

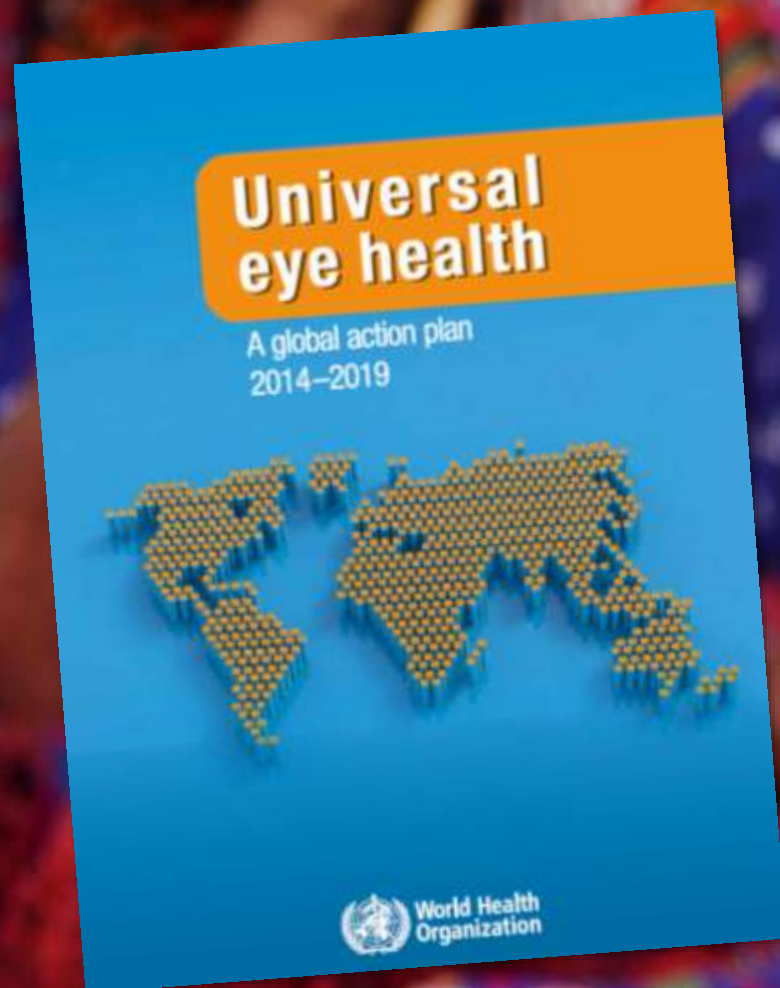
# Assessing the impact of a global health MOOC/OER

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LONDON  
SCHOOL of  
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& TROPICAL  
MEDICINE



# 285 million visually impaired people



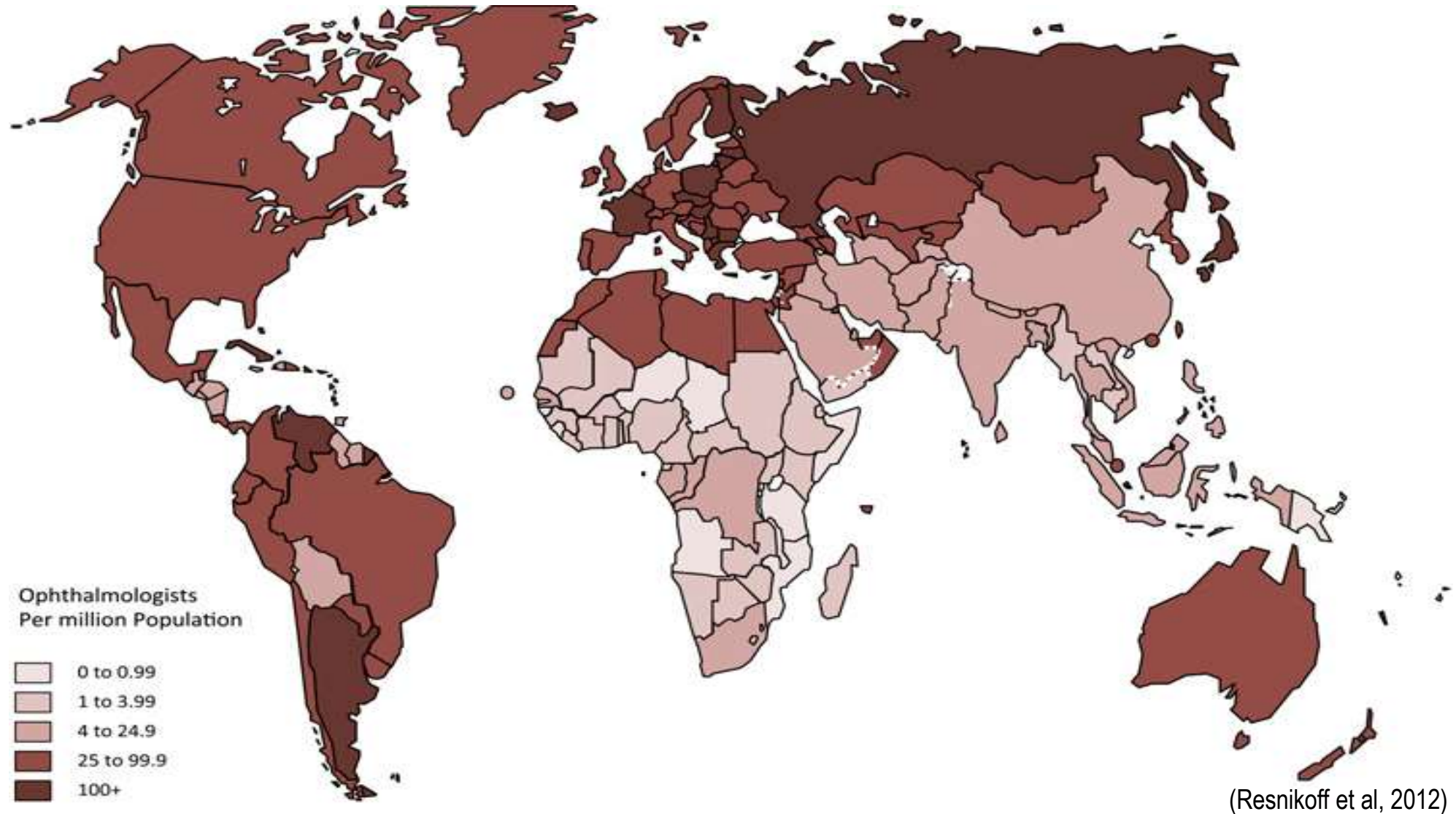
(WHO, 2013)



