

# SIOP Global Mapping

## What have we learned so far?

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On behalf of the SIOP Global Mapping Project

# Global trends

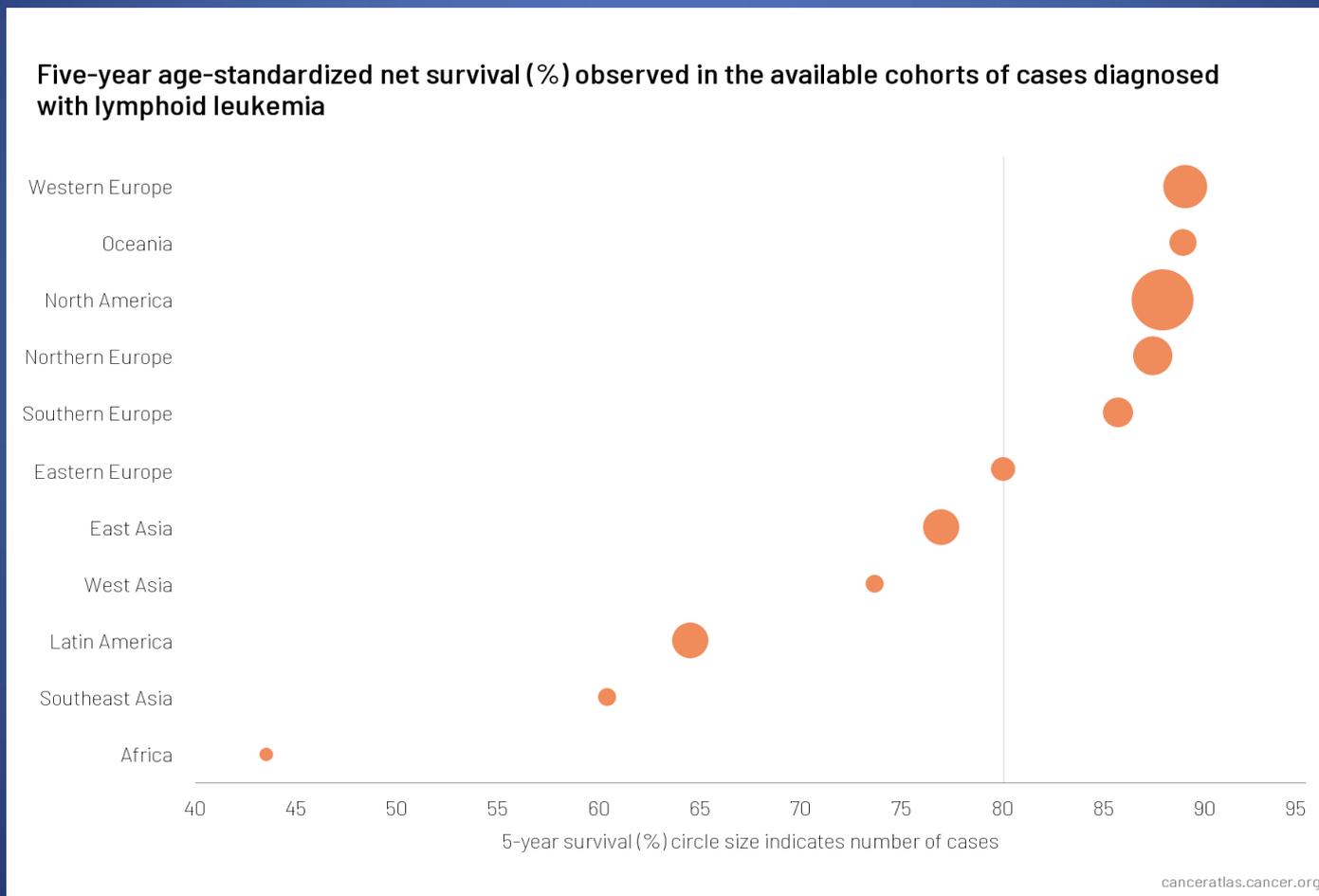
- Global oncology
- Adapted treatment regimens
- Harmonisation of treatment protocols
- WHO: September 2018: announced the **WHO Global Initiative for Childhood Cancer:**
  - Save one million lives
  - Double the global cure rate
  - 60% survival by 2030



