GLOBAL NEED ASSESSMENT AND THE AAPM

Stephanie A. Parker, MS, DABR, CSSGB, FAAPM

LEARNING OBJECTIVES

To introduce the AAPM Global Needs Assessment Committee (GNAC)

To share information about current AAPM Global Needs Assessment Activities

To discuss the future directions of Global Needs Assessment and the AAPM

INTERNATIONAL COUNCIL

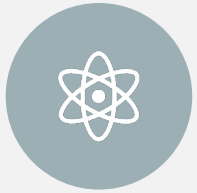
Global Education and Training

Global Data and Information Exchange

Global Liaisons

Global Medical Physics Education and Training

Global Needs Assessment

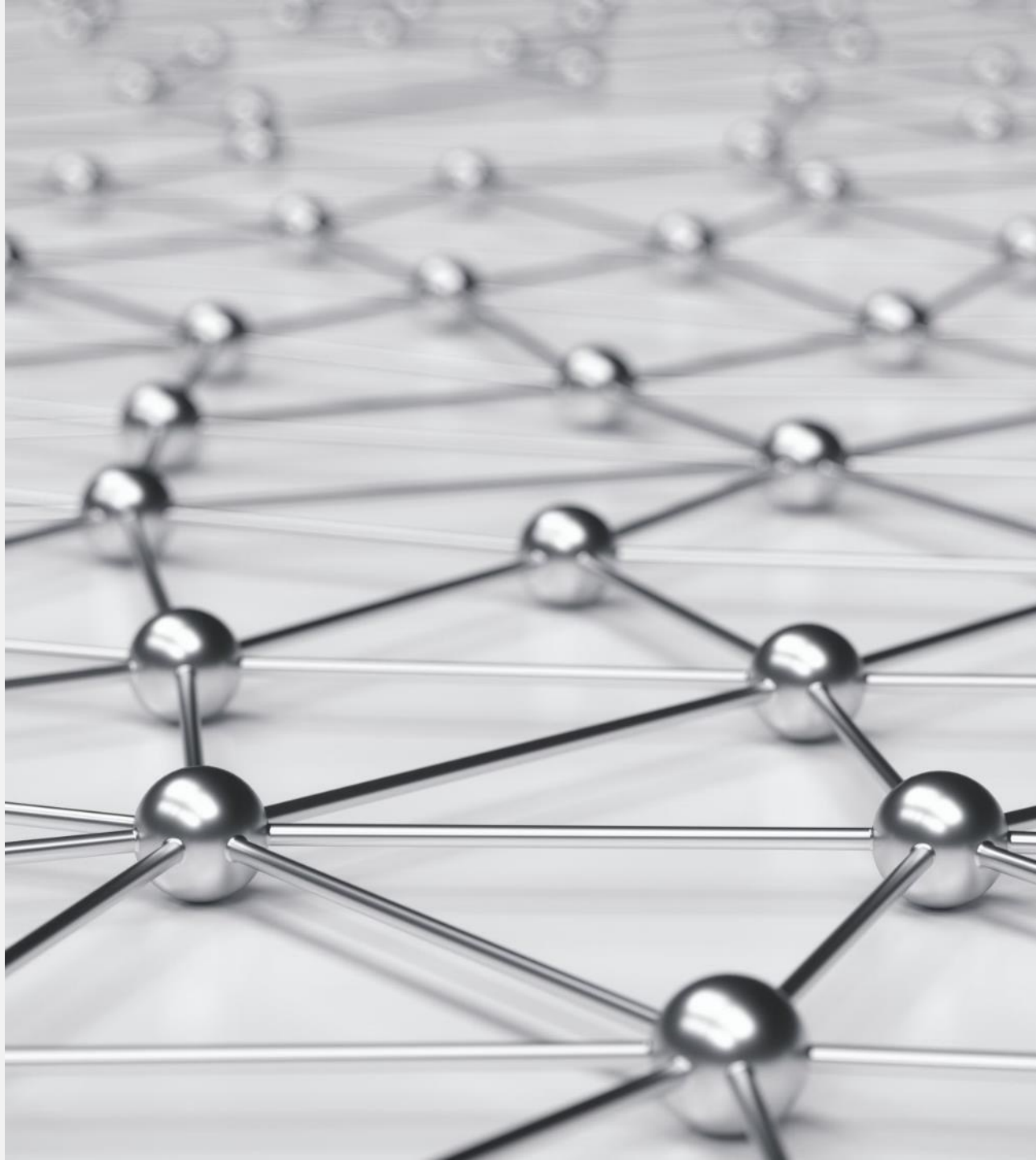


Global Research and Scientific Innovation

INTERNATIONAL COUNCIL

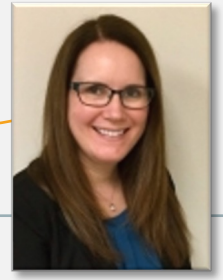
Relationships and communication between the committees is not one-way

