THE MATTER...**

- **GLOBAL BLURRED**
- **GLOBAL NOT WELL RESPECTED**
- **CUSTODIANS OF BAD PRACTICES GLOBALLY**
- **NO GLOBAL ENTERPRISES & INSTITUTIONS**
- **MEAGRE GLOBAL KNOW-HOW, SKILLS**
- **WEAK CAPABILITIES & SERVICES**
- **PRIMITIVE/WEAK CREATIVITY & NO INNOVATION**
- **etc...**

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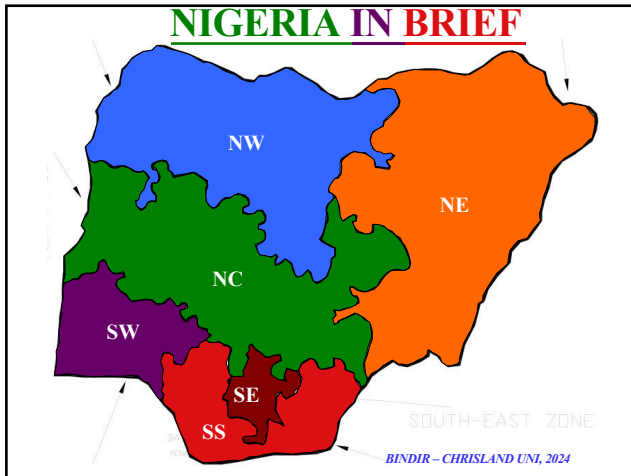
### **THEIR KPIS....**

- **NO REAL TECHNOLOGY VISIBILITY**
- **LOW PRODUCTIVITY**
- **FEW/NO GLOBAL ORGANISATIONS**
- **FEW/NO GLOBAL CAPACITY, SKILLS**
- **WEAK CAPABILITIES & SERVICES**
- **etc...**

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**SO..... HOW ARE ALL THESE RELEVANT TO NIGERIA??**

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- ### FACTS & REALITIES
- POPULATION (Nearly 240 Million)
    - Young, English Speaking, Traditionally Entrepreneurial, etc etc
  - RESOURCE BASE (Agro/Minerals/Water, Oil/Gas etc)
  - WEAK INFRASTRUCTURE
    - Physical, Socio-economic
    - **Suffocating Education System**
  - WEAK “LOCAL” **INDUSTRIES**
  - **INSECURITY/CORRUPTION** CHALLENGES
  - HIGH ABSOLUTE POVERTY (60/70%) – **> 100 MILLION**
    - **Dominance of weak Rural Life**
  - EMERGING CHALLENGES OF **ENVIRONMENT**
  - etc etc
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- ### FACTS & REALITIES...
- **FEW OR NO GLOBAL PRODUCTS**
  - **FEW OR NO GLOBAL COMPANIES**
  - **FEW OR NO GLOBAL KNOW-HOW, SKILLS AND CAPABILITY SERVICES**
  - **FEW “GLOBAL” TECHNOLOGIES**
  - Etc etc etc
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**SOBER REFLECTIONS & AN AGENDA!**

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**BUT....THIS IS NOT REALLY NEW**

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- ### PAST LEADERSHIP/POLICIES??
- **OFN/GREEN REVOLUTION**
  - **WAI, MAMSER, DFRRI, SAP...**
  - **INDIGINISATION POLICY**
  - VISION 2010 (*mid 80s to late 90s*)
  - VISION 20/2020 (NEEDS/MDGs, ECONOMIC REFORMS)
  - VISION 20/2020 (7 – POINT AGENDA)
  - VISION 20/2020 (TRANSFORMATION AGENDA)
  - VISION 20/2020 (CHANGE MANTRA/SDGs)
  - VISION 20/2020 (NEXT LEVEL)
  - VISION 20/2030 (*Lifting 100 million 10% out of poverty*)
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- **VISION 20/2030** (Lifting 100 million/10 years out of poverty)



## ALL TARGETTED AT A NIGERIA THAT...

- IS EFFICIENT & **PRODUCTIVE**
- IS **GLOBALLY COMPETITIVE**
- **HAS A MODERNISED SOCIETY & ECONOMY**
- **HAS A DYNAMIC POPULATION**
- **HAS A CREDIBLE GLOBAL VISIBILITY**
- **THAT IS SECURE AND SAFE**
- **HAS A VIABLE KNOWLEDGE ECONOMY**

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**BUT WE HAVE ALWAYS RETURNED  
WEAK SCORES!**

**SO WHY??**

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**IN MY OPINION...**

**THE TECHNICAL REASONS ROTATES  
AROUND THE FACT THAT...**

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**WE ARE YET TO REALISE THAT...**

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**ACHIEVING THESE:.....**

- **EFFICIENCY & HIGH PRODUCTIVE**
- **GLOBAL COMPETITIVENESS**
- **A MODERNISED SOCIETY & ECONOMY**
- **A DYNAMIC POPULATION**
- **A CREDIBLE GLOBAL VISIBILITY**
- **SECURED AND SAFE**
- **A VIABLE KNOWLEDGE ECONOMY**

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FIRMLY DEPEND ON THE VIBRANCE, CONNECTIVITY AND EFFICIENCY OF OUR KNOWLEDGE CAPITAL HINGED ON:

AN DYNAMIC RESEARCH, TECHNOLOGY & INNOVATION ECO-SYSTEM

“THIS IS THE MASTER KEY”

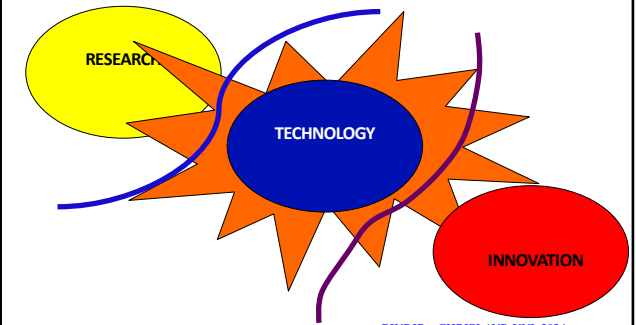
(AND THERE IS NO CUTTING CORNERS)

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SO...WE MUST REVIEW OUR UNDERSTANDING ON THE THEORIES & PRACTICE OF THE RTI VALUE CHAIN!!

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### THE RTI “ECO-SYSTEM”



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### SCIENTIFIC CAPACITY (RESEARCH)

FACTS AND FIGURES (Research)



Ability to study, generate knowledge, discover, conceive possibilities, document, communicate, publish...

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### RESEARCH

- SPECIALISTS (SCIENTISTS/RESEARCHERS)
- HIGHLY TRAINED AND QUALIFIED
- “LONG TERM” INVESTMENTS
- EXPENSIVE TOOLS AND FACILITIES
- HIGH MOTIVATION
- etc

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### RESEARCH RESULTS/OUTPUT

- RESEARCH INFRASTRUCTURE (Labs, Equipment & Centers)
- PhDs, WORLD CLASS PUBLICATIONS, PROFESSORS)
- HIGH IMPACT/CITATION/ACADEMIC PARTNERSHIPS...
- RELEVANCE?

