Global Virome Project (GVP)

Steering Committee and Working Group Meeting
Beijing, China
6-7 February, 2017
Executive Summary

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Withheld pursuant to exemption

of the Freedom of Information and Privacy Act





Executive Summary

The Inaugural Global Virome Project Steering Committee and Working Group Meeting was held on 6-7th February 2017 in Beijing, China. This was the first global in-person meeting on the Global Virome Project (GVP) since the Bellagio Forum in August 2016. Since Bellagio, where 18 transitional steering committee (SC) members identified the goals and vision of the GVP, eleven working groups (WGs) have been formed in three thematic areas: Governance, Science & Technology, and Implementation.

The objectives of this meeting were three-fold: 1.) to report on working group, core group, and steering committee progress made since Bellagio, 2.) to discuss and seek feedback on evolving strategies related to governance, outreach, communication, resource mobilization, and stakeholder engagement, and 3.) to establish and strengthen relationships among working group chairs and the steering committee, identifying issues shared by different groups and planning further collaboration.

1. Progress made since Bellagio

Since May 2016, members of the GVP core group have met with 13 high-level individuals and 20 (philanthropic, academic, multilateral or governmental) organizations. They presented the GVP at 14 conferences or public fora. The Bellagio Initiative statement and briefing documents were published on a new website (globalviromental and a newsletter was created for regular distribution. A policy forum paper is under review in an academic journal, and members of the core group have been interviewed in the lay press. The GVP has also been discussed in the popular press.

Working group co-chairs were identified and invited, and each working group compiled and presented the key activities, challenges, and opportunities facing its group.

Several countries have shown significant interest in the GVP, and certain of those countries have been discussed as "countries of opportunity" for launching a first wave of the GVP. These countries include China, which hosted a meeting following this convening on the "China National Virome Project."

2. Governance, outreach, and communication strategies

The Global Virome Project is coordinated by a core group with representation from USAID, UC Davis, EcoHealth Alliance, and Metabiota. The core group, steering committee, and working group meetings have been partially funded by USAID, while participating working group cochairs and steering committee members from a host of additional organizations currently participate on a voluntary basis. As this structure is transitional, the long-term organizational structure of the GVP was discussed during the meeting, including the role of a possible Senior Advisory Board. Additionally, the group discussed possible efforts to augment input into the



core group, including tapping into the steering committee on a periodic basis (while taking into account practicalities around time zones, workloads, etc.), following the Beijing meeting. The creation of a freestanding NGO, with an international search for president, was discussed as a plausible governance framework for the long term functioning of the GVP. It was agreed that the GVP should not be a for-profit venture, and that the long-term composition of the overall effort should have diverse global representation.

The team discussed the need to break down the \$3.5 billion total price tag of the GVP into a "menu" of smaller projects. Different ways to break this down – by region, country, species, viral group, or category as well as specific technology contributions – each present their own challenge. Part of the modeling team's role will be to economically optimize a field sampling strategy based on biodiversity and accessibility, but local capacity and country-specific laws and protocols must be factored into the costs. Beginning in a "first wave" of countries may increase interest in the project and allow other countries to join and jointly fund the project after value has been demonstrated.

The GVP's scope and goals – particularly, how to communicate the boundaries and scope of such a broad-reaching project and how to ensure the GVP has public health impact beyond academic research – were discussed at length, and this feedback is being incorporated into the mission and vision statements.

3. Working group intersections and collaboration Withheld pursuant to exemption.

During the session when each of the working groups had short meetings each of the other working groups, areas of overlap were identified. "Sister" working groups – (e.g. metadata platform and data management) – committed to working together to achieve the most scientifically sound and feasible strategies for delivering on the GVP's goals were also identified.

established a May 1 goal for the first working group deliverables. It was agreed that generally, the strategic planning of the Science & Technology working groups should precede the tactical delivery of the Governance and Implementation working groups.

The way forward

All participants were called upon to present to their networks in upcoming conferences, meetings, and public fora, and the pitch deck and other explanatory materials will be shared with all participants. Many members of the steering committee expressed intereste in increasing their involvement, and were invited to reach out to the co-leads of working groups that interested them to join the budding working groups.

There was additionally a commitment to establishing an online hub where working group participants could communicate, upload files, jointly work on documents, and otherwise interact. Thematic leads were tasked with setting up a call schedule for their working groups and working with their groups to develop roadmaps.

The Global Virome Project

The Beginning of the End of the Pandemic Era GLOBAL VIROME PROJECT

Bellagio and Beyond

project has gone before Boldly going where no



GVP Organizational Chart

Core Group

Senior Advisory Group

Steering Committee

Science & Technology

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Implementation

General Management &
Partner Engagement
Communications &
Outreach

nt & Ethical, Legal, and Social Implications & Advisory/Partnerships

Modeling & Risk Analytics Lab Platform Metadata Platform

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Behavioral Risk

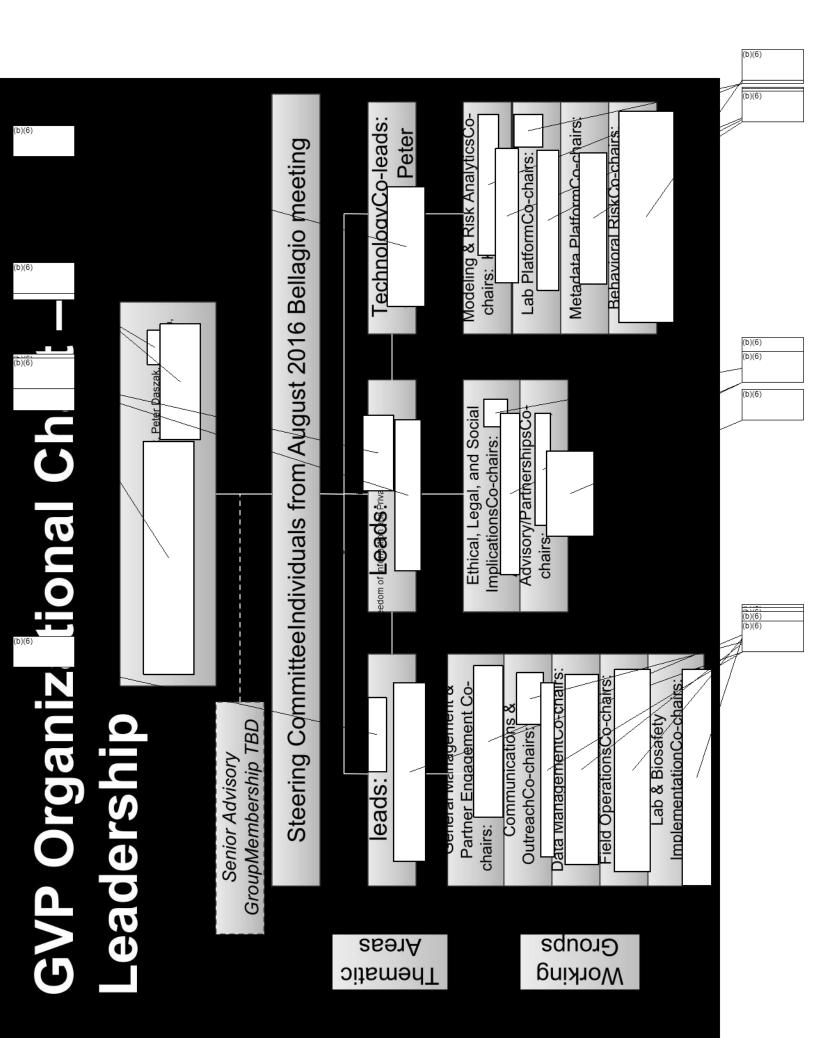
Working Groups

Data Management

Field Operations

Lab & Biosafety Implementation

Thematic Areas



GVP

imeline

Mtg.Aug. 2016 Bellagio

Beijing Mtg.Feb. 2017

LaunchLate 2017 Proposed

Phase 0

Page 137 of 767 Phase 1

- Identification of Thematic Area co-leads Public presentations for
- Identification of working group co-chairs and membership

1-on-1 meetings with

feedback

stakeholders

- Identification of Advisory **Board members**
- Identification of governance structure and funding strategy
 - refinement of messaging Continued outreach and

transitional Steering

Committee

Identification of

Group

Formation of Core

Development of tentative budget

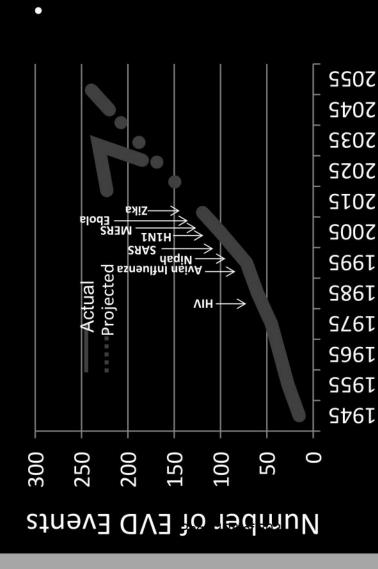
- Formal coordination structure in place
- Final agreement on overall **GVP** strategies
 - All implementation protocols finalized
- Begin work in First Wave Countries

GVP Yesterday, Today & Tomorrow

project has gone before Boldly going where no



The threat from novel viruses is increasing



~ 3 new Emerging Viral
Diseases (EVD) annually Driven
by population expansion (1.6
billion in 1900 to 11.5 billion
people in 2100) Increased
encroachment into wildlife
habitat is accelerating the
"spillover" of novel viral threats
from wildlife to humans



Source: Jones et al. (2008) Nature



We are not prepared



HIV, SARS, H1N1 Influenza, MERS, Ebola, Zika = examples of the futility of developing countermeasures AFTER emergenceTheir emergence and spread have outpaced our ability to develop new countermeasuresUrgent need to develop countermeasures in ADVANCE of emergence



The Global Virome Project



venture to characterize within ten years virtually will create a data rich field - enabling preventive all of the planet's threatening viruses The GVP development of countermeasures The GVP will (and ineffective) to one that is Proactive (and transform the culture – from being Reactive The Global Virome Project (GVP) is a global effective)

The Global Virome Projects presents a path to the identification of all viruses that can infect humans - *so we can prepare for* them before they jump to us



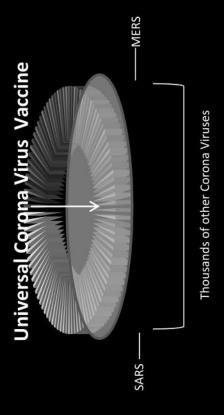
Making the unknown known

There are ~500,000 viruses spanning 23 viral families in wildlife that have the potential to cause human infectionThis means, for every "known" corona virus there are likely 20,000 distinct "unknown" viruses of the same coronavirus family circulating among an "unknown" pool of wild animalsThe same holds for HIV and retroviruses, filoviruses, etc.





Impact (I): Pandemic prevention



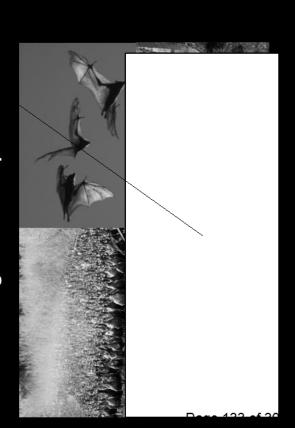
GVP's Data Will Drive:

The Next-Gen of Broad
Spectrum Countermeasures
GVP will enable the
comparative analysis of
thousands of members of each
viral family and development
of countermeasures that are
broadly effective — rather than
against individual viruses (e.g.
MERS, SARS, etc.)