Interconnections between all groups



Global Needs Assessment Committee

Chair:
Dr. Wilfred Ngwa



Vice-Chair:
Stephanie Parker

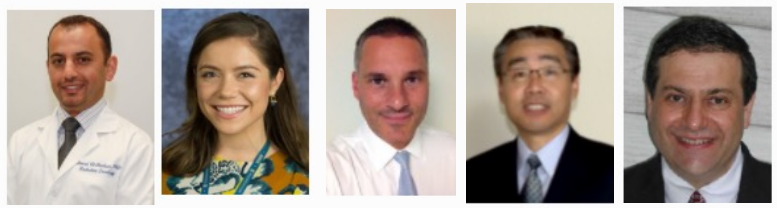
Equipment Donation Program Subcommittee

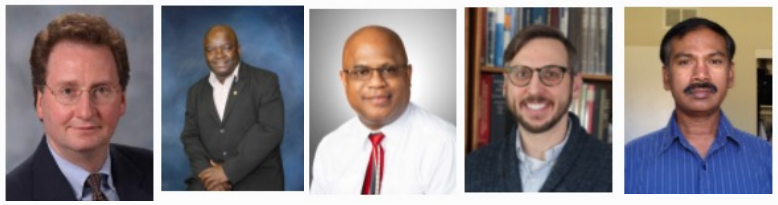
Chair:
Stephanie Parker

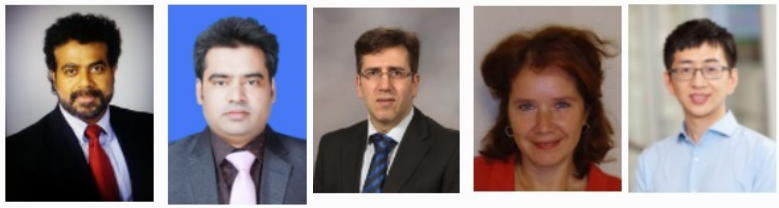
Global Representatives Subcommittee

Chair:
Dr. Eugene Lief

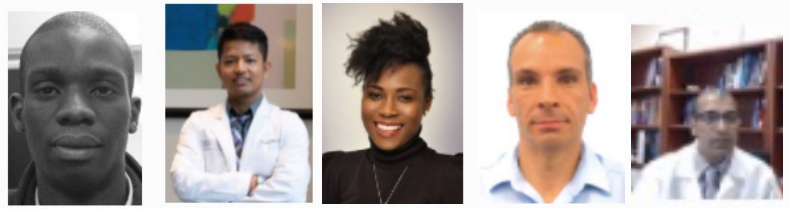
Vice-Chair:
Dr. Izabella Barreto







Global Needs Assessment Committee



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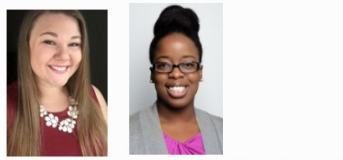

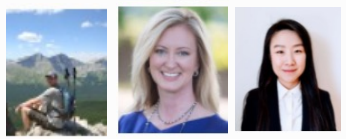

Equipment Donation Program Subcommittee

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Global Representatives Subcommittee

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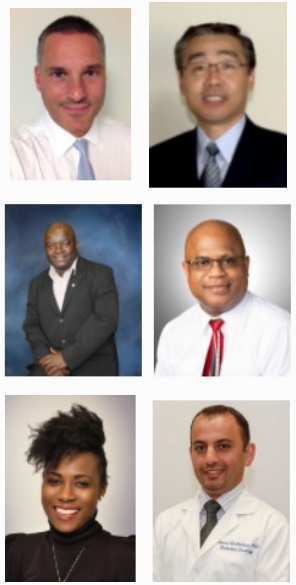


GLOBAL NEEDS ASSESSMENT COMMITTEE

Committee on regional needs assessment

Responsible for assessing needs in different regions of the world

The committee has several members representing different regions of the world

PURPOSE

The Global Needs Assessment Committee shall advise the International Council on matters related to the assessment of needs for medical physicists working outside of the United States

CHARGES

1. Develop, implement, and maintain processes for performing comprehensive quantitative assessments of medical physics needs and resources within regions
2. Using the developed processes, perform routine assessment of medical physics needs and resources in each region
3. Collaborate with GDIEC to develop and maintain a database of contact information for leaders and other representatives of key stakeholder organizations, especially international, national, and regional medical physics organizations in each region
4. Collaborate with GMPETC to advance education and training of medical physicists
5. Collaborate with GCETC to advance resource-stratified education and training in the clinical practice of medical physics

