

Non-Profits and the Global Pharmaceutical Agenda: The Next Frontier in NAPPSA's Milestone Momentum

Presentation by

DR ANTHONY IKEME

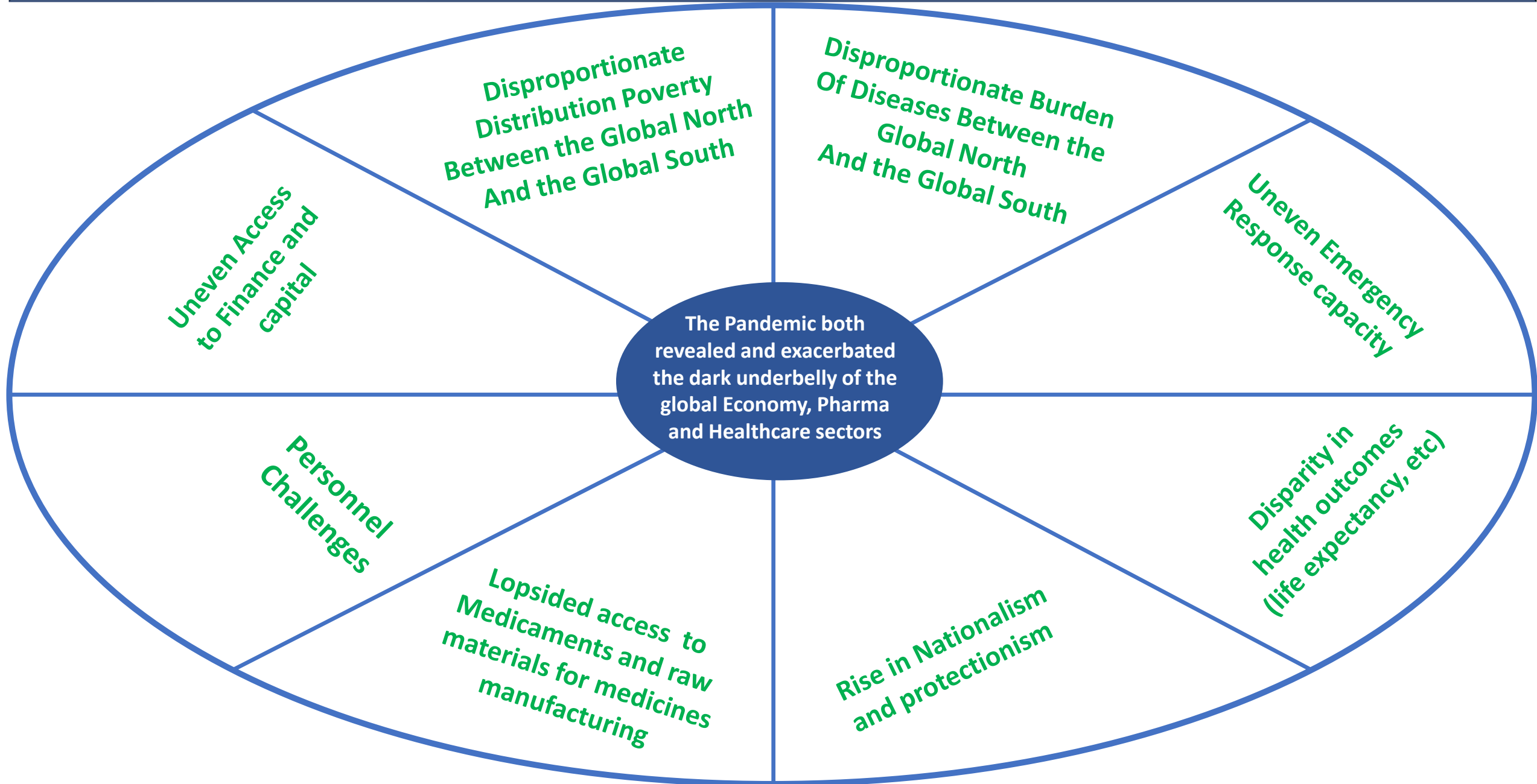
Managing Partner, PharmaMedics Inc., USA

18th Annual Scientific Conference of the

**Nigerian Association of Pharmacists and
Pharmaceutical Scientists in the Americas**

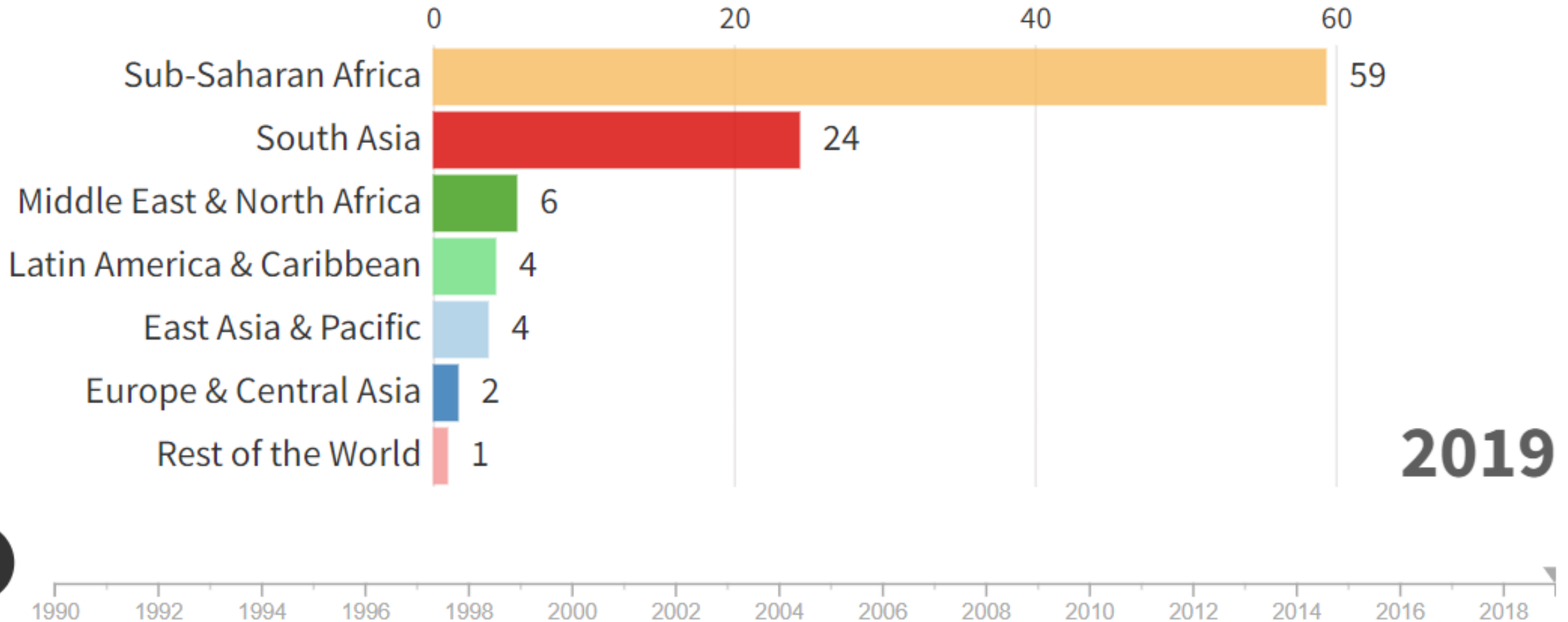
Friday, September 27, 2024

AFRICA, THE PANDEMIC AND THE GLOBAL HEALTHCARE CAPACITY



DISPROPORTIONATE BURDEN OF POVERTY

Figure 2: Share of global poor living below the international poverty line, %



Source: [World Bank Group, Poverty and Inequality Platform \(PIP\)](#) • “Rest of the World”

DISPROPORTIONATE BURDEN OF DISEASES

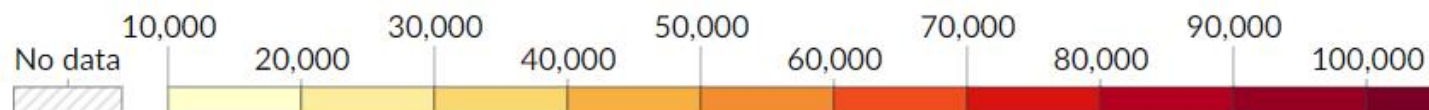
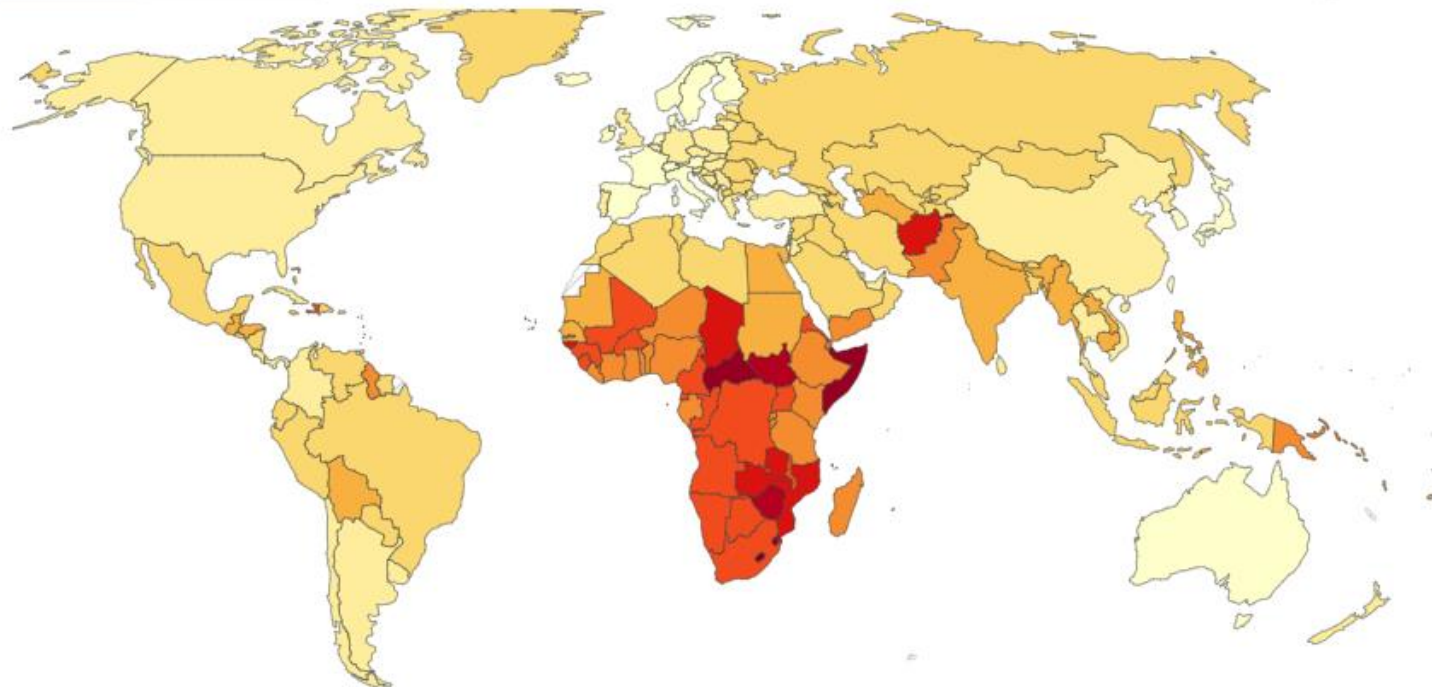
Burden of disease, 2021

Our World
in Data

Disability-Adjusted Life Years (DALYs) per 100,000 individuals from all causes. DALYs measure the total burden of disease - both from years of life lost due to premature death and years lived with a disability. One DALY equals one lost year of healthy life.