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# Eye health human resources challenges





# Can MOOC/OER help to address this training gap? (Laurillard, 2014), (Kanwar & Mishra, 2015)



# Global Blindness MOOC/OER



## WEEK 1: THE BURDEN OF AVOIDABLE BLINDNESS

### Introduction

An introduction to the 5 main course objectives and a chance to think about how you learn. There is also an opportunity to introduce yourself and meet fellow learners for the first time.  
Image © LSHTM



1.1 WELCOME TO THE COURSE AND WEEK 1 VIDEO (02:06)

1.2 LEARNING WITH US ARTICLE

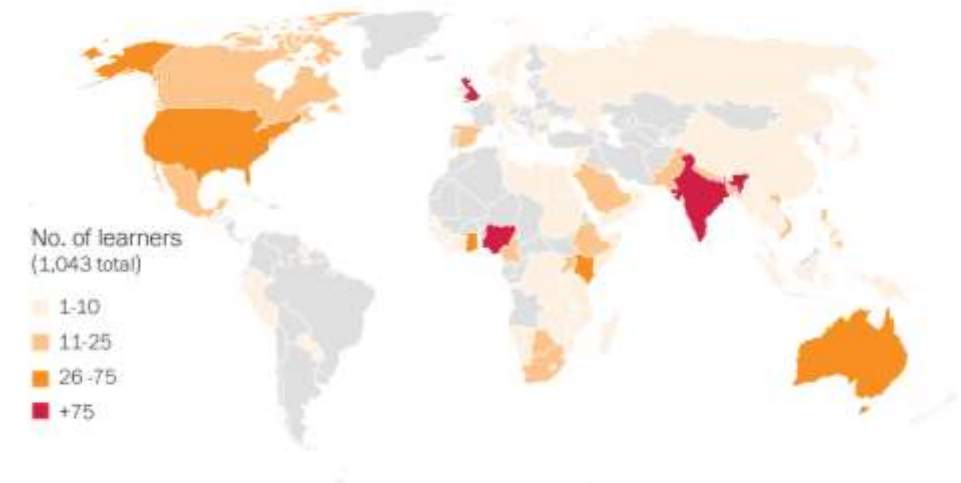
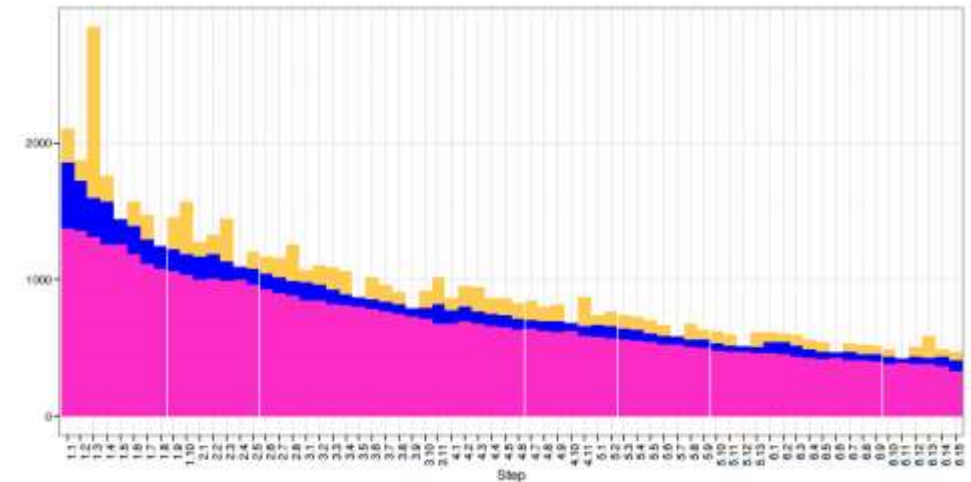
1.3 INTRODUCE YOURSELF DISCUSSION