Impact (II): Pandel_ic prevention

Minimizing the Risk of Spillover



GVP's Data Will Drive:

Targeted, High Impact Risk Mitigation GVP's detailed characterization of every virus's ecologic profile — spanning host range, geographic distribution, and epidemiology — will enable the identification of viruses that pose the greatest potential threat — and the targeting of measures to prevent spillover



Impact (I_): The "Halo Effect"

of the Freedom Sequencing Technology Now 2005 Complete Genomics 2000 Next Gen Ion Torrent Helicos Pac Bio Ilumina 1995 1990 1985 1980 \$10,000 əseq**ə**bəyyə 144890302 \$0.1 \$0.01 \$1,000

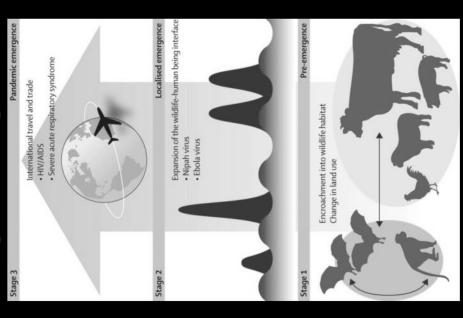
As in the Human Genome Project, data generated by the GVP will dramatically accelerate the development of new diagnostic & analytic toolsGVP's surveillance and lab platforms will remain after GVP is completed as a long term system for monitoring evolving viral threats Data generated will have unanticipated impact – for example, the potential identification of unknown viral causes of chronic diseases like cancer



Global Surveillance Network for Emerging Viral Threats

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Stages of "Emergence"



Investing in a global GVP database will serve as geneticsHowever, an inherent characteristic of remain beyond the GVP as a long term system range,epidemiology, and genetic profiles will biomedical and preventive countermeasures a critically important "snap shot in time" on ensuring early and effective deployment of evolve over time – elevating their threat to laboratory platforms have the potential to the most dangerous EVDs is that their host human populationsGVP's surveillance and for monitoring evolving viral threats – viral ecology, epidemiology, and



Feasibility (I): Large scale "Proof of **Concept**"

The feasibility of GVP was validated through USAID's PREDICT Project

Spanning >30 countriesOver \$120 million invested to date Seven years +Another approx. \$90 million obligated for activities over next 3 years

Systems and Capacities Built

Trained

Sampled

Optimized

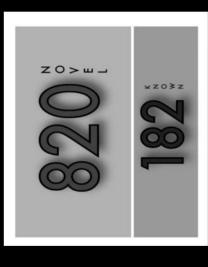


wild animals

labs

field & lab staff

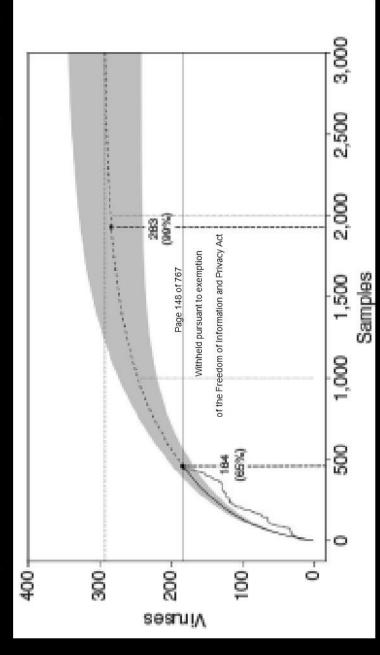
Viruses detected





Feasibility (II): Extrapolating from PREDICT

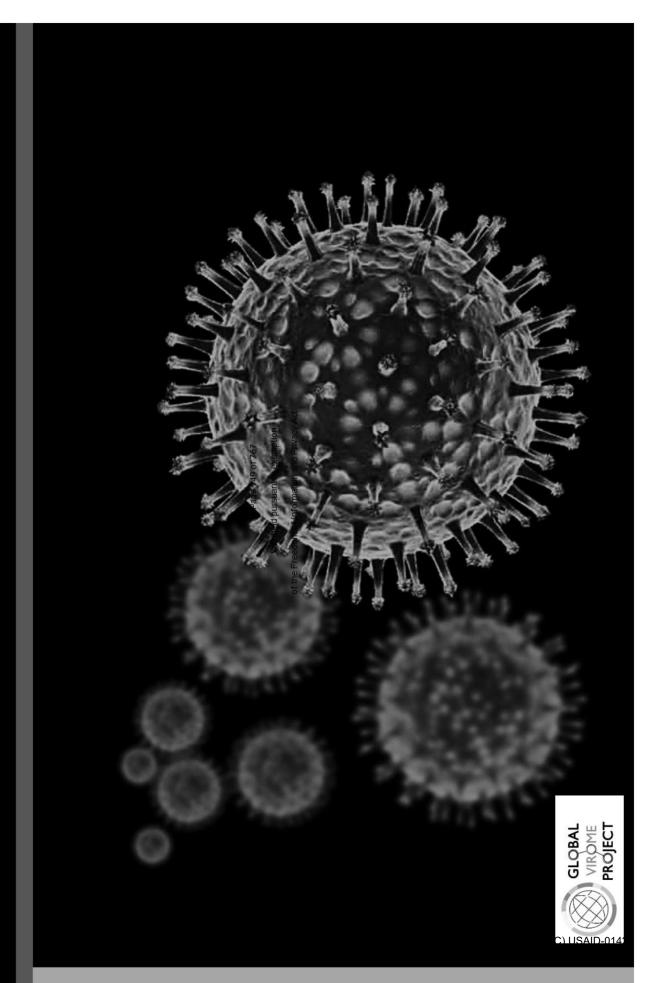
Discovery Curves Show the Number of Samples Required



expected are required to identify most threatening virusesThese viral discovery PREDICT research has demonstrated that far fewer samples than previously curve studies provide a roadmap to sampling needs for GVP

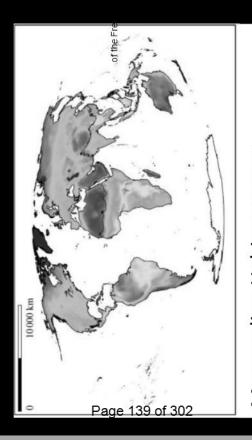


GVP underpinnings



GVP: The Approach – Get to the Source

Mammals and water fowl are viral reservoirs





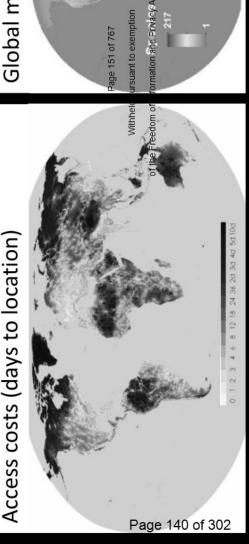


Waterfowl breeding hotspots



Optimizing the targeting strategy

Minimize cost



Global mammalian biodiversity

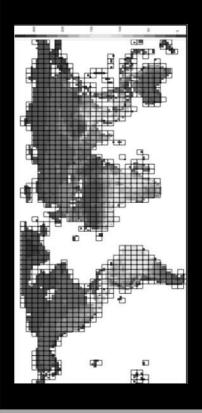
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...while maximizing biodiversity

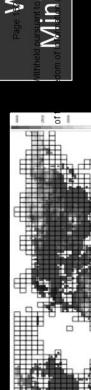


Initial targeting:Selecting planning units from a global grid



Maximize:

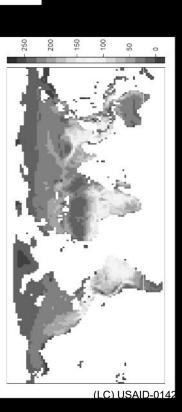
Mammalian biodiversity Uniqueness of diversity in field sites



•-While

Minimizing:

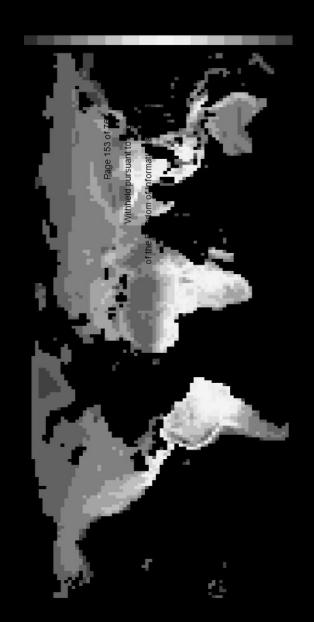
Access costs of field workOverlap between sample sites



To select:

A minimal number of efficient, high-diversity sample sites

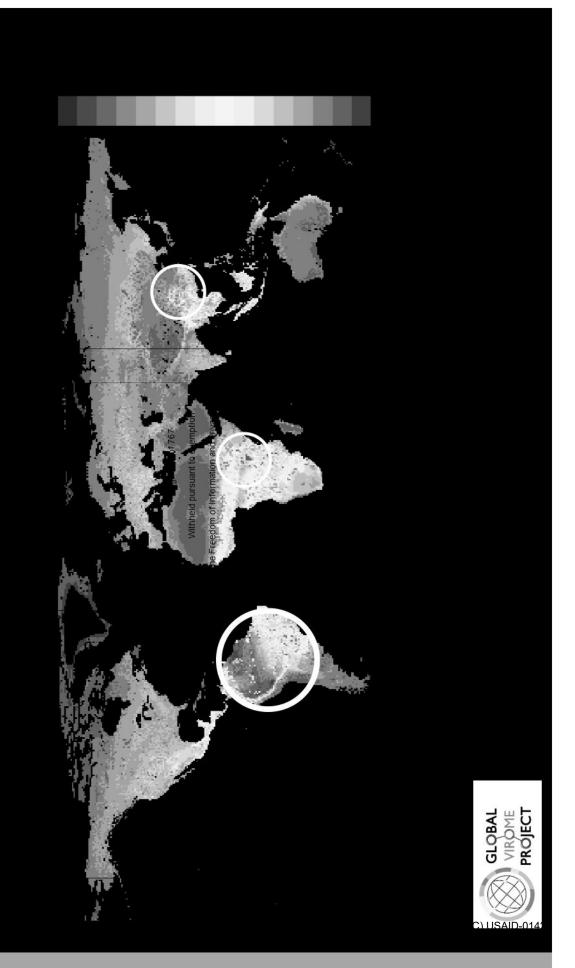
Sampling strategy: Eco-zone Approach



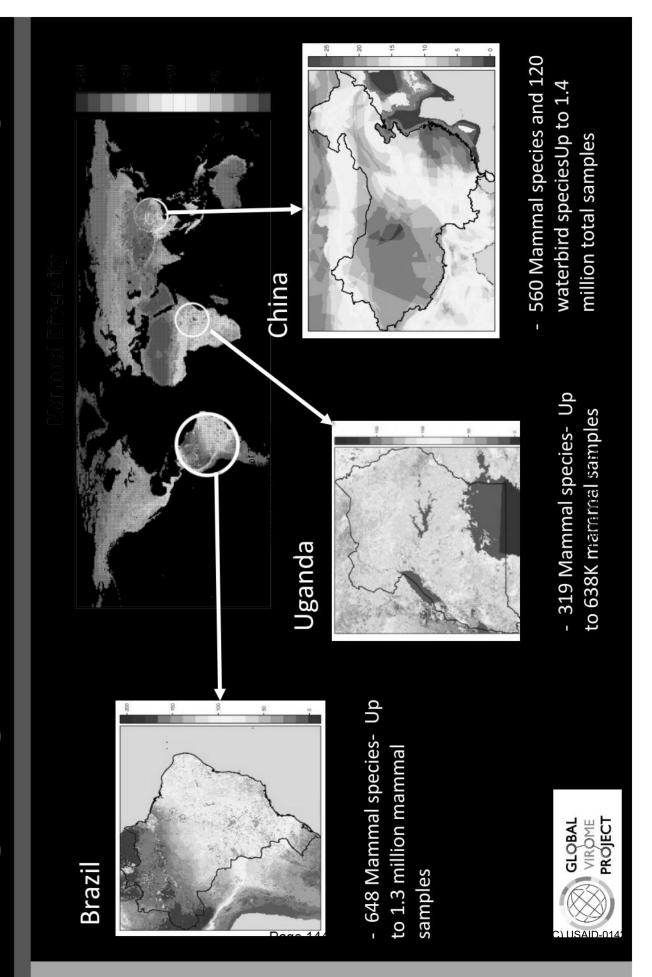
Site selection algorithm is: Complementary Cost-responsive Adaptive Flexible



Targeting complementary biodiversity hotspots



Targeting Rich Mammalian Diversity



Evolving GVP Modules and Funding

Strategies

PHASE 1

"Hub"

Working GroupsHQ (Mgt, Adv...)Secretariat (outreach, communications) Convening & travelStrategic/technical consult

With 1 pm into the second seco

S S Global Implementation

High yield countries

Countries of opportunity

Taxonomic or interface prioritization

Specific technical needs

> "Hot Zone"Regions National Virome with Rich BiodiversityProjects (EcoZones)

High-profile species Virome Projects

Data generation & storage, lab, modeling, epidemiology, etc.

Strategic Targeting



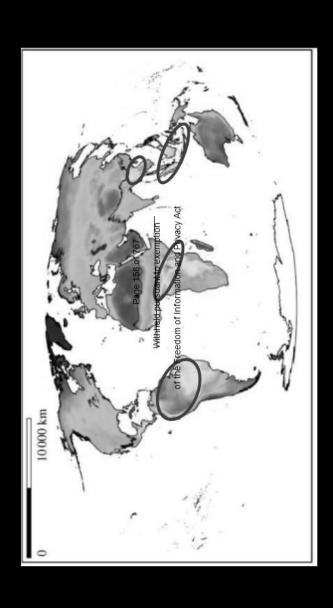
investment now

Requires substantial

upfront

Funding Strategies

Targeted funding for High Yield Countries/Regions



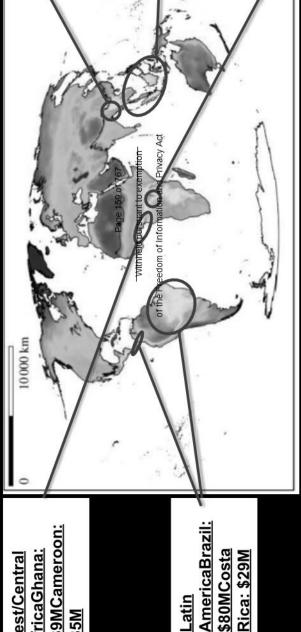
Mammalian Habitat ranges - Ecozone approach



Funding Strategies

Potential First Wave of High-Yield Targets

\$39MCameroon: AfricaGhana: West/Central



\$80MCosta Rica: \$29M

AsiaBangladesh : \$18M South

\$38MCambodia: \$26MIndonesia: **AsiaThailand:** Southeast \$90M

AfricaDR Congo \$57MCameroon: East/Central \$43M

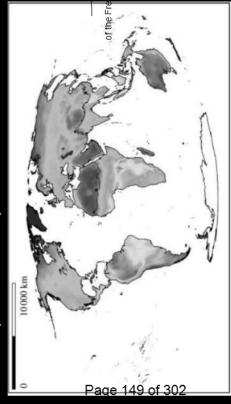
> diversity and associated benefits with Could capture a huge amount of viral less than \$500M in approximately 5



