



GLOBAL NEEDS QUESTIONNAIRE AND ITS RESULTS

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CONFLICTS
OF
INTEREST

- None

LEARNING OBJECTIVES



To provide an overview of the AAPM Global Needs Assessment (GNAC) survey process



To learn about the three GNAC surveys



To view the preliminary results of the GNAC survey for departmental/institutional leaders

INTERNATIONAL COUNCIL



Global Education
and Training



Global Data and
Information
Exchange



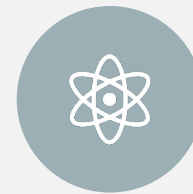
Global
Liaisons



Global Medical
Physics Education
and Training



Global Needs
Assessment

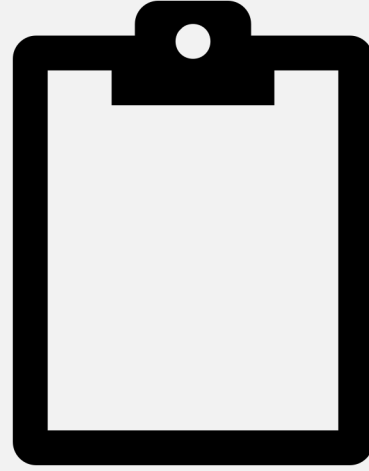


Global Research
and Scientific
Innovation

GLOBAL NEEDS ASSESSMENT COMMITTEE - CHARGES

Develop, implement, and maintain processes for performing comprehensive quantitative assessments of medical physics needs and resources within regions

Using the developed processes, perform routine assessment of medical physics needs and resources in each region



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

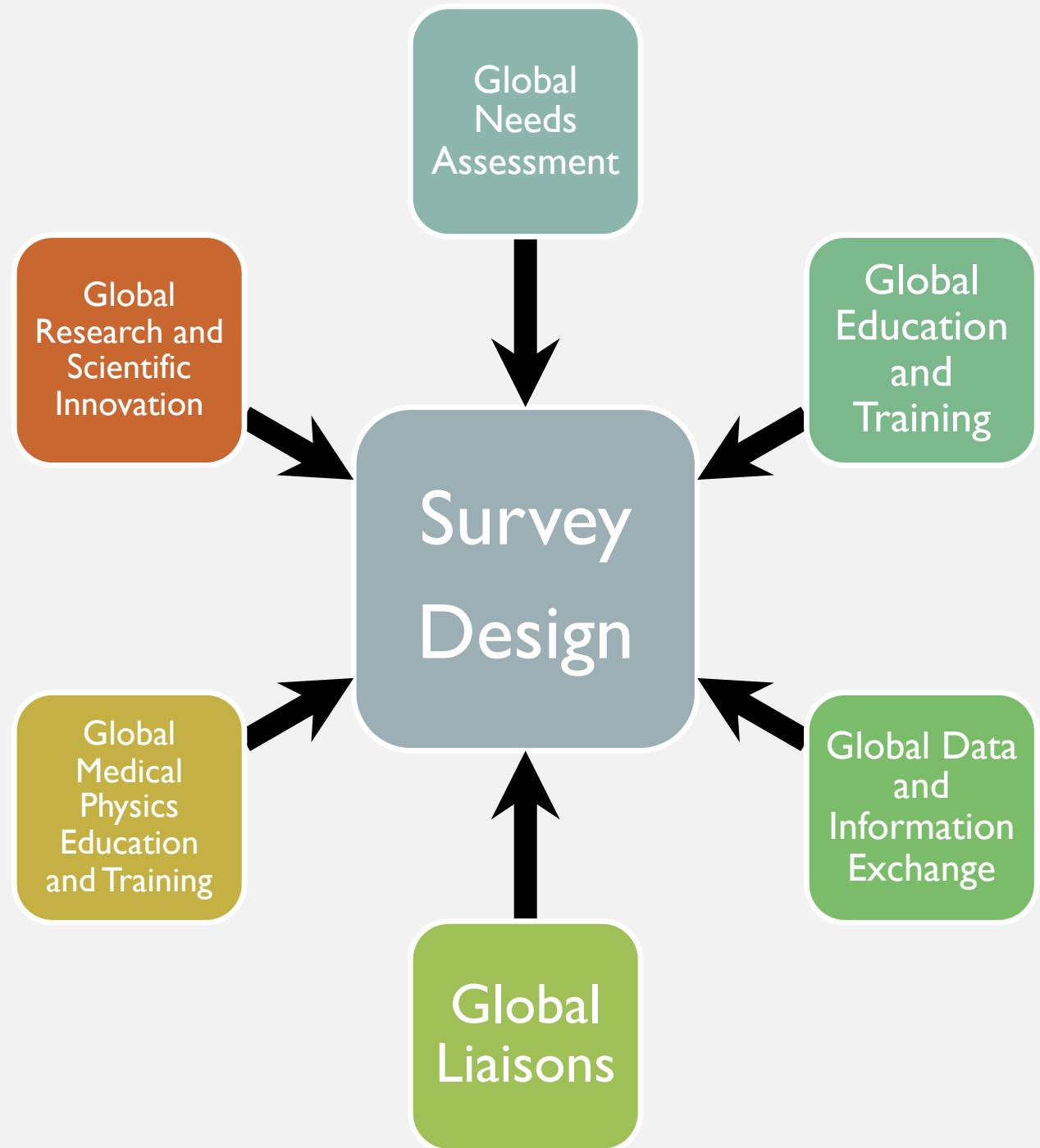
2nd survey: Completed by **Medical Physicists**