# Background

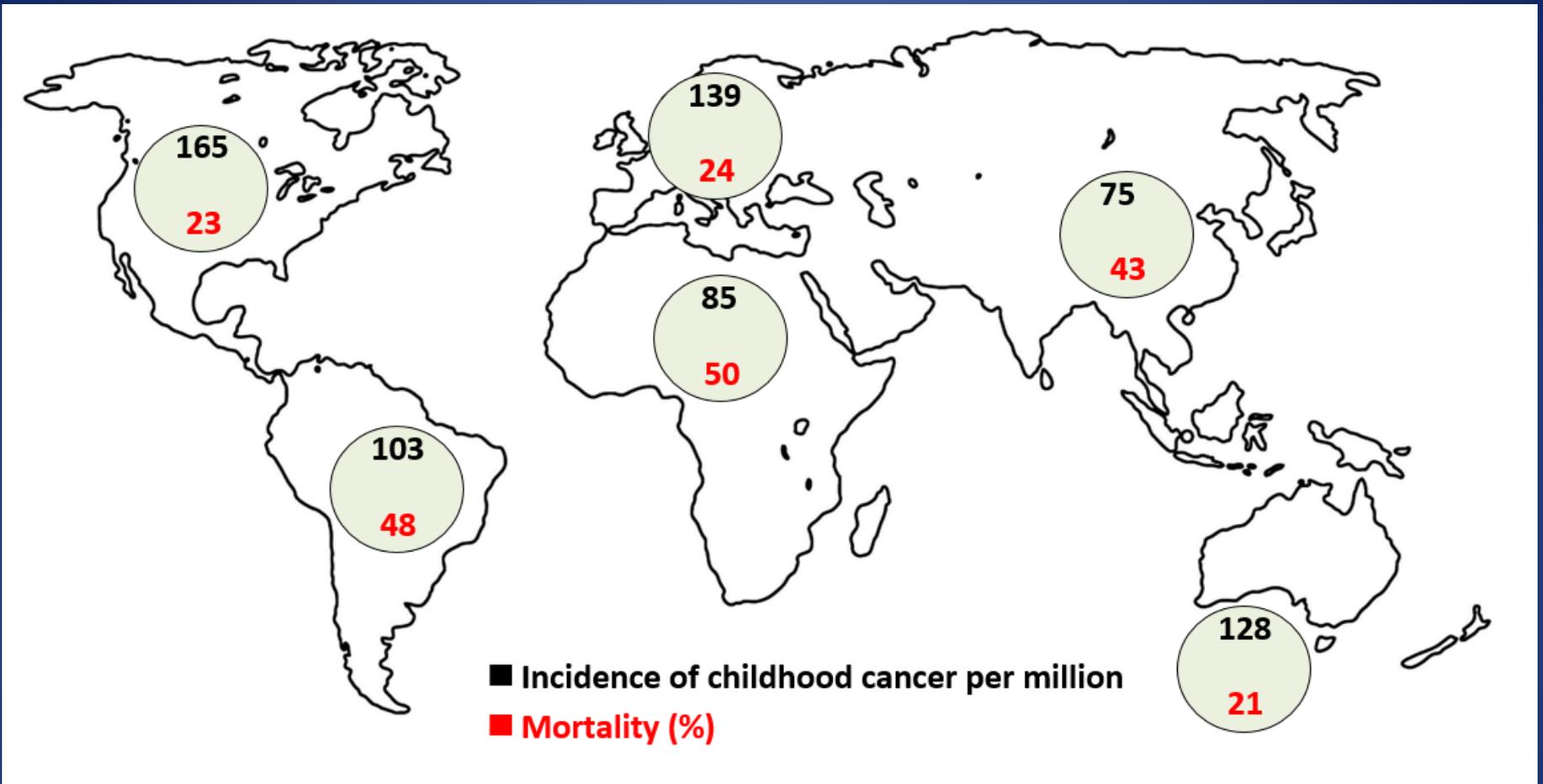


# Why did we start with Africa?



# Why did we start with Africa?

- Most children with cancer in Africa go undiagnosed.
- Those who **are** diagnosed have significantly higher mortality rates in comparison with those in high-income countries.



