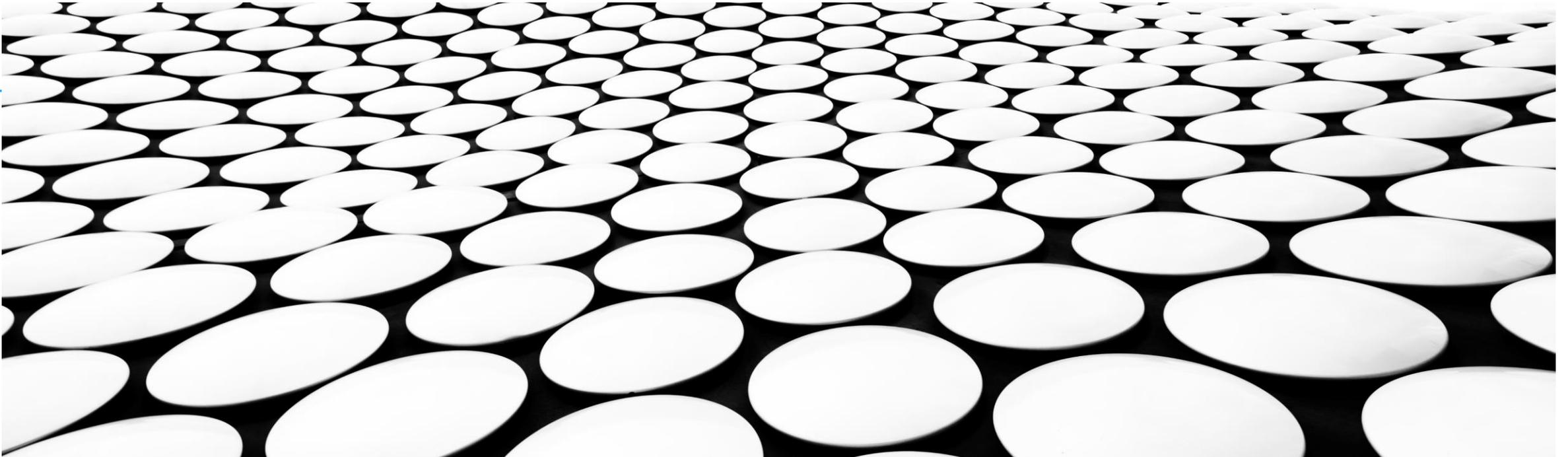

FUNDING FOR OPEN RESEARCH: A TETFUND PERSPECTIVE

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NATIONAL OPEN SCIENCE SYMPOSIUM

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SESSION MANAGEMENT

Background

Basics of Open Research

Contextual Framework of Open Research

TETfund & Research Funding

New Paradigm @ TETFund

Innovative funding models for Open Research

Conclusion

BACKGROUND

Research is part of the critical mass of science's DNA

Research plays a pivotal role in realization of the tripod goals of ideal tertiary education system

Innovation systems enabled by R&D ,driven by ICT and triggered by emerging technologies is the fulcrum for competitiveness

Global competitiveness of businesses and products development in Knowledge economies are outputs and outcomes of research

Open Research is a modular innovation system for the practice of functional science without borders

Nigeria's R&D ecosystem is presently undergoing reforms to accommodate open research as championed by TETFund's Paradigm shift

BASICS OF OPEN RESEARCH

Centrality of workflow & Best practice

Life cycle of R&D activities – Innovations and knowledge transfer

Data capturing, analysis, management and archiving

Research communications

Research & Researchers visibility

Intellectual Property & Commercialization

Reproducibility, transparency, interoperability, integrity & scalability

Collaborations, partnerships, inter/multi/trans-disciplinary work packages

NATIONAL REALITIES

Nigeria is the most populous black nation on earth and 3rd largest population by 2050

200 million out of 377.5million of Ecowas (15 countries)