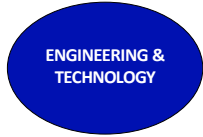
HIGH LEVEL, QUALITY KNOWLEDGE



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# ENGINEERING CAPABILITY

POSSIBILITIES AND APPLICATIONS (Development)



Ability to transform knowledge (S) into socio-economic solutions and assets)

# TECHNOLOGY

- **TECHNOCRATS (ENGINEERS, ARTISANS, HANDY CRAFT MEN/WOMEN.... OTHERS)**
- **HIGHLY SKILLED IN TRANSFORMING KNOWLEDGE**
- **PROOF OF CONCEPTS ON PRODUCTS AND PROCESSES**
- **PRODUCTION PROCESSES INFRASTRUCTURE**
- **PROTOTYPES AND PILOT PLANTS**
- **TECHNOLOGY SERVICES**
- **RELEVANCE ?**

# TECHNOLOGY (IP)...

HIGH LEVEL, QUALITY KNOWLEDGE (S)

KNOWLEDGE, PUBLICATIONS AND PhDs

INTELLECTUAL PROPERTY-IP (T)

???

# IPR...

HIGH LEVEL, QUALITY KNOWLEDGE (S)

KNOWLEDGE, PUBLICATIONS AND PhDs

INTELLECTUAL PROPERTY-IP (T)

INDUSTRIAL PROPERTY

COPIABLE PROPERTY

# IPR...

HIGH LEVEL, QUALITY KNOWLEDGE (S)

KNOWLEDGE, PUBLICATIONS AND PhDs

INTELLECTUAL PROPERTY-IP (T)

INDUSTRIAL PROPERTY

COPIABLE PROPERTY

MUST BE PROTECTED

# IPR...

HIGH LEVEL, QUALITY KNOWLEDGE (S)

KNOWLEDGE, PUBLICATIONS AND PhDs

INTELLECTUAL PROPERTY-IP (T)

INDUSTRIAL PROPERTY

COPIABLE PROPERTY

LEGAL OWNERSHIP (R)

(IPR)

## IPR

### 1. INDUSTRIAL PROPERTY RIGHTS

- PATENTS PAT.#
- TRADE MARKS ™
- INDUSTRIAL DESIGN ®
- TRADE SECRETS
- HIGH LEVEL KNOW HOW
  - TECHNICAL SKILLS
  - MANAGERIAL SKILLS
- etc



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## IPR...

### 2. COPYRIGHTS ©

- CREATIVE EXPRESSION
- LITERARY
- MUSIC
- SOFTWARE
- DATABASES
- PLANT VARIETIES
- GEOGRAPHICAL INDICATORS
- TRADITIONAL KNOWLEDGE
- LAYOUT DESIGN
- etc

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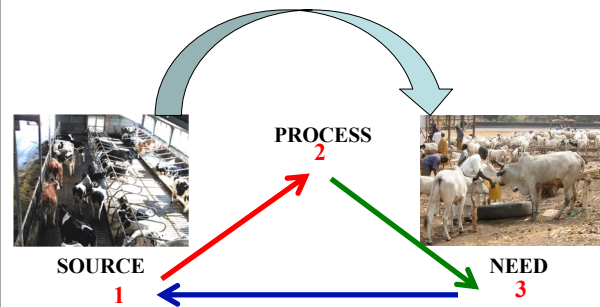
## IPR...



## IPR...



## TECHNOLOGY (IP) TRANSFER (Skill)



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## TECHNOLOGY TRANSFER PLATFORMS??

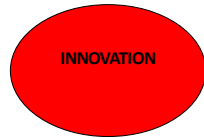
- SELF ACTUALISE
- OUTRIGHT SALE
- LICENSING
- JOINT VENTURE
- FRANCHISE (BUSINESS)
- GIFT/HELP
- etc etc

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## INNOVATION & ENTREPRENEURSHIP

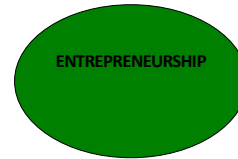
SOLUTIONS AND PRODUCTS



**OUTCOMES OF "DYNAMIC" DEPLOYMENT OF KNOWLEDGE, SKILLS AND KNOWHOW TO APPLY SOLUTIONS, REEL OUT PRODUCTS & SERVICES AND COMPETITIVELY SUSTAIN SOCIO-ECONOMIC DEVELOPMENT**

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## INNOVATION & ENTREPRENEURSHIP



**Creative skills and trait of using proven and tested solutions to provide & move goods and services efficiently for very clear benefits**

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## INNOVATION & ENTREPRENEURSHIP (I)

- **EVERYBODY..... ARTISANS**
- **FEASIBILITY, FINANCING, TRAINING**
- **IP MANAGEMENT & LICENSING**
- **BUSINESS PLANNING/MANAGEMENT**
- **PRODUCTION, MARKETING, BRANDING....**

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## ENTREPRENEURSHIP & INNOVATION (I)

- **PRODUCTS**
- **PROCESSES**
- **KNOW-HOW SERVICES (Consultancy etc)**
- **INDUSTRIAL SKILLS**
- **MANAGERIAL SKILLS**

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### Trade marks:

- Made by "Nokia"
- Product "N95"
- Software "Symbian", "Java"

### Patents:

- Data-processing methods
- Semiconductor circuits
- Chemical compounds

### Copyrights:

- Software code
- Instruction manual
- Ringtone



### Trade secrets:

?

### Industrial Designs (some of them registered):

- Form of overall phone
- Arrangement of buttons in oval shape
- Three-dimensional wave form of buttons

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## ***THE NIGERIAN PRACTICALS*** ***(what & where !?)***

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## **CURRENT NIGERIAN NATIONAL DEVELOPMENT & INDUSTRIALISATION STRATEGY/POLICY**

### **“THE RENEWED HOPE AGENDA”**

- SECURITY
- ECONOMY
- **JOB CREATION**
- AGRICULTURE and
- INFRASTRUCTURE

*PRESIDENT BAT, 12<sup>TH</sup> JUNE 2023*

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## **THE NIGERIAN RTI CONTENT**

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### **THE NIGERIAN RTI SYSTEM**

- Over 270 **Universities**
- Over 600 **NBTE Accredited (~140 Polytechnics)**
- Over 200 **COE**
- Over 300 **Research Institutions/Centres**
- **Many Research capabilities** (Labs, Workshops, Libraries)
- **Many World-Class Foreign Industries**
- Large pool of high class capacities (Engineers, Professors, PhDs, Professional bodies, **Diaspora capacity etc**)
- **LARGE NUMBER OF OTHER NETWORKS**

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### **RESEARCH FACILITIES & OUTPUT**

FACTS AND FIGURES (Research)



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### **SPACE TECHNOLOGY**



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Temporary Bioreactor Immersion Systems