- Essentials of planning and management for eye care services
- Accessible, acceptable and applicable content for a variety of eye care contexts
- OER to enable further local educational transformation
- Involvement of global experts in content development and mentoring



# What happened?

	Run 1 (Apr 15)
Joiners <sup>4</sup>	3,544
Learners <sup>4</sup>	<b>2,183</b>
Live in LMICs <sup>1</sup>	69%
Work in Health/social care <sup>1</sup>	81%
Completed $\geq 50\%$ of course <sup>3</sup>	744 (34%)
Completed $\geq 90\%$ <sup>3</sup>	444 (20%)
Certificates/upgrades sold	143 (7%)
Course rated as: "Excellent/Good" <sup>2</sup>	96%



<sup>1</sup> Pre-course survey (n=1,107) <sup>2</sup> Post course survey (n=214) <sup>3</sup> Datasets. All % shown are % of learners

# Learning experience & applicable knowledge

- “The training was very valuable and **cross sharing of vast experiences so enriching.**” *Kenya*
- “Good teaching **materials to disseminate the knowledge** to others to adopt” *Bangladesh*
- “I have learnt that **only seeing patients in my clinic will never overcome the burden of blindness.**” *Burundi*
- “I can now use planning principles, doing a SWOT Analysis and setting SMART objectives to **start planning the delivery and evaluation of outreach programme.**” *Cameroon*
- “I have learned how to systematically analyze a complicated problem and address it. I have been involved in an outreach program in *Honduras* for the past 11 years, and I'm convinced that **I can use what I've learned to try and make the program more effective.**”
- “To me, the course played a very vital role as it **empowered me** with planning skills especially for Vision 2020 national and district planning [...] i have already **started using the information on my daily activities** as well as in planning.” *Botswana*

# So what? Online survey after 1 year

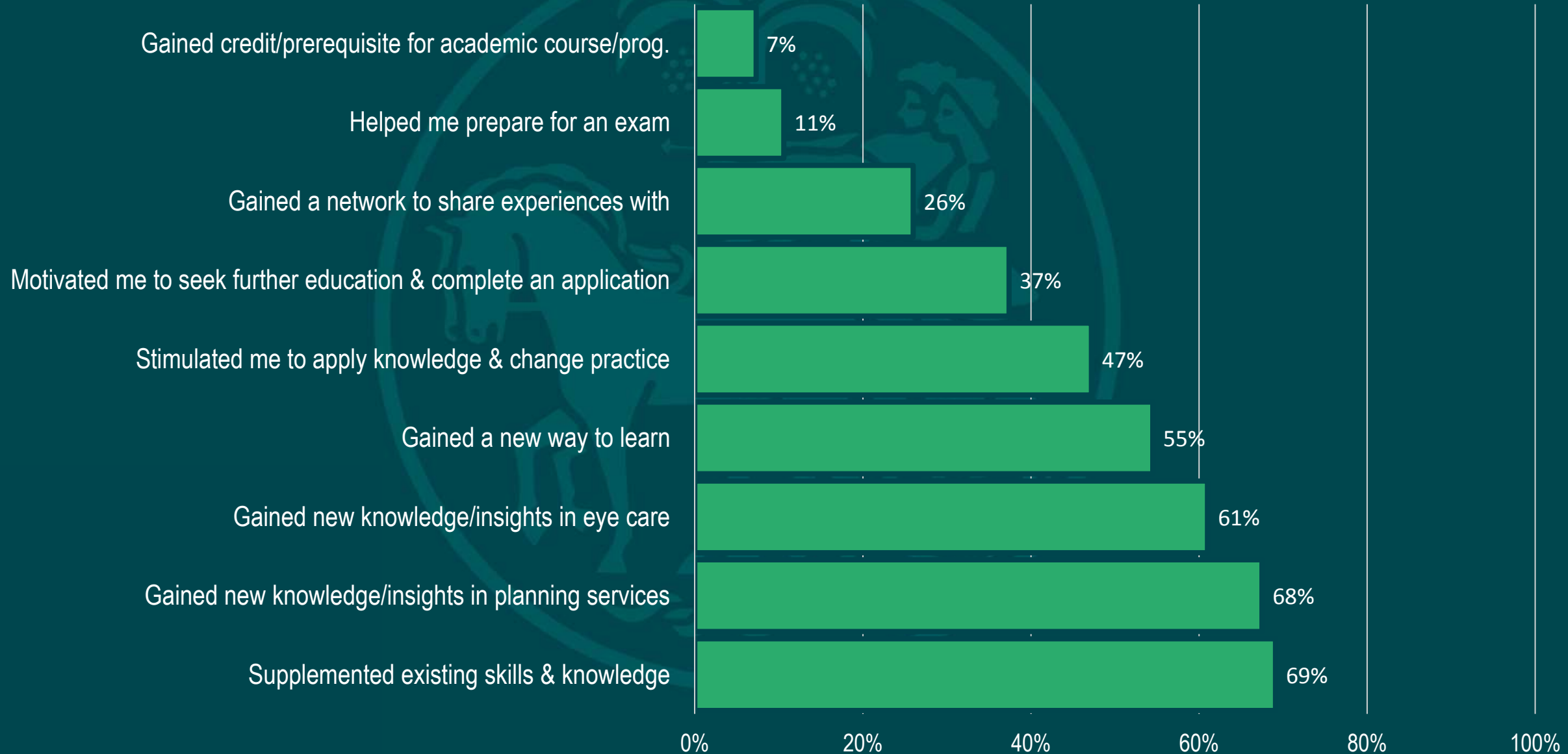
94% working in eye care & 82% living in LMICs (n=139)