Table Map Chart

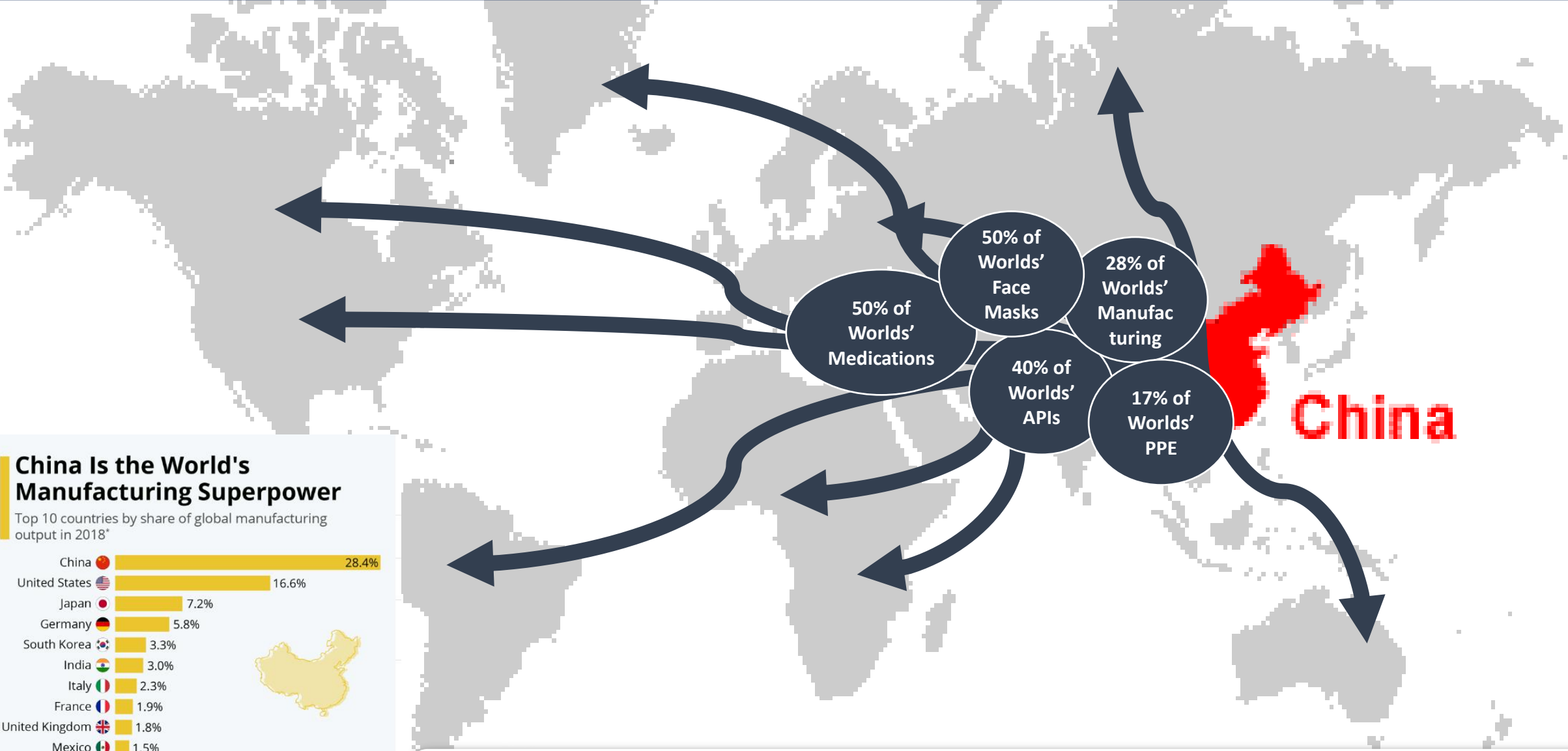
World



1990

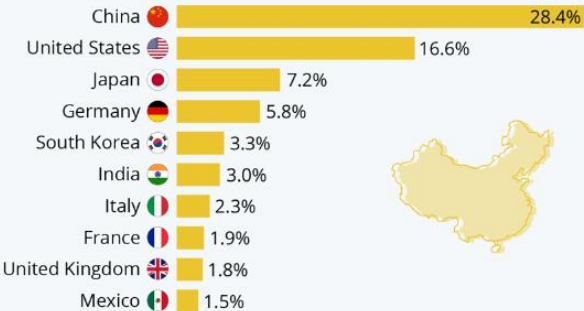
2021

OVERDEPENDENCE ON CHINA



China Is the World's Manufacturing Superpower

Top 10 countries by share of global manufacturing output in 2018*



* output measured on a value-added basis in current U.S. dollars
Source: United Nations Statistics Division

China has been the “**World’s Factory**” for too long

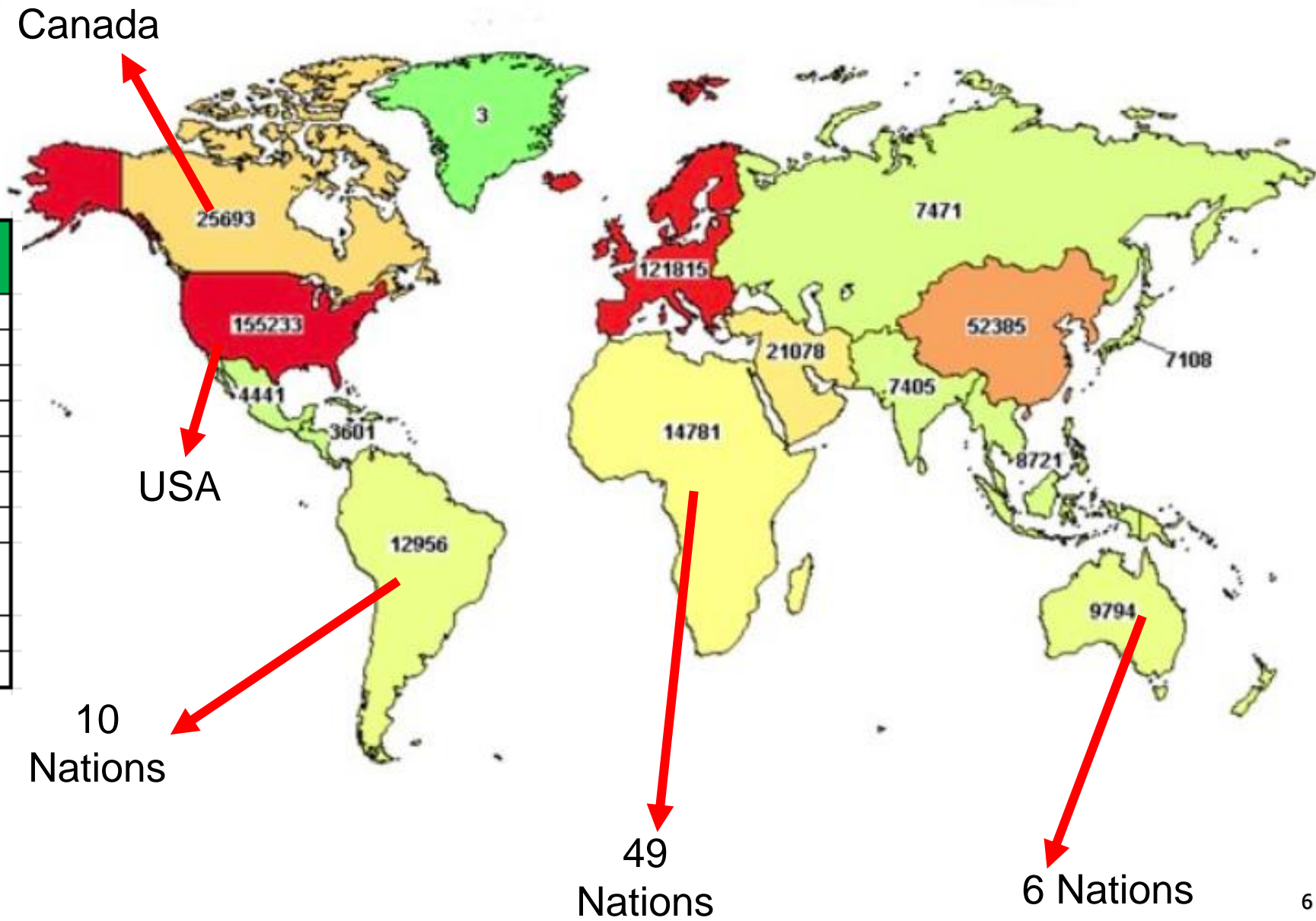
RISE IN NATIONALISM

Control of Pharmaceutical & Medical Supplies was Weaponized



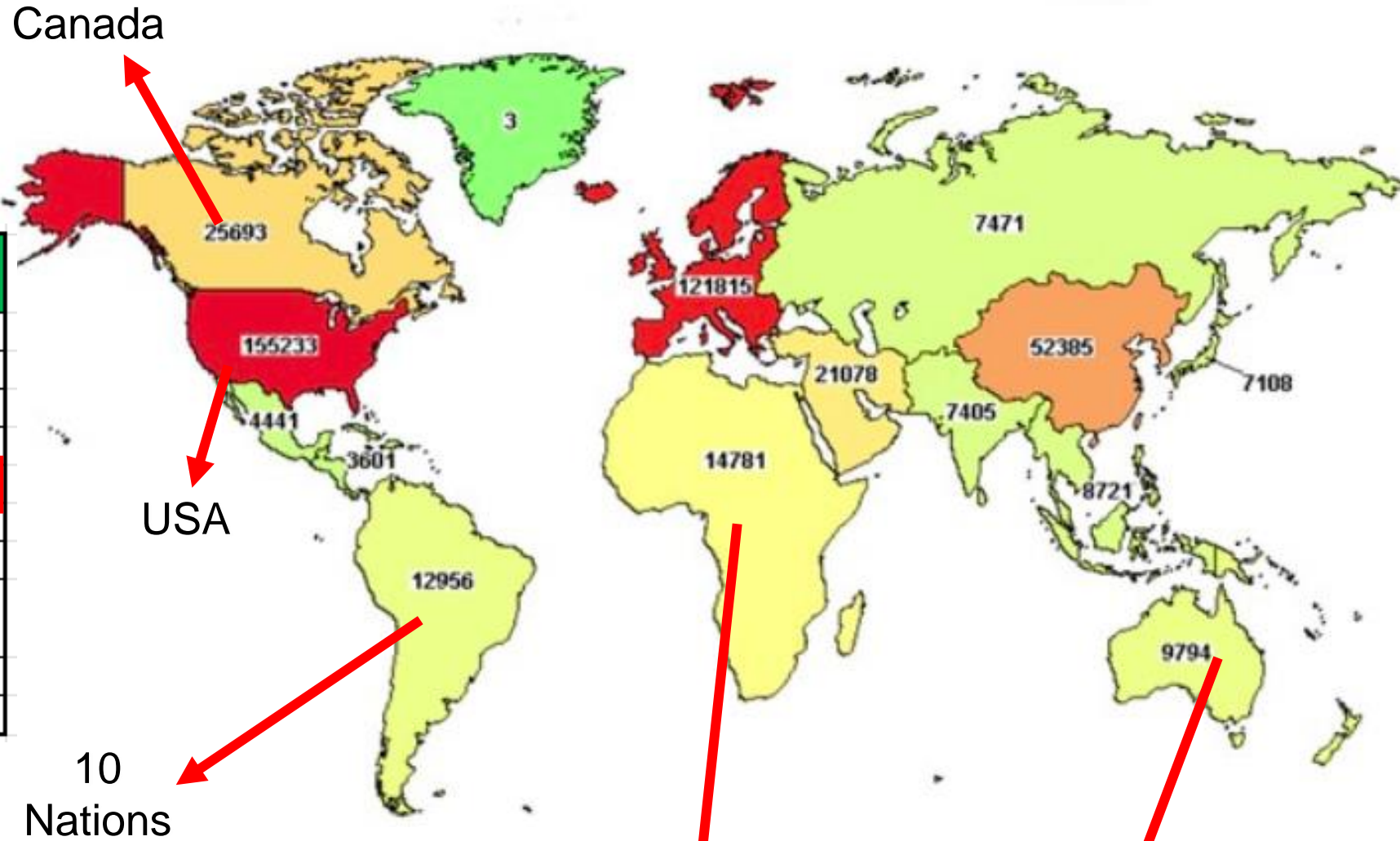
UNDERPERFORMING IN CLINICAL TRIAL ACTIVITIES

Region	# of Countries	Vol of CT	Share (%)
North America	2	172,857	40%
Europe	34	121,815	28%
Asia	24	68,511	15%
Middle East	14	21,078	5%
Africa	49	14,781	3%
South America	13	12,956	3%
Pacifica	15	9,794	2%
Russia and Eastern Europe	11	7,471	2%
Central America	12	3,601	1%
	174	432,864	100%



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NOTE: Africa – **28%** of Countries represented
But only **3%** of active CT globally

WE HAVE NO VOICE

S&E publications in all fields for 15 largest producing regions, countries, or economies: 2012 and 2022

(Number and percent)

Rank	Region, country, or economy	2012	2022	2022 world total (%)
na	World	2,105,157	3,344,037	na
1	China	329,067	898,949	26.88
2	United States	430,164	457,335	13.68
3	India	78,135	207,390	6.20
4	Germany	105,639	113,976	3.41
5	United Kingdom	98,685	105,584	3.16
6	Japan	109,040	103,723	3.10
7	Italy	64,131	90,586	2.71
8	Russia	36,532	84,252	2.52
9	South Korea	56,101	76,936	2.30
10	Canada	59,762	69,052	2.06
11	Spain	54,680	67,100	2.01
12	Brazil	48,166	67,031	2.00
13	France	72,431	65,888	1.97
14	Australia	46,728	62,305	1.86
15	Iran	31,462	60,940	1.82

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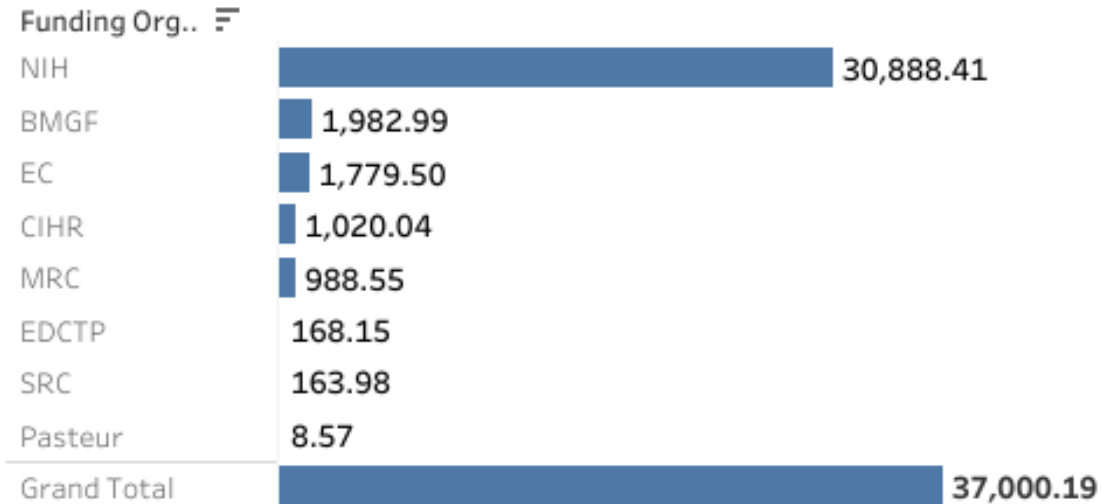
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NOTE: **China** – Overtook the **USA** to take the top spot between 2012 and 2022