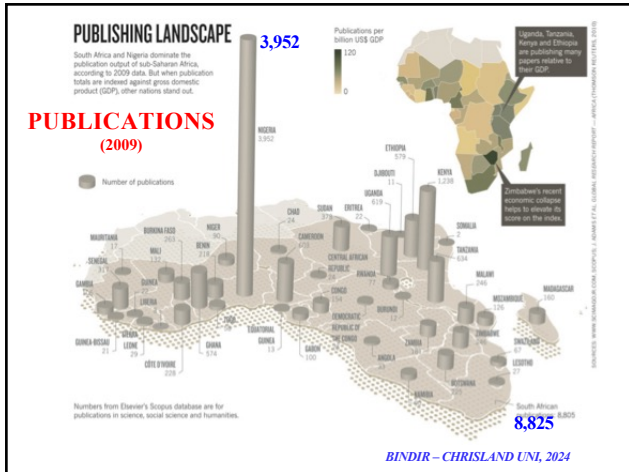


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RENEWABLE ENERGY RESEARCH



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**DEVELOPMENT “POTENTIAL” (T)**

POSSIBILITIES AND APPLICATIONS (Development)

**ENGINEERING & TECHNOLOGY**

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**US PATENT NO:5,800,819 (1998)**

US005800819A

**United States Patent** [19] Patent Number: **5,800,819**  
 Wambebe et al. [45] Date of Patent: **Sep. 1, 1998**

[54] **PIPER GUINEENSE, PTEROCARPUS OSUN, EUGENIA CARYOPHYLLATA, AND SORGHUM BICOLOR EXTRACTS FOR TREATING SICKLE CELL DISEASE** [56] **References Cited**

**US. PATENT DOCUMENTS**

4,473,599 9/1984 Robinson ..... 424/195.1  
 5,225,447 7/1993 Wambener ..... 514/449  
 5,447,720 9/1995 Fadda ..... 424/195.1  
 5,449,516 9/1995 De Araujo ..... 424/195.1

**OTHER PUBLICATIONS**

Houston, Amer. J. Clin. Nutr., 26:1261-1264, 1973.

[73] Assignee: **National Institute for Pharmaceutical Research and Development Federal Ministry of Science and Technology, Abuja, Nigeria**

**Primary Examiner**—David M. Naff  
**Assistant Examiner**—Janet M. Kerr  
**Attorney, Agent, or Firm**—Shook, Hardy & Bacon L.L.P.

[21] Appl. No.: **786,313**  
 [22] Filed: **Jan. 21, 1997**  
 [30] **Foreign Application Priority Data**  
 Jan. 25, 1996 [NG] Nigeria ..... RP12369  
 [51] **Int. Cl.** ..... **A61K 35/78**  
 [52] **U.S. Cl.** ..... **424/195.1; 514/814; 514/815**  
 [58] **Field of Search** ..... 424/195.1; 514/814; 514/815

**13 Claims, No Drawings**

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**INNOVATION “OPPORTUNITIES” (I)**

SOLUTIONS AND PRODUCTS

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**Egflorance Herbal**

This product solution shall save the lives of millions of people around the world, and substantially effect positively the health economies of all nations.

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### SCIENCE KITS



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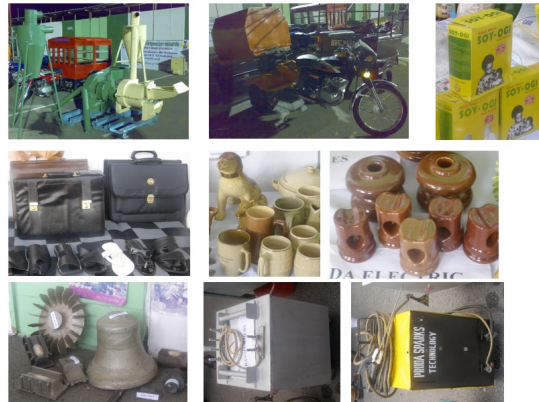
### LEATHER PRODUCTS



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NUMEROUS INVENTIONS/INNOVATIONS, 2024



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**NIGERIA's**  
**RESEARCH TECHNOLOGY & INNOVATION**  
**BANDWIDTH**

- **HIGH**
- **INTERMEDIATE**
- **LOW**
- **TRADITIONAL/LOCAL**
- **ENTREPRENEURSHIP**

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**DESPITE ALL THESE OUTPUTS,  
CREATIVITIES & INNOVATIONS  
ON THE GROUND.....**

**THE REALITIES**

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- **>60% OF THE POPULATION**  
(OVER 100 MILLION)

**SUB-URBAN/RURAL LIFE DOMINATES**

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**BASIC EDUCATION**



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## WATER SUPPLY



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## TOOLS OF TRADE



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## AGRIC PRODUCTION



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## STAPLE FOOD



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**CHALLENGES OF YOUTH UNDER EMPLOYMENT**

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## **Cottages & SMEs**



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**THE LIST IS LONG!!!**

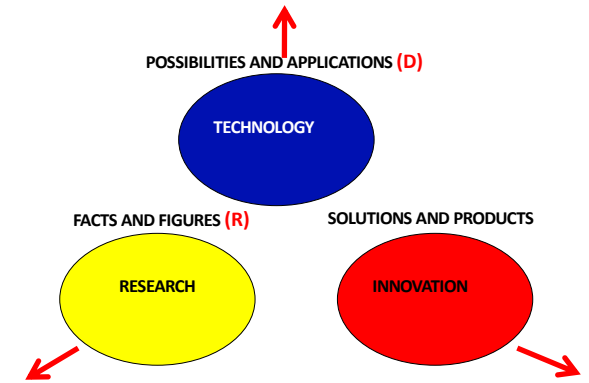
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**A CLEAR EVIDENCE OF  
RTI AND SOCIO-ECONOMIC DEVELOPMENT  
DISCONNECTION IN OUR COUNTRY.  
A COUNTRY THAT NEED TO BE BORN AGAIN**