- Had participation led to career or educational benefits?
- Had the OER been used to support further teaching and learning?
- What impact had the course have on their practice as health providers, within the constraints of their health system?





# 88% reported educational benefit



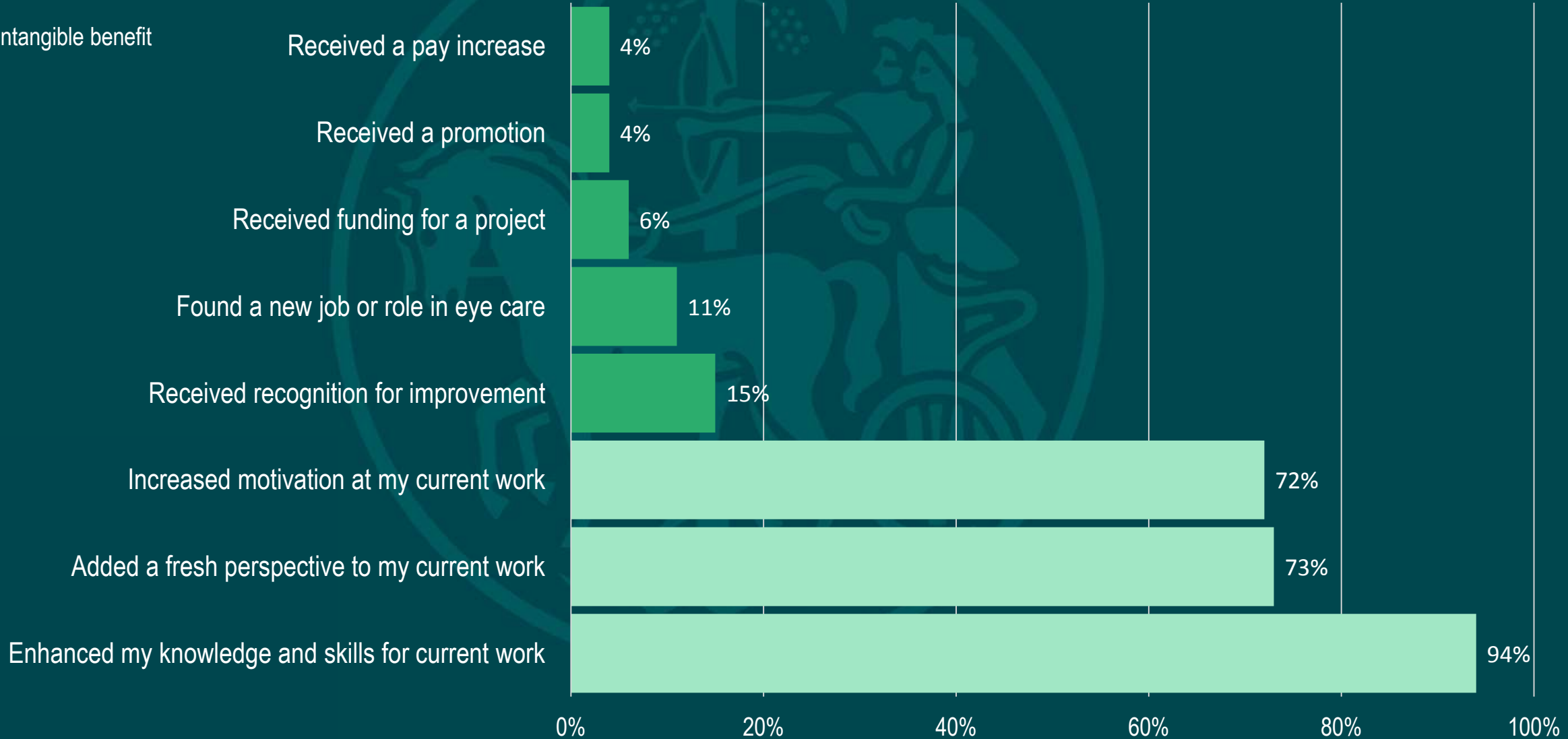
# 72% reported career benefit



Tangible benefit

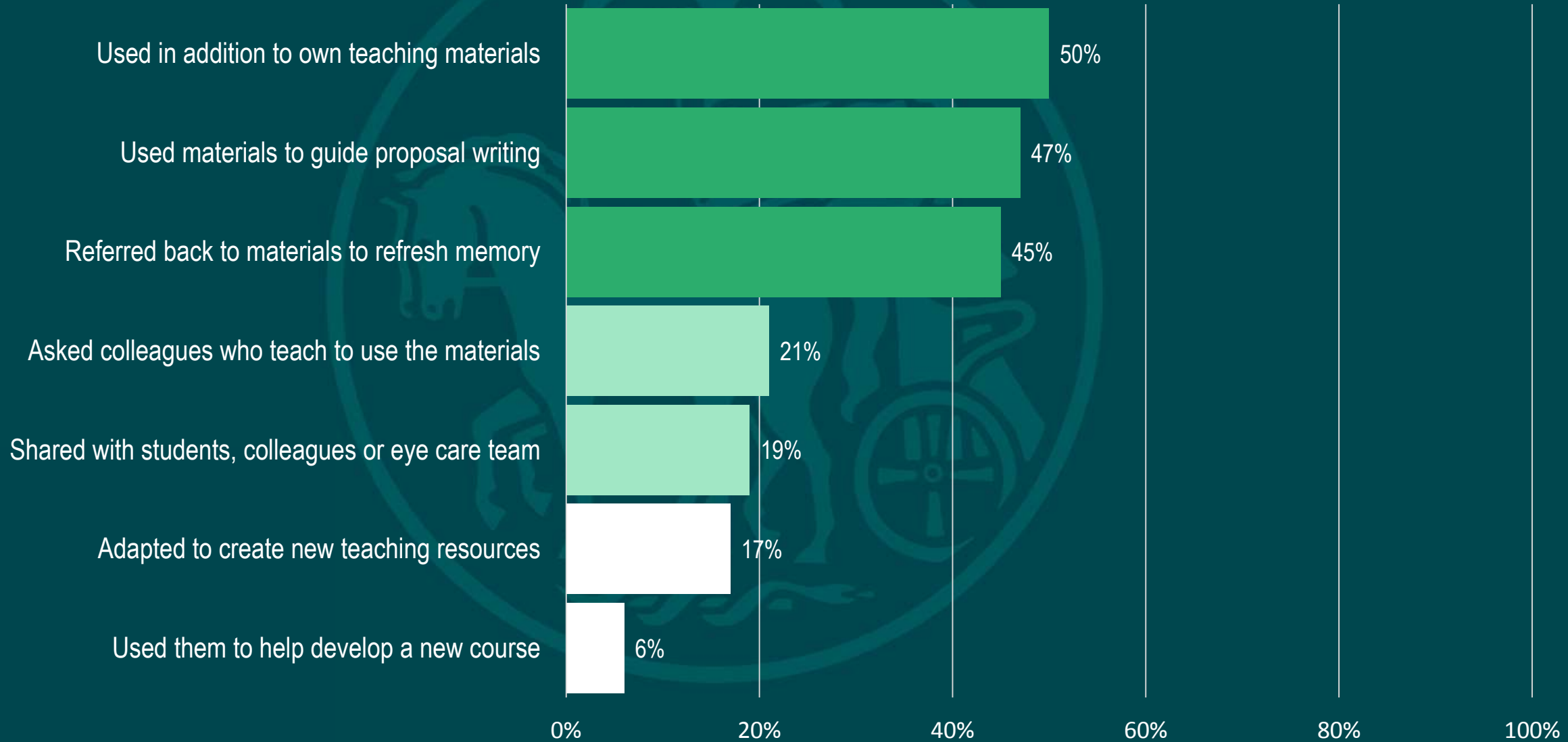


Intangible benefit



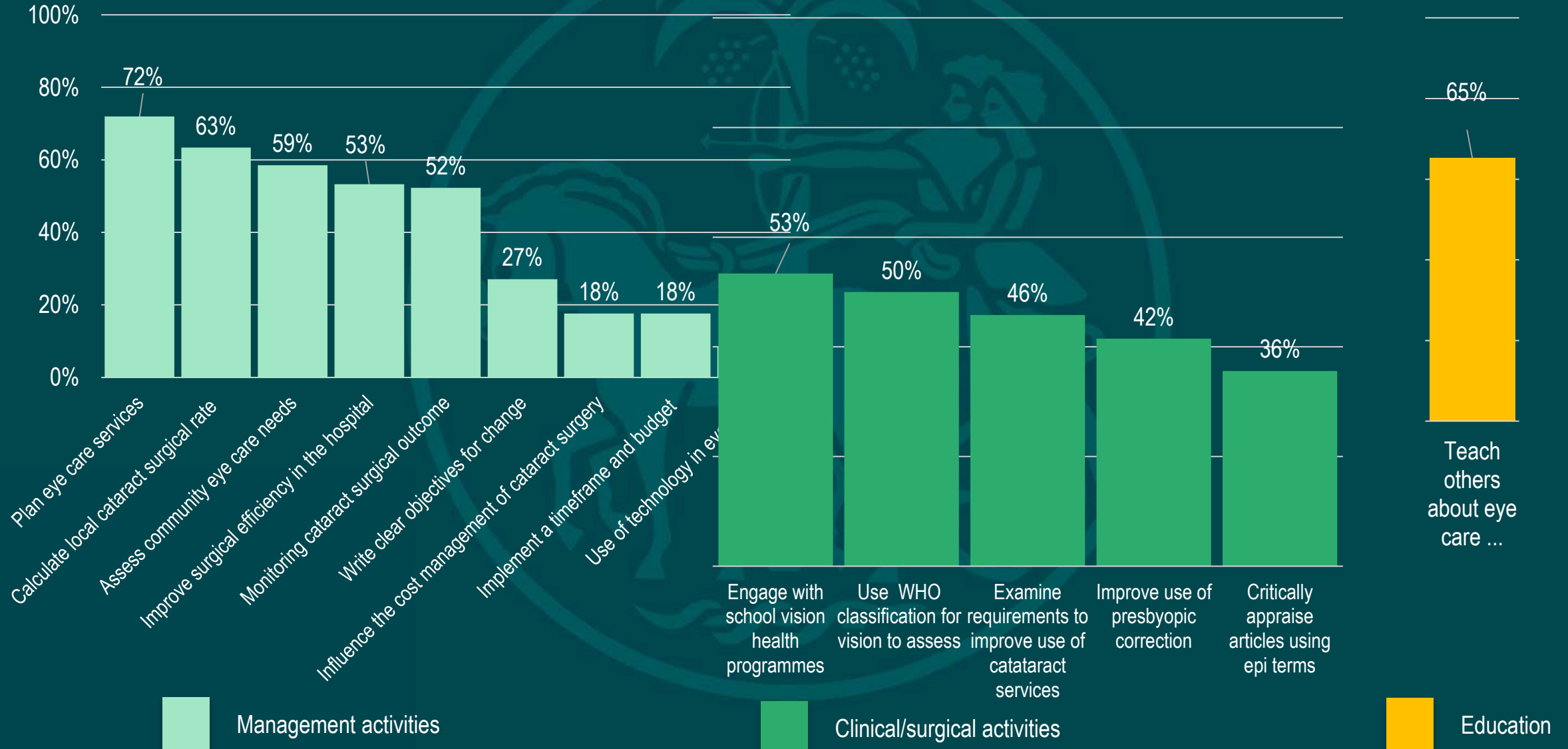


# 70% reported re-use of materials



# 85% had applied their learning

## - 75% had experienced challenges





# 61% gave a final comment

- “To me it was, **a real refresher course**, being one of the first graduates of the MSc course in 1994 and **not having an opportunity or time to go for a refresher program**. Useful. Need more of this” *Ghana*
- “I loved the forum and the discussions. The quizzes in the middle were a big help. **Because of the course I am able to properly plan and structure an ideal eye unit ...**” *Kenya*
- “We deal mostly with low income group and their issues are almost same as I studied in course. **The course motivated me for community eye health care awareness and we started working with schools to give them bases awareness, early eye screening.**” *Pakistan*

# In summary

- The course had **widened participation** in public health eye care education by reaching a range of eye health professionals across many countries, especially in LMICs
- Learning **was applicable** at the local level
- OER content did support **further teaching and learning** at the local level