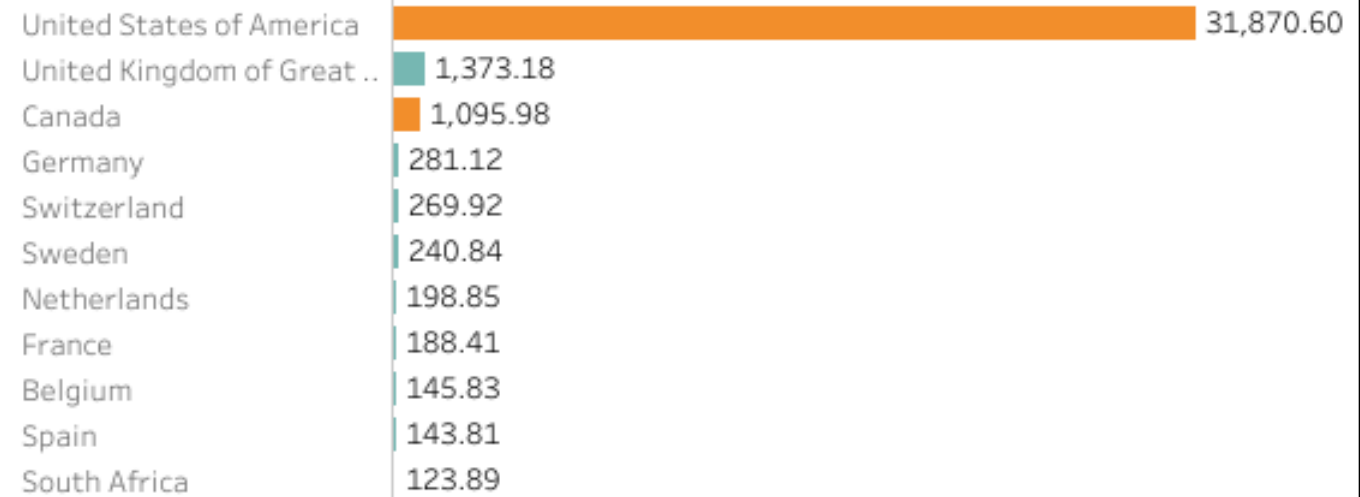
India leapfrogged over **Japan**, **Germany** and the **UK** to the 3rd position globally

TO WHOM MUCH IS GIVEN, MORE IS GIVEN

A. Annual grant amount by funder



E. Annual grant amount by recipient's country or territory



NIH-National Institute of health



BMGF – Bill & Melinda Gates Foundation



EC – European Commission



CIHR – Canadian Institute of Health Research



MRC – Medical research Council



EDCTP – European & Developing Countries Clinical Trials Partnership



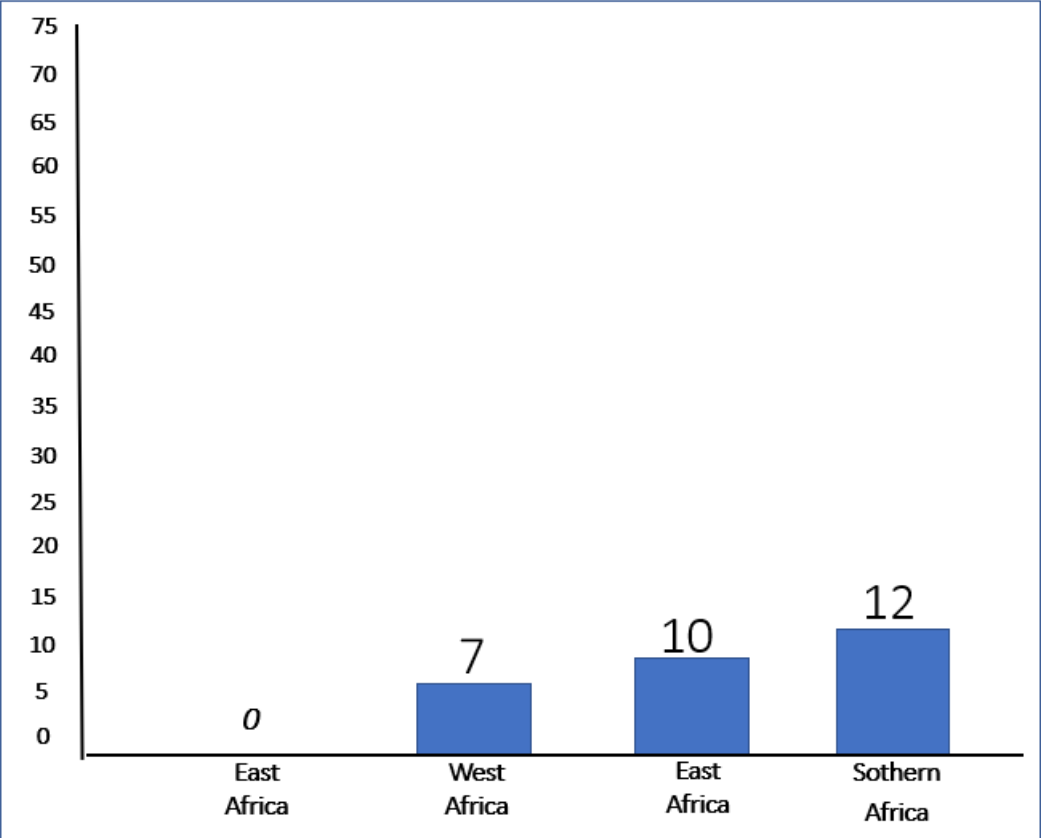
SRC – Semiconductor Research Corporation