**THE FUNDAMENTAL  
“HIDDEN” BUT CLEAR CHALLENGE IN ALL  
THESE IS....**

**REALITIES OF RTI POSTURE?**



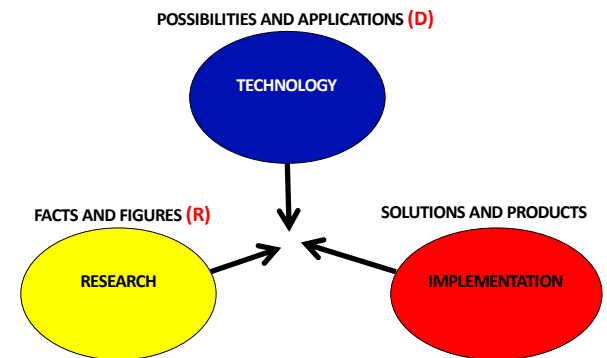
**REALITIES OF RTI POSTURE?**

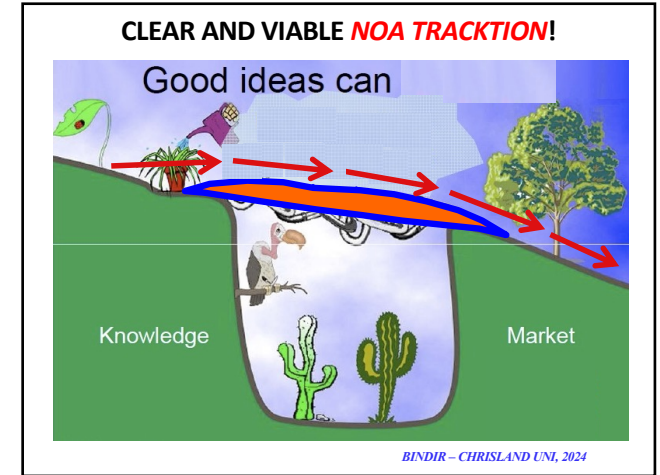
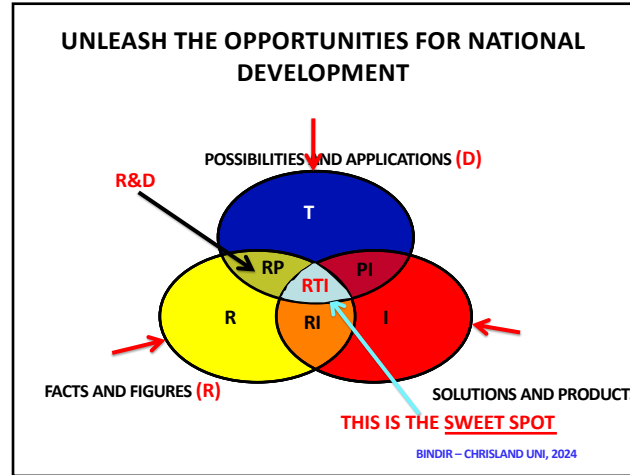
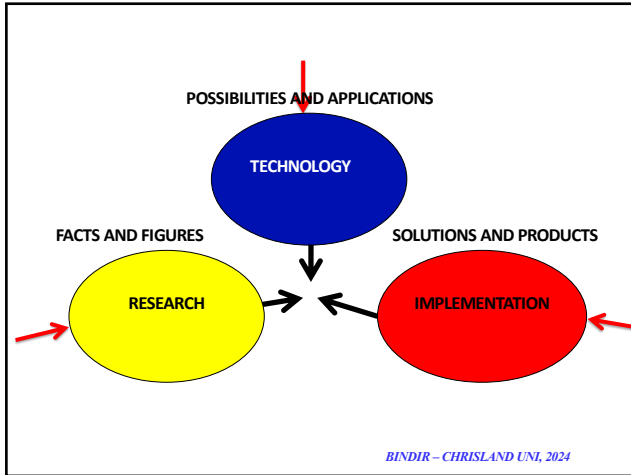


**THE SOLUTIONS**



**STRATEGIC PARTNERSHIP...**





**MORE SPECIFICALLY,  
THE EFFECTIVE STRATEGY TO  
TACKLE THESE CHALLENGES**

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**IS TO LITERALLY SHOCK-TREAT THE SYSTEM  
TO EVOLVE A  
CONNECTED RTI SYSTEM FOR EFFICIENCY,  
SUCCESS AND IMPACT...**

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- TERTIARY INSTITUTION SYSTEM EVOLUTION**
- TRAINING CENTRES/SCHOOLING
  - R&D AND EXPERIMENTATION CENTRES
  - PRODUCTION AND INDUSTRIAL CENTRES
  - ENTERPRISES WHO NEEDS TO SELL THEIR PRODUCTS (e.g. PATENTS) TO SURVIVE
  - COLLABORATING FACILITIES NATIONALLY AND INTERNATIONALLY
- “ONLY” GOVERNMENT CAN CATALYSE THESE**
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## HIGH SKILLS & KNOW-HOW

### HUMAN CAPITAL

- INNOVATIVE ENTREPRENEURS/BUSINESS LEADERS
- HIGH VALUES AND WORK ETHICS
- HIGH TECHNICAL KNOW-HOW AND COMPETENCES
- MANAGERIAL SKILLS
- ORGANISATIONAL SKILLS

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## COMPARATIVE ADVANTAGE

### RECOGNISE ENVIRONMENTAL CAPITAL

- THE VALUE AND POTENTIAL OF THE NATURAL ENVIRONMENT (OPPORTUNITIES)
- THE SUN, CLIMATE, RIVERS, SEEDS, INSECTS, ANIMALS, MICROBES, etc
- ORGANISE TO PRODUCE, PROCESS, COMMERCIALISE EFFECTIVELY
- LITERALLY TO CREATE & APPLY VIABLE SOLUTIONS FOR BUSINESS SUCCESS & DEVELOPMENT

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## SOCIAL CAPITAL

### SOCIO-CULTURAL/INTERPERSONAL CAPITAL

- TO NETWORK AND CREATE STRONG CONNECTIONS
- TO SHARE KNOWLEDGE, EXPERIENCES, DIFFICULTIES, OPPORTUNITIES
- TO NEGOTIATE, DISCUSS AND WORK JOINTLY

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## EFFICIENCY

### TECHNICAL CAPITAL

- TO INVESTIGATE, DISCOVER, DEVELOP, INCORPORATE AND INTEGRATE INNOVATIVE TECHNOLOGIES
- USE NEW TOOLS, NEW MACHINES, NEW PROCESSES, BETTER PRODUCTION TECHNIQUES
- ALL TOWARDS IMPROVEMENT OF PRODUCTIVITY AND BUSINESS SUCCESS

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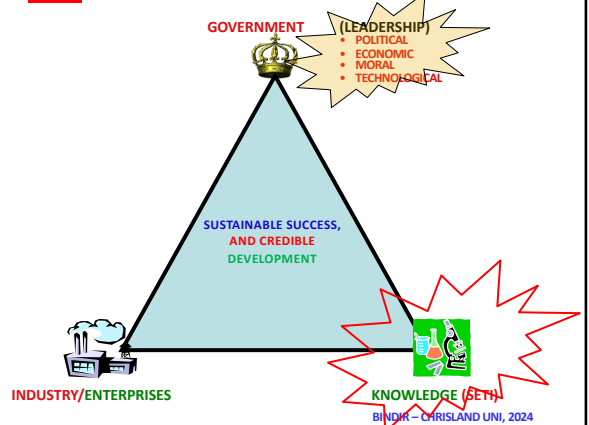
## FINANCES

### FINANCIAL CAPITAL

- TO BETTER CREATE & MANAGE FINANCES
- TO START, COMPLETE & SUSTAIN PROJECTS
- etc

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## HELIX OF SUSTAINED PROSPERITY AND DEVELOPMENT



**KEY VALUES & PERFORMANCE  
INDICATORS  
(MEASUREMENT)**

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**FARMING INPUTS & OUTPUT**



**SMALL**



**MEDIUM AND LARGE**

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## MANUFACTURING



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THESE ARE ALL **POSSIBLE!**

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## BUT WE MUST !!!

