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The malaria capacity strengthening landscape

RBM VCWG-14 meeting, January 30-February 1, 2019 Geneva

Following years of fruitful collaboration, Swiss TPH was designated **WHO Collaborating Centre for Modelling, Monitoring and Training for Malaria Control and Elimination** in March 2017. Activities focusing on:

1. Modeling of malaria epidemiology
2. Molecular monitoring of malaria interventions and control programmes; innovation and validation of diagnostic techniques
3. Teaching and training in the field of malaria epidemiology, control and elimination
 - I. *Develop tools for (a) mapping of training institutions in malaria endemic countries and the training conducted in relation to malaria control and elimination, (b) training needs assessment at national and sub-national level, (c) assessing the type and quality of regional, national and subnational training in malaria control and elimination.*
 - II. *Support the development of GMP's global strategy for human resource capacity development in support of accelerating progress toward malaria elimination.*
 - III.

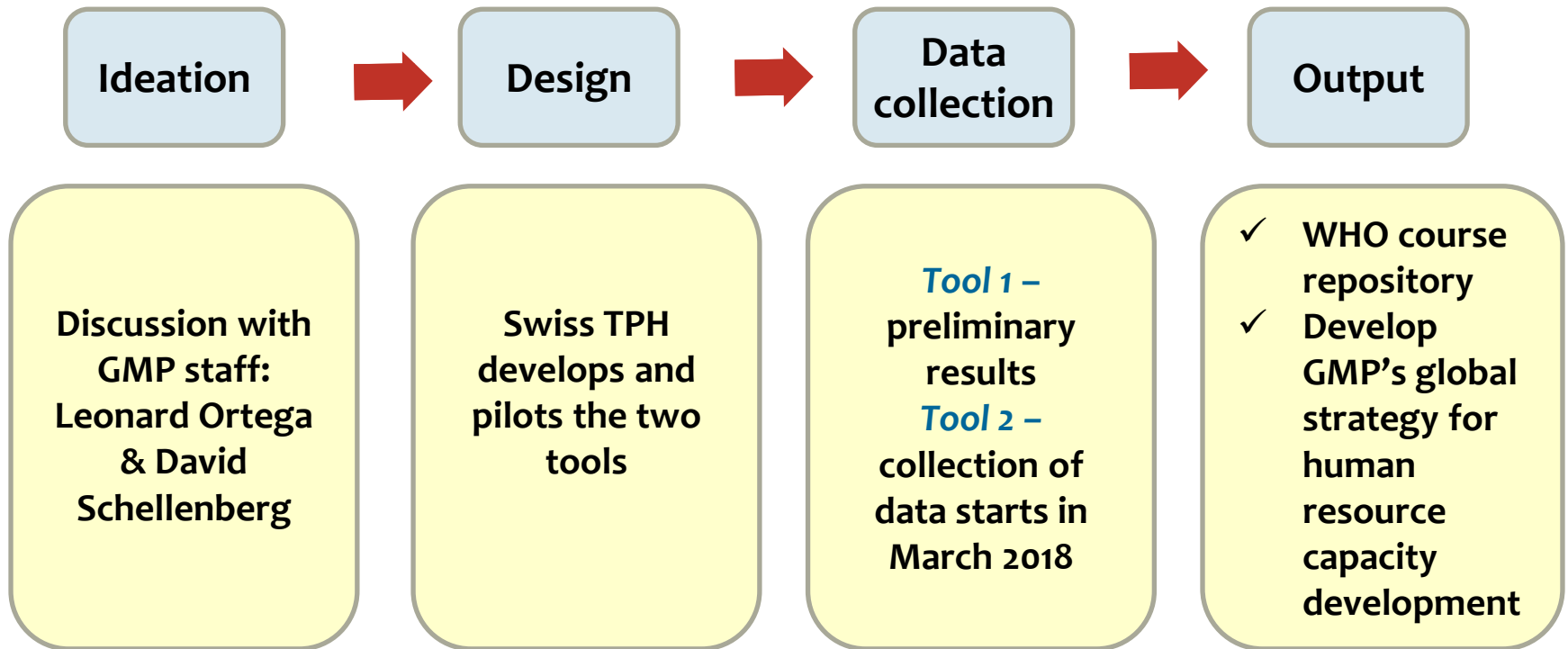


What's the current landscape?