Strategic location of GMT+1 time zone associated with favourable weather

Abundant natural resources & Biggest African Economy (\$432.30Billion, World Bank, 2020)

Deduction for R&D with allowance of 20% investments tax credit on qualifying expenditures

Full tax holiday with 100% capital allowance in Special Economic Zones

TETFUND AT A GLANCE

Over 226 beneficiary institutions – Universities, Polytechnics & Colleges of Education

Every states are blessed with abundance of mineral and other natural resources

On going funding of over 10,000 physical infrastructural projects, over 150,000 funded since establishment

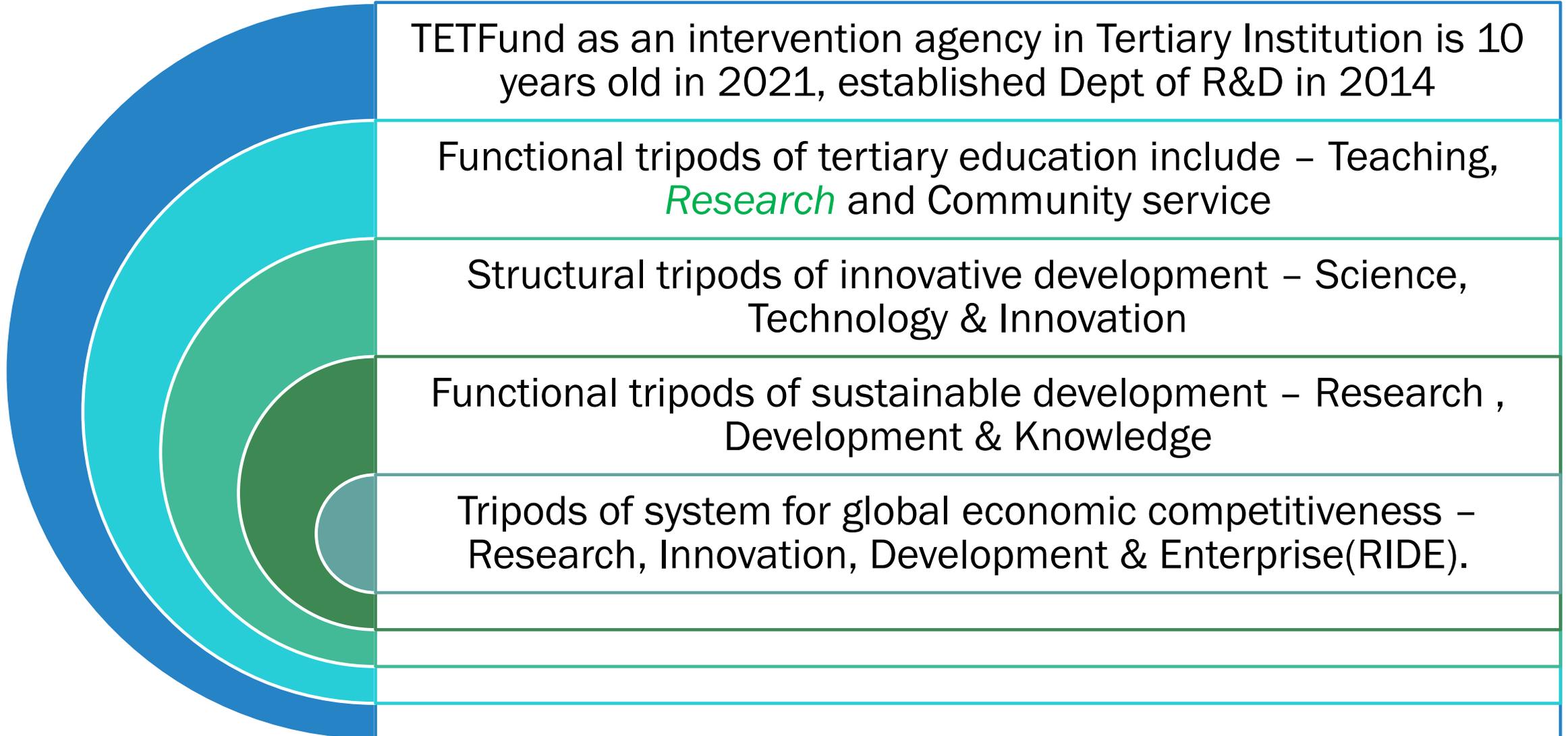
On going funding of more than 300 NRF research projects, about 1,000 grants since inception worth N9Billion