Funding Strategies

Potential Countries of Opportunity

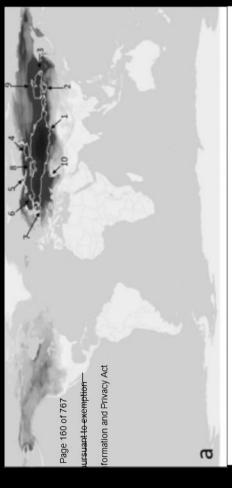
China, Costa Rica, Australia



Mammalian Habitat ranges

Canada

Norway China



Waterfowl breeding hotspots



Senior Advisory Group

 High-level issuesCross-link to global health leadershipAdvise on program directions & architectureProvide guidance on funding strategiesAssess options for progress



Working Towards a China-Led Virome Page 163 of 767 Project

EcoHealth Alliance

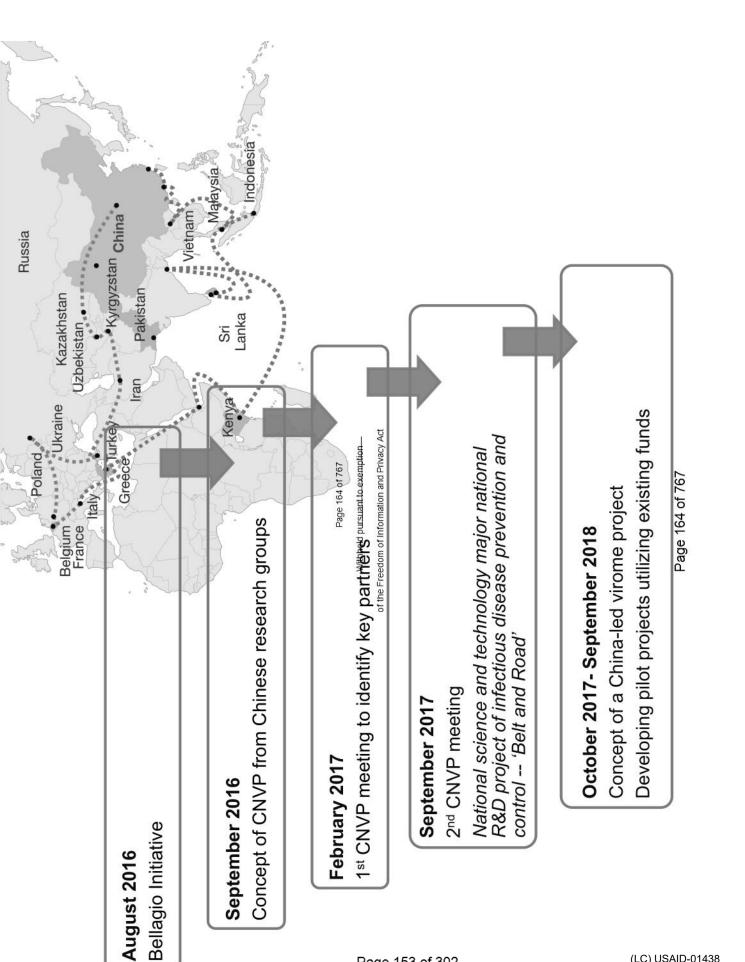
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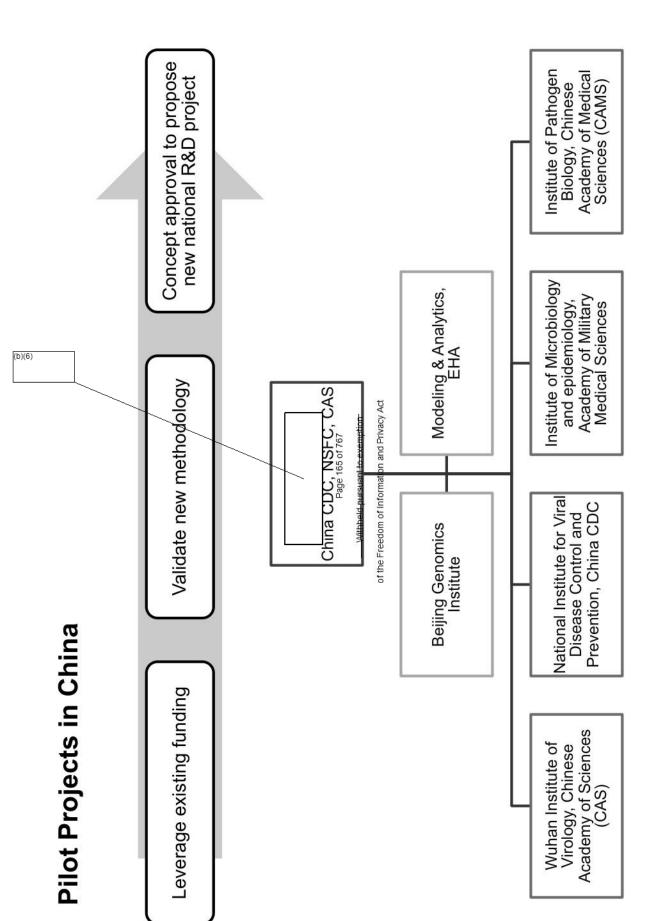
he Freedom of Information and Privacy Act Page 152 of 302

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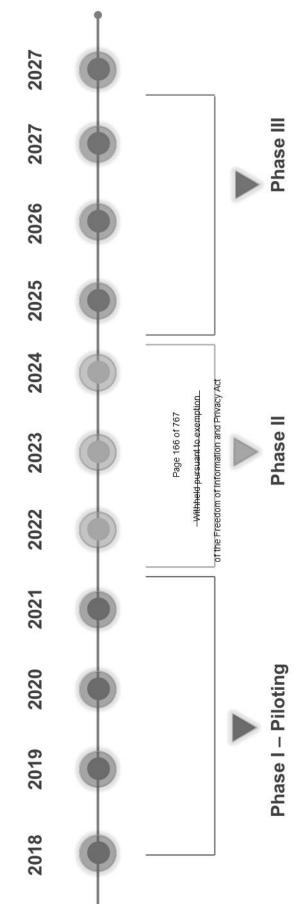




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The Way Forward

Small-group meeting in February 2019 for planning and coordination



Sampling of more common wild mammal species in China

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- Viral database initiated
- Lab diagnostic techniques developed
- Building partnerships in Asian and African countries
- Full data collection Data entry into and analysis Continuing surveillance in China Data collection entry into central
- central database New diagnostic

Continuing development of new

database

Expansion to collaborate with

other countries

diagnostic techniques

techniques used and

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Thank you!

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(b)(6)
U.S. Agency for International Development (USAID) Contractor Bureau for Global Health, Office of Infectious Disease, Emerging Threats Division (b)(6)
Desk: (b)(6) Cell: (b)(6) E-mail: (b)(6) Qusaid.gov
(b)(6)
On Mon, Aug 13, 2018 at 1:59 PM (b)(6) (@usaid.gov) wrote: Hi GVP Colleagues, As per our conversation on Thursday, we would like to request your assistance in updating the agenda for the Thailand National Meeting, to be held Oct. 24-25 in Bangkok. In particular, we would like to ensure that speaker name and session titles have been added. Please input your edits tothis google doc. If you're unable to access it, I have also attached a recent draft of the agenda in which you can make your edits. In case helpful for framing, I've pasted below some feedback from the GoT that (b)(6) shared. We would appreciate your feedback by COB Wednesday, 8/15. Thanks!
Feedback Please see attachment the 2nd draft agenda from the prep meeting on July 17. They would like to hear more details on GVP including questions and answers, the support of the project, more concerns on virus and sequencing information, modeling, data analysis. Additionally, they would like to hear more form China if China already starts the project and on the process of establishing China national virome project.
(b)(6)
U.S. Agency for International Development (USAID) Contractor Bureau for Global Health, Office of Infectious Disease, Emerging Threats Division
(b)(6)
Desk:

Roundtable Dialogue Toward Establishing a Thailand National Virome Project

October 24-25, 2018 (TBD)

Objectives:

- Further introduce and update status on the Global Virome Project
- · Identify and synthesize Thailand's viral discovery and risk analysis expertise
- Discuss Thailand's capacities in the context of the GVP, and build consensus around key goals to be achieved in developing a Thailand National Virome Project

Expected Outputs:

- · Summary report and synthesis of Thailand's viral discovery and risk analysis landscape
- Draft roadmap and iterative milestones in developing a Thailand National Virome Project

October 24, 2018

8:30 – 9:00 am	Registration	Page 173 of 767
I. Introd	luction With	eld pursuant to exemption_
9:00 – 9:30 am	Opening Remarks of the Freedom	of Information and Privacy Act
	-Permanent Secretary : Ministry of Publi Health, DMSC - - Permanent Secretary : Ministry of Science and Technology, NSTDA	ic [TBC]
9:30 – 10:45 am	Overview of the Global Virome Project GVP Structure at Global and National Levels - Thematic Areas:	(b)(6) Requested issues to be covered 1. Background 2. IT infrastructure, Data management & sharing 3. Governance 4. Budget / site 5. Sample repository,

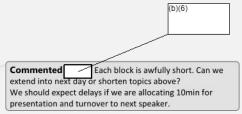
Commented In order to avoid too much overlap with the topics in section II. below, maybe here an give the overview of the global need and importance of Thailand for incubation phase and future overall success everywhere, as well as the process to date with Steering Committee & BCG. Agree that other topics listed are critical to cover, but they might flow better below. This overview would flow nicely into the next section as described (GVP Structure & Thematic Areas), but I'm not sure an 1:45 minutes is necessary, so have shortened the times to allow for the other topics to be fleshed out in the agenda.

		6 15
		6. IP 7. Related
		regulations/int.
		protocols
		8. Experiences
		&lesson learned
		from past projects
		(conflicts,
		problems,
		difficulties)
		9. Capacity building 10. Q&A
		10. Q&A
10:45 -	Coffee Break	
11:15am		
II. The M	echanics of the Global Virome Project	
11:15 - 11:45	GVP Approach to prioritizing sampling sites	(b)(6)
am		
11:45am –	GVP Implementation	
12:15 pm	Scientific goals and sampling targets	Page 174 of 767
	 Capacity strengthening 	S AND SAN
	• Experiences & lessons learned g\/ ម៉ាងជាមុ pu	rsuant to exemption
	of the Freedom of Info	rmation and Privacy Act
12:15 - 12:45	Viral Discovery in the Global and Asia Regional	(b)(6)
pm	Contexts: Key Lessons and Experiences	
	Viral Discovery in Thailand: Key Lessons and	
	Experiences	
12:45 – 1:45 pm	Lunch	-
The control of the co	100 (100 pt) (100 pt)	
1:45 – 2:15 pm	Ethical, legal, societal implications	
	Sample repository, sharing and MTA	
	Intellectual Property	
	Related regulations/int. protocols	
2:10 – 2:30 pm	Proposed plan for GVP Information	
pin	Management (IM)	
	Management (IIII)	
	IT infrastructure	
	Data management & sharing	

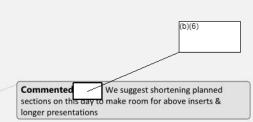
2:30 – 3:00 pm	Coffee Break	
	nd's Viral Discovery & Risk Analysis Landscape (7 i not details)	min each) (What have been
3:00 – 3:10 pm		(b)(6)
3:10 – 3:20 pm	Chulalongkorn University, Faculty of Medicine, Center for Viral Zoonoses	
3:20 – 3:30 pm	Mahidol University (Tropical Medicine Faculty)	
3:30 – 3:40 pm	Mahidol University (Faculty of Veterinary Science)	
3:40 – 3:50 pm	Ministry of Science and Technology	
3:50 – 4:00 pm	Ministry of Public Health, Department of Medical Sciences, National Institute of Health (NIH)	
	Short break	
4:10 – 4:20 pm	Ministry of Ag and Cooperatives, National Institute of Animal Health	
4:10 – 4:20 pm	Thailand Research Fund	TBC Page 175 of 767
4:20 – 4:30 pm	CRI Withheld po	rsuant to exemption-
4:30 – 4:40 pm	DDC&BIDI? One Health Coordination?	ormation and Privacy Act
4:40 – 4:50 pm	AFRIMS or US CDC?/FAO	

October 25, 2018

8:30 – 9:00 am	Summary of Thailand's Viral Discovery & Risk Analysis Capacities, Equities, and Expertise	To be presented in a synthesis form, by category (e.g. diagnostics, interface characterization) from previous day's presentations
9:00 – 11:30	Introduction to Group Deliberations and Group	
am (including	Discussion	



coffee break)	 Moderated Breakout Groups to Discuss Structural Options for a Thailand Virome Project Suggested breakouts: Governance Sample sites/hosts & testing Data sharing 	
11:30 – 12:30 pm	Readout of Group Discussions	List of issues to be discussed should be provided Request for information from the previous meeting for preparation of the breakout session
12:30 –1:30pm	Lunch	
V. Road	map to a Thailand Virome Project Page 176 o	of 767
1:30 – 3:00 pm 3:00 – 3:30 pm	Draft Roadmap Development and Next Stepseld pursuant to a Presentation of draft roadmap following group recommendations - Key milestones - Q/A Summary and Closing Remarks	