GLOBAL REPRESENTATIVES SUBCOMMITTEE

GOAL: Develop and maintain a database of contact information for leaders and other representatives of key stakeholder organizations in each region

GLOBAL REPRESENTATIVES SUBCOMMITTEE

Committee on regional collaborations

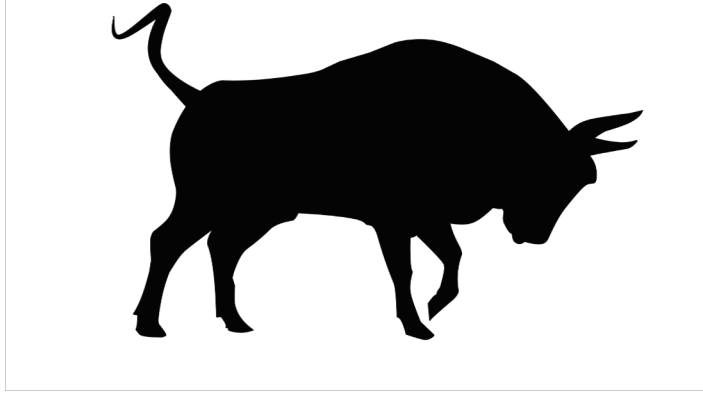
Responsible for collaboration in different regions of the world

The committee has liaisons to and from different regions of the world

EQUIPMENT DONATION SUBCOMMITTEE

CHARGE:

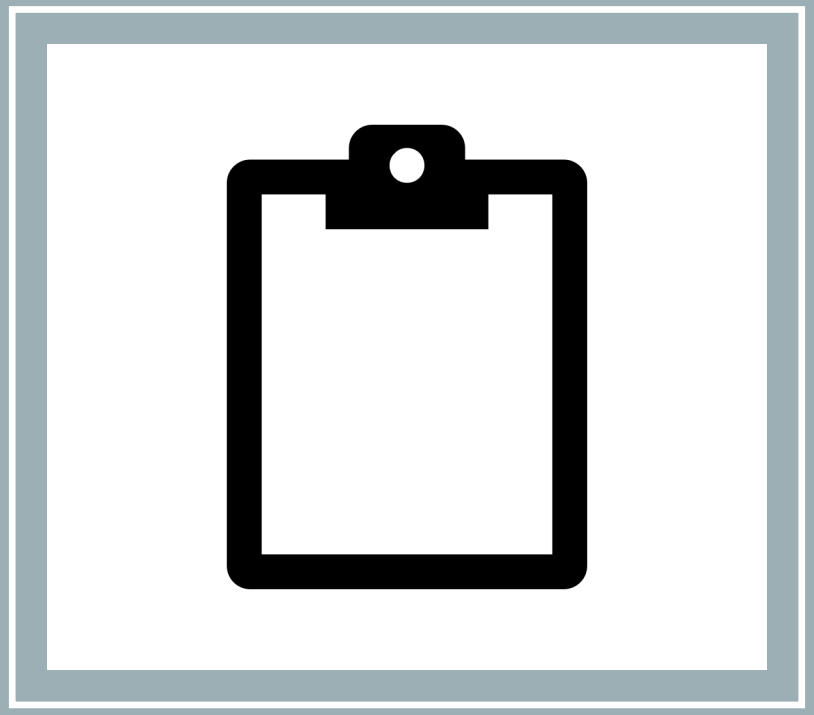
Coordinate with IOMP on matters associated with the donation of equipment to developing countries under the direction of the IC



EQUIPMENT DONATION SUBCOMMITTEE

- Abide by the WHO Principles for Good Donation
- Online Forms on the AAPM International Portal
  - Offer Equipment for Donation
  - Request Donated Equipment

1) Health care equipment donations should benefit the recipient to the maximum extent possible;
2) Donations should be given with due respect for the wishes and authority of the recipient, and in conformity with government policies and administrative arrangements of the recipient country.
3) There should be no double standard in quality. If the quality of an item is unacceptable in the donor country, it is also unacceptable as a donation.
4) There should be effective communication between the donor and the recipient, with all donations made according to a plan formulated by both parties.