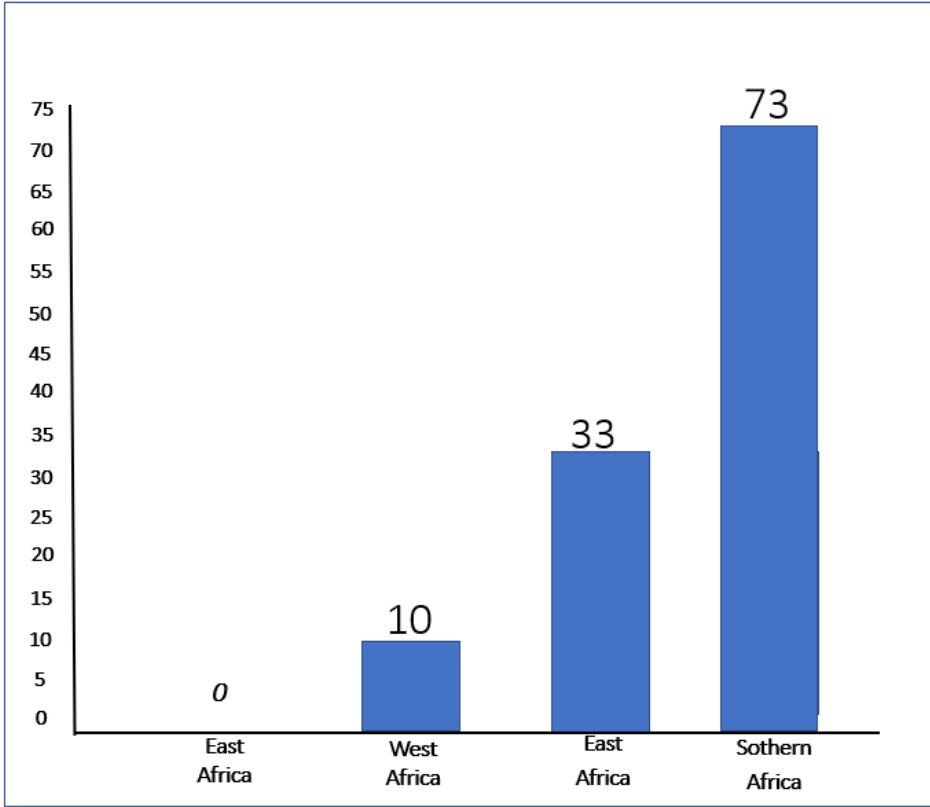
Pasteur – Pasteur Network

UNDERPERFORMING IN ATTRACTING GLOBAL RESEARCH FUNDING

NIH RESEARCH PROJECT AWARDS



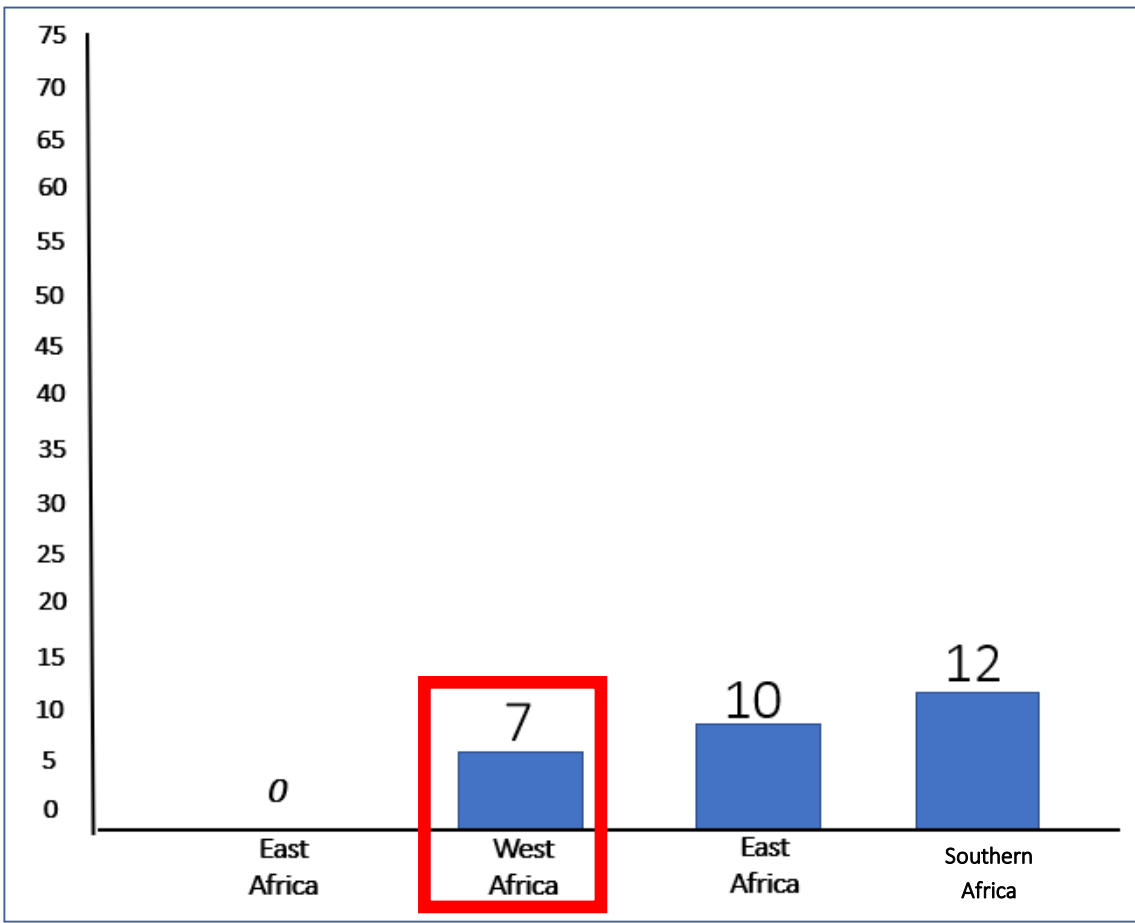
2005



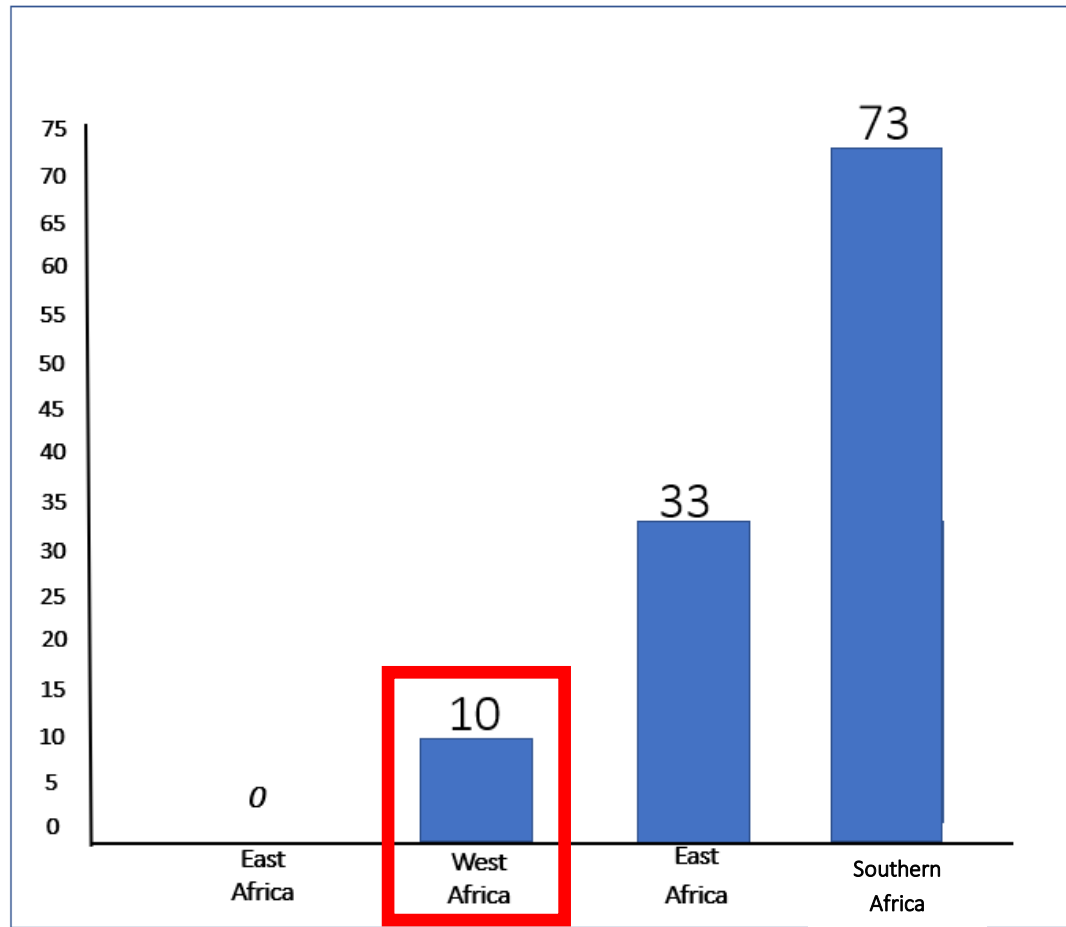
2015

UNDERPERFORMING IN ATTRACTING GLOBAL RESEARCH FUNDING

NIH RESEARCH PROJECT AWARDS



2005

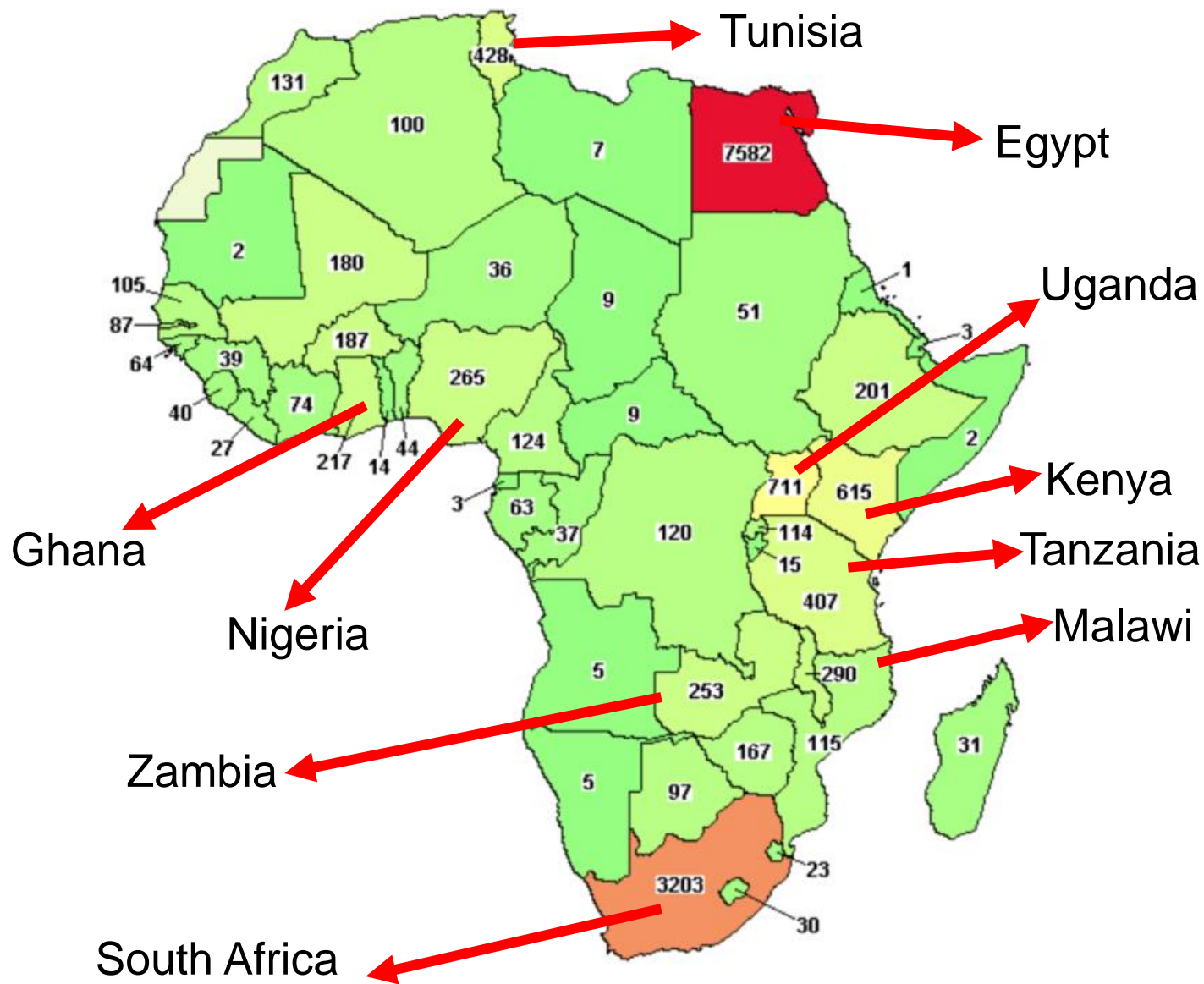


2015

WE ARE LAGGING BEHIND IN HEALTH RESEARCH FUNDING

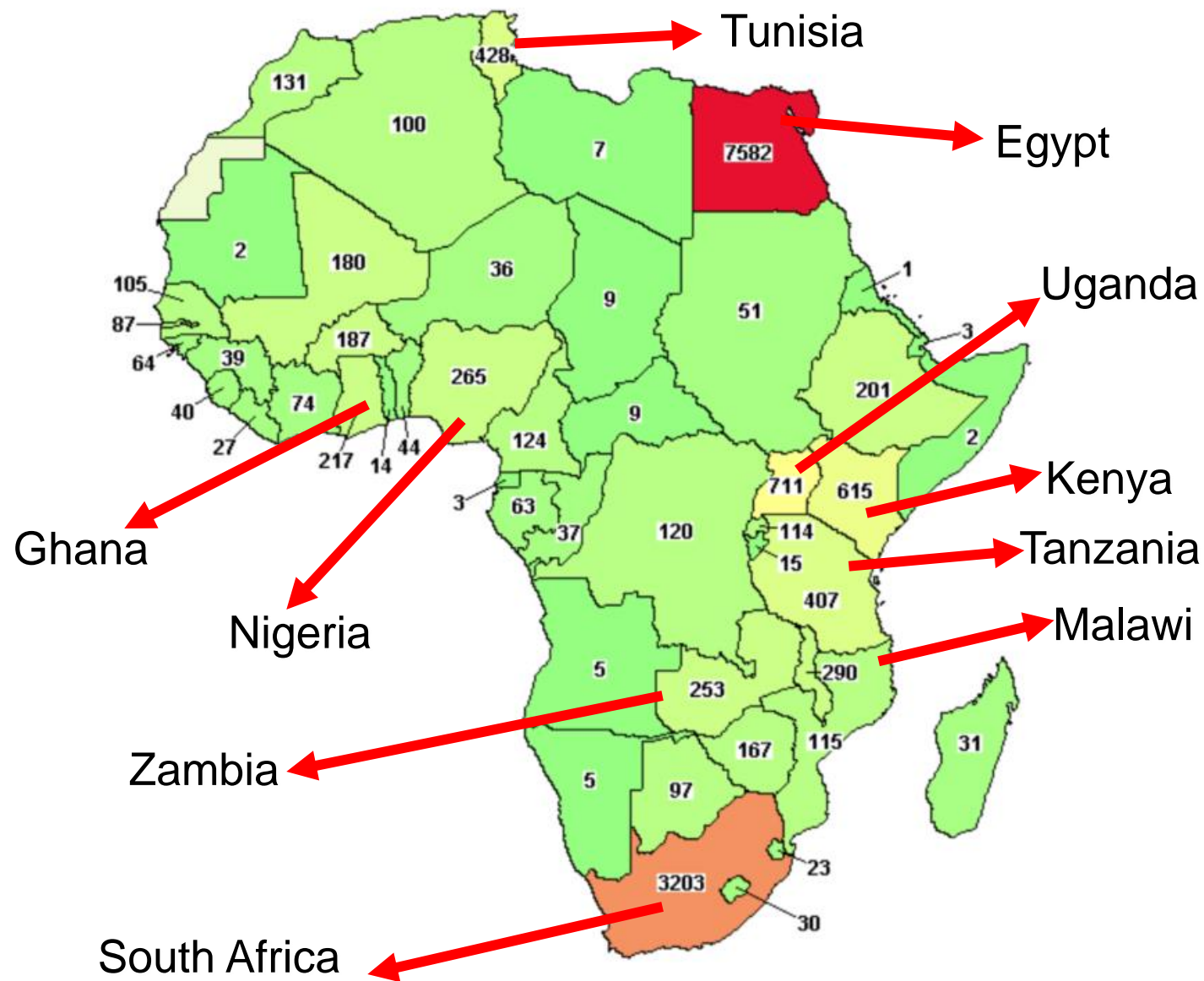
UNDERPERFORMING IN CLINICAL TRIAL ACTIVITIES

1	Egypt 7,582
2	South Africa 3,203
3	Uganda 711
4	Kenya 615
5	Tunisia 428
6	Tanzania 407
7	Malawi 290
8	Nigeria 265
9	Zambia 253
10	Ghana 217



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SO WHAT WAS THE STATE OF THE WORLD AT THE TIME THE PANDEMIC BROKE?



Dismantle Silos

Encourage

**International
Cooperation**

**POST-COVID
LESSONS**

**Global
Solidarity**

Collaborate

**Decentralize
Supply Vote**

Dialogue

Join forces

**Technology
Transfer**

Engage

NATIONAL GOVERNMENTS?



WHO WILL BELL THE CAT?



WORLD HEALTH ORGANIZATION?

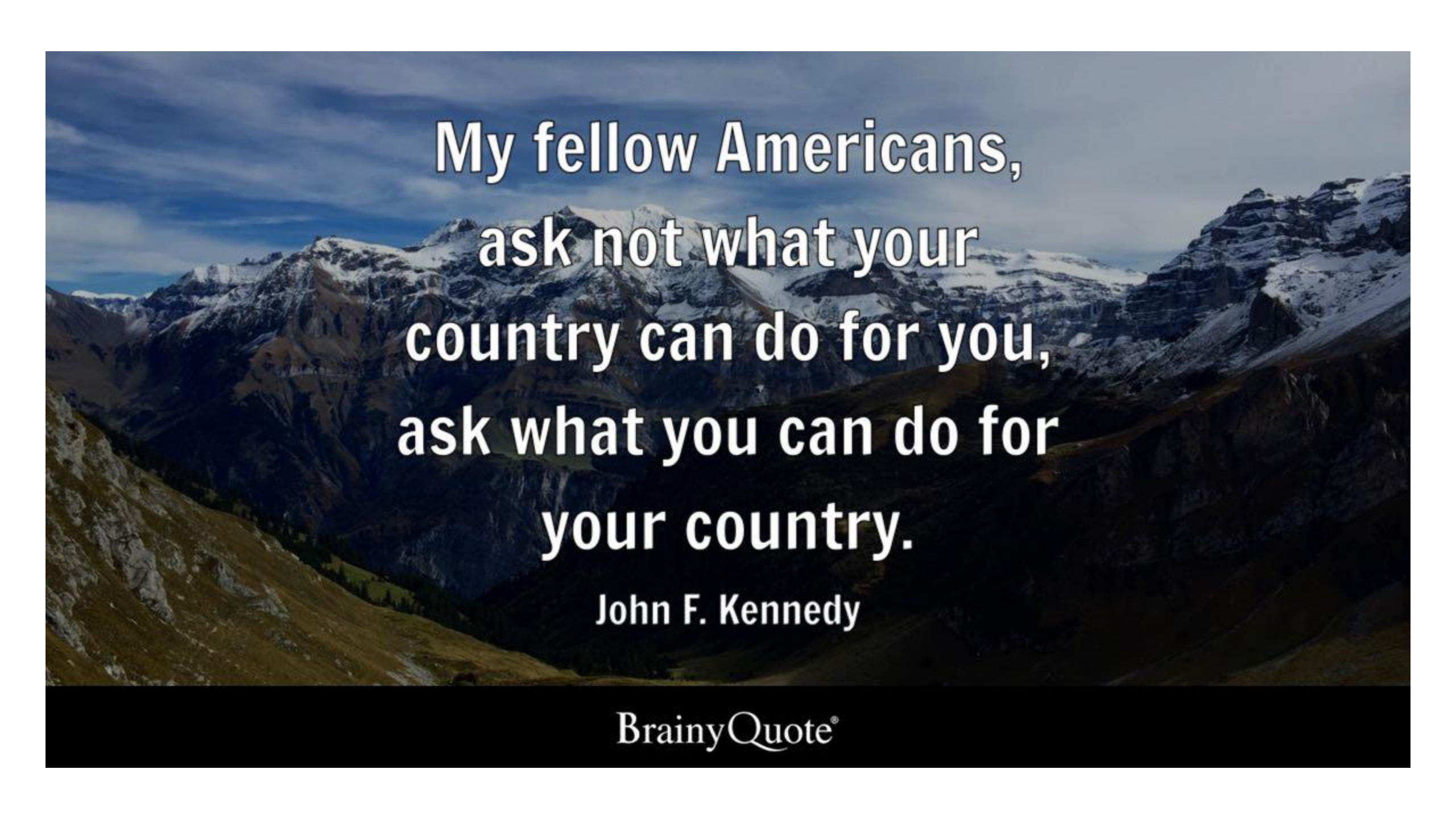


UNITED NATIONS?



MULTILATERAL INSTITUTIONS?





**My fellow Americans,
ask not what your
country can do for you,
ask what you can do for
your country.**

John F. Kennedy

BrainyQuote®

WHAT CAN A NON-PROFIT DO?



EVERYONE DO SOMETHING

RIO DE JANEIRO DECLARATION

HEALTH SOVEREIGNTY IN INNOVATION AND DEVELOPMENT OF DIAGNOSTICS, VACCINES AND MEDICATIONS FOR ADDRESSING PUBLIC HEALTH EMERGENCY OF INTERNATIONAL CONCERN (PHEIC) IN THE GLOBAL SOUTH

Coalition for Epidemic Preparedness Innovations (CEPI), the
Oswaldo Cruz Foundation, and the Brazilian Ministry of Health

Second: Funders, regional and multilateral organizations, cooperation agencies, public, private and not for-profit research organizations, civil society and other international community stakeholders to prioritize the development of cooperation projects and equitable access policies and funding conditions that focus on end-to-end research and development, transparency, knowledge-sharing, and technology transfer, and using and increasing production capacity for vaccines, treatments, diagnostics, and other strategic supplies in Global South countries to prevent inequities in access during a Public Health Emergency of International Concern.