## Limitations:

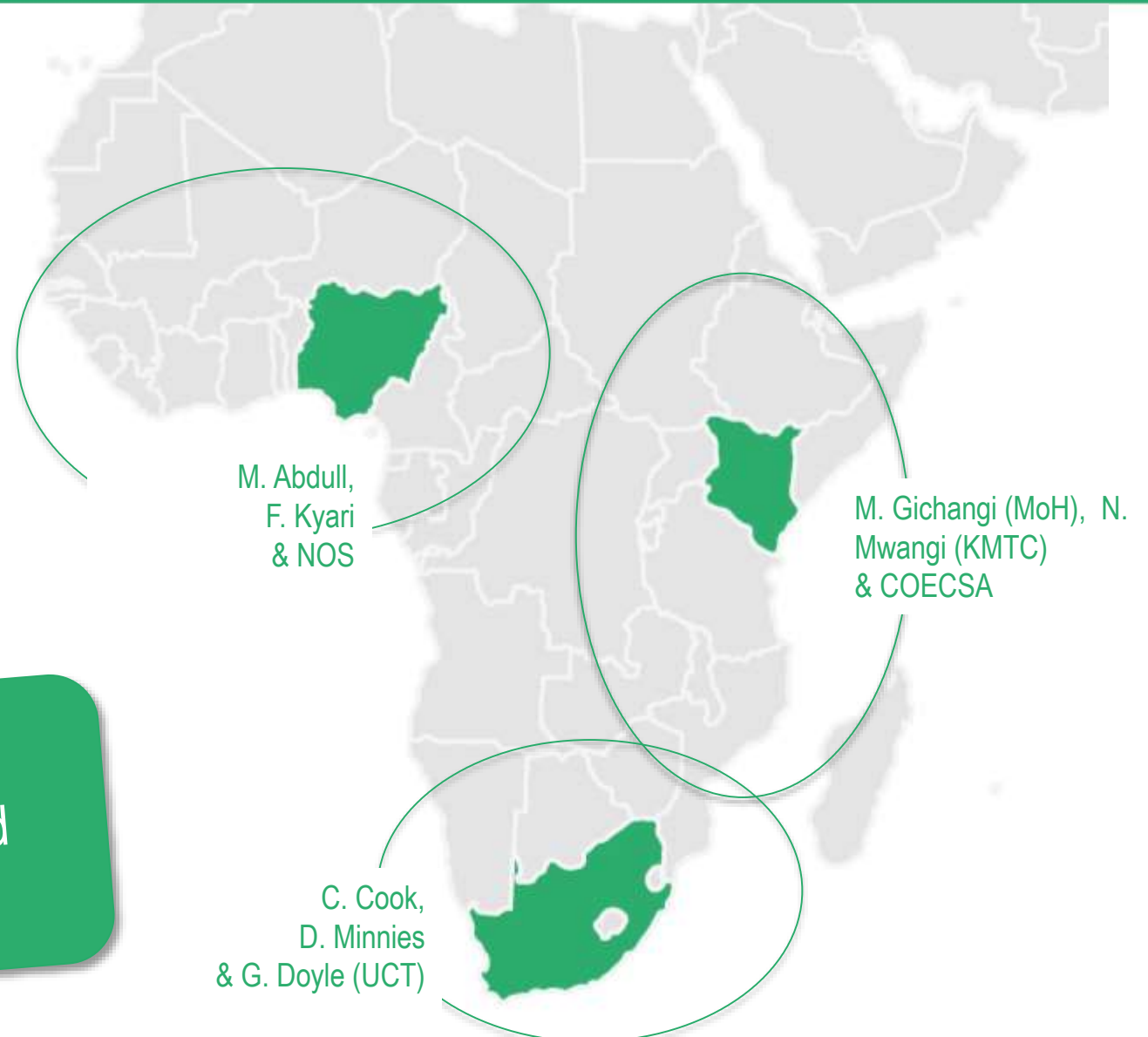
- Self-selecting group of respondents
- Unable to link respondents with course data sets
- Questions listed potential pre-identified benefits for individuals



# Further activity and 'stories' of impact

- New project with 3 partners localising the MOOC/OER
- More case studies from health workers, educators and institutions
- Influencing the LSHTM MSc PHEC