*Where are the gaps linked to the training needs?
How can we evaluate the quality of the trainings?*

Who needs additional training to perform his/her tasks?

*Who will design/perform the desired training(s)?
How these trainings will look like?
When the training(s) should be planned?*



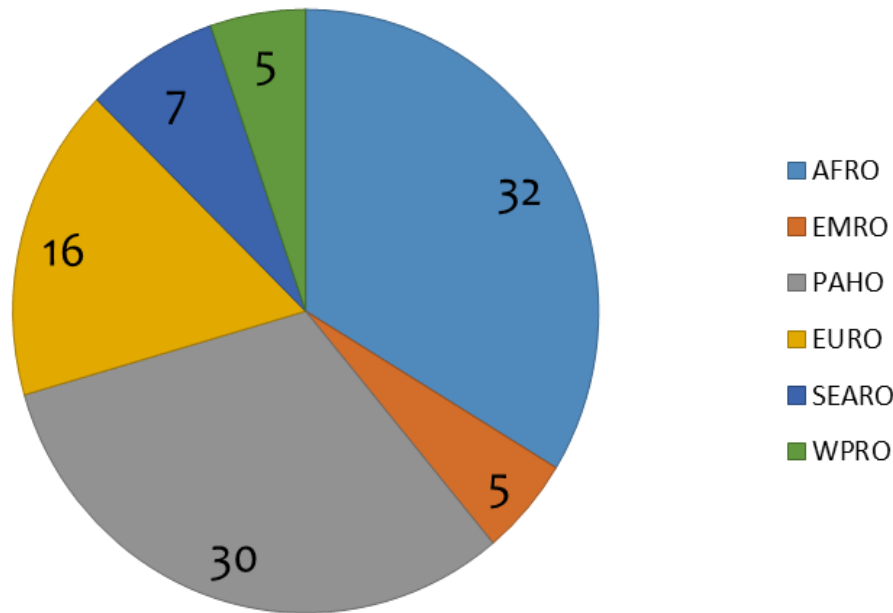


- Search for short courses to PhD programmes provided by Ministries, WHO, Academia or NGOs.
 - Web-based*
 - keywords
 - Institutions' websites**
 - Direct communication with malaria experts
- 4 languages (English, French, Spanish, Portuguese).
- 20 training hours in malaria minimum (based on in-depth courses examples).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q		
	Number	Region	Country	Title	Training Category	Institution	Institution Category	Address	Link	Format	Language	Description	Date	Duration	Frequency	Level	Target Group	Number of participants	
1								Donaciones y comisiones Av. Vélez Sarsfield 553 (1281) Buenos Aires, Argentina. Teléfono / Fax: (011) 4301 7437 E-mail: parasitologia@anlis.gov	http://www.anlis.gov.ar	In-person only	Spanish	Overview Malaria (diagnostic - parasite morphology)	5-Jan-16						
2	1	PAHQ	Argentina	Curso de Paludismo	General	Instituto Nacional de Enfermedades Infecciosas	Academia												
3	2	PAHQ	Argentina	Curso Intensivo de diagnóstico de paludismo	Diagnosis	Universidad Autónoma de Tucumán	Academia		http://www.unt.edu.ar	In-person only	Spanish	Actualize and strengthen diagnostic knowledge from HCP team in misiones province, regional edition of the Science of Eradication: Malaria course. Hosted by the University of São Paulo's School of Public Health, this training and leadership development course will provide a multidisciplinary perspective on malaria disease eradication.	12-Dec-12	4 days					
4	3	PAHQ	Brazil	Science of Eradication - Brazil	Planning	University of São Paulo	Academia	Brazil School of Public Health João Yunes Auditorium	http://scier.org	In-person only	English								
5	4	PAHQ	Brazil	Curso básico a distancia sobre paludismo	General	CETES (Centro de Tecnologia em Saúde)	Academia		nural@medicina.ufmg.br	Online only	Spanish		13-Apr-14	3 months	Once	Postgraduate	Health Care Provider	N/A	
6	5	PAHQ	Canada	Ateliers de diagnostic laboratoire de malaria	Basic research	McGill University	Academia	McGill University Health Centre Glen Site 1001 Décarie Blvd. Montreal, QC H4A 3J1 hem-medicrod@gh.mcgill.ca	https://www.gh.mcgill.ca	In-person only	French	Curso teórico de análisis crítico de la epidemiología de la							

