



Capacity Building in Biorisk Management in Vietnam (2017 – 2023)



Strengthening Global Health Security:

The Role of Professional Biosafety Associations



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USAID
FROM THE AMERICAN PEOPLE

OneHealth
WORKFORCE



VIETNAM ONE HEALTH UNIVERSITY NETWORK

Established in
2011



27
Member
Universities



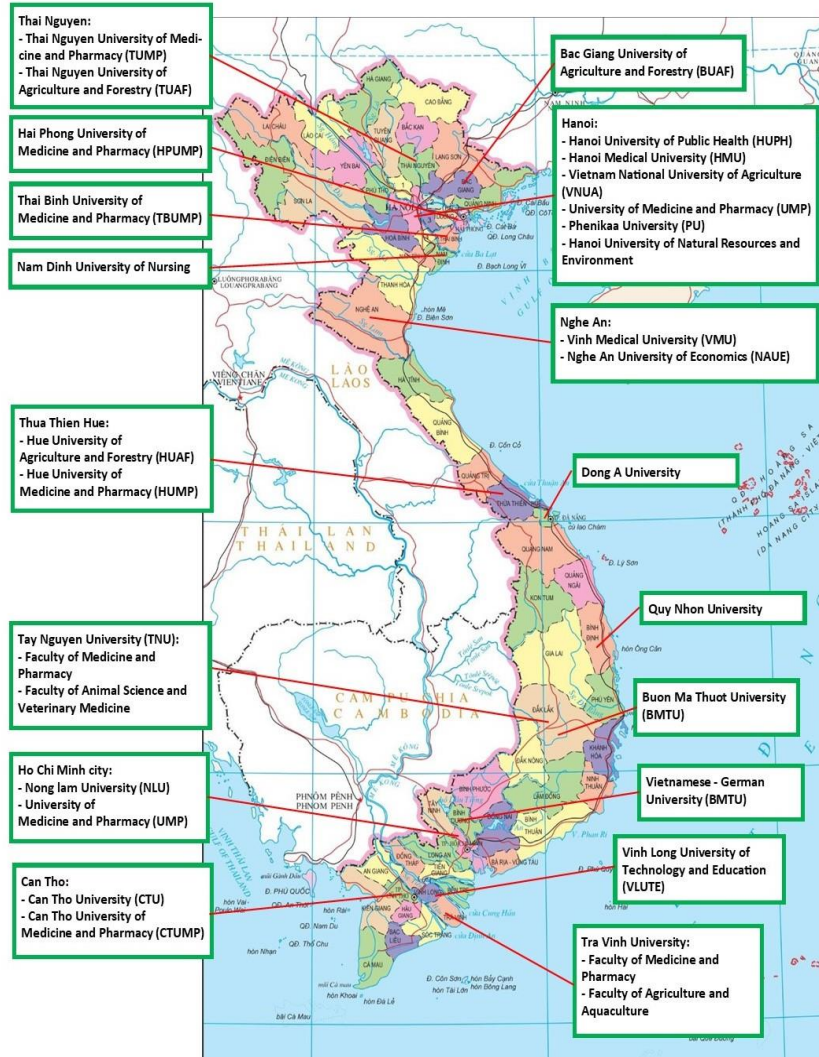
33
Faculties

Vision

To promote the OH approach through university training & research and to inspire a new generation of lecturers & researchers equipped with a full range of knowledge & skills to practice the transdisciplinary approach.

Mission

To leverage the strengths of Vietnam's Universities to build an OHW with the knowledge, skills, & attitudes to prevent emerging and re-emerging infectious diseases, AMR, Food Safety





Our Impact



27
Member
Universities



33
Faculty



506
Lecturers Trained in
One Health Topics



2,317
Human Health and
Animal Health
Professionals Trained
in One Health Topics



62,500
Students Trained in
One Health Topics



35
One Health Modules
Developed



19
One Health
Student Clubs
Established



12
One Health Field
Sites Established



1,047
Participants in
One Health
Student Clubs



103
Master's Student
graduated



VOHUN ALIGNING WITH THE GLOBAL HEALTH SECURITY AGENDA

Biosafety and Biosecurity

Strengthen the One Health Workforce on BRM

- ✓ by engaging with in service institutions such as:
 - ✓ **GDPM**
 - ✓ **DAH**
 - ✓ **NIHE,**
 - ✓ **PIs**
 - ✓ **RAHOs**
 - ✓ **VMMU**
- ✓ identify dangerous pathogens, Address Pandemics, Outbreak in Effectively

Laboratory Systems

Develop a One Health BRM Laboratory Network

- ✓ that links human and animal health, meets international standards, and
- ✓ establishes best practices of care.