Institutional based Research- Over 5,000 funded

Funding of brown infrastructure is about 80% and content development about 20%, about 3% in grant(2021)

New paradigm focus on content development led by R&D institutionalization in Nigeria

TETFUND'S R&D DRIVE



SUMMARY OF THE NRF GRANTS AWARDED FROM 2012-2019

S/N	Year (s)	Batch	No. of Approved Proposals	Total Amount Approved (₦)
1	2012	I	12	241,570,615.00
2	2013	II	20	509,093,895.00
3	2014	III	8	104,041,819.00
4	2015	IV	33	843,707,898.00
5	2016	V	39	1,024,602,596.00
6	2019	VI	128	3,985,350,913.25
TOTAL			240	6,708,367,736.25



NEW PARADIGM OBJECTIVES

Massive turnaround of the content development component of Tetfund's interventions

Front loading R&D and its institutionalization in Nigeria

Restoration of academic leadership and scholastic excellence at Tertiary levels of education

Improve global ranking of Nigeria's tertiary institutions

Reversal and mitigation of brain drain syndrome (Drain-Tap-Gain)

Explore and attract global collaboration for our tertiary institutions

Establishment of National R&D Foundation as the SPV

ENHANCING GROSS EXPENDITURE ON R&D (GERD/GDP)

- 13 Thematic groups of the Tetfund's RDSC
- Agriculture
- Defence and Security
- Education
- Energy
- Engineering, Technology and Material Science Development
- Environment and Bioresources
- Governance, Social Development and Internal Security
- ICT/Digital Economy
- Industrialization, Manufacturing, Trade, Investment & Economy
- Infrastructural Development
- Medicine-One Health (Human, Animal, Wildlife, Environment)
- Petroleum/Fossil Resources, Solid Minerals & Mining
- Pharmaceuticals

PROPOSED INCOME & EXPENDITURE FRAMEWORK

Triple Helix – Government, Private sector & Academia.

Seed funding, Gifts, grants-in-aid and donation from private sector, national & international bodies

International Angel investment, venture capital and crowd funding

Grants from development partners, international institutions/universities/Foundations, investors, endowment, philanthropy and corporate funding

Sustainable financing model using tax credit scheme administration for eligible corporate entities

Local & Foreign direct R&D investment

Strategic expenditure outlay

R&D advocacy and Diplomacy

R&D infrastructure & Asset acquisition

Human capital development & talent management

Organisation and institutional arrangements;

R&D activities and projects

Database development, management & Analytics

Monitoring, evaluation, Learning & Feed Back mechanism

Legal and policy framework including Intellectual Property Rights

Operations, Management & financing activities.