NEED ASSESSMENT SURVEY

NEED ASSESSMENT SURVEY

- Catalyst for future work of the International Council
- Snapshot of current status of global needs
- Provide baseline metrics
- Guide for identifying key deliverables by the International Council Committees
- Afford assessment of progress

IDENTIFIED NEED FOR THREE SURVEYS

1st survey: Completed by **Institutional Leaders**

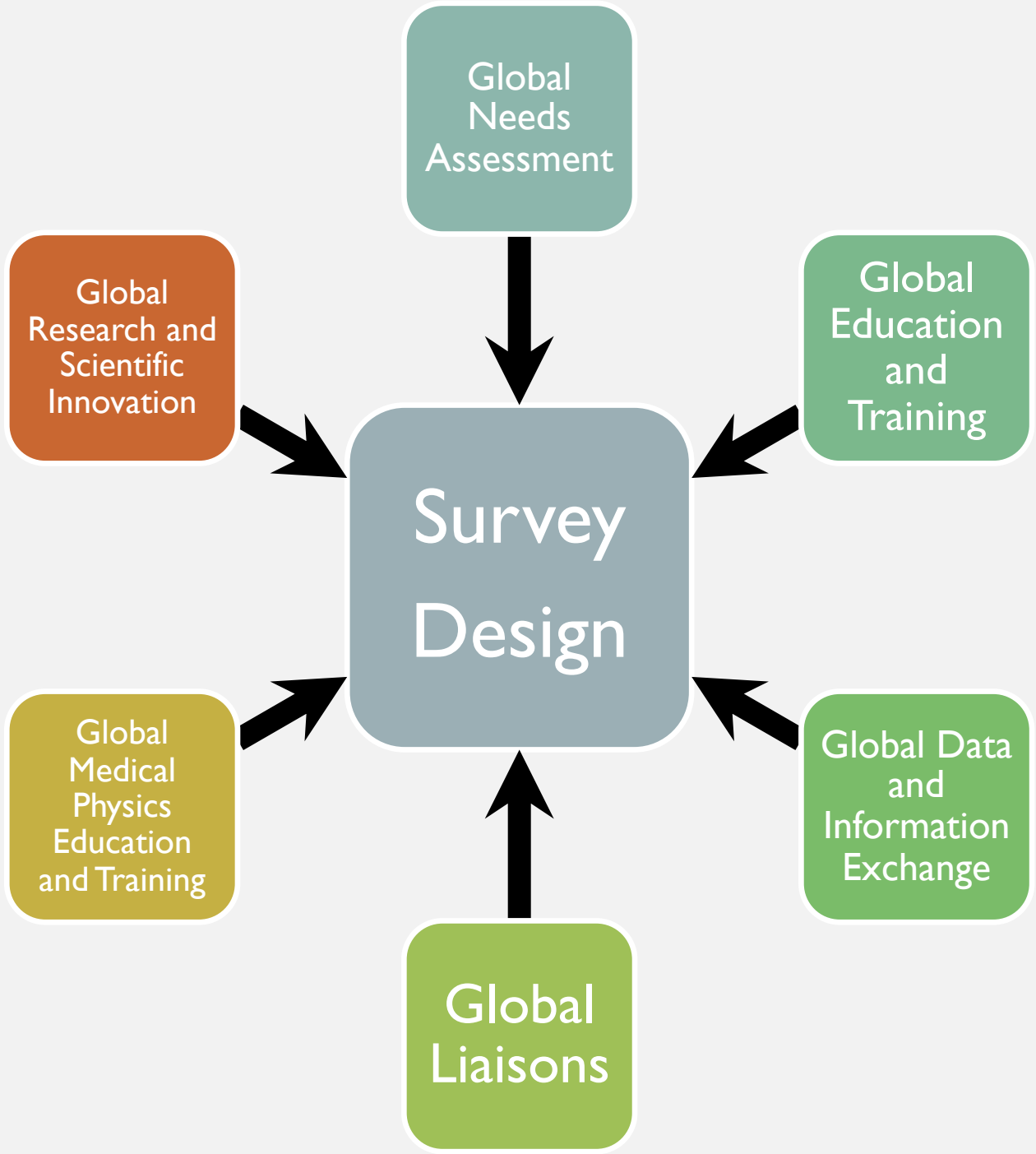
- Broad view of institutional activities, available infrastructure, and needs
- Currently Open

2nd survey: Completed by **Medical Physicists**

- Frontline of medical physics practice, education, and research
- In Development