Participating Institutions (tentative invitation issuance):

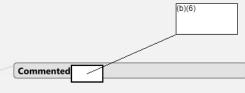
 Ministry of Public Health , Department of Medical Sciences (DMSC), National Institute of Health 4 DDC/4

2. Ministry of Agriculture and Cooperatives , National Institute for Animal Health (NIAH)

3. Ministry of Natural Resources and Environment, Department of National Parks (DNP)

4. Ministry of Science and Technology, National Science Technology Development Agency (NSTDA)

5. Chulalongkorn University, Faculty of Medicine,



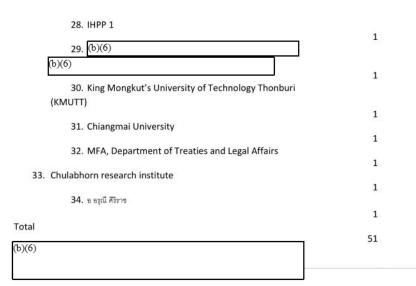
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Center for Viral Zoonoses

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	13.	World Health Organization		1
		U.S. Centers for Disease Control a	nd	
Prev	enti	on/Thailand		2
201		Armed Forces Research Institute		
Scie		(AFRIMS)	Page 177 of 767	2
	16.	U.S. Agency for International Deve	Withheld pursuant to exemption	.
	17.	U.S. Embassy Bangkok	Freedom of Information and Privacy	
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working group	Page 178 of 767
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35. Admin	of the Freedom of Information and Privacy Act
36. Facilitator	4
37. Note Taker	2737 No.
38. Rapporteurs	5
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Subject: Attachments:	Re: Returned mail: see transcript for details BeijingGVPExecutiveSummary (2).docx
Attached again, le	et me know if it came through!
(b)(6)	
Emerging Threats Office of Infection Bureau for Global U.S. Agency for I	us Disease
Desk: (b)(6) Cell: E-mail: (b)(6)	<u>Dusaid.gov</u>
(b)(6) @pasteu	2017 at 5:44 PM, (b)(6) ar.fr > wrote: y I don't see the exec summary. Can you send that again?
On 20 Mar 2017,	at 19:27, (b)(6) @usaid.gov> wrote:
	but glad you got the email!
Desk: (b)(6) Cell:	us Disease
	2017 at 12:30 PM, (b)(6) ur.fr> wrote:
	roblems with my WHO email today. Thanks for resending.
On 20 Mar 2017,	at 17:07, b)(6) <u>@usaid.gov</u> > wrote:
Н	

(b)(6)

From:

It seems to be bouncing back from the WHO email, but I've attached the Exec Summary here again.
Best,
(b)(6)
Emerging Threats Division
Office of Infectious Disease
Bureau for Global Health U.S. Agency for International Development (USAID)
Desk: 60(6)
Cell:
E-mail: (b)(6) @usaid.gov
Forwarded message
From: Mail Delivery Subsystem < MAILER-DAEMON@who.int>
Date: Mon, Mar 20, 2017 at 12:04 PM Subject: Returned mail: see transcript for details
To: (b)(6) Qusaid.gov
To lovo
The original message was received at Mon, 20 Mar 2017 17:01:32 +0100
from (b)(6)
The following addresses had permanent fatal errors
(reason: b)(6) Too many hops)
(expanded from: 40)(6) @who.int>)
Transcript of session follows Too many hops 30 (25 max): from (a) usaid.gov via localhost, to
(b)(6) (25 max). Hom (0)(6) (25 max) via localitosi, to
Original-Recipient: (b)(6) @who.int
Final-Recipient: (b)(6) (a)who.int X-Actual-Recipient: (b)(6) (a)who.int @sakurain.who.int
Action: failed
Status:(b)(6)
Diagnostic-Code: SMTP; (b)(6) Too many hops
Last-Attempt-Date: Mon, 20 Mar 2017 17:04:46 +0100
Forwarded message
From: (b)(6)
To: <(b)(6)
Bec:

Date: Mon, 20 Mar 2017 11:59:19 -0400
Subject: Re: GVP Update - Exec Summary, Resource Deck, etc.
Hi(b)(6)
I've attached the executive summary, which will hopefully go through. It appears that the slide
deck is too large for the WHO email addresses. If you have an alternative email for me to use, let
me know. Otherwise, I'll see if I can shrink it.
Best,
Cara
(b)(6)
Emerging Threats Division
Office of Infectious Disease
Bureau for Global Health
U.S. Agency for International Development (USAID)
Desk: (b)(6)
Cell:
E-mail: (b)(6) Qusaid.gov
On Sat, Mar 11, 2017 at 5:04 AM, (b)(6)
wrote:
Hi (b)(6) you can use my WHO email now: (b)(6) (a) who.int
you can use my write chain now.
On 11 Mar 2017, at 00:06, (b)(6) @usaid.gov> wrote:
Oil 11 Mai 2017, at 00.00,
Dear Colleggues
Dear Colleagues,
TO 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
If you're receiving this email, I received a notice that your email couldn't receive the attachments
in the original email. If you have an alternate email you would like me to forward the slide deck
to (as it's quite large), please let me know. I have reattached the executive summary in the hopes
that it goes through.
Best,
b)(6)
Emerging Threats Division
Office of Infectious Disease
Bureau for Global Health
U.S. Agency for International Development (USAID)
Desk: (b)(6)
Cell:
E-mail: (b)(6) @usaid.gov
Forwarded message
From: (b)(6) @usaid.gov>

Date: Fri, Mar 10, 2017 at 5:48 PM
Subject: GVP Update - Exec Summary, Resource Deck, etc.
To: (b)(6) @usaid.gov>
Cc: (b)(6) @usaid.gov>
No. of the state o
Dear GVP Colleagues,
Happy Friday & weekend! We hope that you are all doing well and that things are great in your
part of the world.
We wanted to provide a few quick updates as we reflect on the Beijing meeting and pursue next
steps:
1) Newsletter: We hope you all received the "As the Virome Turns" newsletter (below). This
will continue to be our method for providing updates on outreach, publications, etc. If you
haven't signed up, please do so at the bottom of this email. If you have anything for inclusion,
please send to (b)(6) @usaid.gov).
2) Executive Summary: Our amazing participant and (b)(6) , has compiled
an Executive Summary from the Beijing meeting (attached). Please let us know if you have any
comments or thoughts about the summary.
3) Resource Deck: In order to facilitate your GVP-related presentations, we've been working on
compiling a large set of slides from which you can all pick and choose to create your own,
audience-specific presentations. We will continue to update this, but please find attached the first
version for your use. We would love any feedback or additional slides to add!
4) May 1st Deadline: As the various working groups pull together their deliverables for the May
1st deadline, please note that your Thematic Area co-leads are a great resource for any questions.
The co-leads will be meeting regularly to share information and identify opportunities for
collaboration between the Thematic Areas.
5) Webinar: Following the May 1st deadline, we will be organizing an interactive webinar to
share more details on the modeling strategy. We plan to record the webinar for those who are
unable to attend. We'll distribute more details as they become available.
As always, please reach out if you have any questions or concerns!
· · · · · · · · · · · · · · · · · · ·
Best,
(b)(6)
Emerging Threats Division
Office of Infectious Disease
Bureau for Global Health
U.S. Agency for International Development (USAID)
Desk: (b)(6)
Cell:
E-mail: (b)(6) @usaid.gov
Γ1.1
France CVD Collabolism and Constitution
From: GVP < Globalviromeproject@gmail.com >
Date: Fri, Mar 10, 2017 at 2:13 PM
Subject: As the Virome TurnsHappy 2017!

View this email in your browser



Happy 2017! Since the last edition, quite a bit has taken place in Washington, but much more has taken place everywhere GVP Steering Committee members have traveled. With Spring almost here, and the beginning of Daylight savings time soon upon us, make sure to enjoy the extra sleep until Sunday, when you should remember to spring forward! Keep scrolling to see how GVP continues to beat on, both in person and in publications featuring our own $\frac{(b)(6)}{}$ and $\frac{(b)(6)}{}$



Last month the teams were busy, showcasing GVP globally and launching activities in key locations. Read the breakdown below:

Miami Beach: 2017 Advances in Genome Biology and Technology Meeting, February 12

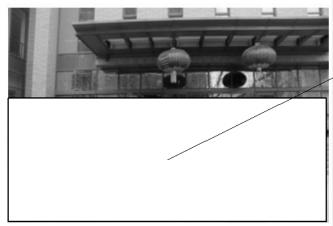
(Metabiota) gave a keynote talk on the "Global Virome Project". This meeting represents the largest yearly gathering of genome scientists and technologists (~800).

Beijing: Feb. 5th - Feb. 8th

During their time in Beijing, (b)(6) and others met for the GVP steering committee meeting and "Launched" the China National Virome project! Audiences included USAID China colleagues, the GVP core group, steering committee, and working group co-leads, senior representatives from the Chinese Academy of Sciences, China CDC, the leadership from the Chinese Academy of Sciences International Affairs Division, and the health/science representatives from Embassy Beijing (State, USAID, NSF, HHS, CDC, NIH, etc.). We look forward to the Embassy's continued support of this opportunity moving forward.

• GVP Steering Committee: The GVP meeting was the second meeting of the steering committee and the first meeting of the extended group (working group co-leads). In addition to be a

productive session helping to map out the way forward, the opportunity to bring together the individuals working in different technical areas allowed for extensive cross-talk and coordination.



(b)(6)

<u>"Launch" of the China National</u>
 <u>Virome Project</u>: The Chinese Academy

of Sciences and the China CDC co-hosted a scientific forum to: 1. Present GVP, and 2. Higlight ongoing Chinese scientific work that aligns with GVP. Our Chinese colleagues are very enthusiastic about being a "first wave country" for the GVP – meaning that they would begin a National Virome Project. The next step is for them to set up an internal meeting to map out the way forward on their end.

Bangkok: Jan. 28th - Feb. 3rd

Several ETD members and other partners met in Bangkok, primarily to attend the PMAC 2018 planning meeting, PMAC 2017 side meetings on AMR & OneHealth Workforce, and to present on the GVP to Thai colleagues:

- AMR meeting: 125 participants from ministries of Ag and Health from 7 Asian countries and an equal number of major private sector firms (livestock producers, retailers and suppliers).
 Strong endorsement of expanded engagement across region for characterizing anti-biotic use among producers and promotion of good stewardship. Concrete next steps identified.
 Private sector has initiated steps to co-sponsor a similar meeting in Cairo to cover Middle East producers.
- One Health Workforce: a regional meeting bringing together representatives from across the
 OHW network in SE Asia and Africa and equivalent representation for similar networks funded
 by WB and Australia in South Asia. Highly interactive and laid the foundation for a broader

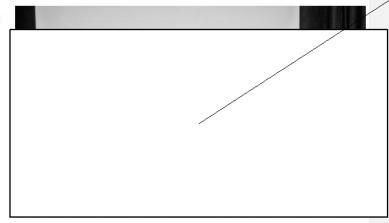
(LC) USAID-01459

"web" of engagement across multiple networks.

GVP: a very well received presentation and discussion on GVP to a broad cross-section of Thai
government leaders, scientists and educators. Strong endorsement of role of the RTG in GVP.

(b)(6)

 PMAC 2018: first meeting of the International Organizing
 Committee for PMAC 18 - with the theme of "Making the World Safe from the Threats of Emerging Infectious Diseases".
 USAID has a strong leadership role in planning for this



meeting. PMAC 18 will cover both emerging viral threats as well as antimicrobial resistance. Abstracts should be submitted by following this link.

San Francisco: Jan. 24th - Jan. 27th

During their time in San Francisco, folks held a series of GVP outreach meetings, notable with The Chan-Zuckerberg BioHub, Illumina, and the Science Philanthropy Alliance. All outreach meetings were successful in that colleagues expressed strong support and enthusiasm for the GVP:

• Illumina: (b)(6) (Metabiota), (b)(6) (USAID), (b)(6) (Metabiota) gave a presentation to senior Illumina management on the Global Virome Project. Illumina representatives included: (b)(6)

(b)(6) Discussions

included potential involvement of Illumina in the GVP, during which key representatives expressed a very strong interest in serving as a partner, focusing on the development of the "next generation" of technology related to diagnostics. Their involvement has potential to speed up the process through introduction of new technologies (similar to what occurred during the Human Genome Project).

• Science Philanthropy Alliance: SPA is a "clearing house" for a dozen major foundations

interested in supporting "transformative science". They expressed a strong sense that GVP was very much aligned with a number of their member foundations and are taking steps to facilitate future discussions with participating foundations

<u>Chan-Zuckerbeg BioHub</u>: The <u>BioHub</u> (Stanford/UC Berkeley/UCSF) is interested in working
with the GVP around the samples which will be collected and new technologies which may be
used as part of the big data generated.

(b)(6)



Each working group continues to pursue deliverables planned for completion this May. Of note will be updates from the Science & Technology Team, which we will share in the next edition of As the Virome Turns.



- GVP is Featured in Techonomy
- writes for the O'Neill

 Institute for Global Health and Law

Are you a new reader?