Impacts are  
complex and  
emergent



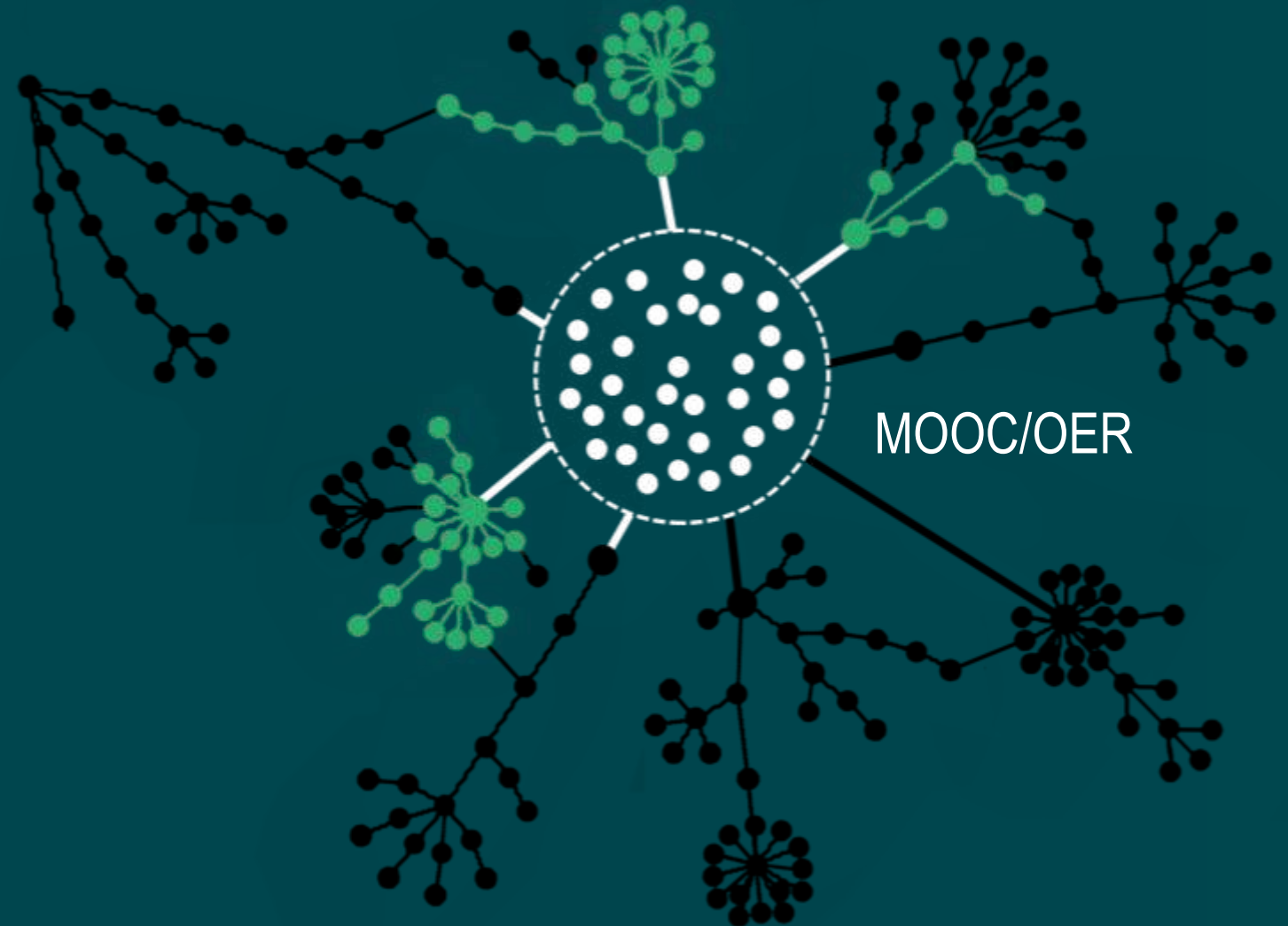
# MOOC/OER: Constraints and enablers

- Lack of coverage or value creation
- Equity and inclusion considerations (Hodgkinson-Williams & Arinto, 2017)



OER Adoption Pyramid  
(Trotter & Cox, 2016)

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# The value creation framework (VCF)

Capturing “the learning enabled by community involvement and networking” (Wenger et al., 2011)

		Indicators				
		Cycle 1. Immediate value	Cycle 2. Potential value	Cycle 3. Applied value	Cycle 4. Realized value	Cycle 5. Reframing value
Stakeholders	Health worker or educator	Levels of access, activity, participation, connections & interactions with people/resources	Information received Skills acquired Change in perspective Inspiration Confidence	Implementation of advice & solutions Reuse of products and tools Use of social connections	Personal performance Organisational performance & reputation Knowledge products as performance	Community aspirations Assessment Relationships with stakeholders Institutional changes New frameworks
	Manager	Value and quality of above	Types and intensity of social relationships	New processes or policies Innovation in practice Transferring learning practices		
	Planner / policymaker	Meta conversations about the network				
	Sponsor					



# Global Blindness MOOC/OER VCF: Examples

Cycle 1. Immediate value	Cycle 2. Potential value	Cycle 3. Applied value	Cycle 4. Realized value	Cycle 5. Reframing value
<p>Data on access, participation &amp; relevance of interactions (A)</p> <p>“The training was very valuable and cross sharing of vast experiences so enriching.” (A)</p> <p>“Access to quality CPD is limited and costly. This method allows study outside of the working day and without cost” (C)</p> <p>Activity during the 3 course localisation projects (D)</p>	<p>“I can now [...] start planning the delivery and