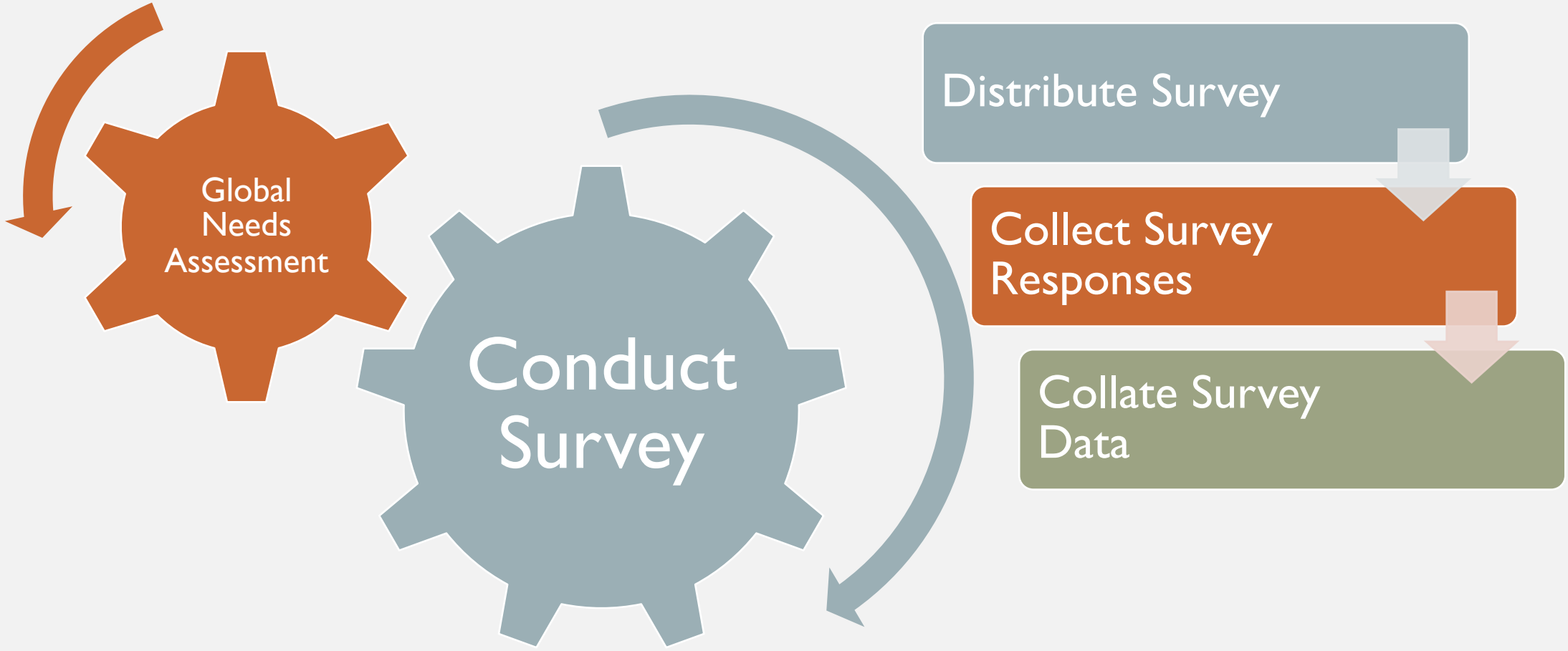
3rd Survey: Completed by **Industry Partners**

- Unique challenges to provide and maintain equipment and services in low resource settings
- In Development


Global Needs Assessment
Global Research and Scientific Innovation
Global Education and Training
Survey Design
Global Medical Physics Education and Training
Global Data and Information Exchange
Global Liaisons

SURVEY DESIGN

- Ongoing input and final revision by a Survey Design & Analysis Consultant
- Formal approval by Institutional Review Board (IRB)
- Published on a web-based platform


Global Needs Assessment
Conduct Survey
Distribute Survey
Collect Survey Responses
Collate Survey Data