- 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





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



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

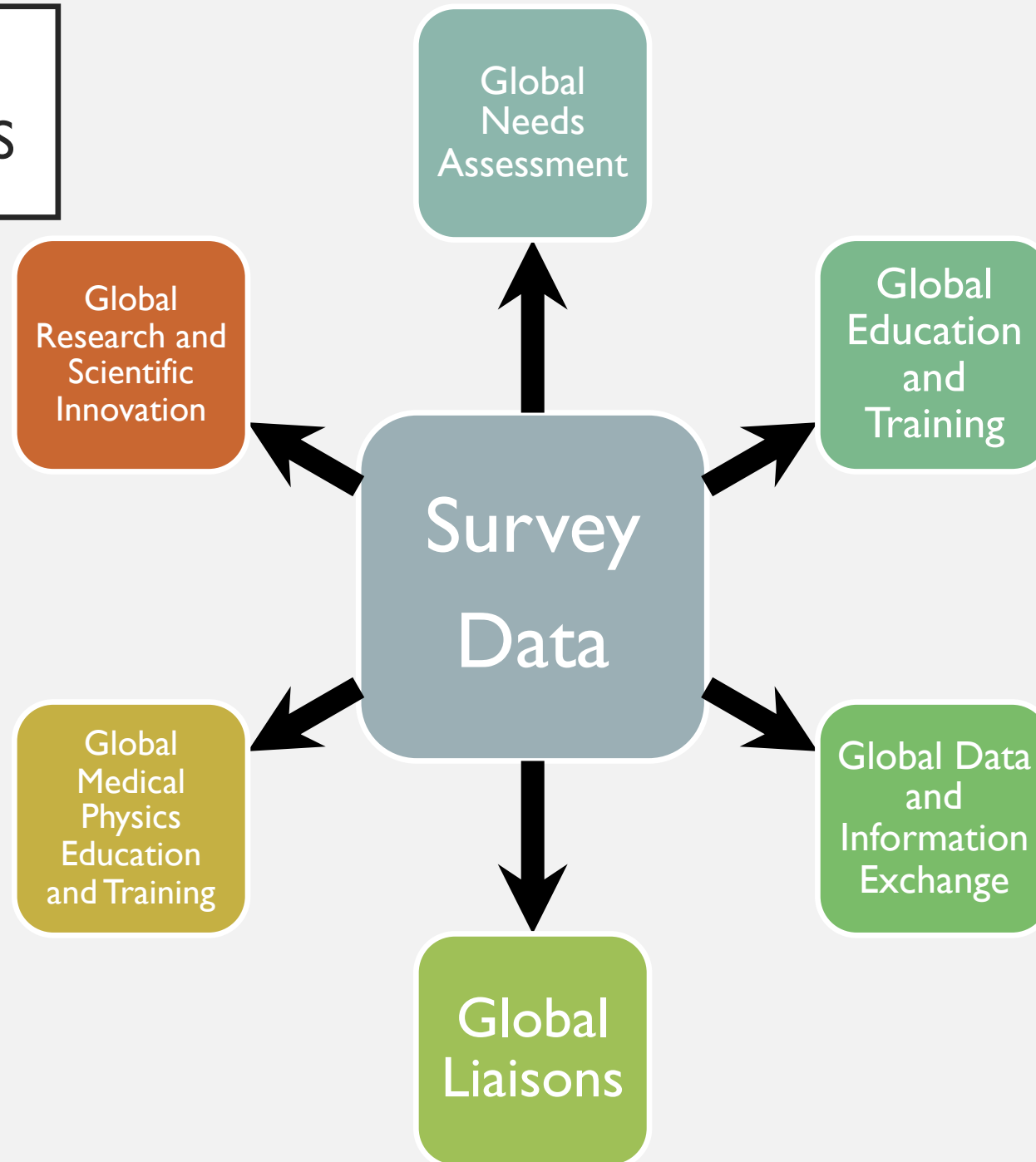
Specialty

- Imaging
- Therapy

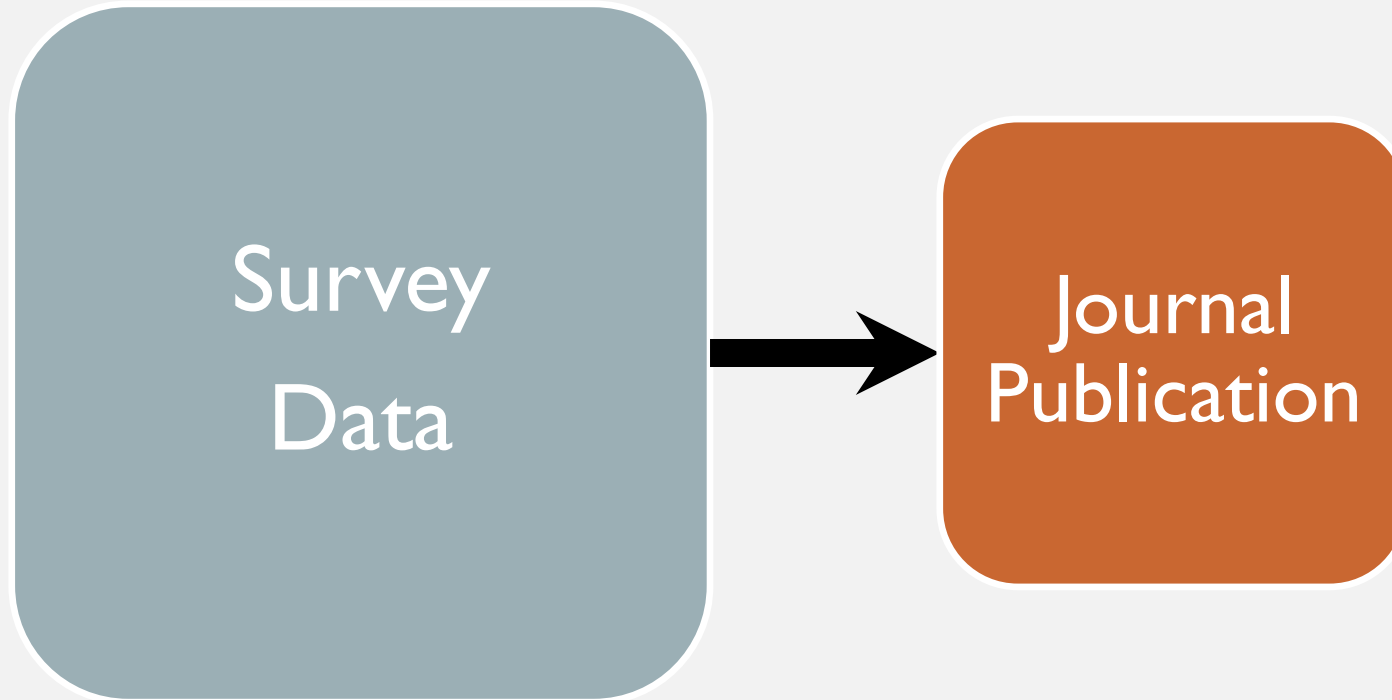
Practice Specific Needs

- Education/Training
- Infrastructure/Equipment
- Research

DISSEMINATE
SURVEY RESULTS



DISSEMINATE
SURVEY RESULTS



PRELIMINARY SURVEY RESULTS:
DEPARTMENTAL/INSTITUTIONAL LEADERS

PRELIMINARY SURVEY RESULTS:
DEPARTMENTAL/INSTITUTIONAL LEADERS

- **Includes Imaging and Radiotherapy**
- **Results as of 6/15/2022**
- **2206 Views**
- **96 Complete Responses**
- **Average Completion Time: 28 Minutes**





26

Africa



20

Americas



15

South-East Asia



10

Europe



20

Eastern Mediterranean



5

Western Pacific

SURVEY REPOSSES BY REGION

SURVEY SECTIONS

Introduction

- 4 Questions

Infrastructure Needs

- 14 Questions

Education Needs

- 11 Questions

Research Needs

- 7 Questions

General Information

- 7 Questions

SECTION: INTRODUCTION

INTRODUCTION

What are the BIGGEST Needs at your institution at this time? (Select No More Than 2)