Adapted from Canceratlas.org 2015

# Objectives

- **Survey as many paediatric oncology professionals in Africa as possible to determine which services are available.**
- **Baseline of paediatric oncology resources across Africa.**
- **Use this baseline as a springboard to improvement**



# Methods

- Survey questions agreed upon by:



- Format of questions based on article on adapted treatment regimens to ensure consistency and replicability

# Methods

SUPPLEMENT ARTICLE

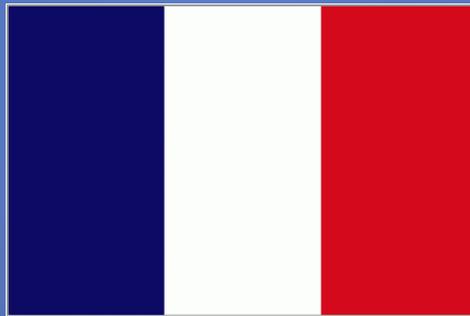
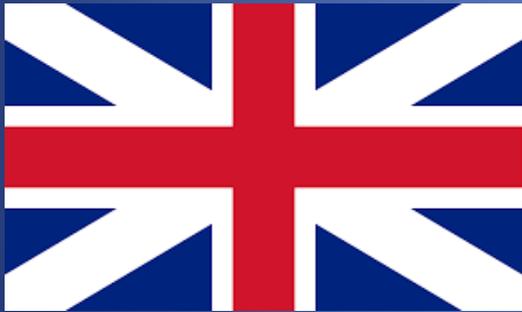


## A framework to develop adapted treatment regimens to manage pediatric cancer in low- and middle-income countries: The Pediatric Oncology in Developing Countries (PODC) Committee of the International Pediatric Oncology Society (SIOP)

Scott C. Howard<sup>1</sup>  | Alan Davidson<sup>2</sup> | Sandra Luna-Fineman<sup>3</sup> | Trijn Israels<sup>4</sup>  | Guillermo Chantada<sup>5,6,7</sup> | Catherine G. Lam<sup>8</sup> | Stephen P. Hunger<sup>9</sup> | Simon Bailey<sup>10</sup>  | Raul C. Ribeiro<sup>8</sup> | Ramandeep S. Arora<sup>11</sup> | Francisco Pedrosa<sup>12</sup> | Mhamed Harif<sup>13</sup> | Monika L. Metzger<sup>8</sup>