Workforce Development

Develop an effective One Health Workforce

- ✓ be able to prevent, detect, and respond to emerging and re-emerging infectious disease threats that includes both human and animal health workers
- ✓ develop **Student Outbreak Response Teams (SORT)** to establish national security and stability



Orientation of BRM in Vietnam



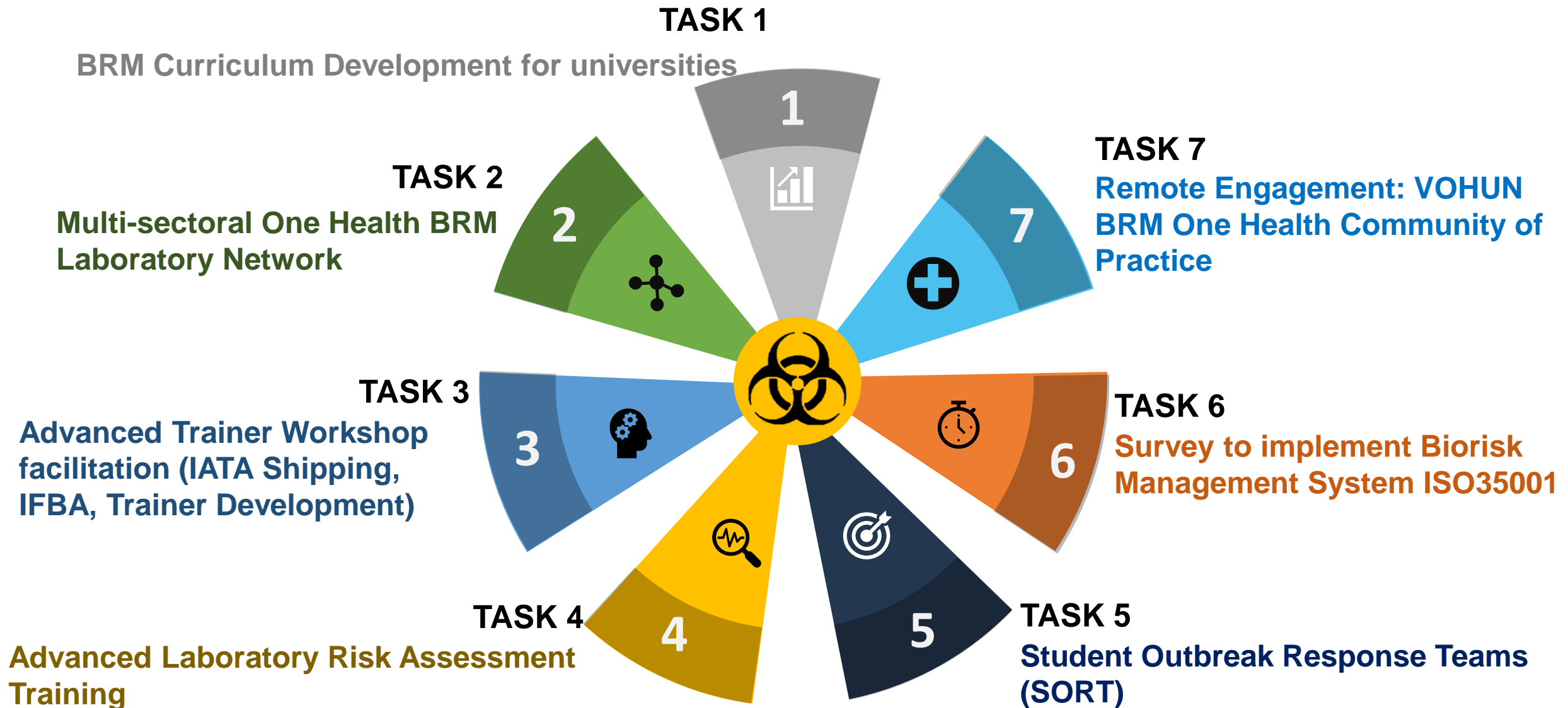
Develop & strengthen a OH BRM Laboratory Network