- **CHANGE STRATEGY** (no business as usual)
- **MATCH WORDS WITH ACTIONS**
- **LEAD AND FOLLOW WELL**
- **BE LOGICAL AND STRATEGIC**

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**LET'S ALSO RESOLVE TO FOLLOW, LEARN  
AND ADOPT WELL...**

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**NOW FOR SOME PERSONAL EXPERIENCES**

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## RECALL THE FAMOUS NIGERIAN **GROUNDNUT PYRAMIDS**



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**MSc & PhD** IN ENGINEERING  
THE YOUTHFUL, COMMITTED AND PATRIOTIC DRIVE  
**#BRINGBACKTHEPYRAMIDS**

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**LABOUR REQUIREMENT**

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**ANIMAL FOOD**



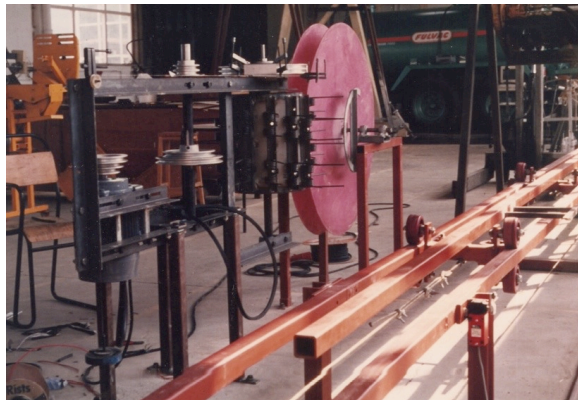
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**PEANUTS MECHANICAL PROPERTIES**



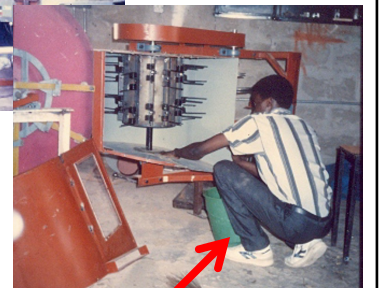
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**FIELD TESTING**



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## GROUNDNUT COMBINE HARVESTER



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**BUT THAT WAS THE TERMINAL END!!**  
**“THIS IS A COMMON EXPERIENCE”!**

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## KEY CHALLENGES

- “WEAK” INDUSTRIALISATION POLICY
- INDUSTRY VENTURE CAPITAL/TECHNOLOGY RISK FUNDS
- WEAK IP PROTECTION & MANAGEMENT SYSTEM
- WEAK COMMERCIALISATION POLICY
- TECHNOLOGY ENTREPRENEURSHIP SUPPORT
  - PRODUCT, PROCESS, EXPERTISE
- FEASIBILITY, BUSINESS PLANS, BRANDING, MARKETING SUPPORT
- etc etc!!!!

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**QUALIFIED MSc & PhD STUDIES**  
*STILL YOUTHFUL, COMMITTED AND PATRIOTIC*

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## ACADEMIC ADVENTURE - PACIFIC



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## COCONUTS EVERY WHERE



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## DEHUSKING PROCESS – MANUAL/CHALLENGE



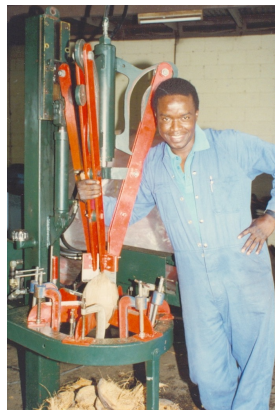
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## FAVOURABLE ENVIRONMENT

- **STRONG INDUSTRIAL POLICY,**
- **INDUSTRY VENTURE CAPITAL & TECHNOLOGY RISK FUNDS**
- **STRONG COMMERCIALISATION POLICY (FEASIBILITY, BUSINESS PLANS, BRANDING)**
- **STRONG IP POLICY AND MANAGEMENT**
- **STRONG TECHNOLOGY ENTREPRENEURSHIP (PRODUCT, PROCESS, EXPERTISE) etc etc etc!!!**

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### FULLY COMMERCIALISED (1996)



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**ALSO RECENTLY...**

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**THE CHALLENGES OF OUT OF SCHOOL  
CHILDREN (OOSC): 20 to 30m**

**A PROBLEM ALL OVER THE COUNTRY – IN VARYING COLOURS**

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**THE “GENERAL RESEARCH”**

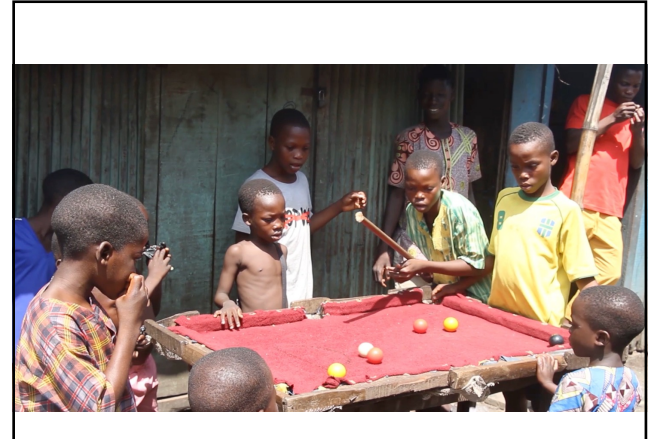
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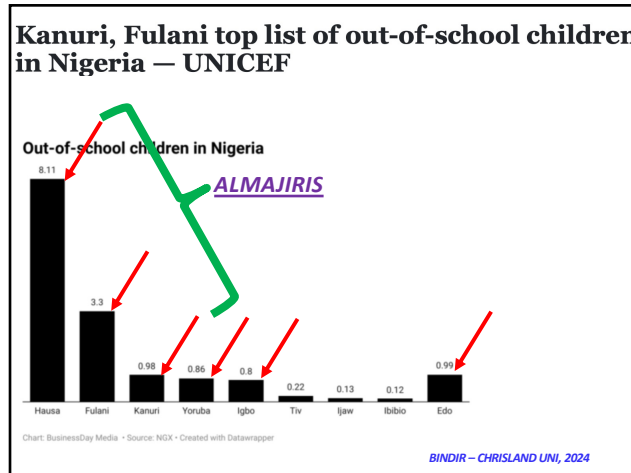
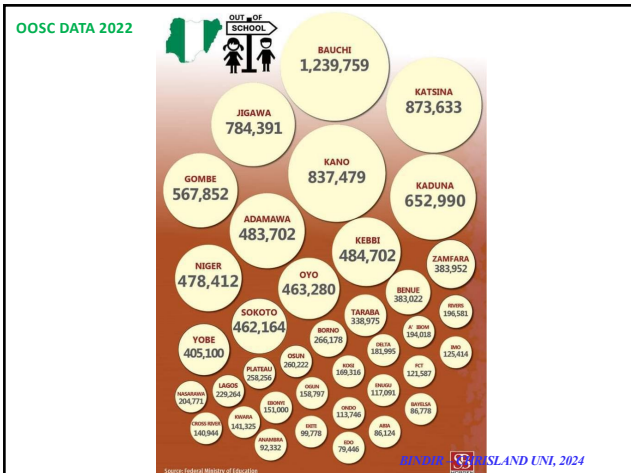


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**SPECIAL INTEREST ON THE ALMAJIRI MODE...**

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## UNIQUE COMMUNITY EDUCATION...