SURVEY DISTRIBUTION

AAPM EMAIL

AAPM WEBSITE

SOCIAL MEDIA

GLOBAL CONTACTS

REGIONAL CONFERENCES

SURVEY ANALYSIS

TRENDS

SPECIFIC NEEDS

POTENTIAL FOR COLLABORATION

SURVEY ANALYSIS

Geographic

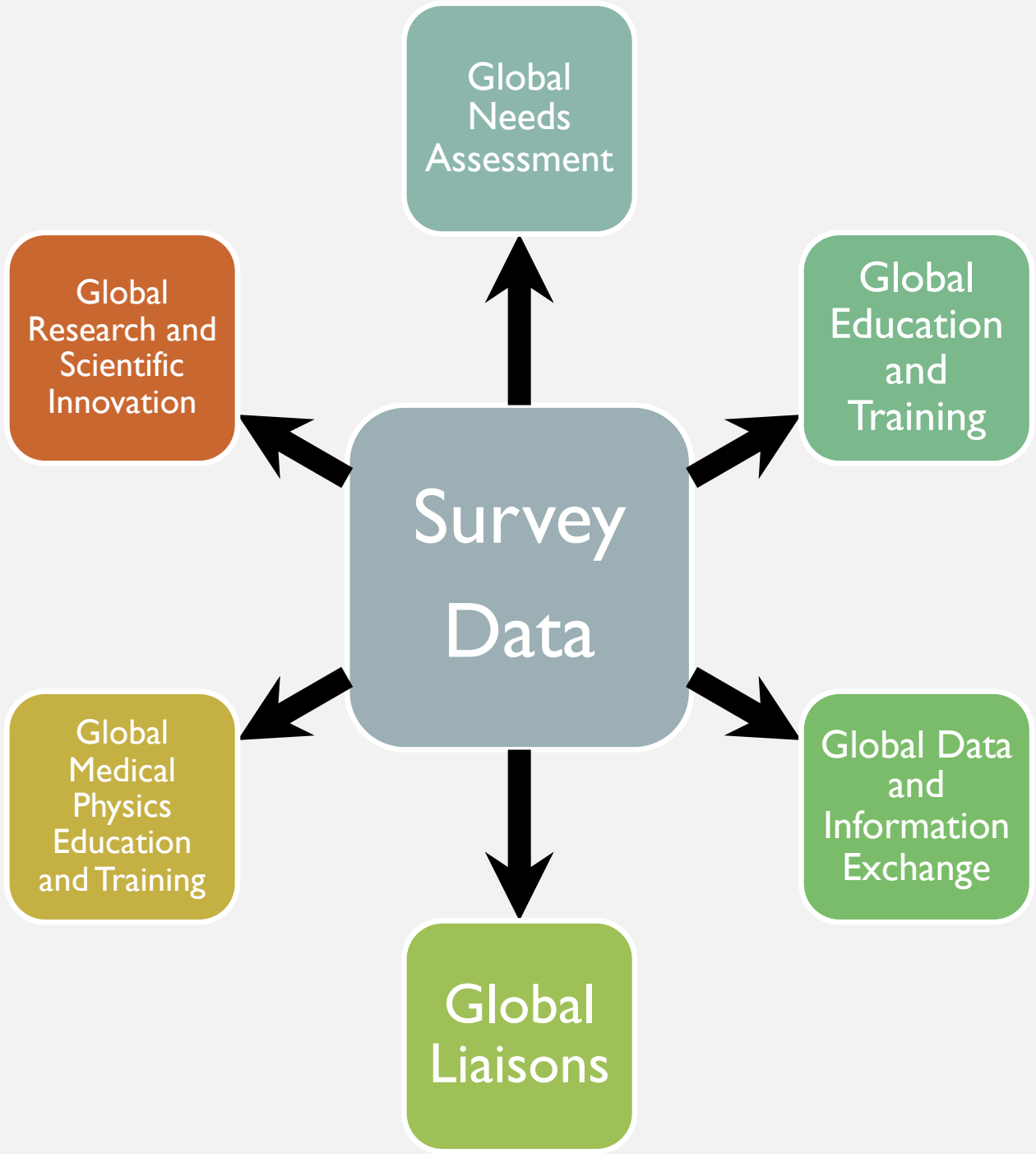