THE NAPPSA STORY AND HER OPPORTUNITY FOR GLOBAL LEADERSHIP



Membership

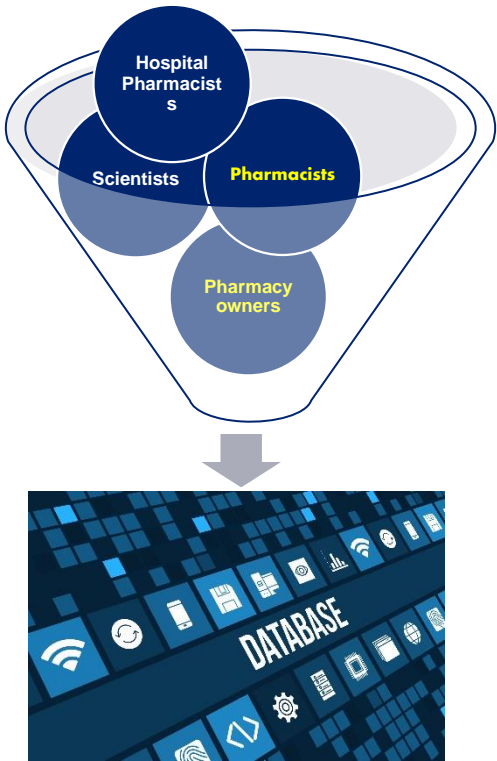
Mission
To promote healthy living and disease prevention through effective pharmaceutical care and facilitation of efficient healthcare delivery systems and strategies in America, Nigeria, Africa and the rest of the world.

- Umbrella organization of:
 - ✓ Nigerian pharmacists
 - ✓ Pharmaceutical scientists
 - ✓ Pharmaceutical Physicians
 - ✓ Allied scientists and
 - ✓ The academia
- Over 7,000 Nigerian pharmacists and pharmaceutical scientists working in the United States



Key Accomplishments

Database of Nigerian Pharmacy Professionals in the USA



Critical Relationships & Partnerships



Critical relationships creates seamless synergy for delivering on NAPPSA's mission:

- FMoH
- NAFDAC
- PCN
- PSN
- ANPA
- NCDC

Pharmacy Education Fostering & Advocacy



- ✓ Workshops for Deans of Nigerian Pharmacy Schools
- ✓ Support for Pharmacy Education curriculum development in Nigeria
- ✓ Vector for progressive change in Pharmacy Practice, Processes and principles
- ✓ Advocacy for collaborative Practice in Nigeria

Key Accomplishments

Reciprocity



- ✓ Successfully advocated for and helped negotiate a reasonable terms for the US Pharmacy Licensure Reciprocity with PCN
- ✓ Coordinate online registration for Licensure Reciprocity

PharmD Program



- ✓ Facilitating the implementation of the PharmD program
- ✓ Actively involved in the development of PharmD Curriculum in Nigeria

Strong B2B Network



Creation of the B2B Business owners Platform:

- ✓ Business Networking Platform
- ✓ Facilitate synergy and scale advantages in deal negotiations
- ✓ Maximize the impact of the members voice in the retail sector
- ✓ Peer Mentorship

NAPPSA Scholarship



2020 NAPPSA-Pfizer Scholarship

RECIPIENT!



The NAPPSA scholarship will serve as a catalyst for me to achieve my aspirations. I will work to encourage more pharmacy students to join NAPPSA to help them continue their growth and professional development.

Uzo Abajue
Pharm.D Candidate
Texas Southern University



\$2500



2020 NAPPSA-Auburn Scholarship

RECIPIENT!



NAPPSA's generosity has inspired me to help others and give back to the community. I hope one day I will be able to help students achieve their goals just as NAPPSA has helped me.

Victoria Oshunkenta
COM-GA / Pharm.D Candidate
Class of 2021
Student Ambassador



\$2500



2020 NAPPSA-Auburn Scholarship

RECIPIENT!



The scholarship will ease the financial burden I bear as a student and enhance my ability to achieve my goals. My interests and goals align with the goal of NAPPSA and so I will help foster NAPPSA's vision and objectives.

Catherine Ladipo
University of Maryland
PhD Candidate
Pharmaceutical Science



\$2500



2020 NAPPSA-Pfizer Scholarship

RECIPIENT!



The NAPPSA scholarship would help me get a new laptop for my research, pay student fees and health insurance for the Fall semester

Adeoluwana Adeluolu
MSc Candidate
Marshall University
School of Pharmacy



\$2500



Nigeria Association of Pharmacists & Pharmaceutical Scientists in the Americas

2021 NAPPSA Scholarship Awards

Purpose:

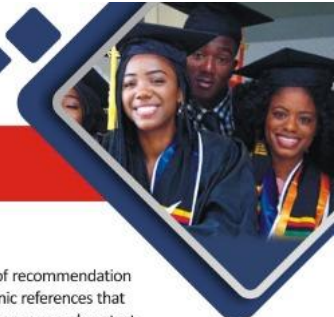
Nigeria Association of Pharmacists and Pharmaceutical Scientists in the Americas (NAPPSA) is pleased to announce competition for this year's scholarship awards. The NAPPSA Scholarship Fund awards scholarships to pharmacy or pharmaceutical sciences students based on demonstrated academic achievement, financial need, and strong interest in pursuing future career path in their current disciplines.

Eligibility Criteria:

- ✓ Full-time enrollment in a Pharm. D. or graduate program in Pharmaceutical Sciences at a fully accredited university in the United States.
- ✓ Must be a student in good academic standing as defined by the institution.
- ✓ Must be an active student member of NAPPSA and has paid NAPPSA annual dues by the application deadline.
- ✓ Students must submit the following (checklist):

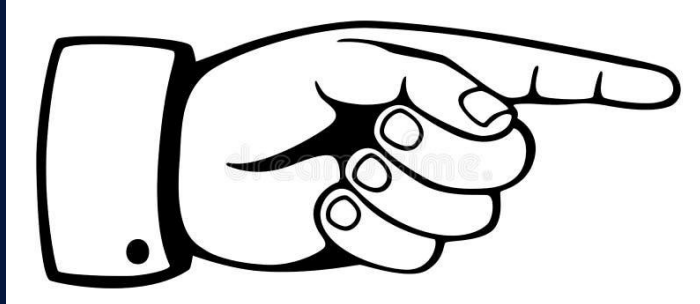
- ❑ Two letters of recommendation from academic references that include their names and contact information (email and telephone). Referees should email letters to scholarship@nappsa.org
- ❑ Current academic transcript since enrollment into a Pharm.D. or pharmaceutical sciences program. An unofficial transcript is acceptable provided it is printed from the institution's website or is a copy of the official transcript.
- ❑ Current and updated curriculum vitae that details history of education, employment, volunteer or community service etc.

Consideration will be given to academic achievement, financial need, involvement in NAPPSA, and community service.



About the Beneficiaries

- ✓ Young minority students who need support with the regular education expenses such as books and supplies.
- ✓ Must be outstanding and deserving students who will pursue careers in the pharmaceutical industry, regulatory agencies and academia.
- ✓ Must be enrolled as full time students in good standing in schools in USA.



MILESTONE MOMENTUM

NAPPSA 2.0



2020
2030

Ten-Year Strategic Plan

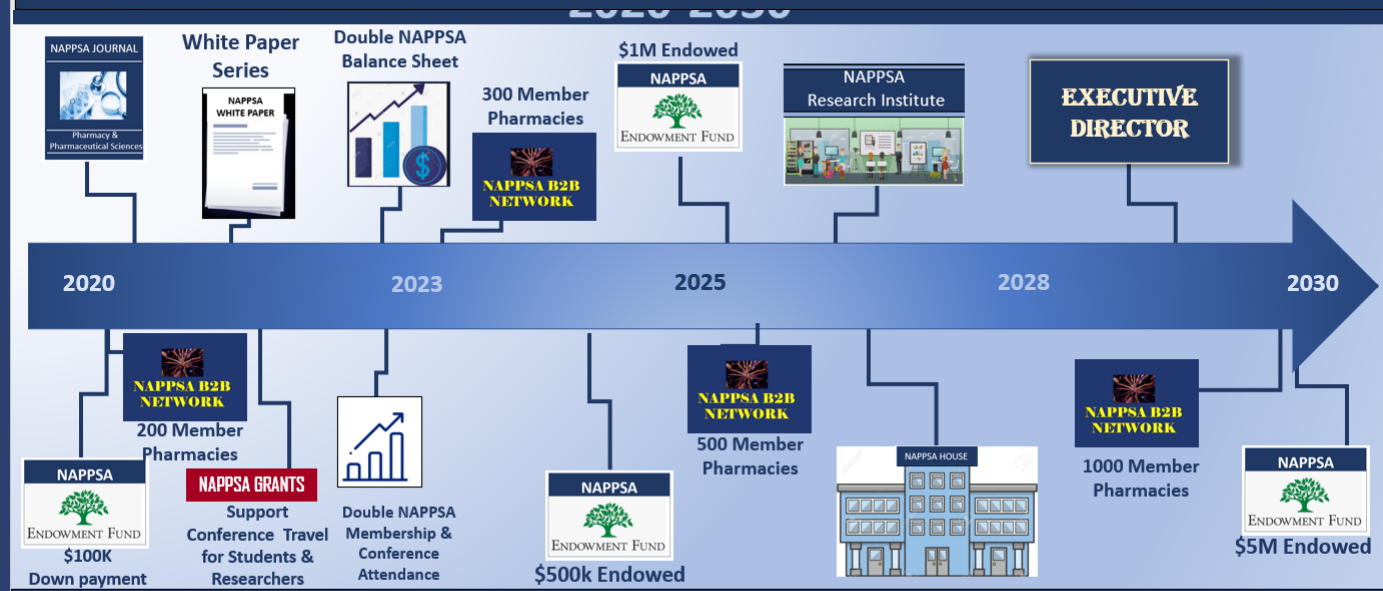
2020 - 2030

Positioning NAPPSA for Sustained Success

- 2020
- 2021
- 2022
- 2023
- 2024
- 2025
- 2026
- 2027
- 2028
- 2029
- 2030

Launch of the NAPPSA Strategy Plan

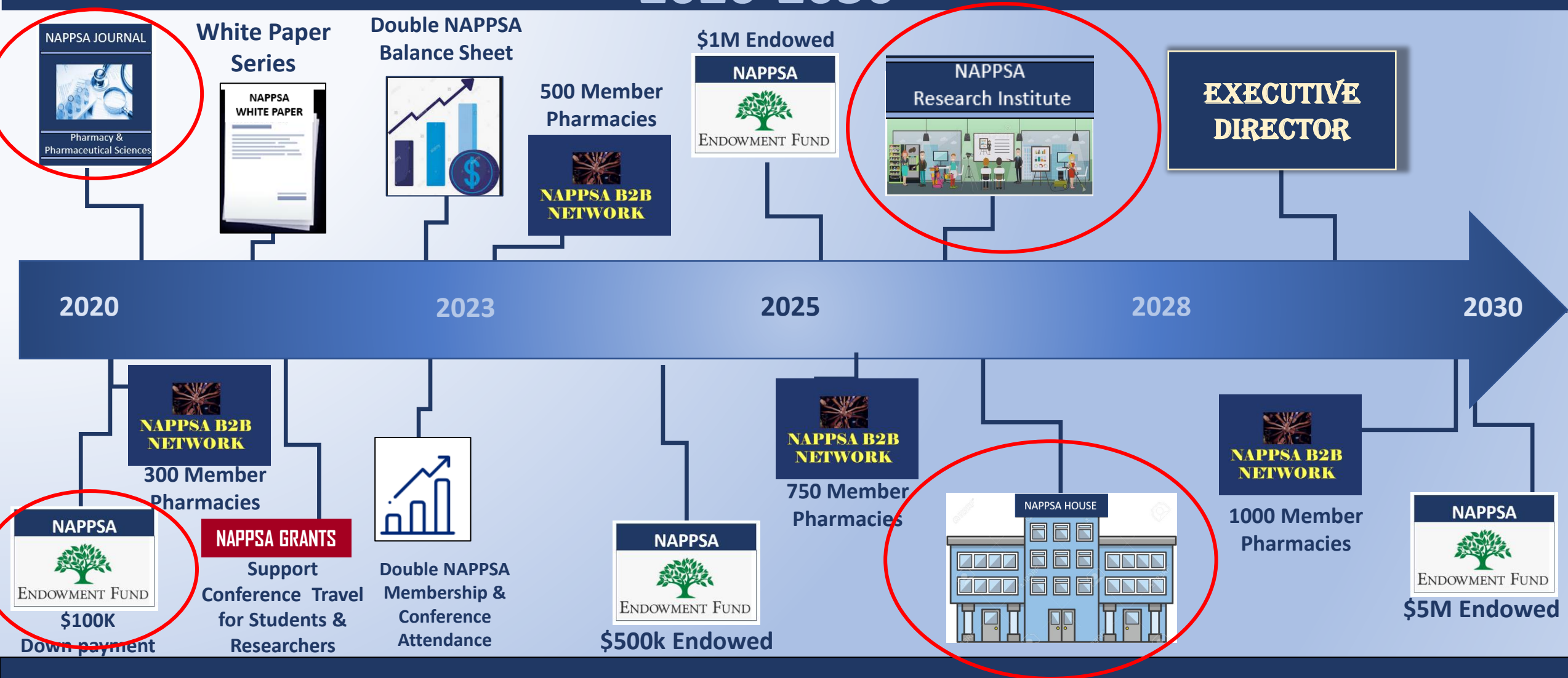
Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas (NAPPSA) Inc.



Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas (NAPPSA) Inc.

NAPPSA TEN YEAR STRATEGIC PLAN: OVERVIEW

2020-2030



Nigerian Association of Pharmacists and Pharmaceutical Scientists in the Americas (NAPPSA) Inc.