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## A REAL SOCIETAL “TIME BOMB”

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## THE “ENGINEERING RESEARCH”

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**THE "IPR"**

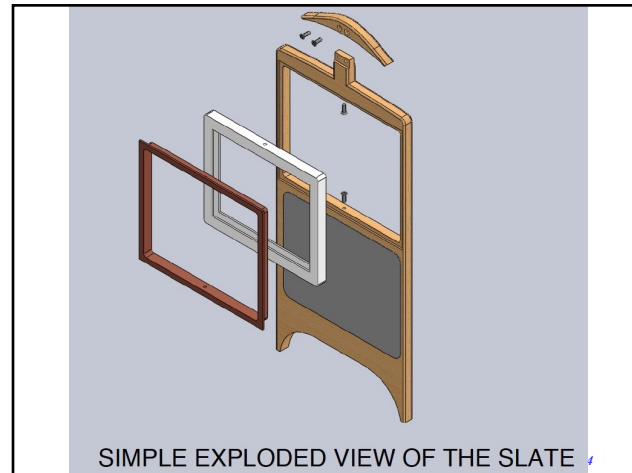
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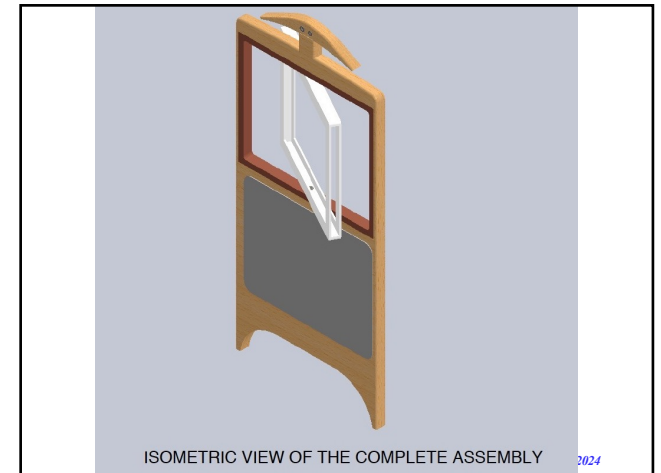
**PATENTED 2013**

**PROTOTYPE & PRODUCT DEVELOPMENT**

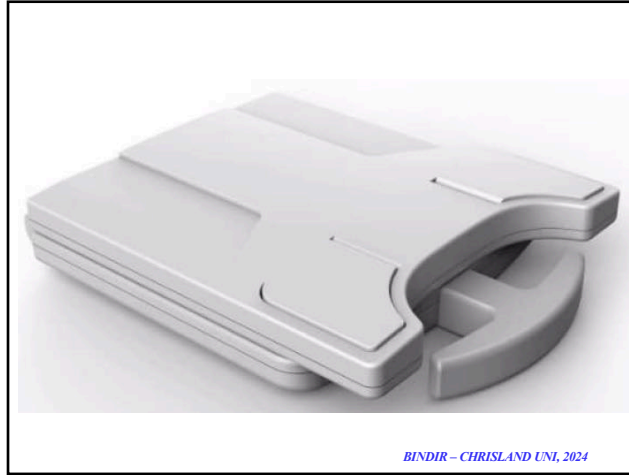
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SIMPLE EXPLODED VIEW OF THE SLATE



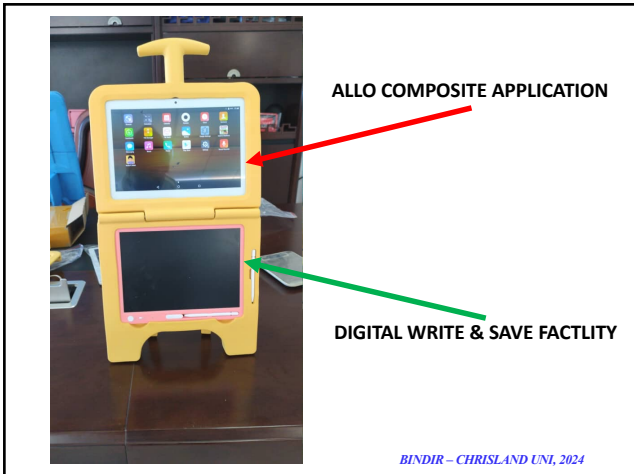
ISOMETRIC VIEW OF THE COMPLETE ASSEMBLY



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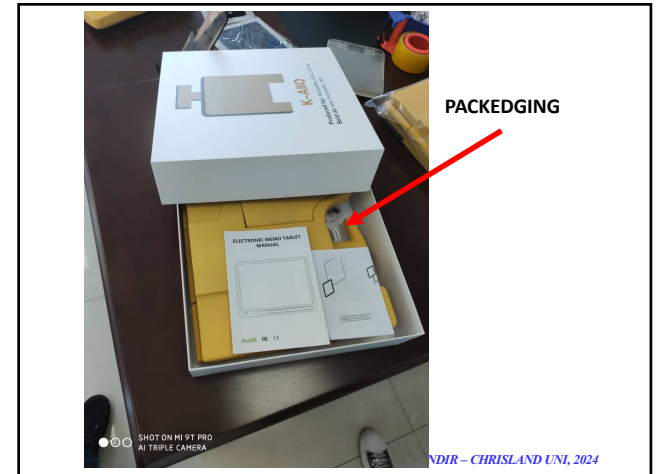
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# FIELD WORK

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SHOT ON MI 11T PRO  
AI TRIPLE CAMERA

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**K-Allo**  
PREMIUM PACK

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- 3G Network
- Electronic Writing
- Drawing Board
- 20 Kids Skill Apps
- 30 Islamic Education Apps

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**Kassuwannu**  
OUR MARKET

**K-Allo...**  
The Education Tablet

Patent No.  
NG/P/2013/744  
March 2013

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**“SOFT” ENTREPRENEURSHIP CONTENT**

- MOBILE JUICE SHOP
- MOBILE SNACKS

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**MOBILE FRUIT SALAD/JUICE SHOP**

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# FLAVOURED YOGHURT

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2024



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# MOBILE SNACKS SHOP

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# NICE BEAN CAKES

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## OTHER ENTERPRISES

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## ULTIMATE TARGET

The Digital Allo aims at supporting the Alternate School Option/Almajiri education system into the 21<sup>st</sup> century and transform the kids into knowledgeable & active agents of productivity and entrepreneurs in the 4<sup>th</sup> industrial revolution.