Enhance to create mandatory BRM courses in universities



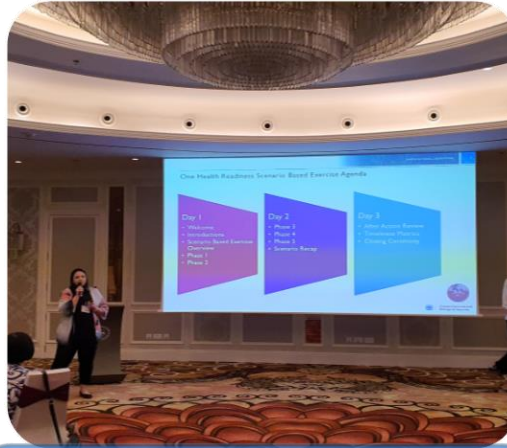
Develop an effective workforce in BRM meeting international standards





Phase 1 (2020-2021)

- 3 workshops
- 4 ToT courses
- 2 SORT teams
- 9 IFBA certified professionals



Phase 2 (2021-2022)

- 3 workshops
- 4 ToT courses
- 4 training courses
- 1 CME program
- 12 IFBA certified professionals



Phase 3 (2022-2023)

- 4 ToT courses
- 4 training courses
- 2 BRM courses integrated into training program
- 2 SORT teams
- 20 IFBA certified professionals

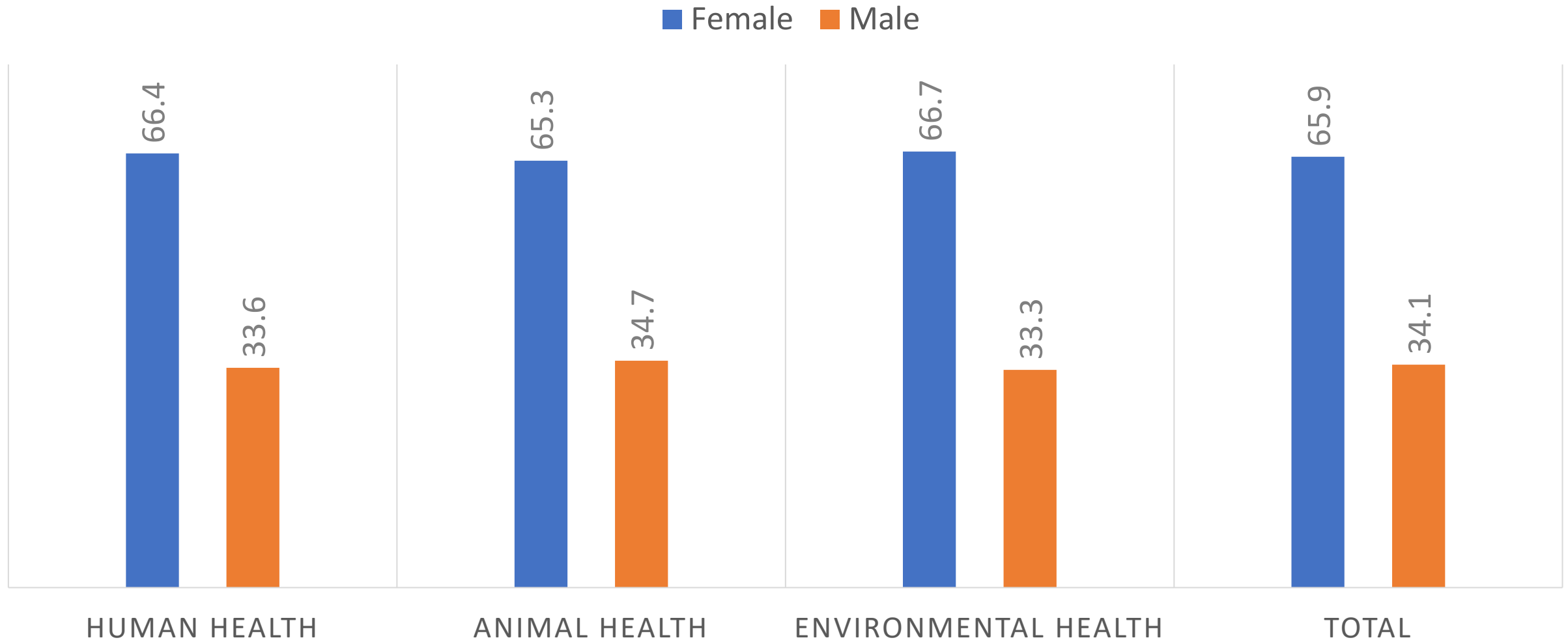


Numbers of Staff has trained in BRM (2017-2023)