- Subscribe Here
- · Read past editions here
- Contact (b)(6)
 at (b)(6) @usaid.gov if you would like to submit content for future editions of "As the Virome Turns"

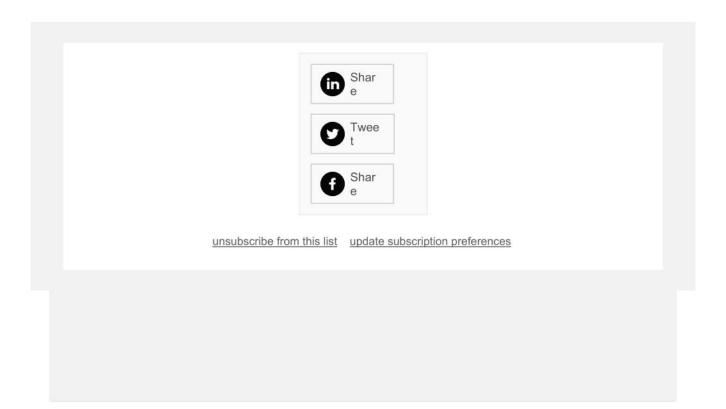
Upcoming Events

- The Beginning of the End of the Pandemic Era: March 17
- SEAOHUN Fellowship Program
 Application Deadline: March 31
 An excellent opportunity for qualified individuals to gain practical, transdisciplinary experience and contribute productively to One Health related projects at several host organizations.

 Follow this link to learn more and apply!
- PMAC 2018: Call for Abstracts, March 31,2017







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GVP Core Team · Ronald Reagan Building · 1300 Pennsylvania Avenue NW · Washington, DC 20004 · USA



<BeijingGVPExecutiveSummary.docx>

<BeijingGVPExecutiveSummary (2).docx>

Global Virome Project (GVP)

Steering Committee and Working Group Meeting
Beijing, China
6-7 February, 2017
Executive Summary

Page 190 of 767

- Withheld pursuant to exemption

of the Freedom of Information and Privacy Act



Page 199 of 362

(LC) USAID-01464



Executive Summary

The Inaugural Global Virome Project Steering Committee and Working Group Meeting was held on 6-7th February 2017 in Beijing, China. This was the first global in-person meeting on the Global Virome Project (GVP) since the Bellagio Forum in August 2016. Since Bellagio, where 18 transitional steering committee (SC) members identified the goals and vision of the GVP, eleven working groups (WGs) have been formed in three thematic areas: Governance, Science & Technology, and Implementation.

The objectives of this meeting were three-fold: 1.) to report on working group, core group, and steering committee progress made since Bellagio, 2.) to discuss and seek feedback on evolving strategies related to governance, outreach, communication, resource mobilization, and stakeholder engagement, and 3.) to establish and strengthen relationships among working group chairs and the steering committee, identifying issues shared by different groups and planning further collaboration.

1. Progress made since Bellagio

Since May 2016, members of the GVP core group have met with 13 high-level individuals and 20 (philanthropic, academic, multilateral or governmental) organizations. They presented the GVP at 14 conferences or public fora. The Bellagio Initiative statement and briefing documents were published on a new website (global wire presented for regular distribution. A policy forum paper is under review in an academic journal, and members of the core group have been interviewed in the lay press. The GVP has also been discussed in the popular press.

Working group co-chairs were identified and invited, and each working group compiled and presented the key activities, challenges, and opportunities facing its group.

Several countries have shown significant interest in the GVP, and certain of those countries have been discussed as "countries of opportunity" for launching a first wave of the GVP. These countries include China, which hosted a meeting following this convening on the "China National Virome Project."

2. Governance, outreach, and communication strategies

The Global Virome Project is coordinated by a core group with representation from USAID, UC Davis, EcoHealth Alliance, and Metabiota. The core group, steering committee, and working group meetings have been partially funded by USAID, while participating working group cochairs and steering committee members from a host of additional organizations currently participate on a voluntary basis. As this structure is transitional, the long-term organizational structure of the GVP was discussed during the meeting, including the role of a possible Senior Advisory Board. Additionally, the group discussed possible efforts to augment input into the



core group, including tapping into the steering committee on a periodic basis (while taking into account practicalities around time zones, workloads, etc.), following the Beijing meeting. The creation of a freestanding NGO, with an international search for president, was discussed as a plausible governance framework for the long term functioning of the GVP. It was agreed that the GVP should not be a for-profit venture, and that the long-term composition of the overall effort should have diverse global representation.

The team discussed the need to break down the \$3.5 billion total price tag of the GVP into a "menu" of smaller projects. Different ways to break this down – by region, country, species, viral group, or category as well as specific technology contributions – each present their own challenge. Part of the modeling team's role will be to economically optimize a field sampling strategy based on biodiversity and accessibility, but local capacity and country-specific laws and protocols must be factored into the costs. Beginning in a "first wave" of countries may increase interest in the project and allow other countries to join and jointly fund the project after value has been demonstrated.

The GVP's scope and goals – particularly, how to communicate the boundaries and scope of such a broad-reaching project and how to ensure the GVP has public health impact beyond academic research – were discussed at length, and this feedback is being incorporated into the mission and vision statements.

3. Working group intersections and collaboration Withheld pursuant to exemption

During the session when each of the working groups had short meetings each of the other working groups, areas of overlap were identified. "Sister" working groups – (e.g. metadata platform and data management) – committed to working together to achieve the most scientifically sound and feasible strategies for delivering on the GVP's goals were also identified.

(b)(6) established a May 1 goal for the first working group deliverables. It was agreed that generally, the strategic planning of the Science & Technology working groups should precede the tactical delivery of the Governance and Implementation working groups.

The way forward

All participants were called upon to present to their networks in upcoming conferences, meetings, and public fora, and the pitch deck and other explanatory materials will be shared with all participants. Many members of the steering committee expressed intereste in increasing their involvement, and were invited to reach out to the co-leads of working groups that interested them to join the budding working groups.

There was additionally a commitment to establishing an online hub where working group participants could communicate, upload files, jointly work on documents, and otherwise interact. Thematic leads were tasked with setting up a call schedule for their working groups and working with their groups to develop roadmaps.

Roundtable Dialogue Toward Establishing a Thailand National Virome Project

October 24-25, 2018

Objectives:

- · Further introduce and update status on the Global Virome Project
- · Identify and synthesize Thailand's viral discovery and risk analysis expertise
- Discuss Thailand's capacities in the context of the GVP, and build consensus around key goals to be achieved in developing a Thailand National Virome Project

Expected Outputs:

- · Summary report and synthesis of Thailand's viral discovery and risk analysis landscape
- Draft roadmap and iterative milestones in developing a Thailand National Virome Project

October 24, 2018

8:30 – 9:00 am	Registration	Page 207 of 767	
I. Introd	uction Withhele	d pursuant to exemption	
9:00 – 9:30 am	Opening Remarks of the Freedom of	Information and Privacy Act	
	 Permanent Secretary: Ministry of Public Health Permanent Secretary: Ministry of Science and Technology 	[TBC]	
9:30 – 10:45 am	Overview of the Global Virome Project	(b)(6)	
	GVP Structure at Global and National Levels - Thematic Areas:	Requested issues to be covered 1. Background 2. IT infrastructure, Data management & sharing 3. Governance 4. Budget / site 5. Sample repository, sharing and MTA 6. IP	

In order to avoid too much overlap with the topics in section II. below, maybe here Dennis can give the overview of the global need and importance of Thailand for incubation phase and future overall success everywhere, as well as the process to date with Steering Committee & BCG. Agree that other topics listed are critical to cover, but they might flow better below. This overview would flow nicely into the next section as described (GVP Structure & Thematic Areas), but I'm not sure an 1:45 minutes is necessary, so have shortened the times to allow for the other topics to be fleshed out in the agenda.

(b)(6)

7. Related

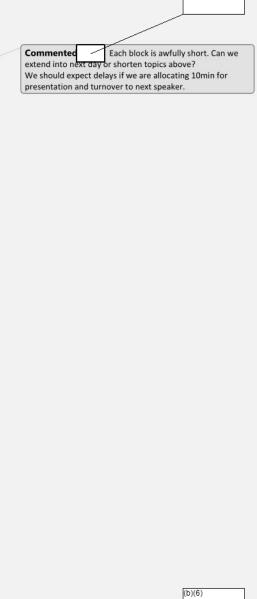
regulations/int.

		protocols 8. Experiences &lesson learned from past projects (conflicts, problems, difficulties) 9. Capacity building 10. Q&A
10:45 – 11:15am	Coffee Break	
	echanics of the Global Virome Project	1
11:15 – 11:45 am 11:45am – 12:15 pm	GVP Approach to prioritizing sampling sites GVP Implementation Scientific goals and sampling targets Capacity strengthening Experiences & lessons learned globally	(b)(6) Page 208 of 767
12:15 – 12:45 pm	Viral Discovery in the Global and Asia Regional Contexts: Key Lessons and Experienced of Infiviral Discovery in Thailand: Key Lessons and Experiences	
12:45 – 1:45 pm	Lunch	1 1
1:45 – 2:15 pm	Ethical, legal, societal implications Sample repository, sharing and MTA Intellectual Property Related regulations/int. protocols	
2:10 – 2:30 pm	Proposed plan for GVP Information Management (IM) IT infrastructure Data management & sharing	
2:30 – 3:00 pm	Coffee Break	
	nd's Viral Discovery & Risk Analysis Landscape (7 in not details)	min each) (What have been

3:00 – 3:10 pm		(b)(6)
3:10 – 3:20 pm	Chulalongkorn University, Faculty of Medicine, Center for Viral Zoonoses	1 1
3:20 – 3:30 pm	Mahidol University (Tropical Medicine Faculty)	
3:30 – 3:40 pm	Mahidol University (Faculty of Veterinary Science)	
3:40 – 3:50 pm	Ministry of Science and Technology	
3:50 – 4:00 pm	Ministry of Public Health, Department of Medical Sciences, National Institute of Health (NIH)	
	Short break	
4:10 – 4:20 pm	Ministry of Ag and Cooperatives, National Institute of Animal Health	
4:10 – 4:20 pm	Thailand Research Fund	TBC
4:20 – 4:30 pm	CRI	
4:30 – 4:40 pm	DDC&BIDI? One Health Coordinator?	000 1707
4:40 – 4:50 pm	AFRIMS or US CDC?/FAO	Page 209 of 767 ursuant to exemption
		formation and Privacy Act

October 25, 2018

8:30 – 9:00 am	Summary of Thailand's Viral Discovery & Risk Analysis Capacities, Equities, and Expertise	To be presented in a synthesis form, by category (e.g. diagnostics, interface characterization) from previous day's presentations
9:00 – 11:30 am (including coffee break)	Introduction to Group Deliberations and Group Discussion - Moderated Breakout Groups to Discuss Structural Options for a Thailand Virome Project - Suggested breakouts: O Governance	



(b)(6)

Commented We suggest shortening planned sections on this day to make room for above inserts &

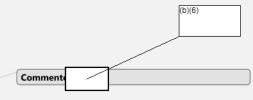
longer presentations

	Sample sites/hosts & testingData sharing	
11:30 – 12:30 pm	Readout of Group Discussions	List of issues to be discussed should be provided
		Request for information from the previous meeting for preparation of the breakout session
12:30 –1:30pm	Lunch	
V. Road	map to a Thailand Virome Project	
1:30 – 3:00 pm	Draft Roadmap Development and Next Steps - Presentation of draft roadmap following group recommendations - Key milestones - Q/A Withheld pursuant t	
3:00 – 3:30 pm	Summary and Closing Remarks of the Freedom of Information	

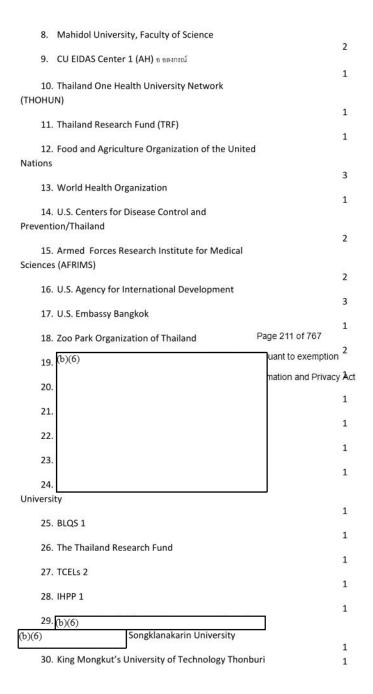
Participating Institutions (tentative invitation issuance):

Ministry of Public Health , Department of Medical ciences (DMSC), National Institute of Health 4 DDC/4

Sciences (DMSC), National Institute of Health 4 DDC/4	
2 Ministry of Agriculture and Connectives National	8
Ministry of Agriculture and Cooperatives , National	
Institute for Animal Health (NIAH)	
	4
3. Ministry of Natural Resources and Environment,	
Department of National Parks (DNP)	
	2
4. Ministry of Science and Technology, National	
Science Technology Development Agency (NSTDA)	
	4
5. Chulalongkorn University, Faculty of Medicine,	
Center for Viral Zoonoses	
	2
6. Mahidol University, Faculty of Tropical Medicine	
is a so to it material file 2000 state t	2
7 Mahidol University Faculty of Veterinary Science	



2



(KMUTT)	
31. Chiangmai University	
	1
32. MFA, Department of Treat	ties and Legal Affairs
	1
33. Chulabhorn research institute	
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34. อ อรุณี ศิริราช	
	1
otal	
b)(6)	51
)(6)	@gmail.com.