- Regional
- Country

Specialty

- Imaging
- Therapy

Practice Specific Needs

- Education/Training
- Infrastructure/Equipment
- Research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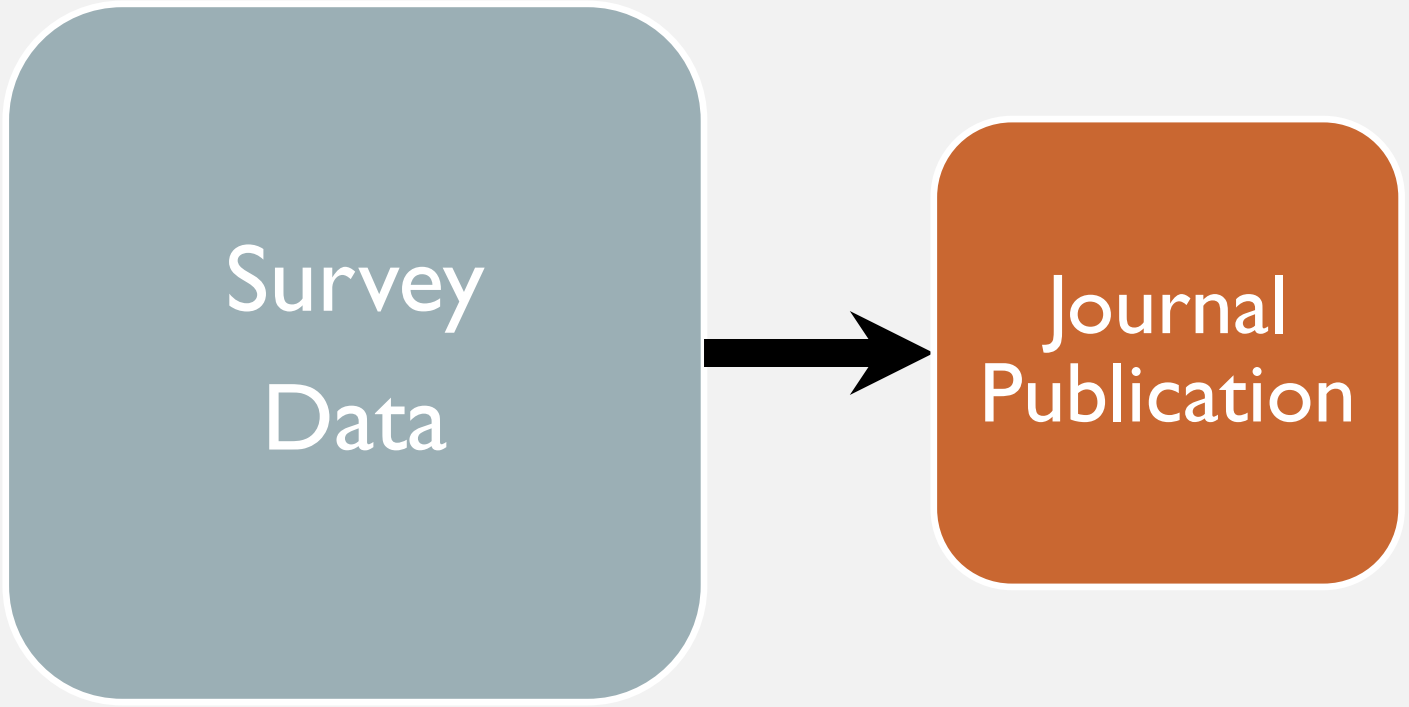