With it, you can teach and produce a “high-tech child” at the age of 9 under a tree

*Bindir 2020*

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## GENERAL RECOMENDATIONS

FOR TRIGGERING A NATIONAL REBIRTH

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**BUILDING A NIGERIAN “POLY-TECH” CULTURE**

**WE MUST LEARN “TO SPEAK & CONNECT”**

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**(1)**  
**NEW LANGUAGE**

**1,000,000 TECHNOLOGICAL HIGH  
WAGE JOBS AND ENTREPRENEURS  
PER YEAR**

**JUST IMAGINE THE OPPORTUNITIES UNDER “CONSTITUENCY PROJECTS”**

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## FOOD PROCESSING PLANTS



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## OIL EXTRACTION SMEs



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## FOOD PRODUCTS/SMEs

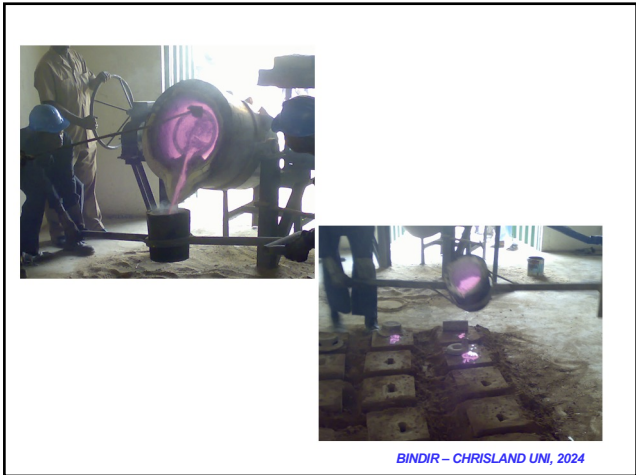


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## MACHINERY FABRICATION SMEs



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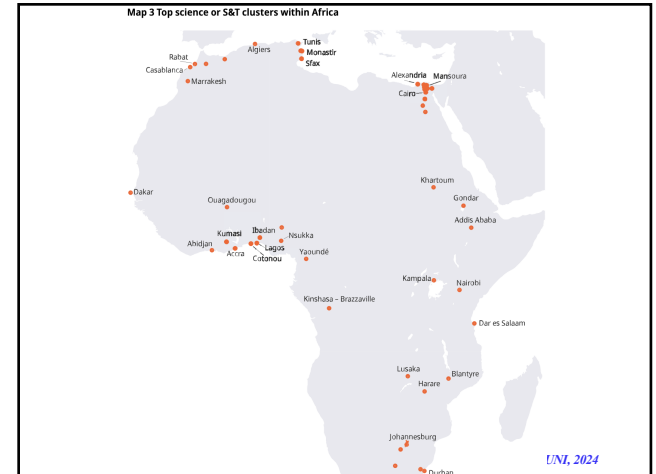


NUMEROUS INVENTIONS/INNOVATIONS  
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(2)

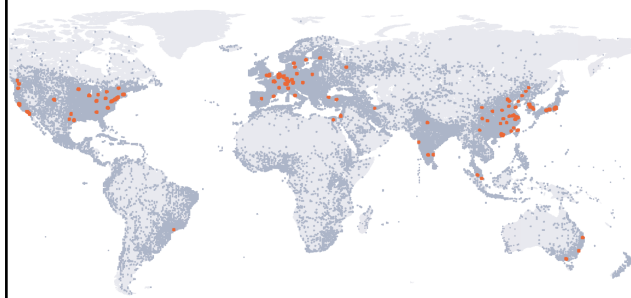
**THINKING OUT OF THE BOX TO LINK  
RESEARCH TO INDUSTRY**

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UNI, 2024

Map 1 Top 100 clusters worldwide, 2024



● S&T clusters: Top 100 ● Noise non-cluster points

Note: Noise refers to all inventor/author locations not classified as being within a cluster.  
WIPO Statistics Database, April 2024.

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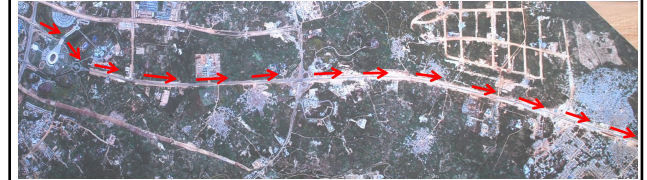
## TRADITIONAL DEVELOPMENT OF STP

### RESEARCH PARK

◆ Surrey Research Park, UK



## STADIUM TO AIRPORT ROAD



## THE ABUJA KNOWLEDGE CITY

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## EXCELLENT DUAL CARRIAGE INFRASTRUCTURE



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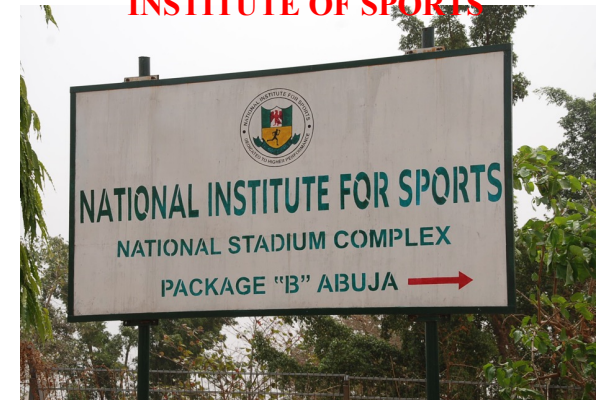


## NATIONAL STADIUM



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## INSTITUTE OF SPORTS



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## AMUSEMENT TECHNOLOGY PARK



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## China Civil Engineering Construction Corporation



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## SILVER FOUNTAIN MEDICAL CENTRE



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## CAPITAL CITY COMMUNITY AND CONFERENCE CENTRE



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## DEFENCE COLLEGE



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## SPACE AGENCY



## NIG. COMMUNICATION SATELLITE LTD



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## NATIONAL BIOTECHNOLOGY DEVELOPMENT AGENCY



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## ABUJA TECHNOLOGY VILLAGE



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## NELSON MANDELA INSTITUTE



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## NATIONAL PARK



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## NATIONAL JUDICIAL INSTITUTE



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## INTERNATIONAL CANCER RESEARCH



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## INTERNATIONAL TRADE FAIR COMPLEX



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## NIG. TURKISH NILE UNIVERSITY



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## BAZE UNIVERSITY



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## FEDERAL STAFF HOSPITAL



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## NATIONAL OPEN UNIVERSITY CENTRE



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## AMERICAN UNIVERSITY OF MEDICAL SCIENCES



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## VON HIGH FREQUENCY ANTENNA



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## THE IDU-INDUSTRIAL CLUSTER

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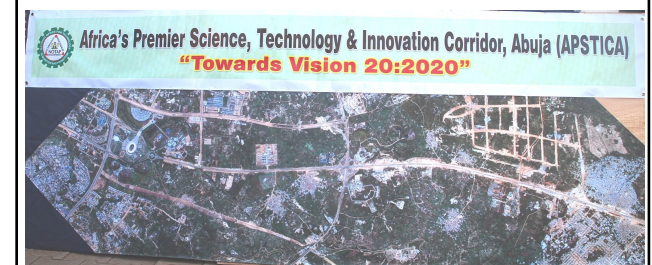
## FURTHER STRATEGIC EVOLUTION