Imagine Nation



2022



2020



2025



2026

Imagine Nation



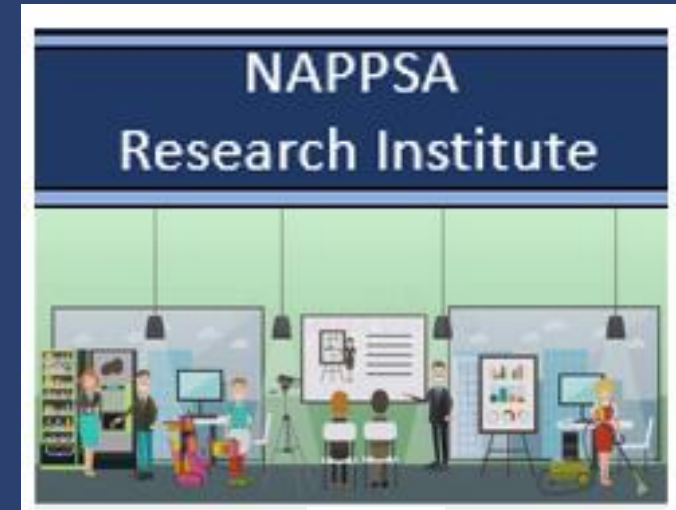
2022



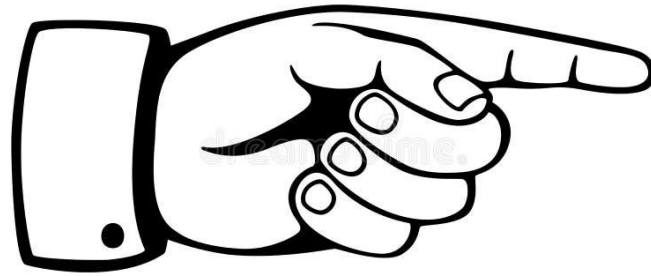
2020



2025



2026

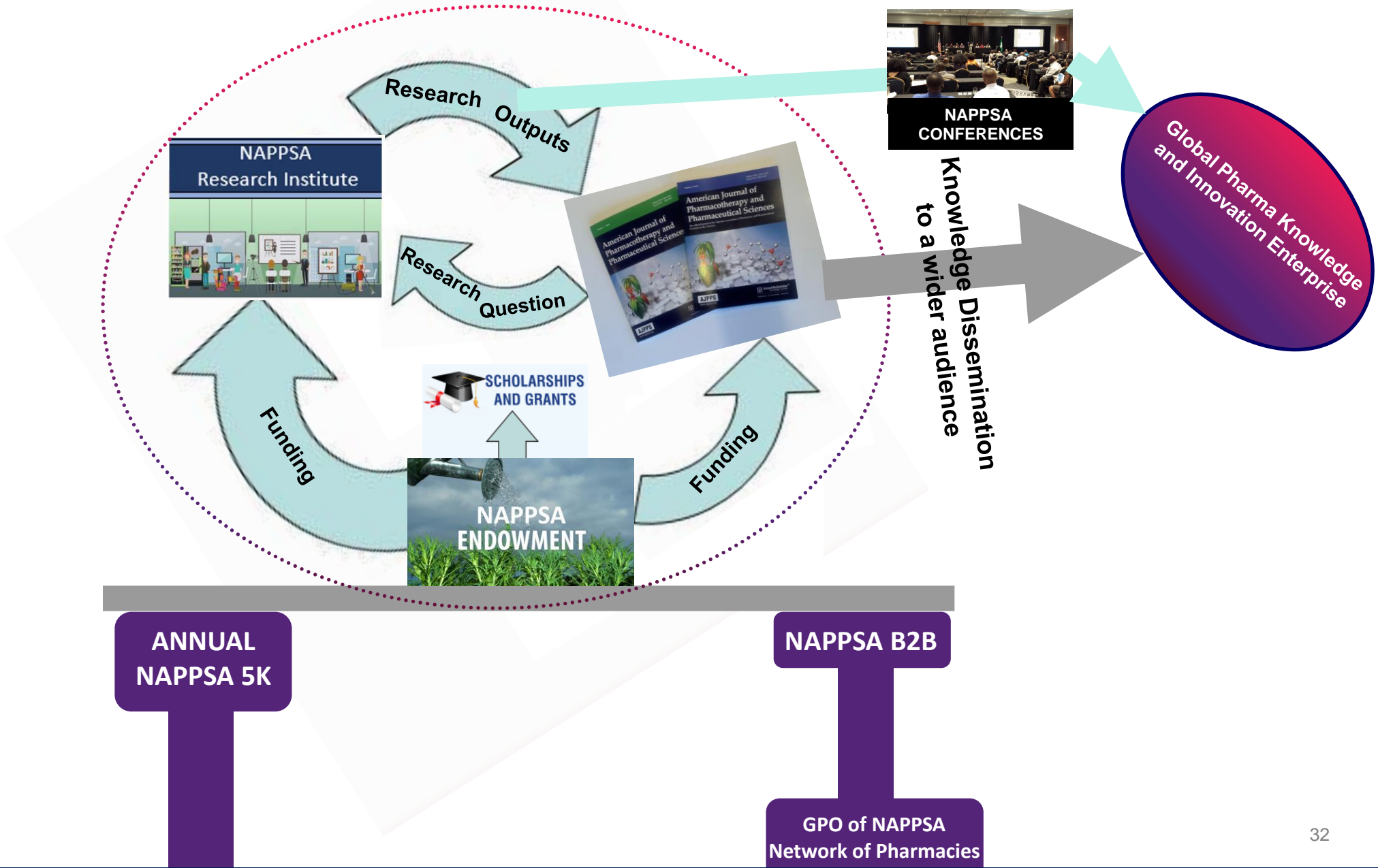


**BUILDING ON THE
MOMENTUM:**

A FORWARD-LOOKING VISION

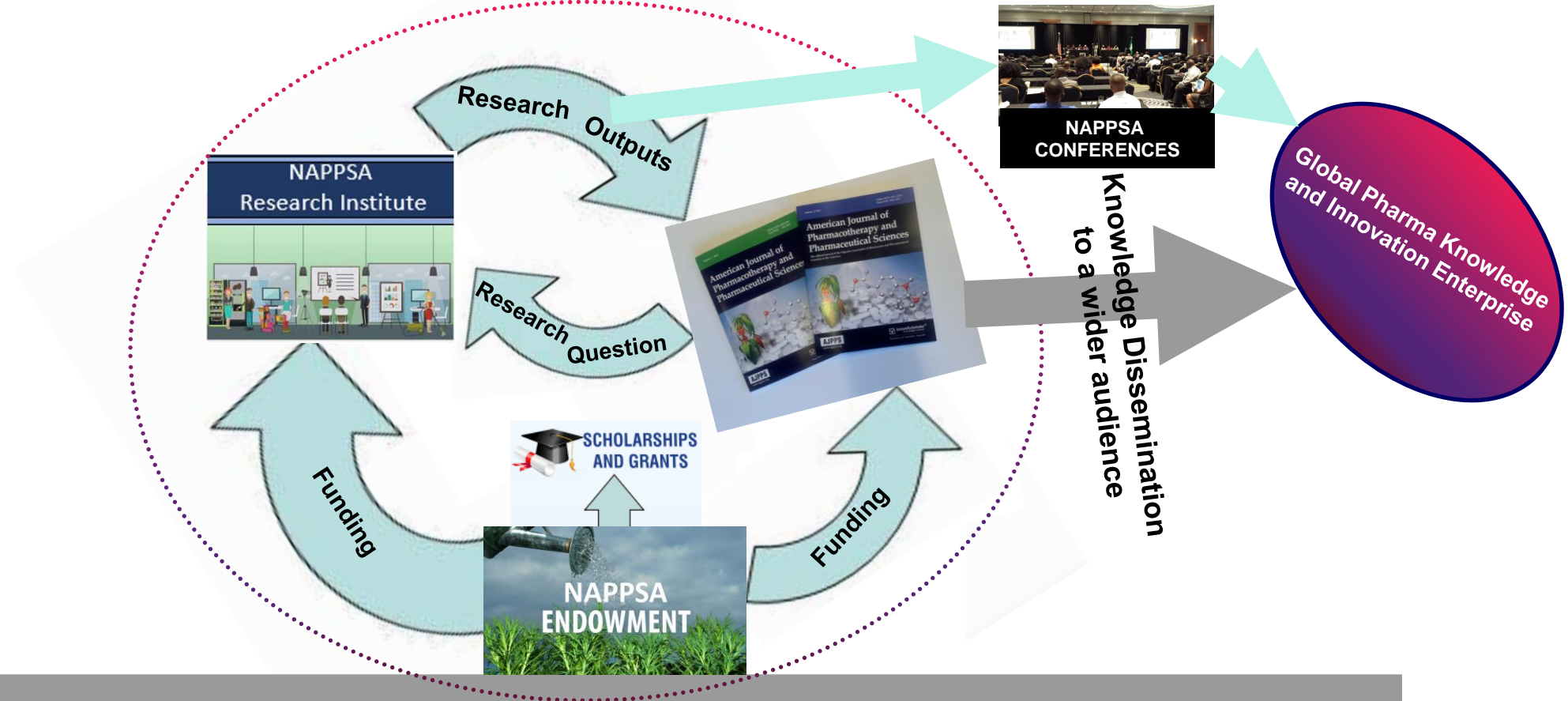
NAPPSA Knowledge Brokerage Matrix

FINANCING



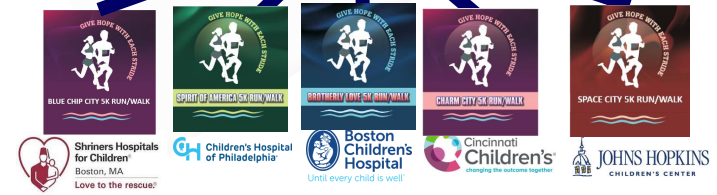
NAPPSA Knowledge Brokerage Matrix

FINANCING



ANNUAL NAPPSA 5K
Run for a Cause Individual 5Ks

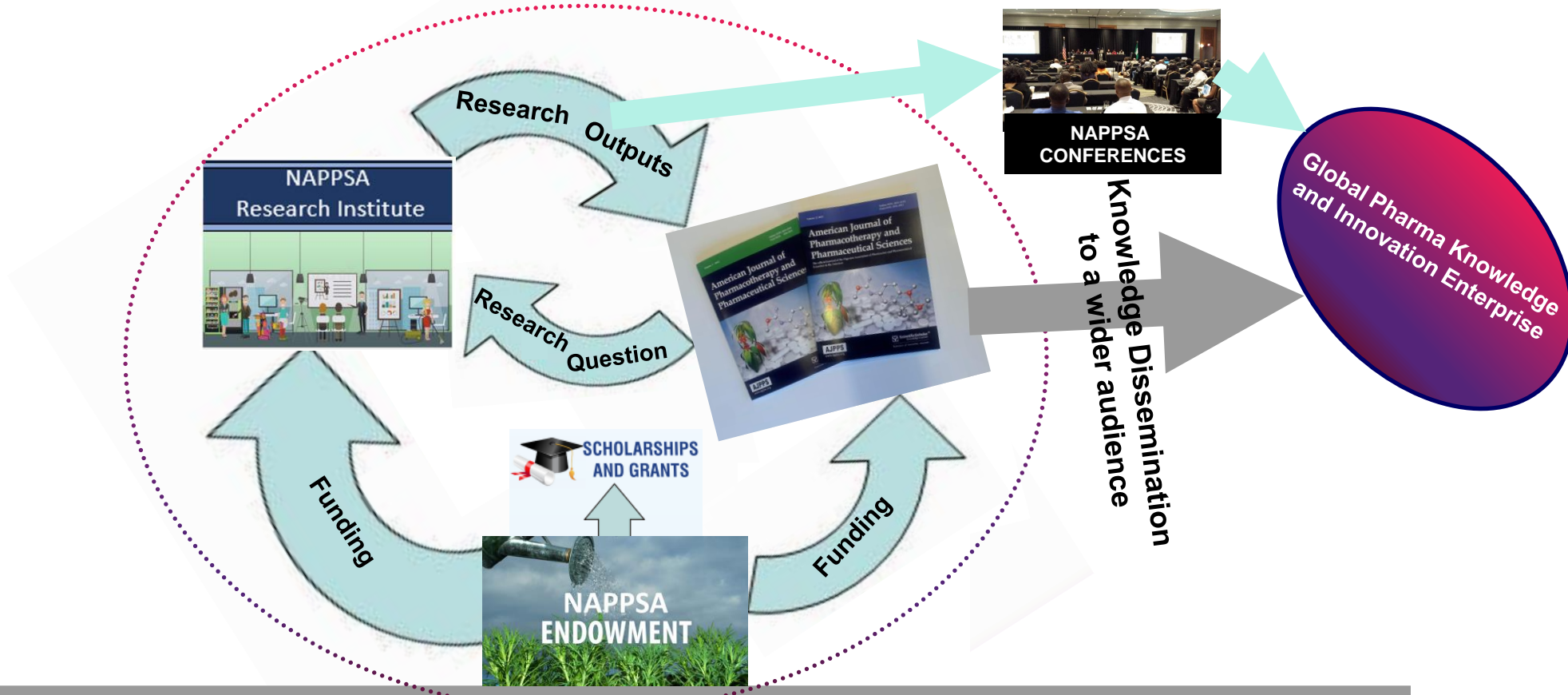
Sources of Funds for the **Partner Fundracers** NAPPSA Endowment