	Training course	Human health		Animal health		Environment		Total
		n	%	n	%	n	%	
1	BRM Curriculum Development	21	34.4	40	65.6	0	0.0	61
2	ISO 35001	64	49.2	55	42.3	11	8.5	130
3	IATA Shipping & Waste Management	21	48.8	20	46.5	2	4.7	43
4	IFBA training courses	35	53.0	28	42.4	3	4.5	66
4	IFBA Certified Professionals	28	63.6	15	34.1	1	2.3	44
5	BRM Trainer Development Program	27	73.0	10	27.0	0	0.0	37
6	Tabletop Exercise	11	61.1	6	33.3	1	5.6	18
7	Timelines Metrics	13	65.0	6	30.0	1	5.0	20
8	Laboratory Risk Assessment	20	60.6	13	39.4	0	0.0	33
	Total	240		193		19		452



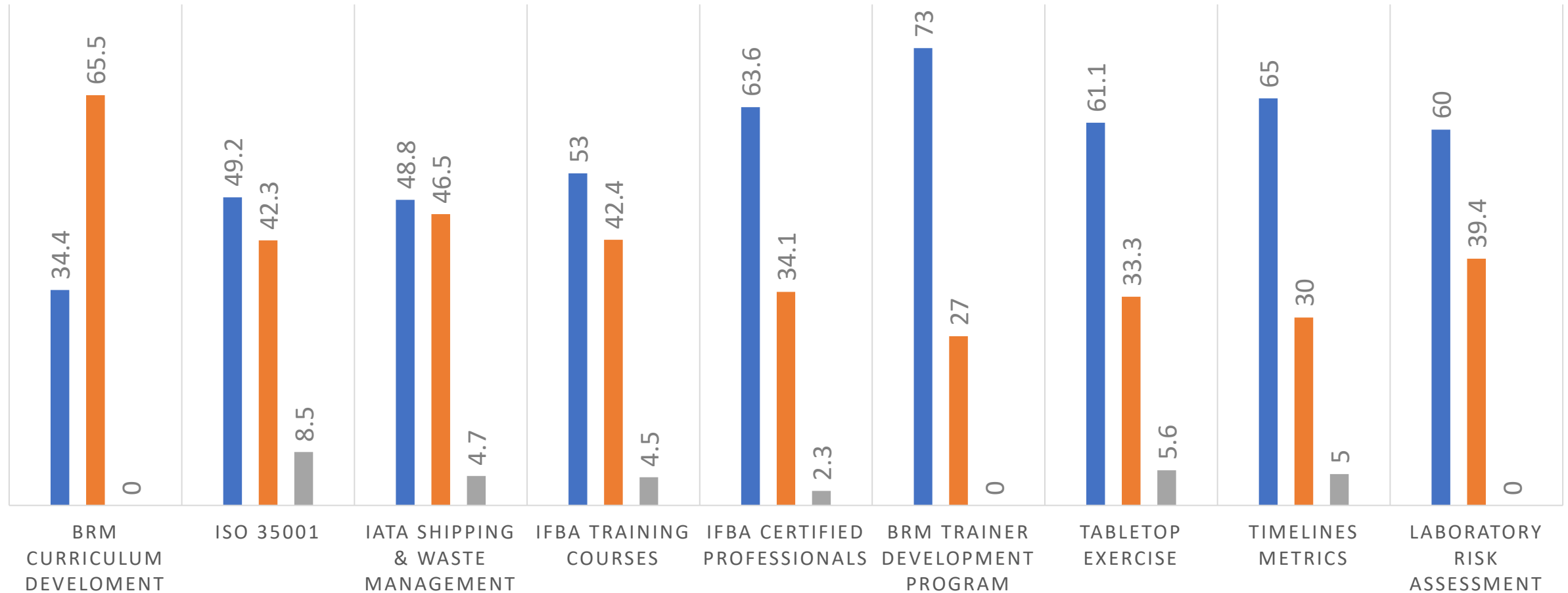
Gender staff has trained in BRM (2017-2023)