(b)(6)

As suggested by GVP team

working group

35. Admin

36. Facilitator

37. Note Taker

38. Rapporteurs

4

Withheld pursuant to exemption 5

of the Freedom of Information and Privacy &

Global Virome Project (GVP)

Steering Committee and Working Group Meeting
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Executive Summary

Page 233 of 767

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From:	(b)(6)]		
Sent:	Thu, 16 May 20		3 +0000	
To:	(b)(6)			Peter Da
(b)(6)				
Subject:	GVP Call Agen	da		
Attachments:			5.15.19.docx.	CVP Side Meeting [
Agenda_V2.docx		,	,	
0				
Hi All,				
Looking forward to s	speaking soon, l	here's the ag	genda:	
China501c3Thailand updEri's updatesAOB		ot joining)		
Best,				
(b)(6)				
U.S. Agency for Inte				
Bureau for Global H	eaith, Office of	Infectious	Disease, Em	erging Threats Div
(b)(6)				
Desk: (b)(6) Cell: E-mail: (b)(6) @us	said.gov			
(b)(6)				

U.S. & China's Interest in the Global Virome Project: an Opportunity for Global Health Cooperation

Summary

- The Global Virome Project (GVP) is a bold, ambitious 10-year 'big science' project to develop an atlas of the planet's naturally-occurring viral threats - driving the advanced development of countermeasures against future pandemics.
- Both the U.S. and China have expressed considerable interest in leading this global effort.
- China aims to launch a partner project, the "China Virome Project (CVP)" as part of the Belt & Road Initiative (BRI) with Chinese government funding to establish a pandemic threat research network among BRI countries.
- The U.S. is considering scientific and development assistance support to the GVP's global operations and affiliated National Virome programs.
- While the GVP will have to navigate complex issues concerning sharing of specimens and data across national borders, China and U.S. interest in the GVP represents a positive indication that health cooperation, safeguarding global health security, and advancing innovation in science presents new ground for potential U.S.-China collaboration.
- Absent U.S.G. leadership in GVP agenda-setting, governance, and funding, the Chinese government could take a leading position in this potentially path-breaking endeavor undermining years of USG leadership and considerable investment. Additionally, limited access to the information gained through these efforts may have serious national security implications.
- By playing a joint leadership role in the GVP, the U.S. and China have the opportunity to push innovations in science, catalyze advances in health science, and promote €401860€ access to the intellectual property and commerce that will come from it. Withheld pursuant to exemption

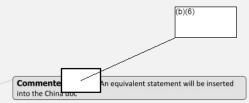
Health Security is a Global Agenda

of the Freedom of Information and Privacy Act We are in a pandemic era, where threats posed by epidemics are greater now than at any other point in human history. These diseases emerge and spread through our globalized travel and trade networks, so that wherever a new virus originates, once it begins to spread it rapidly gravitates to developed countries such as the U.S.A., and rapidly developing countries like China. They cause global mortality (e.g. HIV/AIDS, influenza, Ebola) and over \$2.3 Trillion in projected costs for the next 30 years. The majority of these global threats originate from viruses carried by animals, e.g. HIV-1 from chimpanzees, Ebolavirus carried by bats in Africa. Global trends indicate that new microbial threats will continue to emerge at an accelerating rate, driven by our expanding population, growing interconnectedness, and increasing interactions with animal populations. Despite the potential impact of viral threats, the world remains unable to predict when, where, or from what species the next emerging virus will break out.

Breakthrough work funded by USAID shows that there are around 1.7 million unknown viruses in wildlife, spanning 24 viral families that have the potential to emerge in the future. Compared to the 260+ viruses known from humans, this viral "dark matter" represents 99.9% of the potential pandemic threat. Thus we expect there are likely thousands of unknown "SARS-like", "HIV-like" or "Ebola-like" viruses circulating in wildlife that could threaten human health. Currently we are working on vaccines for only a handful of these.

The GVP's Ambitious Goals

The GVP vision is an atlas of the majority of the planet's naturally-occurring viral threats over the next 10 years transforming the world of emerging diseases into a data-rich field. Doing this while these viruses still circulate in wildlife - their natural hosts - means we can better prepare for viruses before they emerge in people and cause devastating outbreaks. To do this will be costly, require work in



multiple countries, and international coordination and partnership to manage the decade-long project work, and support equitable data-sharing and access to benefits. A core group of scientific leaders, including leaders of U.S. agencies, members of the U.S. National Academy of Medicine, and Chinese and international collaborators have published a 10-year workplan to conduct the fieldwork, laboratory analysis and database development that will discover over 70% of the currently unknown viral threats so that we can develop strategies to prevent their emergence.

This work should transform our public health culture from responding to costly and devastating outbreaks, to preventing them. This includes pathogens that might otherwise devastate domesticated animal populations, benefitting global food security and livelihoods of farming communities of the world. The GVP database and atlas will catalyze advances in genomics, modeling, diagnostics, vaccine and countermeasure development and public health. These will include risk stratification of the newly discovered viruses to identify those most likely to threaten our health, and new ways to rapidly develop pan-viral family-level vaccines and countermeasures. With modest investments, this may lead to significant return to the biomedical industry and through benefits to public health.

The GVP requires global stewardship

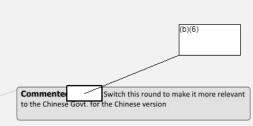
The GVP looks to the Human Genome Project as a model, in which an ambitious vision led to the development of new technologies and a vast data resource now available to all. Unlike the Human Genome Project, sampling for the GVP will need to be multi-national so that the GVP by nature has an international scope. Rather, the GVP will be a federation of National Virome projects that will contribute to a shared data-portal. Thus GVP faces significant challenges: Who will own the samples that are collected from many countries? Where will they be analyzed? Will all GVP data be freely available to the public? The GVP core group is working on these legal and ethical issues, but without proper stewardship, these could hinder and stifle progress. A partnership involving withhele progress and Chinese experts will greatly increase the success of this venture and enable experts to help shape the answers to these critical questions.

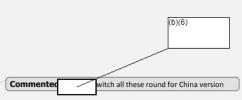
The Global Virome Project Provides China and the U.S. a Platform for International Collaboration
The GVP will, over the course of its lifetime, directly contribute to the enhanced capacities for
preparedness and response in over 40 countries across Africa, Asia, and the Americas. The U.S.-China
scientific leadership has publicly stated that the GVP is an excellent platform for increased U.S.-China
collaboration to combat catastrophic threats at the intersection of animal and human health. It
represents an opportunity to harness a cross-section of the very best of U.S. and China's scientific,
technical and development assistance leadership to provide both funding and in-kind support.
International NGOs and academics are likely to provide partial leadership for the GVP. U.S.-China

leadership will need to ensure that their shared interests are adequately reflected in this effort.

The Scope of the U.S.-China Collaboration

Leading institutions in the U.S. and China would collaborate on the GVP at both the international level by supporting global operations of the GVP's central coordinating body or "Hub". At the national level, U.S.-China leadership would support the operations of National Virome projects in countries where diseases most often originate (rapidly developing countries) and which are closely connected to global travel and trade networks. Participants from the U.S. and China have respective strengths and resources that, when coordinated, could achieve greater development and health outcomes. Stakeholders include U.S. federal institutions (e.g. NIH, CDC, USAID), universities, and the private sector, as well as the Chinese federal research institutions (e.g. CAS, CAMS) and government agencies (e.g. NHFPC, CDC, CIDCA). These organizations already have formed collaborative links on a number of public health and





disease research programs and are ready to coordinate without duplicating pre-existing or separate agreements or arrangements. Their focus will be to:

- Support the technical and operational activities of the GVP Hub, including the managing of the global data-portal.
- Provide technical support to develop human resources, training and field operations of the participating National Virome projects.
- Commit to transparent, coordinated collaboration in building an open-access database of viral information.
- Provide risk ranking information directly to WHO, CEPI and the GHSA so that prevention and control measures can be rapidly coordinated to combat newly identified threats.

By enhancing current collaborative ventures, providing joint support to build the U.S.-China GVP leadership and "hub", we will be able to rapidly move from waiting for the next pandemic to hit, to a state of global preparedness and prevention – the beginning of the end of the pandemic era.

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China Virome Project (CVP) Meeting

July 27-28, 2019 Sun Island Garden Hotel, Harbin, China

Objectives:

- Introduce the concept of China Virome Project (CVP)
- Update on the status of Global Virome Project (GVP)
- Establish the China Virome Project committee and management framework
- Discuss current infectious diseases work supported by China and the roadmap to develop a China Virome Project

Expected Outputs:

- Committee of China Virome Project and management/coordination mechanism
- Draft outline for China Virome Project (aims, countries, timeline, milestones, and team)

DAY1 7/27	Dinner & Pre-meeting	
DAY2 7/28	Morning: Plenary Session	
09:15 09:45	Introducing the Global Vriome Project: virome research as a global partnerவும் வ ர்க்	(b)(6)
DAY 2 7/28	Afternoon: Chinant Vinome Atrojector	
14:00 – 14:15	Introduction of CVF and discussion อีเปราค์ยี	
14:15 – 14:35	Proposed plan for CVP data management and sharing	
14:35 14:55	Opportunities in BRI countries	
14:55 – 15:15	Lab techniques for China Virome Project	
15:15 – 15:30	Break/Photo	
15:30 – 17:30	Discussion – Outlining the China Virome Project - Countries - Species (human & animal) - Virus - Data standard - Funding resource	Moderator <i>TBD</i> All participants
DAY 2 7/28	Evening: Dinner and Group Meetings	·

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Page 215 of 302

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Sent:	Mon, 20 Mar 2017 11:59:19 -0400	
То:	(b)(6) @who.int	
Subject:	Re: GVP Update - Exec Summary, Resource Deck, etc.	
Attachments:	BeijingGVPExecutiveSummary (2).docx	
Hi (b)(6)		
deck is too large for	executive summary, which will hopefully go through. It appears that the sliper the WHO email addresses. If you have an alternative email for me to us see, I'll see if I can shrink it.	
Best,		
(b)(6)		
Emerging Threats	Division	
Office of Infection		
Bureau for Global	Health	
U.S. Agency for In	nternational Development (USAID)	
Desk: (b)(6) Cell: (E-mail: (b)(6)	usaid.gov	
On Sat Mar 11 2	017 at 5:04 AM, (b)(6) @pasteu	ır fr>
wrote:	opusted	4.11
	ise my WHO email now: (6)(6) @who.int	
On 11 Mar 2017,	at 00:06, (b)(6) <u>@usaid.gov</u> > wrote:	
Dear Colleagues,		
in the original ema	this email, I received a notice that your email couldn't receive the attachmil. If you have an alternate email you would like me to forward the slide oge), please let me know. I have reattached the executive summary in the hand.	deck
Best,		
(b)(6)		
Emerging Threats	Division	

(b)(6)

From:

Sent:

Office of Infectious Disease Bureau for Global Health U.S. Agency for International Development (USAID) Desk: (b)(6) Cell: E-mail: (b)(6) Qusaid.gov
From: (b)(6)
Dear GVP Colleagues, Happy Friday & weekend! We hope that you are all doing well and that things are great in your part of the world.
We wanted to provide a few quick updates as we reflect on the Beijing meeting and pursue next
steps: 1) Newsletter: We hope you all received the "As the Virome Turns" newsletter (below). This will continue to be our method for providing updates on outreach, publications, etc. If you haven't signed up, please do so at the bottom of this email. If you have anything for inclusion, please send to bi(6) 2) Executive Summary: Our amazing participant and bi(6) an Executive Summary from the Beijing meeting (attached). Please let us know if you have any
comments or thoughts about the summary. 3) Resource Deck: In order to facilitate your GVP-related presentations, we've been working on
compiling a large set of slides from which you can all pick and choose to create your own, audience-specific presentations. We will continue to update this, but please find attached the first version for your use. We would love any feedback or additional slides to add!
4) May 1st Deadline: As the various working groups pull together their deliverables for the May 1st deadline, please note that your Thematic Area co-leads are a great resource for any questions. The co-leads will be meeting regularly to share information and identify opportunities for collaboration between the Thematic Areas.
5) Webinar: Following the May 1st deadline, we will be organizing an interactive webinar to
share more details on the modeling strategy. We plan to record the webinar for those who are unable to attend. We'll distribute more details as they become available.
As always, please reach out if you have any questions or concerns!
Best, (b)(6)
Emerging Threats Division

Office of Infectious Disease Bureau for Global Health

U.S. Agency for International Development (USAID)

Desk: (b)(6)
Cell:

E-mail: @usaid.gov

----- Forwarded message -----

From: **GVP** < <u>Globalviromeproject@gmail.com</u>>

Date: Fri, Mar 10, 2017 at 2:13 PM

Subject: As the Virome Turns--Happy 2017!

To: (b)(6) @usaid.gov



Happy 2017! Since the last edition, quite a bit has taken place in Washington, but much more has taken place everywhere GVP Steering Committee members have traveled. With Spring almost here, and the beginning of Daylight savings time soon upon us, make sure to enjoy the extra sleep until Sunday, when you should remember to spring forward! Keep scrolling to see how GVP continues to beat on, both in person and in publications featuring our own $\binom{b)(6)}{}$ and $\binom{b)(6)}{}$

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Last month the teams were busy, showcasing GVP globally and launching activities in key locations. Read the breakdown below:

Miami Beach: 2017 Advances in Genome Biology and Technology Meeting, February 12

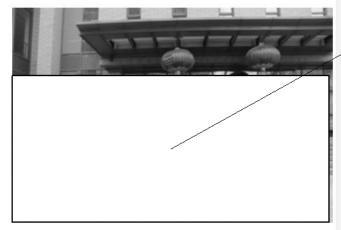
Metabiota) gave a keynote talk on the "Global Virome Project". This meeting represents the largest yearly gathering of genome scientists and technologists (~800).