- NOTAP - Wuse II
- RMRDC - Maitama
- NITDA - Garki
- NUC - Maitama
- DIGITAL INSTITUTE - Wuse
- NAEC - Asokoro
- ECN - Central
- COREN, NSE, ITF, NDE, etc

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## THE AFRICAN PREMIER SCIENCE TECHNOLOGY & INNOVATION CORRIDOR ABUJA (PASTICA)

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**(3)**  
**BINDIR AGENDA 1777**

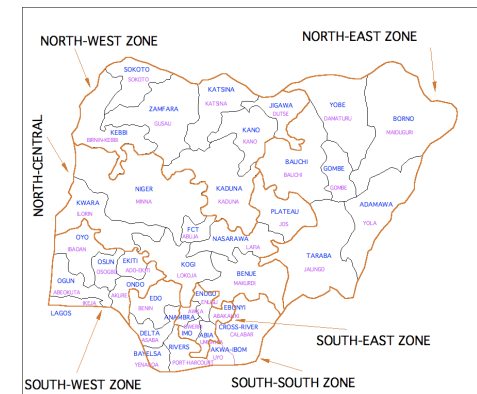
1. WE SHOULD DEMONSTRATE UNITY 1
2. IN THE NEXT 7 YEARS (2024 -2031)
3. GLOBALLY 7 BRANDED NIGERIAN PRODUCTS
4. NAIJA MULTI-NATIONAL COMPANIES - 7

**HOW?????**

**THE 1777**

1. WE SHOULD DEMONSTRATE UNITY 1
2. IN THE NEXT 7 YEARS (2024 -2031)
3. GLOBALLY 7 BRANDED NIGERIAN PRODUCTS
4. NAIJA MULTI-NATIONAL COMPANIES - 7

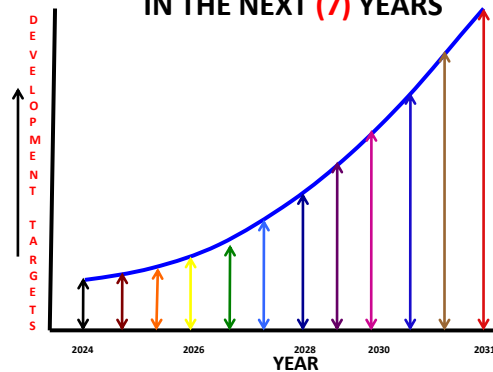
**ONE NIGERIA (1)**



**THE 1777**

1. THAT WE ARE ALL TOGETHER AS 1
2. IN THE NEXT 7 YEARS (2024 -2031)
3. GLOBALLY 7 BRANDED NIGERIAN PRODUCTS
4. NAIJA MULTI-NATIONAL COMPANIES - 7

**IN THE NEXT (7) YEARS**



**THE 1777**

1. THAT WE ARE ALL TOGETHER AS 1
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4. NAIJA MULTI-NATIONAL COMPANIES - 7

## GLOBAL PRODUCTS - (7)

1. ICT Innovations (Banking/comm. software)
2. AGRO INPUTS (Neem Oil and Organic Fertiliser)
3. FOOD (BIO-RESOURCES) – grass cutter, kpomo, mushroom, snails, rabbits
4. BASIC SCIENCE EDUCATION (basic kits, phone),
5. HEALTH (Nicosan, EATset)
6. SPORTS (football, boots, electronics, foods)
7. BUILDINGS (Rural housing and schools)

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## THE 1777

1. THAT WE ARE ALL TOGETHER AS 1
2. IN THE NEXT 7 YEARS (2024 -2031)
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## BUILDING (7) INDEGINOUS MNCs (HIGH WAGE EMPLOYERS)

1. ZINOX – Hardware manufacturing
2. CWG – Software and Services
3. WELTEK – Oil and Gas Engineering
4. GLO – Communications
5. MICRONUTRIENTS LAB Plc – Food Security
6. DANGOTE – Consumables Manufacturing
7. INNOSON – Affordable Automobiles

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(4)

### INNOVATIVE CAPACITY & CAPABILITY BUILDING

- Policy – Mphil, PhDs and Post Doctoral on Technology based public projects (States and Federal Government Projects, etc)
- New Faculties and Departments (Poverty Eradication, Rural Water Supply, Small Farm Development, Traditional Knowledge, etc etc)
- FULL “Made In Nigeria” Science Laboratories (NISLT, NBRRI, NARICT, NASENI, NITDA–CANI, NIGCOMMSAT, NACETEM, RMRDC, NOTAP etc)
- MINDFUL – OTHERS WILL NOT LIKE IT

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(5)

### INTENSE PROMOTION OF TECHNOLOGIES AND INNOVATIONS THROUGH VIABLE PARTNERSHIPS

- REGULAR SCIENCE TECHNOLOGY AND INNOVATION EXHIBITIONS (NUC, RMRDC, NOTAP, NACCIMA, NASTECH, NTA, NCS, IPTTOs, TETFund etc)
- Sec. schools S&T Congresses, JETs etc

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(6)

### NIGERIAN NATIONAL RESEARCH AND TECHNOLOGICAL FOUNDATION (NRTF) – 1% GDP – RESEARCH RESOURCE MANAGEMENT?

HOW?????

(RMRDC, NITDA, NCC, ITF, PTDF, TETF, LOTTERY FUND, ECOLOGICAL FUND, AGRIC DEV. FUND, SMEIS, BOI, BOA, NERFUND, etc etc)

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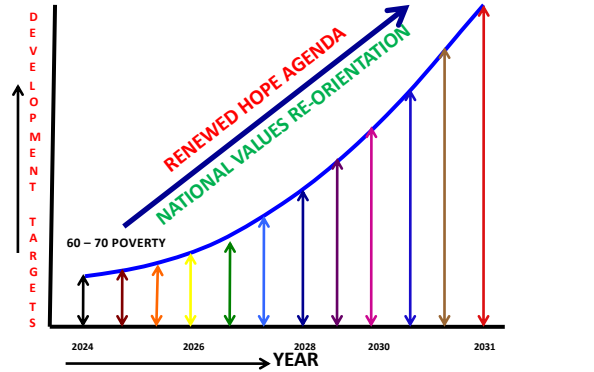
(7)  
**FUNCTIONALISE NRTICs**  
(Ultimate tool to achieve  
STI for Productivity and National Development)

**RTI COUNCILS @**  
**PRESIDENT (NATIONAL) and**  
**GOVERNORS (STATES)**

**POSITION RTI GOVERNANCE**  
**APPROPRIATELY**

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### AN RMRDC FACILITATED AGENDA



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**SHOWN STRATEGIES FOR A NATIONAL REBIRTH:**  
**CLOSE REFERENCE TO A TRIPLE HELIX INNOVATION**

**WILL UNLEASH OPPORTUNITIES FOR NATIONAL**  
**DEVELOPMENT TO EVOLVE A UNITED, MODERN,**  
**COMPETITIVE, AND GLOBALLY RESPECTED NIGERIA**

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