GRANTS
Gifts from Donor Partners

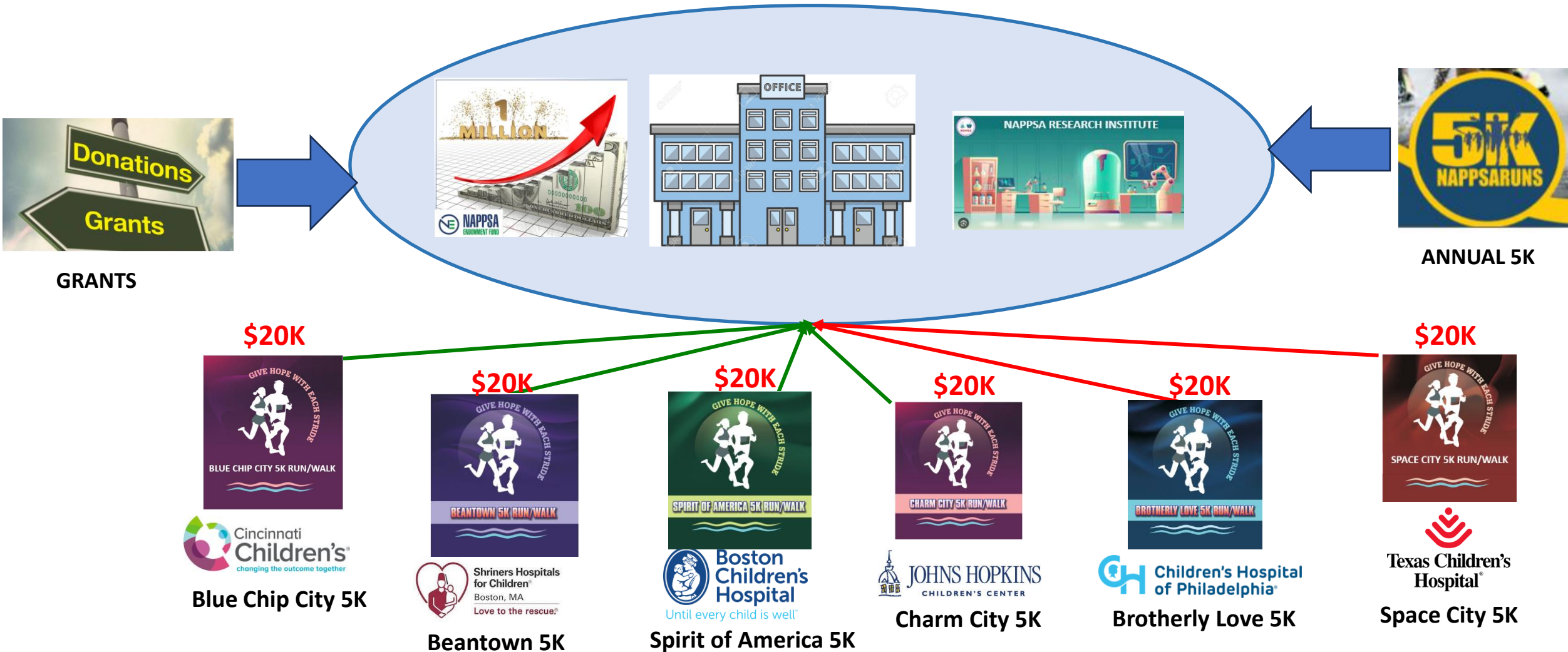
NAPPSA Knowledge Brokerage Matrix

FINANCING



IMAGINING THE FUTURE

FINANCING



Local Community Focused FundRacers

RECENT GRANTS BY THE FORD FOUNDATION

FINANCING

OTHER OPPORTUNITIES?

1. BMGF?
2. NIH?
3. Philadelphia Foundation?
4. Fogarty Foundation?

\$150,000

\$150,000

Michigan Public Health Institute

June 2024

Core support for the Center for Culturally Responsive Engagement to shift power to impacted communities and advance equity in philanthropy

\$200,000

\$200,000

Define American

August 2024

General support to empower diverse and nuanced storytelling about immigrant experiences across mediums and industries through research, partnerships and storyteller engagement

\$250,000

\$250,000

Partners in Health

September 2024

Core support for the Paul E. Farmer Scholarship Fund to support students attending the University of Global Health Equity in Rwanda

\$300,000

\$300,000

Black Equity Organisation

August 2024

General support to promote economic, legal social and political equity for Black communities in the United Kingdom to foster equal opportunity for progress and prosperity

\$1.6M

\$1,600,000

Black Emotional and Mental Health Collective BUILD

September 2024

General support to remove the barriers that Black people experience getting access to or staying connected with emotional health care and healing through education, training, advocacy, and creative arts, and core support for institutional strengthening

NAPPSA Knowledge Brokerage Matrix

NIGERIAN UNIVERSITIES

TCAM

NAFDAC

NIPRD

NIMR

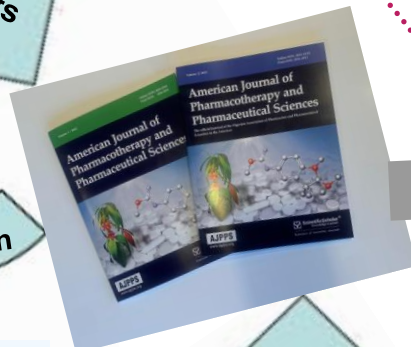
- Connect the Nigerian/Africa Research Networks to the global research enterprise
- Facilitate collaborations amongst Nigerian research institutions
- Serve as a conduit for accessing funding
- Provide Funding for specific Research questions (PhD research funding, etc)
- Attract matching funding from big funding agencies

External Collaborations



Research Outputs

Research Question



Knowledge Dissemination to a wider audience

Global Pharma Knowledge and Innovation Enterprise

Funding



Funding

ANNUAL NAPPSA 5K
Run for a Cause Individual 5Ks

Sources of Funds for the

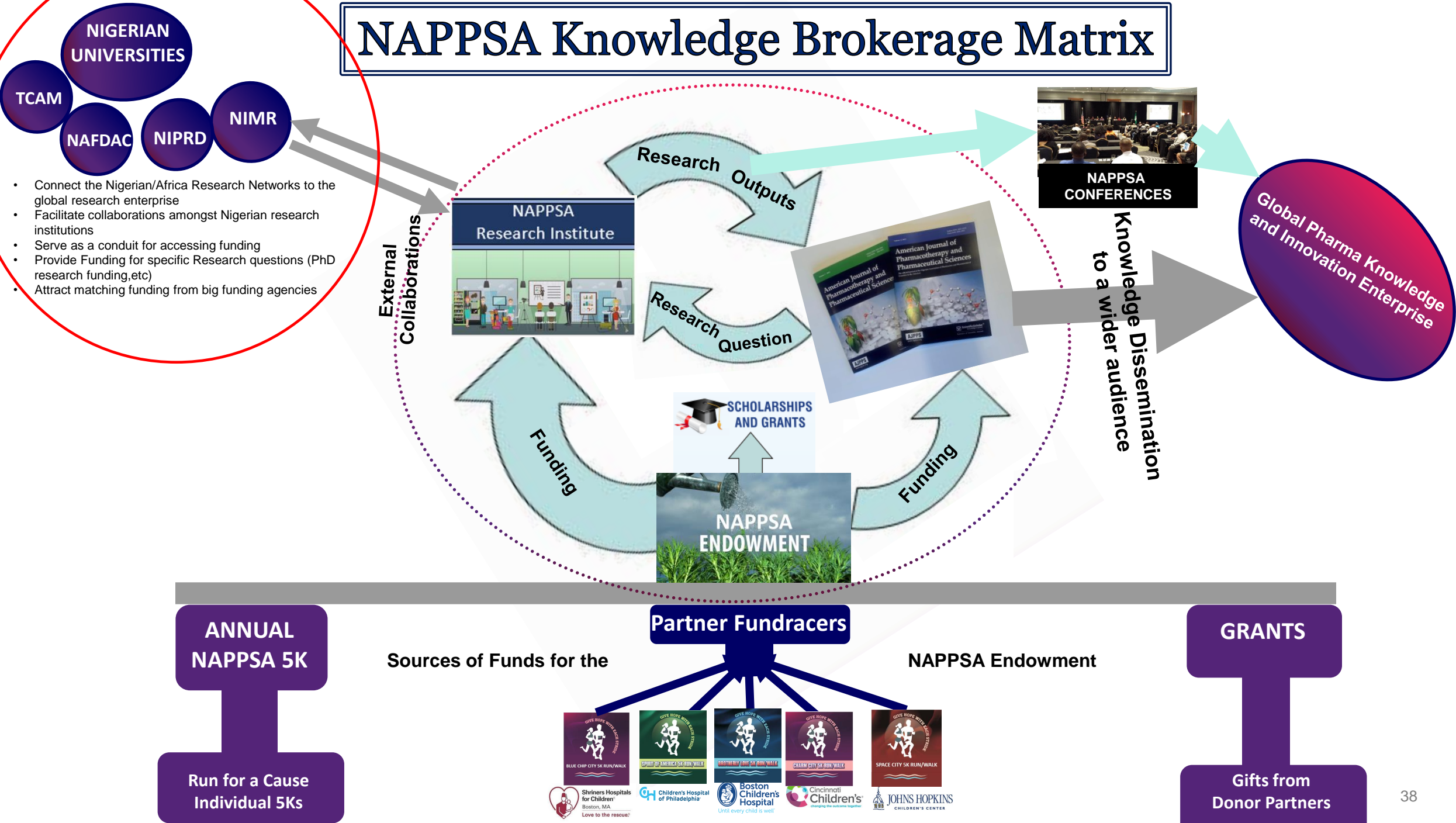
Partner Fundracers

NAPPSA Endowment

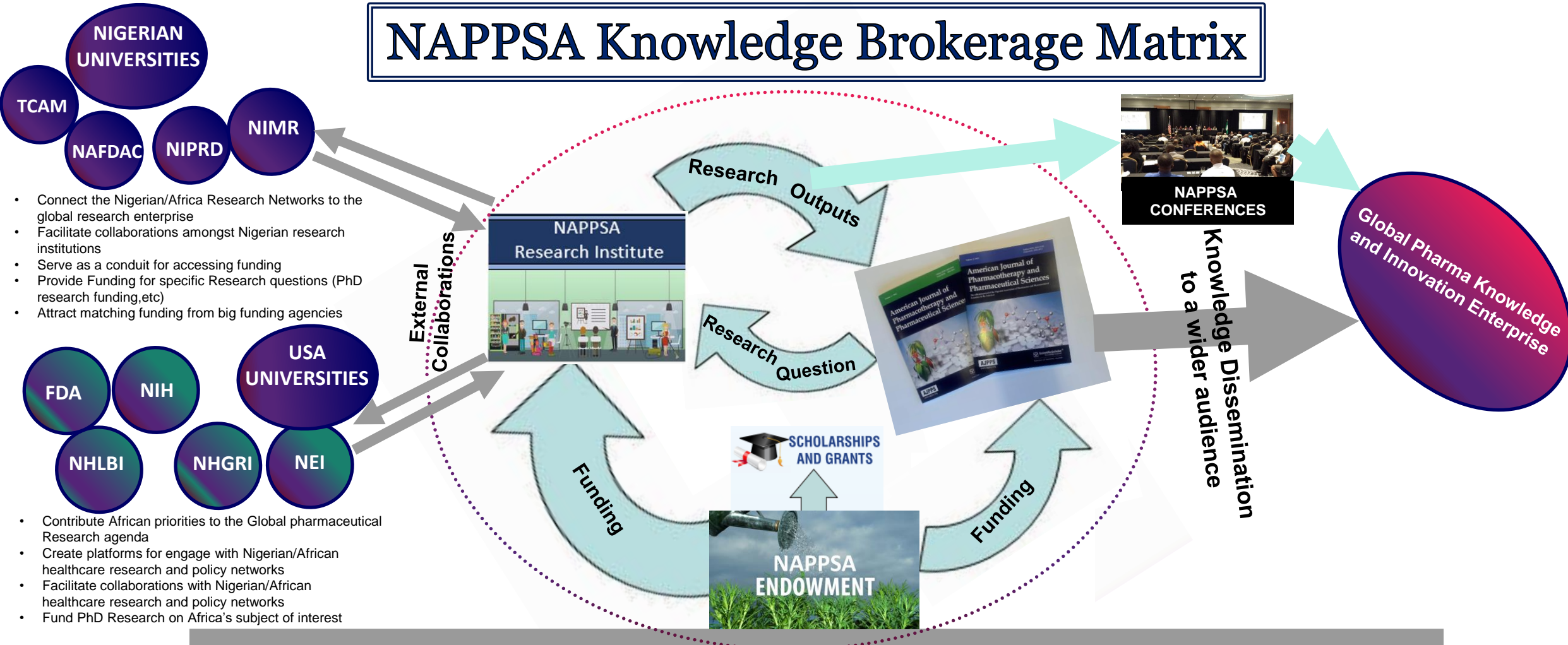
GRANTS
Gifts from Donor Partners



NAPPSA Knowledge Brokerage Matrix



NAPPSA Knowledge Brokerage Matrix

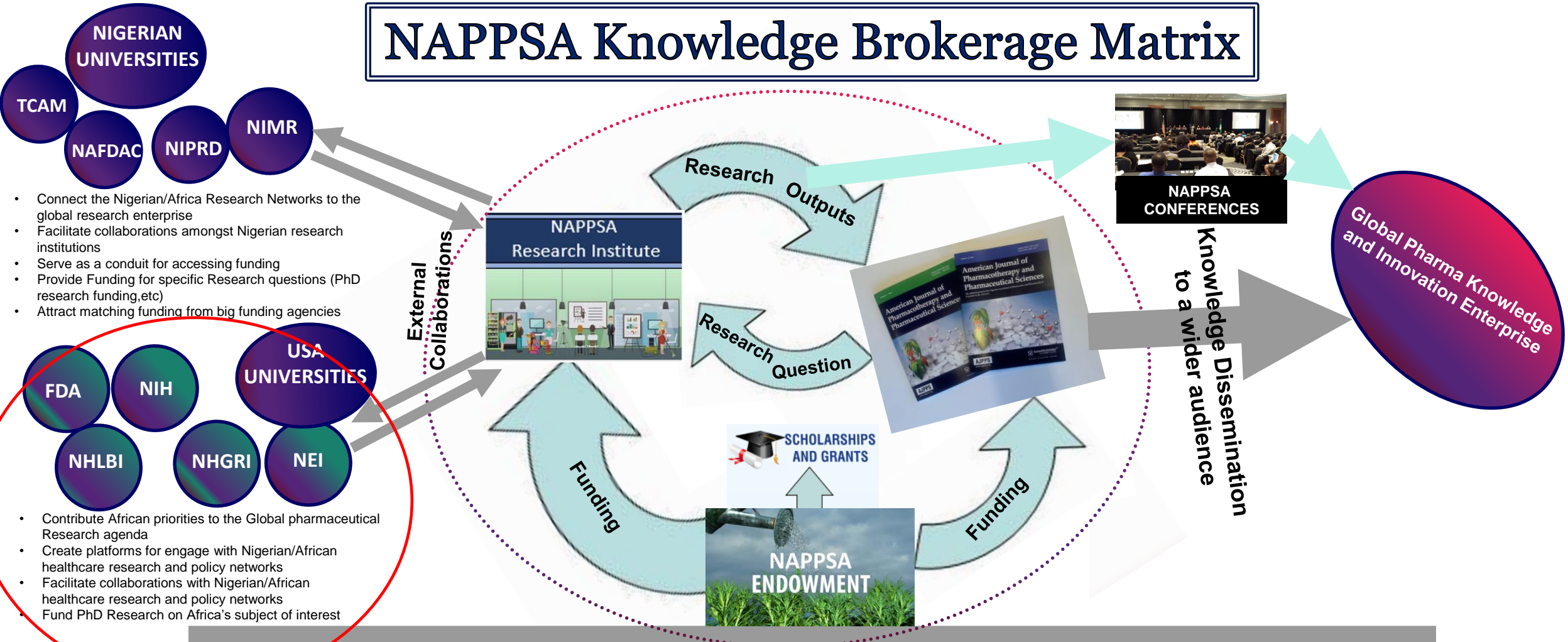


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- Serve as a conduit for accessing funding
- Provide Funding for specific Research questions (PhD research funding, etc)
- Attract matching funding from big funding agencies