*Google, Yahoo, Bing

** Institutions' websites offering courses and degrees in the area of biology, public health or epidemiology

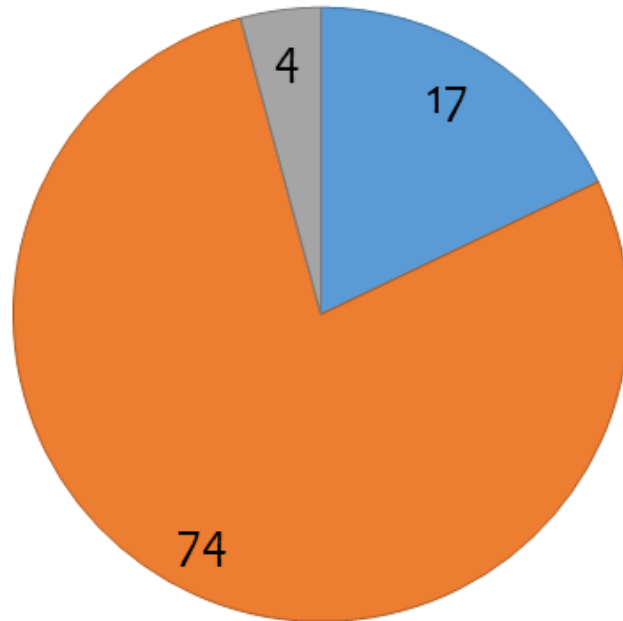


Number of courses per WHO region

95 courses

➤ Majority of courses are taking place in AFRO and PAHO, followed by EURO.