Beijing: Feb. 5th - Feb. 8th

During their time in Beijing, (b)(6) and others met for the GVP steering committee meeting and "Launched" the China National Virome project! Audiences included USAID China colleagues, the GVP core group, steering committee, and working group co-leads, senior representatives from the Chinese Academy of Sciences, China CDC, the leadership from the Chinese Academy of Sciences International Affairs Division, and the health/science representatives from Embassy Beijing (State, USAID, NSF, HHS, CDC, NIH, etc.). We look forward to the Embassy's continued support of this opportunity moving forward.

GVP Steering Committee: The GVP meeting was the second meeting of the steering committee
and the first meeting of the extended group (working group co-leads). In addition to be a

productive session helping to map out the way forward, the opportunity to bring together the individuals working in different technical areas allowed for extensive cross-talk and coordination.



<u>"Launch" of the China National</u>
 <u>Virome Project</u>: The Chinese Academy

of Sciences and the China CDC co-hosted a scientific forum to: 1. Present GVP, and 2. Higlight ongoing Chinese scientific work that aligns with GVP. Our Chinese colleagues are very enthusiastic about being a "first wave country" for the GVP – meaning that they would begin a National Virome Project. The next step is for them to set up an internal meeting to map out the way forward on their end.

Bangkok: Jan. 28th - Feb. 3rd

Several ETD members and other partners met in Bangkok, primarily to attend the PMAC 2018 planning meeting, PMAC 2017 side meetings on AMR & OneHealth Workforce, and to present on the GVP to Thai colleagues:

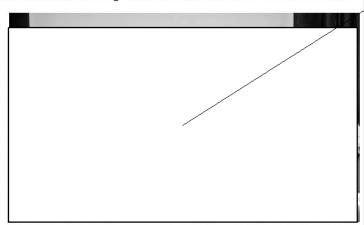
- AMR meeting: 125 participants from ministries of Ag and Health from 7 Asian countries and an equal number of major private sector firms (livestock producers, retailers and suppliers).
 Strong endorsement of expanded engagement across region for characterizing anti-biotic use among producers and promotion of good stewardship. Concrete next steps identified.
 Private sector has initiated steps to co-sponsor a similar meeting in Cairo to cover Middle East producers.
- One Health Workforce: a regional meeting bringing together representatives from across the OHW network in SE Asia and Africa and equivalent representation for similar networks funded by WB and Australia in South Asia. Highly interactive and laid the foundation for a broader

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"web" of engagement across multiple networks.

<u>GVP</u>: a very well received presentation and discussion on GVP to a broad cross-section of Thai
government leaders, scientists and educators. Strong endorsement of role of the RTG in GVP.

PMAC 2018: first meeting of the International Organizing
 Committee for PMAC 18 - with the theme of "Making the World Safe from the Threats of Emerging Infectious Diseases".
 USAID has a strong leadership role in planning for this



meeting. PMAC 18 will cover both emerging viral threats as well as antimicrobial resistance. Abstracts should be submitted by following this link.

San Francisco: Jan. 24th - Jan. 27th

During their time in San Francisco, folks held a series of GVP outreach meetings, notable with The Chan-Zuckerberg BioHub, Illumina, and the Science Philanthropy Alliance. All outreach meetings were successful in that colleagues expressed strong support and enthusiasm for the GVP:

• Illumina: (b)(6) (Metabiota), (b)(6) (USAID), (b)(6) (Metabiota) gave a presentation to senior Illumina management on the Global Virome Project. Illumina representatives included: (b)(6)

(b)(6) Discussions

included potential involvement of Illumina in the GVP, during which key representatives expressed a very strong interest in serving as a partner, focusing on the development of the "next generation" of technology related to diagnostics. Their involvement has potential to speed up the process through introduction of new technologies (similar to what occurred during the Human Genome Project).

Science Philanthropy Alliance: SPA is a "clearing house" for a dozen major foundations

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interested in supporting "transformative science". They expressed a strong sense that GVP was very much aligned with a number of their member foundations and are taking steps to facilitate future discussions with participating foundations

• <u>Chan-Zuckerbeg BioHub</u>: The <u>BioHub</u> (Stanford/UC Berkeley/UCSF) is interested in working with the GVP around the samples which will be collected and new technologies which may be used as part of the big data generated.

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Each working group continues to pursue deliverables planned for completion this May. Of note will be updates from the Science & Technology Team, which we will share in the next edition of As the Virome Turns.



- GVP is Featured in Techonomy
- (b)(6) writes for the O'Neill

Institute for Global Health and Law

Are you a new reader?

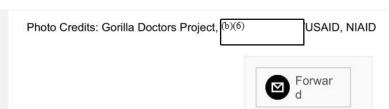
- Subscribe Here
- · Read past editions here
- Contact (b)(6)
 at (b)(6) @usaid.gov if you would like to submit content for future editions of "As the Virome Turns"

Upcoming Events

- The Beginning of the End of the Pandemic Era: March 17
- SEAOHUN Fellowship Program
 Application Deadline: March 31
 An excellent opportunity for qualified individuals to gain practical, transdisciplinary experience and contribute productively to One Health related projects at several host organizations.

 Follow this link to learn more and apply!
- PMAC 2018: Call for Abstracts, March 31,2017







This email was sent to (b)(6) @usaid.gov

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 $\text{GVP Core Team} \cdot \text{Ronald Reagan Building} \cdot 1300 \text{ Pennsylvania Avenue NW} \cdot \text{Washington, DC 20004} \cdot \text{USA}$



<BeijingGVPExecutiveSummary.docx>

Global Virome Project (GVP)

Steering Committee and Working Group Meeting
Beijing, China
6-7 February, 2017
Executive Summary

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Drafted by $^{(b)(6)}$ with input from: $^{(b)(6)}$ Peter Daszak, $^{(b)(6)}$ and $^{(b)(6)}$



Executive Summary

The Inaugural Global Virome Project Steering Committee and Working Group Meeting was held on 6-7th February 2017 in Beijing, China. This was the first global in-person meeting on the Global Virome Project (GVP) since the Bellagio Forum in August 2016. Since Bellagio, where 18 transitional steering committee (SC) members identified the goals and vision of the GVP, eleven working groups (WGs) have been formed in three thematic areas: Governance, Science & Technology, and Implementation.

The objectives of this meeting were three-fold: 1.) to report on working group, core group, and steering committee progress made since Bellagio, 2.) to discuss and seek feedback on evolving strategies related to governance, outreach, communication, resource mobilization, and stakeholder engagement, and 3.) to establish and strengthen relationships among working group chairs and the steering committee, identifying issues shared by different groups and planning further collaboration.

1. Progress made since Bellagio

Since May 2016, members of the GVP core group have met with 13 high-level individuals and 20 (philanthropic, academic, multilateral or governmental) organizations. They presented the GVP at 14 conferences or public fora. The Bellagio Initiative statement and briefing documents were published on a new website (global wire presented for regular distribution. A policy forum paper is under review in an academic journal, and members of the core group have been interviewed in the lay press. The GVP has also been discussed in the popular press.

Working group co-chairs were identified and invited, and each working group compiled and presented the key activities, challenges, and opportunities facing its group.

Several countries have shown significant interest in the GVP, and certain of those countries have been discussed as "countries of opportunity" for launching a first wave of the GVP. These countries include China, which hosted a meeting following this convening on the "China National Virome Project."

2. Governance, outreach, and communication strategies

The Global Virome Project is coordinated by a core group with representation from USAID, UC Davis, EcoHealth Alliance, and Metabiota. The core group, steering committee, and working group meetings have been partially funded by USAID, while participating working group cochairs and steering committee members from a host of additional organizations currently participate on a voluntary basis. As this structure is transitional, the long-term organizational structure of the GVP was discussed during the meeting, including the role of a possible Senior Advisory Board. Additionally, the group discussed possible efforts to augment input into the



core group, including tapping into the steering committee on a periodic basis (while taking into account practicalities around time zones, workloads, etc.), following the Beijing meeting. The creation of a freestanding NGO, with an international search for president, was discussed as a plausible governance framework for the long term functioning of the GVP. It was agreed that the GVP should not be a for-profit venture, and that the long-term composition of the overall effort should have diverse global representation.

The team discussed the need to break down the \$3.5 billion total price tag of the GVP into a "menu" of smaller projects. Different ways to break this down – by region, country, species, viral group, or category as well as specific technology contributions – each present their own challenge. Part of the modeling team's role will be to economically optimize a field sampling strategy based on biodiversity and accessibility, but local capacity and country-specific laws and protocols must be factored into the costs. Beginning in a "first wave" of countries may increase interest in the project and allow other countries to join and jointly fund the project after value has been demonstrated.

The GVP's scope and goals – particularly, how to communicate the boundaries and scope of such a broad-reaching project and how to ensure the GVP has public health impact beyond academic research – were discussed at length, and this feedback is being incorporated into the mission and vision statements.

3. Working group intersections and collaboration Withheld pursuant to exemption

During the session when each of the working groups had short meetings each of the other working groups, areas of overlap were identified. "Sister" working groups – (e.g. metadata platform and data management) – committed to working together to achieve the most scientifically sound and feasible strategies for delivering on the GVP's goals were also identified.

established a May 1 goal for the first working group deliverables. It was agreed that generally, the strategic planning of the Science & Technology working groups should precede the tactical delivery of the Governance and Implementation working groups.

The way forward

All participants were called upon to present to their networks in upcoming conferences, meetings, and public fora, and the pitch deck and other explanatory materials will be shared with all participants. Many members of the steering committee expressed intereste in increasing their involvement, and were invited to reach out to the co-leads of working groups that interested them to join the budding working groups.

There was additionally a commitment to establishing an online hub where working group participants could communicate, upload files, jointly work on documents, and otherwise interact. Thematic leads were tasked with setting up a call schedule for their working groups and working with their groups to develop roadmaps.

From: [b)(6)

Sent: Mon, 13 Aug 2018 17:59:13 +0000

To: [b)(6) Peter Daszak; (b)(6)

Cc: [6)(6)

Subject: [GVP] Action Requested - Update Thailand Agenda

Attachments: 04 Thailand National Virome Project_Draft Agenda_June 29 (b)(6) docx

Hi GVP Colleagues,

As per our conversation on Thursday, we would like to request your assistance in updating the agenda for the Thailand National Meeting, to be held Oct. 24-25 in Bangkok. In particular, we would like to ensure that speaker name and session titles have been added.

Please input your edits to<u>this google doc</u>. If you're unable to access it, I have also attached a recent draft of the agenda in which you can make your edits. In case helpful for framing, I've pasted below some feedback from the GoT that Sudarat shared.

We would appreciate your feedback by COB Wednesday, 8/15.

Thanks!

Feedback

Please see attachment the 2nd draft agenda from the prep meeting on July 17. They would like to hear more details on GVP including questions and answers, the support of the project, more concerns on virus and sequencing information, modeling, data analysis. Additionally, they would like to hear more form China if China already starts the project and on the process of establishing China national virome project.

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U.S. Agency for International Develop Bureau for Global Health, Office of Int		s Division
Desk: (b)(6) Cell: (a) (a) (a) (a) (a) (a) (a) (b) (b) (c) (a) (a) (a) (a) (a) (b) (d) (a) (a) (a) (a) (a) (a) (a) (a) (a) (a	J	
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Roundtable Dialogue Toward Establishing a Thailand National Virome Project

September 2018 (TBD)

Objectives:

- · Further introduce and update status on the Global Virome Project
- Identify and synthesize Thailand's viral discovery and risk analysis expertise
- Discuss Thailand's capacities in the context of the GVP, and build consensus around key goals to be achieved in developing a Thailand National Virome Project

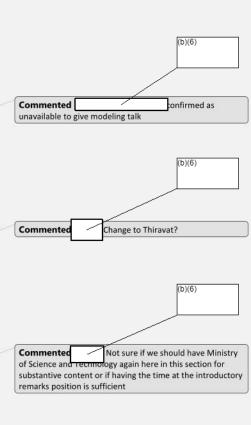
Expected Outputs:

- Summary report and synthesis of Thailand's viral discovery and risk analysis landscape
- Draft roadmap and iterative milestones in developing a Thailand National Virome Project

September xx, 2018

8:30 – 9:00 am	Registration	F	age 282 of 767
I. Introd	uction	-Withheld pu	irsuant to exemption
9:00 – 9:30 am	Opening Remarks -Ministry of Public Health -Ministry of Science and T	, DMSC	ormation and Privacy Act
9:30 – 10:30 am	Presentation of the Globa	Il Virome Project	(b)(6) Requested issues to be covered 1. Background 2. IT infrastructure, Data management & sharing 3. Governance 4. Budget / site 5. Sample repository, sharing and MTA 6. IP 7. Related regulations/int. protocols