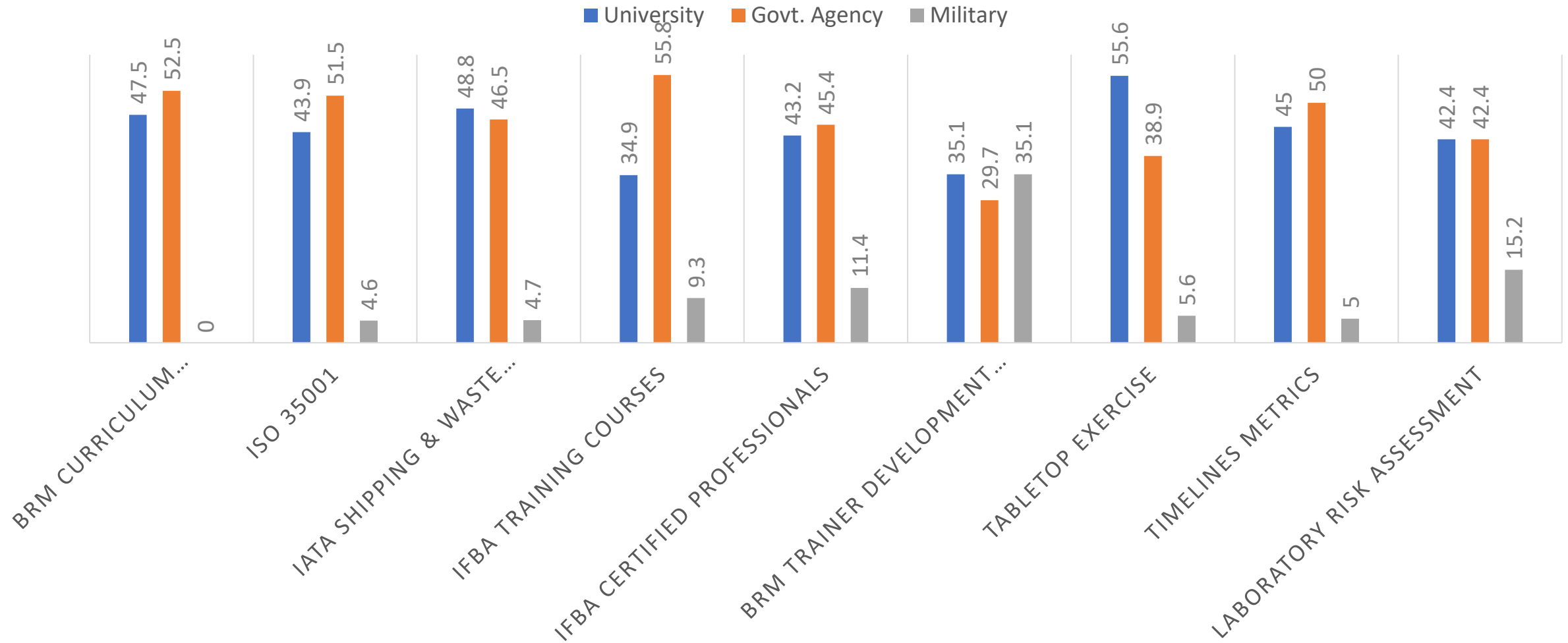
% Human health, Animal health & Environmental staff trained in BRM (2017-2023)

■ Human health ■ Animal health ■ Environment





% University, Governmental Agency, Military Staff trained in BRM (2017-2023)



Opportunities

1. Government direction about GHS (national laboratory systems, biosafety biosecurity, disease surveillance, workforce development); and aligned with IHR/JEE & PVS.
2. Biosafety & biosecurity getting more attention and there are many regulations for the system of laboratories, institutes, universities.
3. Well-collaborated with experienced experts from Govt. (GDPM, DAH, NIHE, PIs, RAHOs, etc.)
4. Support from University Scientific Committee, Faculty Leaders, Managers.
5. Support from DTRA, SNL, VOHUN: training materials, programs, methods, guidelines.
6. Lecturers were trained on BRM (Curriculum Development, ISO 35001, IFBA certificate, TDPs, IATA, Risk Assessment).

Challenges

1. Limited teaching hour requirement for new module / curriculum.
2. Separate lectures at different Dept/Faculties/Universities/Institutes.
3. Lack of teaching material development (case studies, practices).
4. Laboratory infrastructure, equipment for practices.
5. Complicated approval process at different levels: Training & Education Committees at the Faculty, University, Ministry.
6. BRM has not been considered as a priority issue.

Ways forward

1. Update & integrate ISO-35001 into the current CMEs biosafety courses. (to be advised by Bureau of Accreditation, MOST)
2. Develop & pilot implementation of CME on public health laboratory quality management system (QMS) included ISO-35001.
3. Expand CMEs on biosafety for current laboratory technicians, researchers.
4. Strengthen human resource (trainers) in training on BRM.
5. Establish core team on BRM at each university / training center.
6. Write textbook on biosafety & biosecurity for human health & animal health sectors based on SNL materials. *(to be referred the WHO Laboratory biosafety manual, 4th edition, 2022)*
7. Communicate & advocate: policy makers, govt. agencies, leaders, managers, educational professionals, scientific committee, etc.



THANK YOU VERY MUCH



BRM Curriculum Workshop - VOHUN
Hanoi - Vietnam, December 19-21, 2018

BIO RISK MANAGEMENT