evaluation of outreach programme” (A)</p> <p>“Good teaching materials to disseminate the knowledge to others to adopt” (A)</p> <p>Intend to pursue my interest in this subject by engaging with my national prevention of blindness committee (B, 55%)</p> <p>“I am able to properly plan and structure an ideal eye unit.” (C)</p>	<p>“Global Blindness course has really help me a lot to run Vision 2020 Program” (C)</p> <p>Shared the OER (C, 47%)</p> <p>“The course helped me to participate well in other futurelearn courses.” (C)</p> <p>Outputs of the 3 course localisation projects (D)</p> <p>Using content to teach outreach team (E)</p> <p>I applied to the LSHTM as a research fellow (E)</p>	<p>Received recognition for improvement (C, 15%)</p> <p>“Increase in CSR in 3 remote districts in Kenya” (D)</p>	<p>“... am writing a proposal that will enable us do screening of university students before start of next academic year.” (C)</p> <p>“started working with schools to give them bases awareness, eye screening” (D)</p> <p>Developing an OER (D)</p>

Using VCF to develop quant & qual instruments for assessing impact

Data sources: (A) Datasets from FL for run 1 (B) GB1 post course survey (C) 1 year later online survey  
(D) Stories shared by localising partners (E) Other informal stories shared with the LSHTM MOOC/OER team

# In summary

- Follow up online surveys can highlight if a MOOC/OER is helping to bridge a known training gap.
- Now developing mixed methods approach to gain further insight into cycles of value creation, + constraints and enablers, for all stakeholders in our global health MOOCs/OER.

	Cycle 1	Cycle 2	Cycle 3	Cycle 4	Cycle 5
Health worker					
Manager					
Planner / policymaker					
Sponsor					
Constraints and enablers (agential, cultural & structural) (Cox & Trotter, 2017)					

# Thank-you



Find out more

<https://ICEH.lshtm.ac.uk/oer>

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