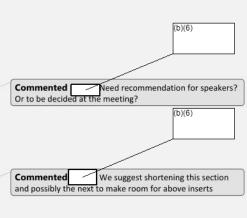
		8. Experiences &lesson learned from past projects (conflicts, problems, difficulties) 9. Capacity building 10. Q&A
10:30 - 11:00	Coffee Break	
am II. The M	 echanics of a Global Virome Project	
11:00 – 11:45	GVP Structure at Global and National Levels	(b)(6)
am	- Thematic Areas:	
	Governance; S&T	
	Implementation	
	- Phased Approach	
11:45am –	Viral Discovery in the Global and Asia Regional	†
12:30 pm	Contexts: Key Lessons and Experiences	
12:30 – 1:30 pm	Lunch	age 283 01 707
1.20 2.20	GVP Approach to sampling plan	Peter Daszak (if available)
1:30 – 2:30 pm		ormation and Privacy Act
	Proposed plan for GVP Information	(b)(6)
	Management (IM)	
	,	
2:30 – 3:00 pm	Coffee Break	
III. Thaila	nd's Viral Discovery & Risk Analysis Landscape (7 n	min each) (What have been
done,	not details)	3000 479
3:00 – 3:10 pm	Chulalongkorn University, Faculty of Medicine, Center for Viral Zoonoses	(b)(6)
3:10 – 3:20 pm	Mahidol University (Tropical Medicine Faculty)	+
3.10 – 3.20 pm	Wallidor Offiversity (Tropical Medicine Faculty)	
3:20 – 3:30 pm	Mahidol University (Faculty of Veterinary	⋕
*************************************	Science)	
3:30 – 3:40 pm	Ministry of Science and Technology	
3:40 – 3:50 pm	Ministry of Public Health, Department of	+ -
5.40 5.50 pill	Medical Sciences, National Institute of Health	<u> </u>
	(NIH)	
3:50 – 4:00 pm	NSTDA	
P	PART A TORK	



	Short break	
4:10 – 4:20 pm	Ministry of Ag and Cooperatives, National Institute of Animal Health	(b)(6)
4:10 – 4:20 pm	Thailand Research Fund	TBC
4:20 – 4:30 pm	CRI	
4:30 – 4:40 pm	DDC&BIDI? One Health Coordinator?	
4:40 – 4:50 pm	AFRIMS or US CDC?/FAO	

September xx + 1, 2018

8:30 – 9:00 am	Summary of Thailand's Viral Discovery & Risk Analysis	To be presented in
	Capacities, Equities, and Expertise	a synthesis form, by category (e.g. diagnostics,
	Page 284 o	interface
	Withheld pursuant to e	characterization)
	of the Freedom of Information ar	
		presentations
9:00 – 11:30 am (including coffee break)	Introduction to Group Deliberations and Group Discussion - Moderated Breakout Groups By Thematic Area to Discuss Structural Options for a Thailand Virome Project	
11:30 – 12:30 pm	Readout of Group Discussions by Thematic Area - Governance - Science and Technology - Implementation	List of issues to be discussed should be provided Request for information from the previous meeting for preparation of the



12:30 –1:30pm	Lunch	
V. Road	map to a Thailand Virome Project	
1:30 – 3:00 pm	Draft Roadmap Development and Next Steps - Presentation of draft roadmap following thematic area recommendations - Key milestones - Q/A	
3:00 – 3:30 pm	Summary and Closing Remarks	

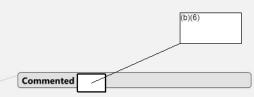
Participating Institutions (tentative invitation issuance):

1. Ministry of Public Health , Department of Medical Sciences (DMSC), National Institute of Health 4 DDC/4

2. Ministry of Agriculture and Cooperatives , National Institute for Animal Health (NIAH)

3. Ministry of Natural Resources and Environment, Department of National Parks (DNP)

DCF	artificite of National Larks (DIVI)		
	4. Ministry of Science and Technology, National	ge 285 of 767	2
Scie	ence Technology Development Agency (NSTDA) neld purs	uant to exemption.	-
	of the Freedom of Information Chulalongkorn University, Faculty of Medicine,	mation and Privacy	Act
Cen	ter for Viral Zoonoses		
	6. Mahidol University, Faculty of Tropical Medicine		2
	7. Mahidol University, Faculty of Veterinary Science		2
			2
	8. Mahidol University, Faculty of Science		2
	9. CU EIDAS Center 1 (AH) ข อลงกรณ์		-
			1
	10. Thailand One Health University Network (ThOHUN)		1
	11. Thailand Research Fund (TRF)		
	12. Food and Agriculture Organization of the United		1
Nat	ions		_
	13. World Health Organization		3
			1
	14. U.S. Centers for Disease Control and		
Pre	vention/Thailand		2
	15. Armed Forces Research Institute for Medical		2



Sciences (AFRIMS) 16. U.S. Agency for International Development 3 17. U.S. Embassy Bangkok 1 18. Zoo Park Organization of Thailand 2 19. (b)(6) 20. 21. 22. 23. 24. (b)(6) 25. BLQS 1 26. The Thailand Research Fund Page 286 of 767 27. TCELs 2 Withheld pursuant to exemption $^{\,1}$ 28. IHPP 1 of the Freedom of Information and Privacy Act (b)(6) 1 30. King Mongkut's University of Technology Thonburi (KMUTT) 31. Chiangmai University 32. MFA, Department of Treaties and Legal Affairs 33. chulabhorn research institute 1 34. ข อรูณี ศิริราช 1 51 working group 35. Admin 36. Facilitator 37. Note Taker

Total

38. Raporteurs

13

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of the Freedom of Information and Privacy Act

Sent: Thu, 16 Feb 2017 21:26:20 +0000
To: (b)(6)
Subject: Fwd: China National Virome Project (CNVP) Initiative Meeting Follow-up
In case this is an easier way to get the photos (not sure why it would be, but just in case ;)).
(b)(6)
Emerging Threats Division
Office of Infectious Disease
Bureau for Global Health
U.S. Agency for International Development (USAID)
Desk: (b)(6)
Cell:
E-mail: (b)(6) @usaid.gov
Forwarded message
From: (b)(6)
Date: Thu, Feb 16, 2017 at 11:52 AM
Subject: China National Virome Project (CNVP) Initiative Meeting Follow-up
To: (b)(6) @im.ac.cn>
Download full resolution images

(b)(6)

From:

Available until Mar 18, 2017

Dear All,

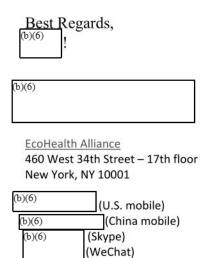
Thank you very much for joining us in Beijing for the China National Virome Project Initiative Meeting. We appreciate your insights and participation in the discussion about this initiative. We were also able to report this meeting and concept to the Chinese Academy of Sciences HQ with the US Embassy on Wednesday, optimistic responses were received and we all look forward to having further activities to move this project forward.

Because of the limited discussion time at the meeting, we would like to invite you to send to send and me any thoughts you have about this CNVP, in Chinese or English, including any opportunities to reach out, raise funds, and collaborate, and ideas to work together to build this into a national project. We will follow up to arrange more meetings and activities for discussion and communication as we move forward.

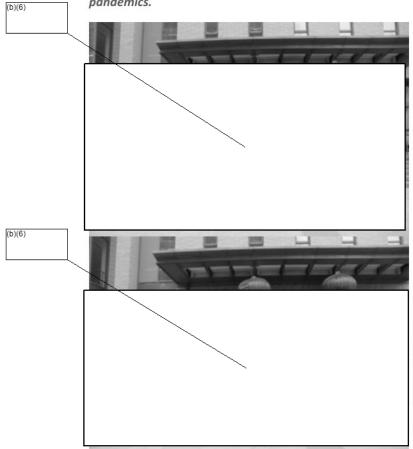
Group photos and presentation slides (in PDF) were attached, and more information about the Global Vriome Project can be found on its official

website: http://www.globalviromeproject.org//. Please feel free to let me know if you have any questions as a result of this meeting.

Thanks again, hope to be in touch soon with further discussions and meetings.



EcoHealth Alliance leads cutting-edge research into the critical connections between human and wildlife health and delicate ecosystems. With this science we develop solutions that promote conservation and prevent pandemics.



Click to Download CNVP-pdf.zip 24.9 MB



Date

Name Address

Re: The Global Virome Project: From BIG SCIENCE to BIG IMPACT Making the 21st Century Safe from Emerging Viral Threats

Dear-Name

Thank you for your support of the Global Virome Project (GVP) to date. I would like to extend a formal invitation to the second meeting of the Global Virome Project (GVP) Steering Committee, planned for February 5-7, 2017 in Beijing, China.

Thank you for your interest and support of the Global Virome Project (GVP) to date. As you know, the GVP is a planned international science venture aimed at collaboratively generating and interpreting data to accelerate progress in combatting the threats posed by emergent viruses to both human and animal populations. The GVP represents a dramatic step towards mapping all of the planet's "high consequence" viral threats and enabling the building of a comprehensive toolbox of countePage:826 of 767 the prevention and control of future emergent threats which pose the greatest risk to humans.
Withheld pursuant to exemption

This participatory convening will involve participation of the GVP Steering Committee, the Thematic Area coleads, and the Working Group co-chairs. The goal of the meeting is to build upon the consensus vision developed during the Bellagio meeting and further refine the roadmap for the global launch of the GVP.

Momentum is building! With a focus on proactive vs. reactive defense in the face of new pandemic threats, the GVP promises to mitigate the social and economic consequences of these diseases. Now the best and brightest minds, including you, are being enlisted to provide leadership for a strategic approach to the project's governance. Our goal is to foster global ownership and international stewardship for the project.

As you are aware, the WGVP Working Groups have been envisioned developed to steer the planning and implementation of the GVP. They will beare organized around three major themes: _Governance, Science and Technology, and Operations, with specific working groups detailed below under each theme.

(b)(6)

Ethical, Legal, and Social Implications (ELSI) Governance/Advisory/Partnerships Intellectual Property (IP)

Science & Technology Theme, Co Chairs, Peter Daszak (USA/UK) (b)(6)

Modeling & Risk Analytics Metadata Platform Behavioral Risk

(China)

(b)(6) Commente Should the subject be related to the meeting invitation?



(b)(6)

General Management & Partner Engagement Communications & Outreach Field Operations Lab & Biosafety Implementation Data Management

Bringing together representative from the Steering Committee, Thematic Areas, and Working Groups will enable us to chart the path forward and identify the expected ongoing time commitment. We hope that you will be able to participate in this important convening.

Please confirm your participation by contacting XXXX,

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Now, as we build this alliance of partners, we are delighted to invite you to collaborate. Please consider the profound difference you can make by participating in this paradigm shift for global health as you contemplate your acceptance. Practically, there is a commitment. Already we would ask you to save the date for an introductory assembly of the working group leads in Beijing February 5-7, 2017. Reimbursement for travel costs will be provided. That meeting will help us to chart the path forward and identify the expected ongoing time commitment. To confirm your participation in the Beijing meeting and receive the logistical packet, please contact xxxxxxx

I look forward to your participation in this meeting, Thank you for considering,

(b)(6)		
(b)(6)	Emerging Th	nreats Division
U.S. Ager	ncy for Internation	nal Developmen
Office: (1)(6)	
Mobile		

(b)(6)
School of Withbelthours want the exemption versity of

Attached: GVP Bellagio Initiative

Working Group Terms of Reference

Commented Is this a generic one for their review? If this was for the WG chairs, then would

(b)(6)

From: Sent: To: Subject:	Tue, 18 Jun 2019 13:49:44 +0000 Peter Daszak Re: Timeline for the GVP 501c3 filing
:)	
U.S. Agency for Inter Bureau for Global He	national Development (USAID) (b)(6) alth, Office of Infectious Disease, Emerging Threats Division
Desk: (b)(6) Cell: E-mail: (b)(6) @usa	d.gov
(b)(6)	
On Mon, Jun 17, 2019 Dear All,	at 2:14 PM Peter Daszak < <u>daszak@ecohealthalliance.org</u> > wrote:
•	back in with you all and let you know where we are in the process of 1c3. Right now, the filing documents have been drafted, reviewed and and are back with our <i>pro bono</i> lawyers for final versions

We're planning to file on or around September 1st 2019 and at that point, or just before, we'll send documents out for your signatures. We'll then look for dates to set up our first Board meeting towards the end of the year, or early 2020.

In the meantime, we're still working hard to build the background case for the GVP with economic analyses of the return-on-investment case for the GVP, modeling to target surveillance, and extensive discussions with Thailand and China colleagues to work on the details of the Thai Virome Project (TVP) and the China Virome Project (CVP).

From:	(b)(6)
Sent:	Fri, 5 Jul 2019 16:22:10 +0000
10.	0)(6)
PAGE VINCENT DAYS	(b)(6) Peter Daszak; (b)(6) Re: Biosketch and agenda for the China Virome Project Meeting
Subject:	Re: Blosketch and agenda for the China virome Project Meeting
Hi (b)(6), All sounds good, than	ks so much!
3	
Best,	
(b)(6)	
	national Development (USAID) (b)(6) alth, Office of Infectious Disease, Emerging Threats Division
Desk: (b)(6) Cell:	d.gov
	,
(b)(6)	
For the title, I'll submi	t 6:39 PM (b)(6)
Cheers, (b)(6)	
On Wed, Jul 3, 2019 a Hi (b)(6)	t 5:09 PM @usaid.gov wrote:
	n updated version of bio and photo attached. Will this work? I'll and Peter on the other parts of your request.
Best,	
(b)(6)	٦