- Contribute African priorities to the Global pharmaceutical Research agenda
- Create platforms for engage with Nigerian/African healthcare research and policy networks
- Facilitate collaborations with Nigerian/African healthcare research and policy networks
- Fund PhD Research on Africa's subject of interest



NAPPSA Knowledge Brokerage Matrix



ANNUAL NAPPSA 5K

Run for a Cause Individual 5Ks

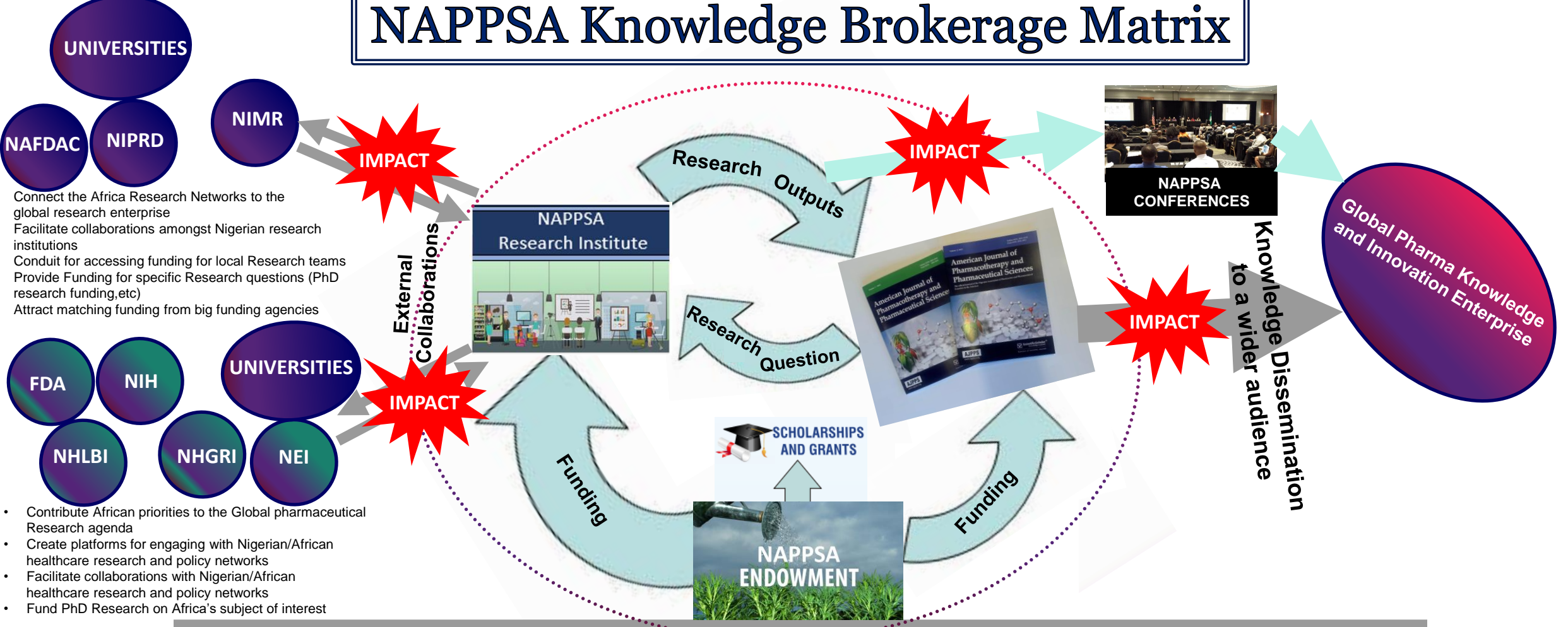
Sources of Funds for the **Partner Fundracers** **NAPPSA Endowment**



GRANTS

Donations from Donor Partners

NAPPSA Knowledge Brokerage Matrix



- Connect the Africa Research Networks to the global research enterprise
- Facilitate collaborations amongst Nigerian research institutions
- Conduit for accessing funding for local Research teams
- Provide Funding for specific Research questions (PhD research funding, etc)
- Attract matching funding from big funding agencies

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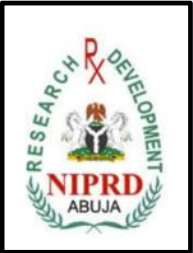


IMAGINING THE FUTURE

CATALYST

CATALYZING TRANSFORMATION

TECHNOLOGY TRANSFER



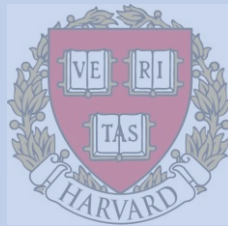
- Fund a Pilot Gap Analysis Project (\$50K)
- Identify Gaps
- Obtain Grants from funding agencies to fill the gap (\$1M? \$5M? \$20M)

BUILDING RESEARCH CAPACITY

CREATING NEW LEADERS

FUNDING PHDs

- Topics of Relevance to our Community

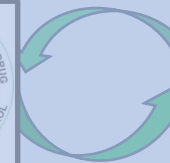
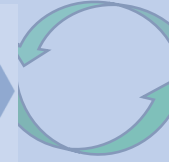


KNOWLEDGE LEADERSHIP

RESEARCH & DEVELOPMENT

COOPERATION PROJECTS

- Fund Personnel Exchange
- Facilitate the creation of Knowledge Sharing platforms



BUILDING BRIDGES FOR KNOWLEDGE SHARING

IMAGINING THE FUTURE

CATALYST

CATALYZING TRANSFORMATION

TECHNOLOGY TRANSFER



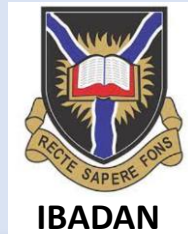
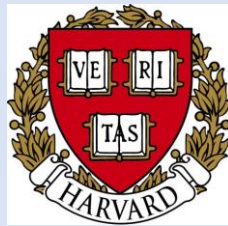
- Fund a Pilot Gap Analysis Project (\$50K)
- Identify Gaps
- Obtain Grants from funding agencies to fill the gap (\$1M? \$5M? \$20M)

BUILDING RESEARCH CAPACITY

CREATING NEW LEADERS

FUNDING PHDs

- Topics of Relevance to our Community



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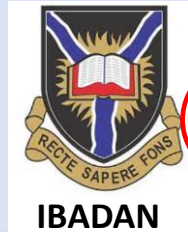
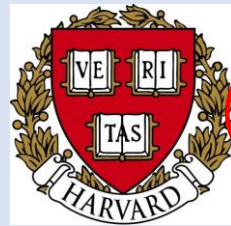
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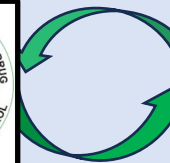
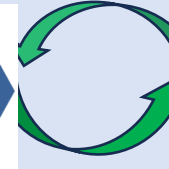


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RESEARCH & DEVELOPMENT

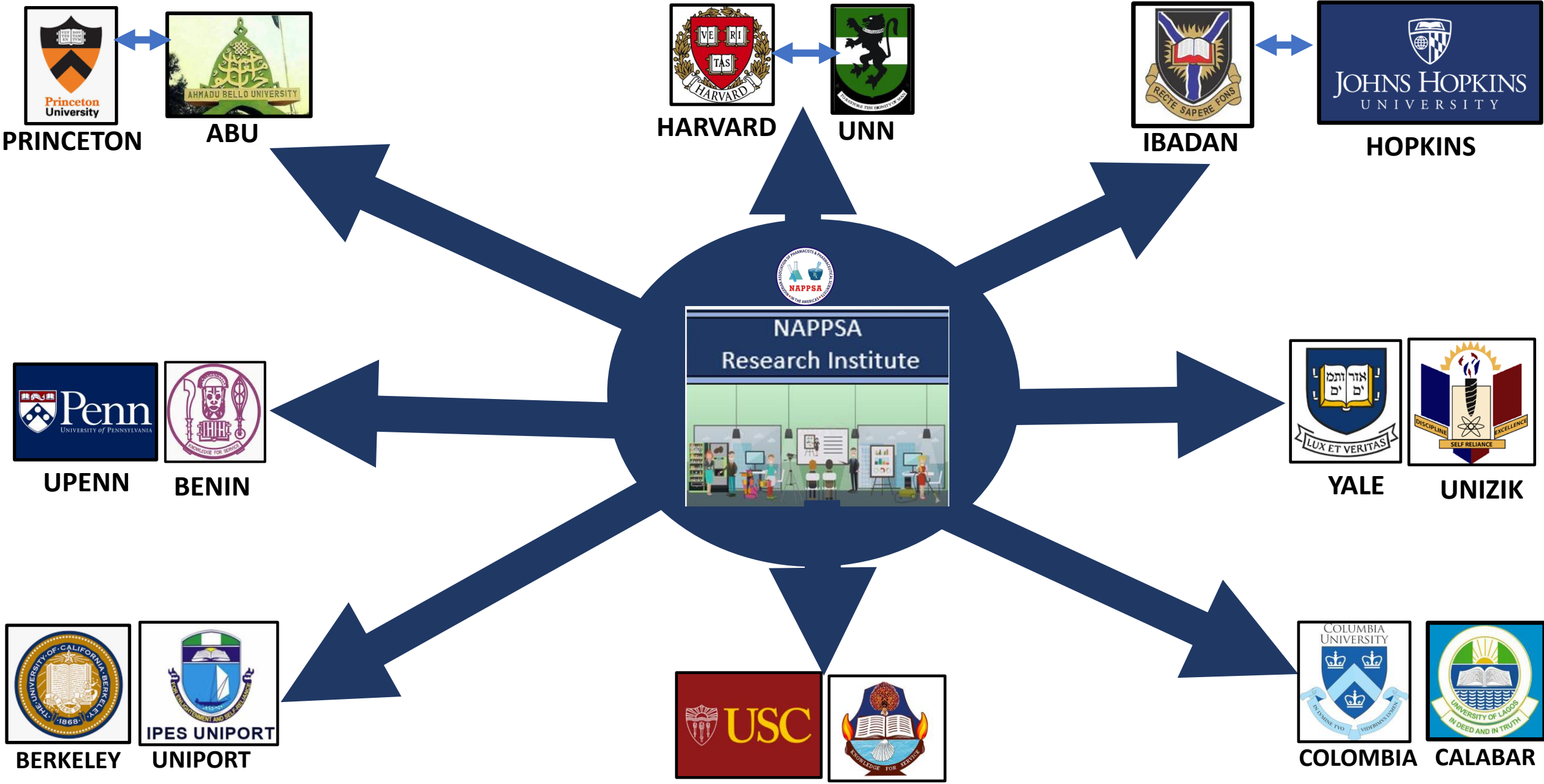
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BUILDING BRIDGES FOR KNOWLEDGE SHARING

FACILITATE INTER-UNIVERSITY COOPERATION PROJECTS



THE PROOF IS IN THE PUDDING

[Home](#) [Business News](#)

US announces increased investment in Nigeria's Diaspora-led sectors



by [Ngozi Ekugo](#) — 2 months ago in [Business News](#), [Career tips](#), [Diaspora](#)



The United States Consul General in Nigeria, Will Stevens

BUILDING ON POST-PANDEMIC MOMENTUM

GLOBAL PHARMA INNOVATION

1. Global Collaboration in Scientific Research (Silos are harmful)
2. Support equitable global Healthcare decision-making process
3. International governments need to close ranks
4. Need to expand capacity in healthcare research and emergency response to the developing countries
5. Create a sustainable global process for expanding access to healthcare and financing for healthcare projects



NAPPSA

1. Grow NAPPSA Endowment Fund
2. Expand and diversify funding sources
3. Attract Funding from major global funding agencies to support NAPPSA's programs
4. Facilitate linkages between African institutions and their western counterparts
5. Full execution of the 10 year strategy plan (NAPPSA House, Research Institute)
6. Build Linkages with like-minded organizations to enlarge footprint and expand scope of impact
7. Engage in global pharma discourse to inject African perspectives

THE MINDSET OF SUCCESS

Let others lead small lives, but not you.
Let others argue over small things, but not
you. Let others cry over small hurts, but not
you. **Let others leave their future in someone
else's hands, but not you.**

----- Jim Rohn

THE BEST WAY TO PREDICT THE FUTURE IS TO INVENT IT

If we choose to,
We can be masters of our
own Destiny

**WE have more power
within us than we can ever
imagine**

LET'S UNLEASH OUR POWER





Always a New Day
@ NAPPSA

THE END