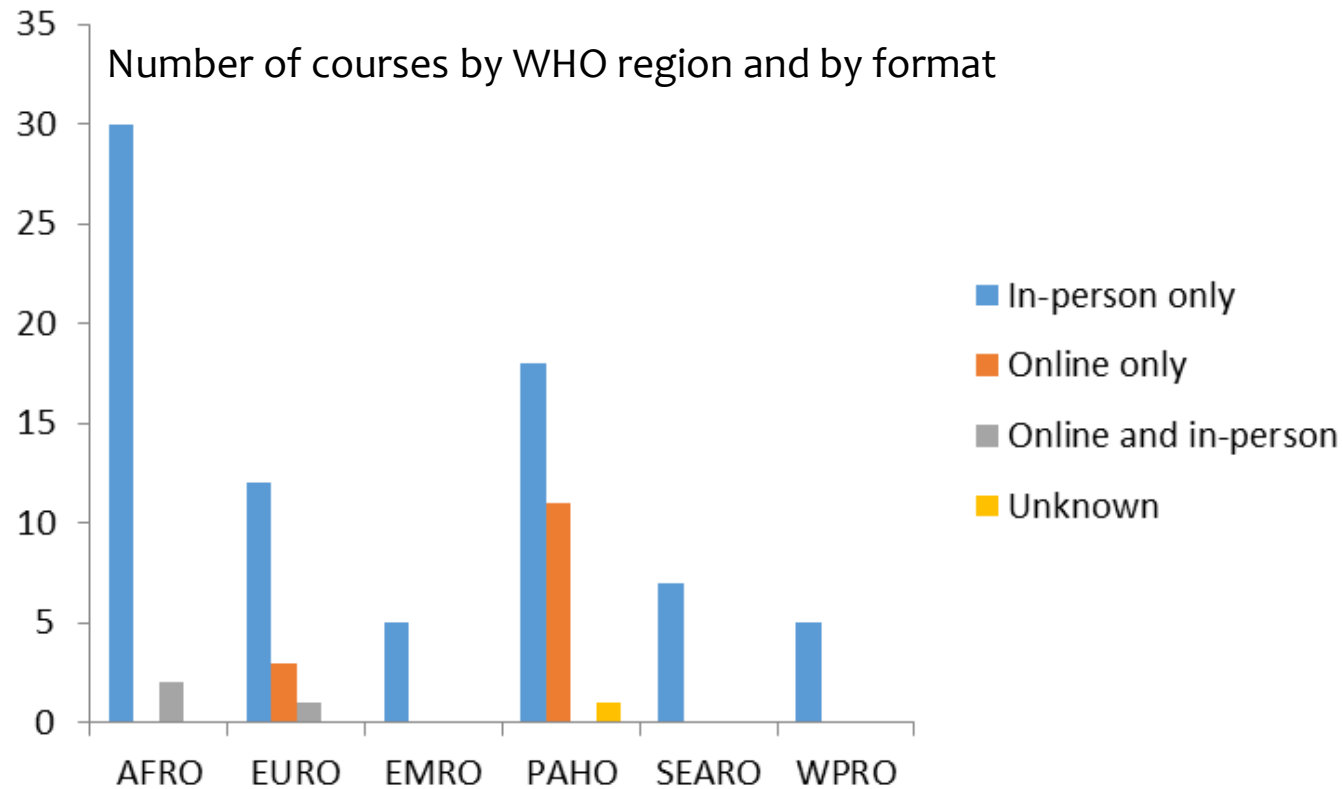
AFRO: Benin (1), Burkina Faso (1), Ethiopia (2), Ghana (3), Kenya (2), Malawi (1), Mali (1), Tanzania (2), South Africa (13), Uganda (5), rotating course (1).
EURO: Georgia (1), Germany (1), Italy (1), Portugal (1), Spain (3), Sweden (1), Switzerland (2), UK (6).
EMRO: Sudan (3), Tunisia (1), rotating course (1).
PAHO: Argentina (2), Brazil (2), Canada (1), Colombia (1), Cuba (3), Mexico (6), Peru (1), Suriname (1), USA (13).
SEARO: India (4), Myanmar (1), Thailand (2).
WPRO: Australia (1), China (1), Lao (1), Philippines (2).