# Methods

- 55-questions



# Methods

**Launched at SIOP annual congress, in Kyoto Japan, November 2018.**



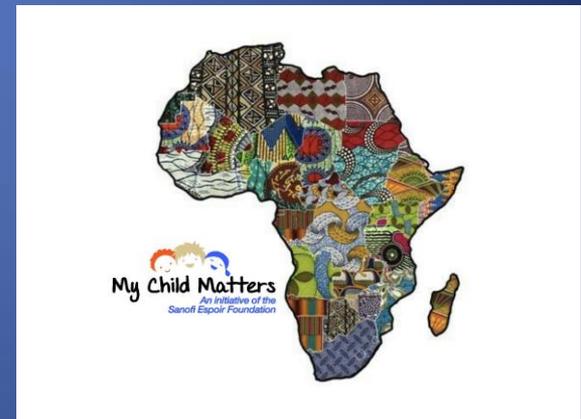
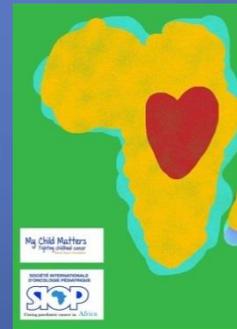
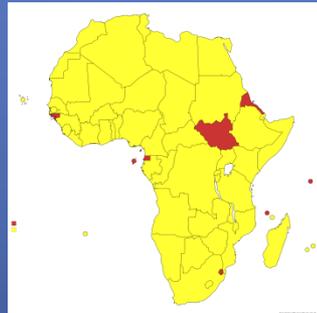
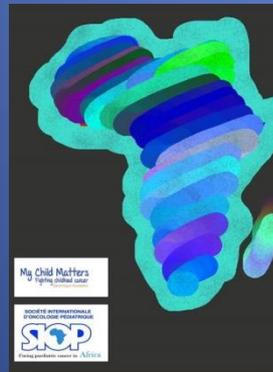
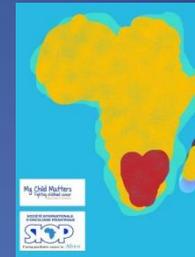
**Paper copies disseminated at SIOP Africa, Cairo Egypt, March 2019**





# Methods

- Instagram posts
- Twitter posts
- Facebook posts
- >1000 emails sent



# Methods

- Today's feedback represents the process and what we have learned about the African situation so far.
- The global survey is ongoing and is currently concentrating on Latin America.



# Results

>700 responses from 105 countries

243 responses from Africa

47/54 African countries represented



# Results

## Nigeria and Texas

Population:

**190 million**

**28 million**

Number of full time  
paediatric oncologists:

**0**

**66**

**in the entire county**

**at one hospital**

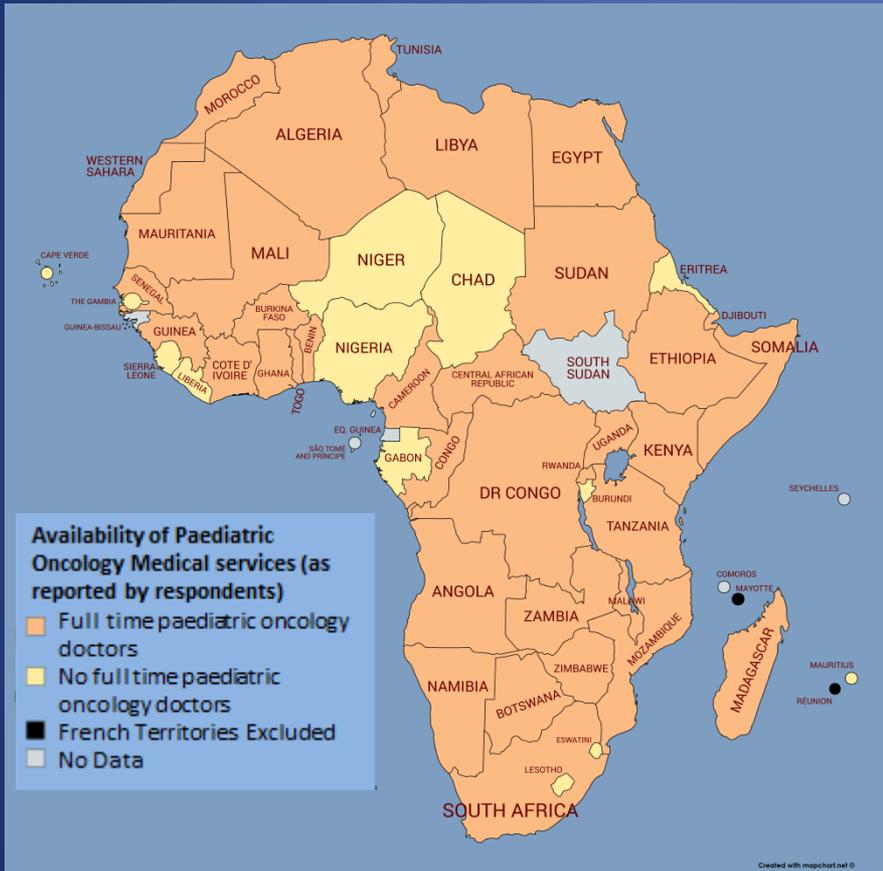
USA population: 327 million



Texas Children's Hospital

# Results

**20** countries: no full time paediatric oncology physicians





Private Hospital

12



Government Hospital

168



Charity Hospital

14

# Which Setting Do You Work In?



NGO/Foundation

39



Research Centre

0



Private Clinic

1

# Results

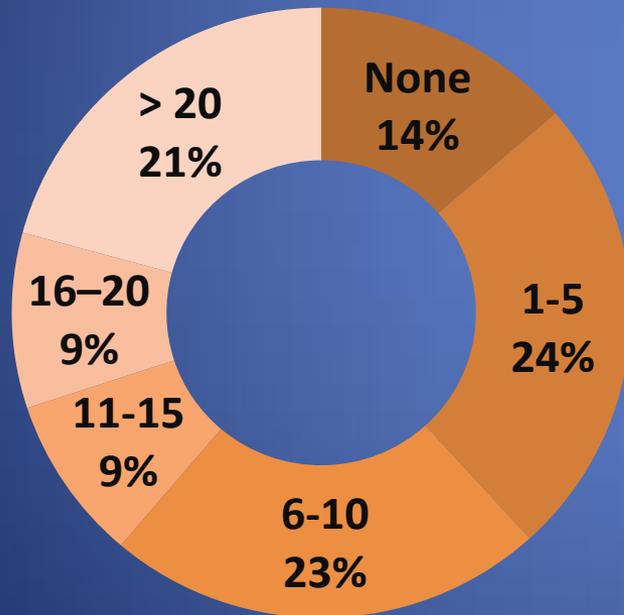
Median annual number of new patients reported from each centre was 120 (IQR 45-300)