Survey
Data
Journal
Publication

CURRENT SURVEY STATUS: DEPARTMENTAL/INSTITUTIONAL LEADERS

96 Complete Responses as of 6/15/2022

More information available at Session on Monday

Monday 4:30 PM - 6:00 PM	MO-J-206-0 : **Addressing Global Needs in Medical Physics Support** E. Lief*, C. Trauernicht*, W. Ngwa*, S. Parker*, A. Yorke*, I. Barreto*, C. Della Biancia*

5:13 PM MO-J-206-4	Global Needs Questionnaire and Its Results S. Parker*

26

Africa

20

Americas

15

South-East Asia

10

Europe

20

Eastern Mediterranean

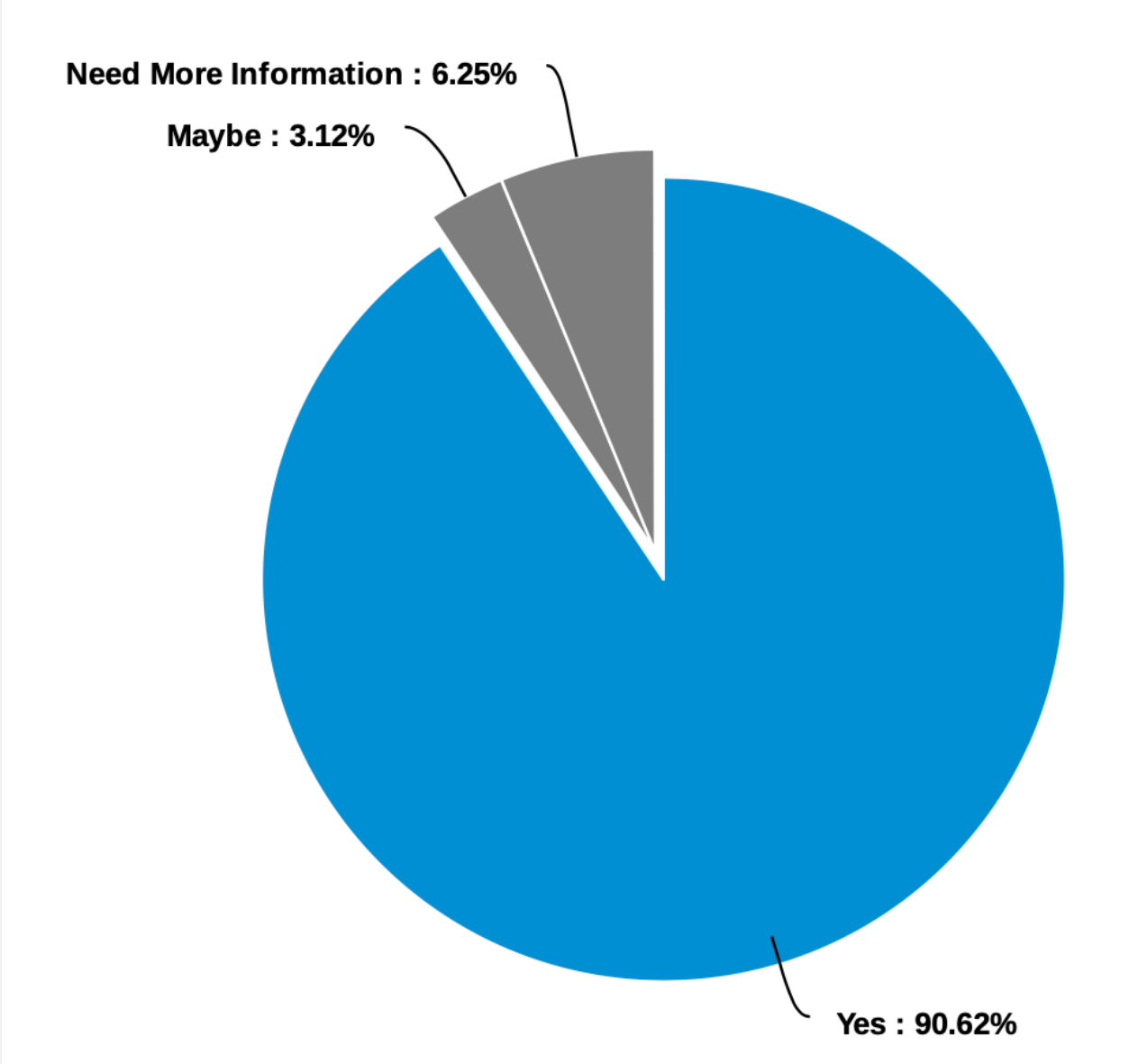
5

Western Pacific

SURVEY REPONSES BY REGION

https://www.who.int/#

Would you support collaboration between your institution's medical physicists and the AAPM?



No: 0%

RECURRING THEMES

TRAINING

EQUIPMENT

QUALIFIED PERSONNEL

Help disseminate the survey to global institutional leaders

https://bit.ly/GNAC1

ADDITIONAL REQUESTS:

Help Distribute Medical Physics Survey & Partners in Industry Survey Once they Open

AAPM INTERNATIONAL COUNCIL COLLABORATIVE MICROGRANTS

INTERNATIONAL COUNCIL COLLABORATIVE MICROGRANTS

Six Microgrants up to $6000 Each

Funded through AIP Venture Grant

Received 18 Applications

- Interesting and creative mix of ideas
- Wide range of topics

INTERNATIONAL COUNCIL COLLABORATIVE MICROGRANTS

SCORING GUIDELINES

Significance

- Regional or Global
- National
- Institutional/Departmental
- Potential to "Scale Up" Taken into Consideration

Personnel/Collaboration

- Level of Collaboration with AAPM and IC Members
- Track Record on Global Projects

Alignment

- Level of Alignment with AAPM IC Goals

2

Africa

1

Americas

South-East Asia

Europe

1

Eastern Mediterranean

2

Western Pacific

INTERNATIONAL COUNCIL COLLABORATIVE MICROGRANT RECIPIENT REGIONS

https://www.who.int/#

INTERNATIONAL COUNCIL COLLABORATIVE MICROGRANTS

EDUCATION AND CLINICAL TRAINING

RESEARCH

REGIONAL STANDARDIZATION OF PRACTICES

INTERNATIONAL COUNCIL COLLABORATIVE MICROGRANTS

Project start date: July 1, 2022.

Needs Assessment Project end date with submitted project report is December 15, 2022

INTERNATIONAL COUNCIL COLLABORATIVE MICROGRANTS

- Expected outcomes:
  - Joint conference abstract and/or manuscript prepared with co-authorship by both micro-grant awardees and AAPM IC collaborators
  - Presentation at AAPM Annual Meeting

FUTURE GOALS

2023 AAPM Session Where Microgrant Recipients Present Results

FUTURE GOALS

Fund Additional Grants in 2023

- Be on the lookout for RFP Announcement in early 2023
- Spread the word about the opportunity
- Think of ideas and submit a proposal

SUMMARY

- The AAPM GNAC is responsible for need assessment and collaboration in global regions

- To Date:
  - Established two Subcommittees
    - GRSC
    - EDPSC
  - Worked with other committees and consultant to design need assessment survey for departmental/institutional leaders
  - Awarded 6 IC Collaborative Microgrants

SUMMARY

- Ongoing & Future
  - Needs Assessment Surveys
    - Institutional Leaders – Open
    - Medical Physicists – In Development
    - Industry Partners – In Development
  - Microgrants
    - Six 2022 Grant Funded Projects Underway
    - Plan to Present Results at 2023 AAPM Meeting
    - Plan to Fund Additional Projects in 2023

THANK YOU FOR YOUR TIME AND ATTENTION