Number of courses by language

- Spanish
- English
- French

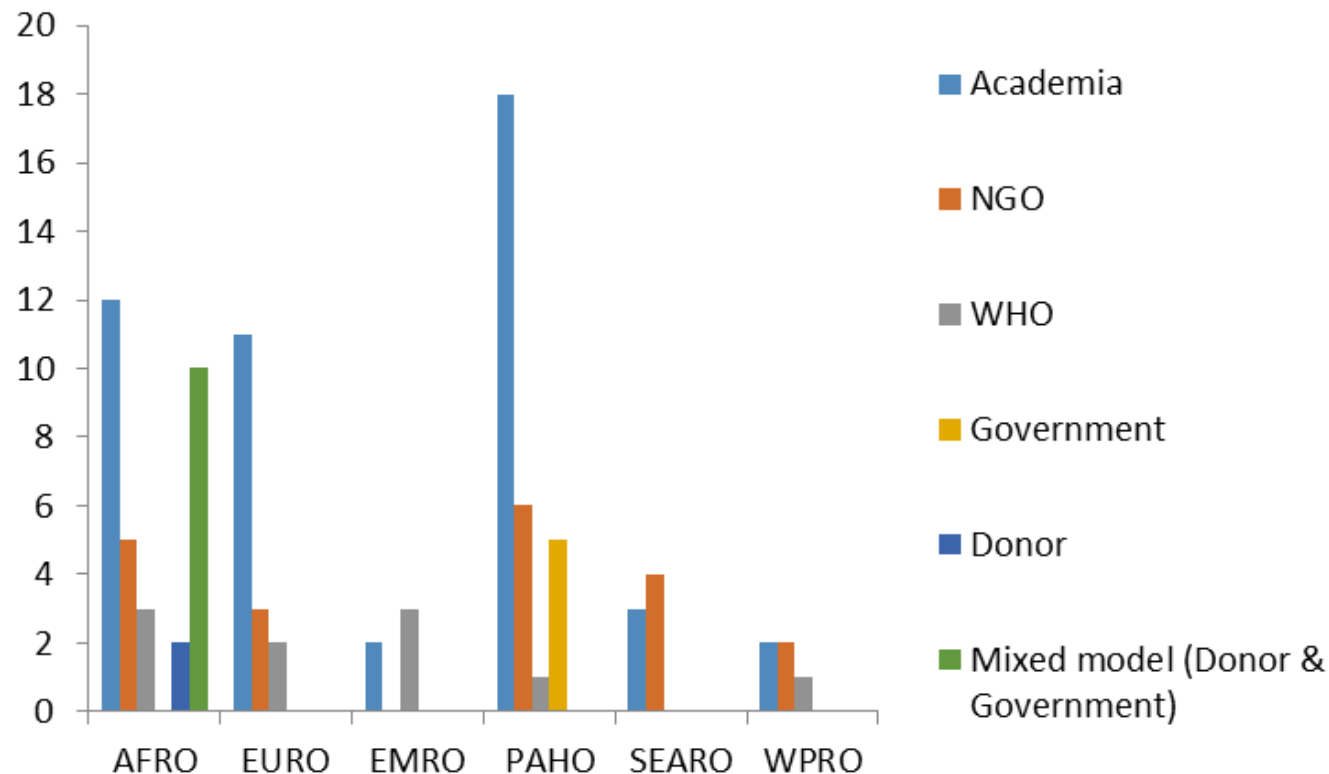
- The majority of courses (~78%) offered in English.
- No courses found in Portuguese.



- 2/3 of the courses taught in-person.
- Online courses are uncommon. MOOCs seem to be on the rise.
- Mixed courses (in-person and online) are available.



Distribution of training actors by WHO region




- Academia is the leading actor offering malaria-related training.
- The Regions have different approaches.
- Mixed models are also available.



Limitations of the **web-based search**

- Lack of online information.
- Many courses offered on-demand and they are donors'-driven.
- Several are not advertised widely.
- Different languages (Chinese websites etc).
 - ✓ 79 courses

Additional opportunities for data collection

- **Direct communication** with malaria experts attended high-level WHO meetings in mid-December 2017 and their networks.
 - ✓ 16 additional courses found  **95 courses**
 - ✓ Private sector?

Ongoing!



What's the required level of malaria knowledge for key positions working at all levels of the Malaria Programme?

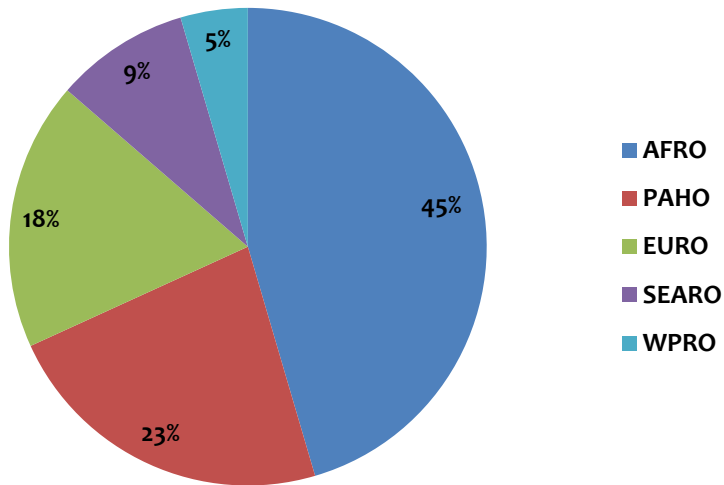
- **User-friendly** (excel) and **comprehensive design** (introduction & instructions tab, drop down menus, multiple choice).
- **Pilot study for the design** with 21 malaria experts attended high-level WHO meetings in mid-December 2017.