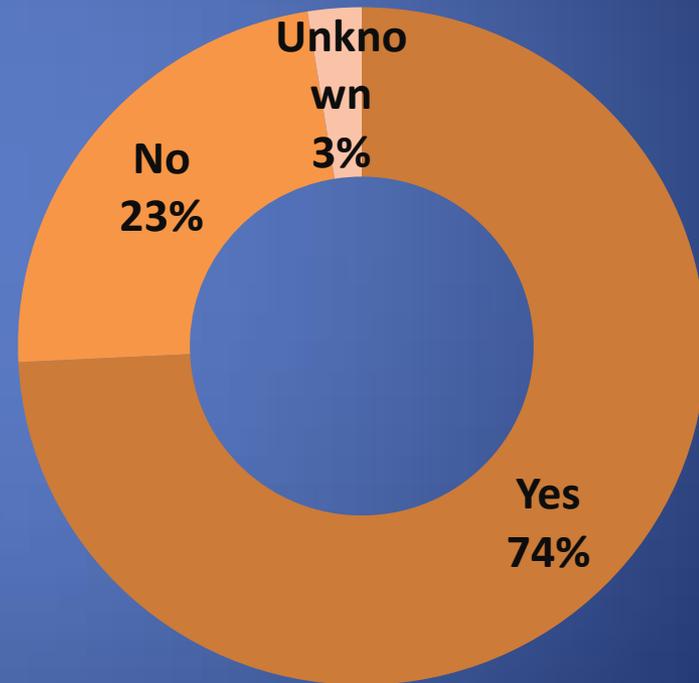


# Results

## Number of fulltime nurses

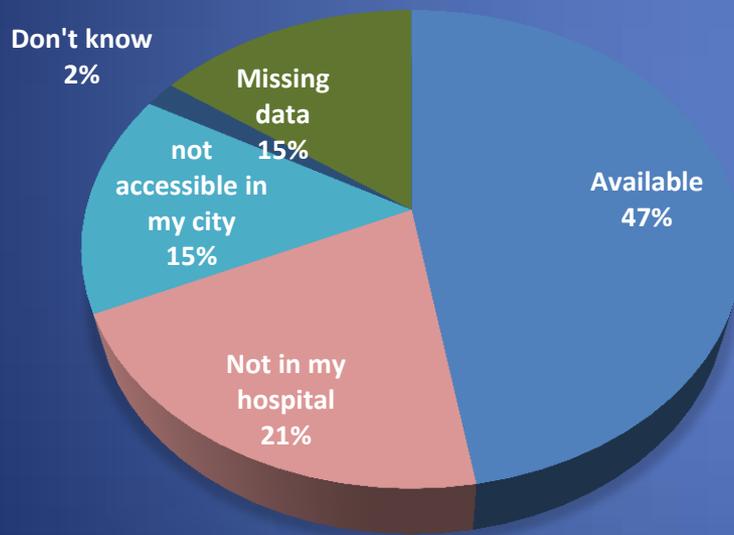


## Nutritionists



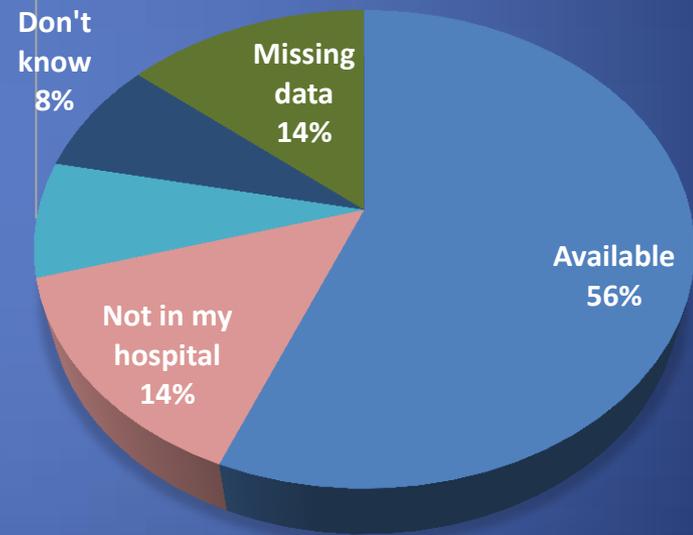
# Results

## MRI



not accessible in my city 8%

## CT scan



# Discussion

- Availability and quality of services varies widely
- Gross inequalities persist in countries.
- legacy of colonisation and the current instability in many countries impact on paediatric cancer survival rates
- This data constitutes a baseline against which to measure efforts to improve comprehensive care for children with cancer and their families in the region.

# What exactly do we want from the project?

- Map SIOP. Know where to refer patients. A resource for parents to find appropriate services **INTERACTIVE MAP**
  - Lobby for better services at a high level
  - Give something back to the people completing the survey
  - Improve survival rates
- 
- **Save the lives of children with cancer**

# Limitations

- Missing data
- Data quality
- Data verification
- Internet connectivity

# Expected outputs

- Visual **maps**, a bit like the twinning map: ability to get an overview of what is available (e.g. palliative care, psychosocial support, immunotherapy, radiotherapy, chemotherapy, surgery) with contact details

# Future directions

- Ongoing process: regular updates
- Look back in five years time to see if there have been improvements

# Future directions

- Ongoing process: regular updates
- The go-to site for referrals and enquiries
  - “Where can I refer this patient with high risk neuroblastoma?”
  - “Where can my child be treated for relapsed ALL?”
  - “Is there a centre that can provide intensity modulated radiotherapy?”
  - “Does the centre have counselling for me and my family?”
- Look back in five years time to see if there have been improvements

# Take the survey

Aim your smart phone camera at this image and “Open ‘casehippo.com’” will appear. Click on that and you will be directed to the survey



Please send the link to your friends and colleagues and strongly encourage them to complete the survey

<https://siop-online.org/globalmapping>

# Thanks