Equipment

53.1%



Qualified Staff

38.5%



Training

Equipment Operation

28.1%

Patient Treatment

21.9%

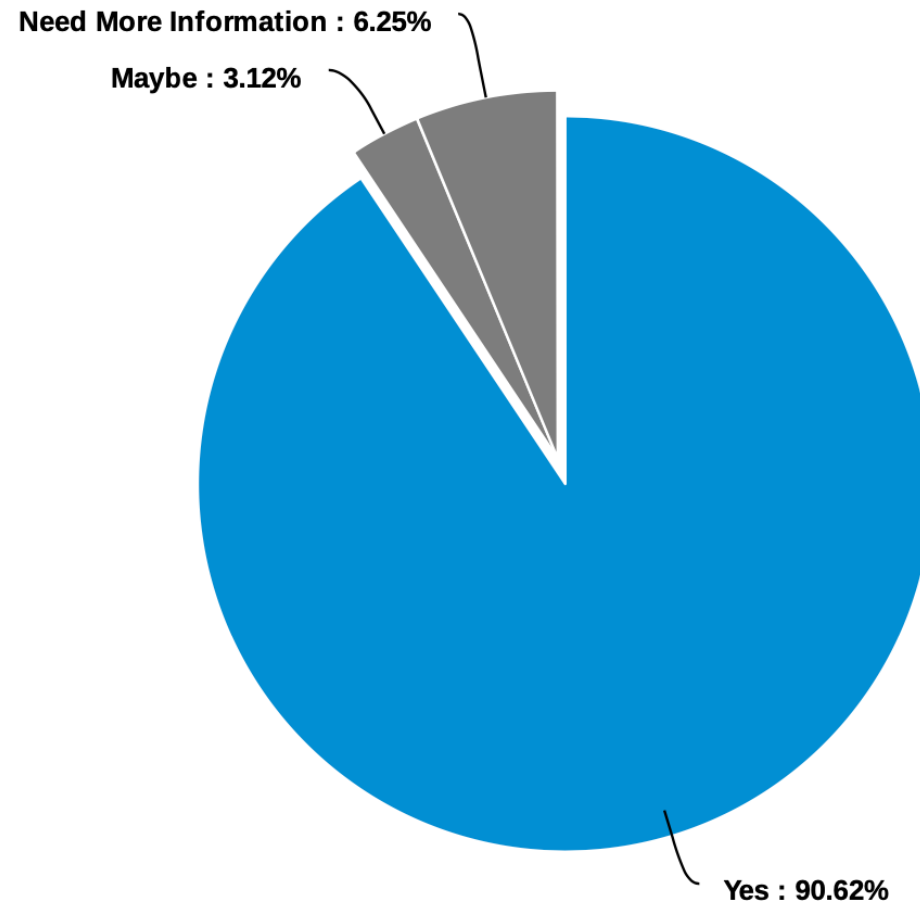


Software

17.7%

INTRODUCTION

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



No: 0%

SECTION: INFRASTRUCTURE

INFRASTRUCTURE

Which are the greatest infrastructure needs or areas for improvement at your institution?



Training
67.7%



Financial
41.7%



**Research
Expertise**
32.3%



Personnel
25%



**Information
Technology**
9.4%

SECTION: EDUCATION

EDUCATION

Which types of educational support are the highest priority at your institution?

Educational Need	% Respondants
Clinical training	59.4%
Course development in medical physics	45.8%
Training on conducting research	39.6%
Training on medical equipment	32.3%

EDUCATION



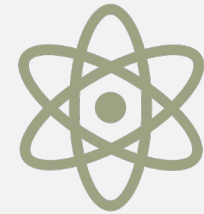
**Affiliated with
formal/structured
education program**

31%



**Plans to initiate
program in next 3
years**

57.1%



**Medical Physics
recognized profession**

66.7%

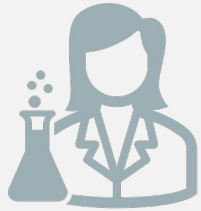
SECTION: RESEARCH

RESEARCH

What are the top research needs at your institution?

Research Need	% Respondants
Funding, obtaining grants	68.8%
Equipment	47.9%
Expertise	40.6%
Applying for and managing grants	30.2%

RESEARCH



**Currently
Conduct
Research**

57.1%



**Capacity to
Conduct
Computational
Research**

57.3%



**Capacity to
Conduct Clinical
Trials**

61.1%

RECURRING THEMES



TRAINING



EQUIPMENT



QUALIFIED
PERSONNEL

SUMMARY

Global Needs Assessment Committee

- One of Six Committees of International Council
- Responsible for assessing needs in different regions of the world

Needs Assessment Surveys

- Open to Responses
 - Institutional/Departmental Leaders
- In Development
 - Medical Physicists
 - Industry Partners

SUMMARY

Institutional Department Leader Survey

- 96 Complete Responses as of 6/15/2022
- Responses from all 6 Global Regions

Question Topics

- General
- Infrastructure
- Education
- Research

Greatest Needs Preliminary Analysis

- Training
- Equipment
- Qualified Personnel



WE INVITE YOU TO:

**Help disseminate
the survey to global
institutional leaders**

<https://bit.ly/GNAC1>



ADDITIONAL REQUESTS:

Help Distribute
Medical Physics
Survey & Partners in
Industry Survey
After They are Open



THE END

THANK YOU
FOR YOUR
TIME AND
ATTENTION