FUNDING OPEN RESEARCH IN NIGERIA – NRDF WINDOW

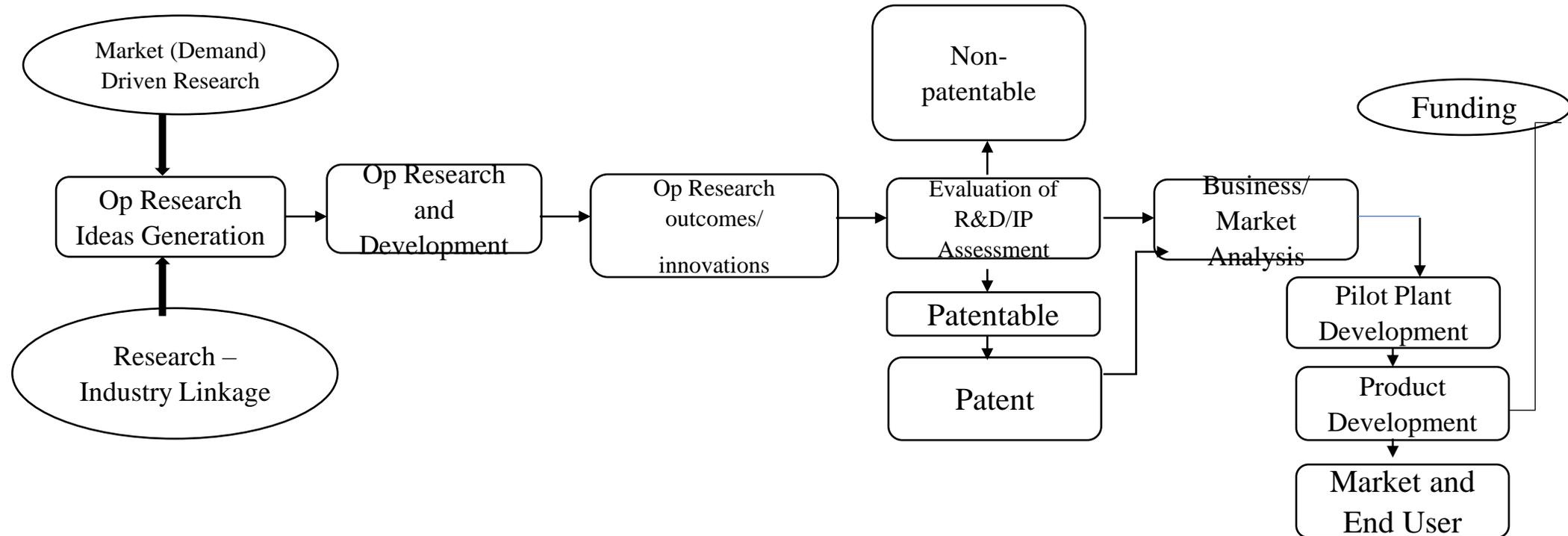
The Committee proposes that funding of the NRDF should be contributed by the following groups and in the percentages indicated.

• Stakeholder	Percentage %
1. Governments	65
2. Industry and Businesses	15
3. R & D Institutions	5
4. Entrepreneurs	5
5. Development Partners	8
6. Researchers and innovators	2
• Total	100

ESTIMATED BUDGET FOR OPEN R&D

Strategic Element	AMOUNT	
	% of Total Budget	TOTAL
		(N)m
R & D Advocacy	3	147,750.00
Infrastructure	45	2,216,250.00
Legal and Policy Frameworks	0.5	24,625.00
Organizational and Institutional Arrangement	3	147,750.00
Data Development and Management	8	394,000.00
Human Resource Development	10	492,500.00
Monitoring, Evaluation & Learning	5	246,250.00
Financing	0.5	24,625.00

MARKET -DRIVEN OPEN R4D MODEL



NEXT STEPS

Global Engagement of RDSC on Thematic Reports for inclusion & international inputs aggregation. April – November, 2021

National R&D summit & Review meetings – December, 2021

Visitation to some selected knowledge economies for case modelling, resource mobilization & partnerships August – December, 2021

Submission of the bill to the National Assembly. October, 2021

Expected passage of the NRDF establishment act. Dec, 2021

Proposed Commencement of operations by NRDF – March, 2022

CONCLUSION

NRDF seeks to establish the National Research and Development Foundation to institutionalise, mainstream and commercialise research and development, promote innovation and support enterprise development for job and wealth creation for a knowledge- d

NRDF is a special purpose vehicle for transiting Nigeria from a resource based to a knowledge driven economy

NRDF – providing the RIDE for sustainable development in an emerging new Nigeria

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■ Thank you for your attention