	A	B	C	D	E	F	G
	Key position of Health Staff with responsibilities in the Malaria Programme (drop-down menu)	Main functions / tasks of the key position selected in column A (drop-down menu multiple choice)	In general terms, what is the minimum educational requirement for the key position selected in column A (drop-down menu)	Hard skills for key position selected in column A (drop-down menu multiple choice)	Training related to malaria attended in the last 2 years by Person/ People currently in post (fill in)	Transferable skills for key position selected in column A (drop-down menu multiple choice)	Additional Information
1							
2							
3							
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8							
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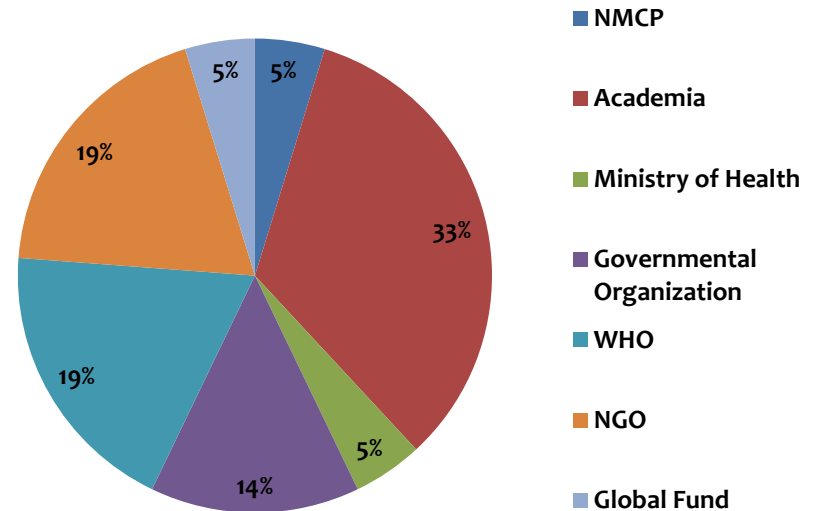


Profile of the 21 malaria experts

WHO Regions



Organizations





Four levels of the Health System: National, Regional, District and Health Centre

Seven fields:

- Key position of Health Staff with responsibilities in the Malaria Programme.
- Main functions / tasks.
- Minimum educational requirement.
- Hard skills.
- Training related to malaria attended in the last 2 years by Person/ People currently in post.
- Transferable skills.
- Additional information.

	A	B	C	D	E	F	G
1	Key position of Health Staff with responsibilities in the Malaria Programme (drop-down menu)	Main functions / tasks of the key position selected in column A (drop-down menu multiple choice)	In general terms, what is the minimum educational requirement for the key position selected in column A (drop-down menu)	Hard skills for key position selected in column A (drop-down menu multiple choice)	Training related to malaria attended in the last 2 years by Person/ People currently in post (fill in)	Transferable skills for key position selected in column A (drop-down menu multiple choice)	Additional Information
2	Entomologist	Entomology	Master Degree	Entomology , Insecticide Resistance Monitoring	Insect Genome Editing	Problem-solving Skills, Training / Coaching Skills	
3						Advocacy Skills	
4						Behavioral Change Communication	
5						Case Investigation	
6						Communication Skills	
7						Computer Skills	
8						Development of SOPs	
9						Management and Administrative Sk	
10						Negotiating Skills	



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Tool 1

- ❖ Inclusion of private sector.
- ❖ Publicly available report.
- ❖ Online WHO repository with the offered courses.
- ❖ Dissemination of information.
- ❖ Maintenance.

Tool 2

- ❖ Translate in French and Spanish.
- ❖ Test in high and low endemic countries.
- ❖ Data collection via National Malaria Control Programmes.
- ❖ Report.

Planned workshop in May (Rwanda)

Ideas and inputs are highly appreciated

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