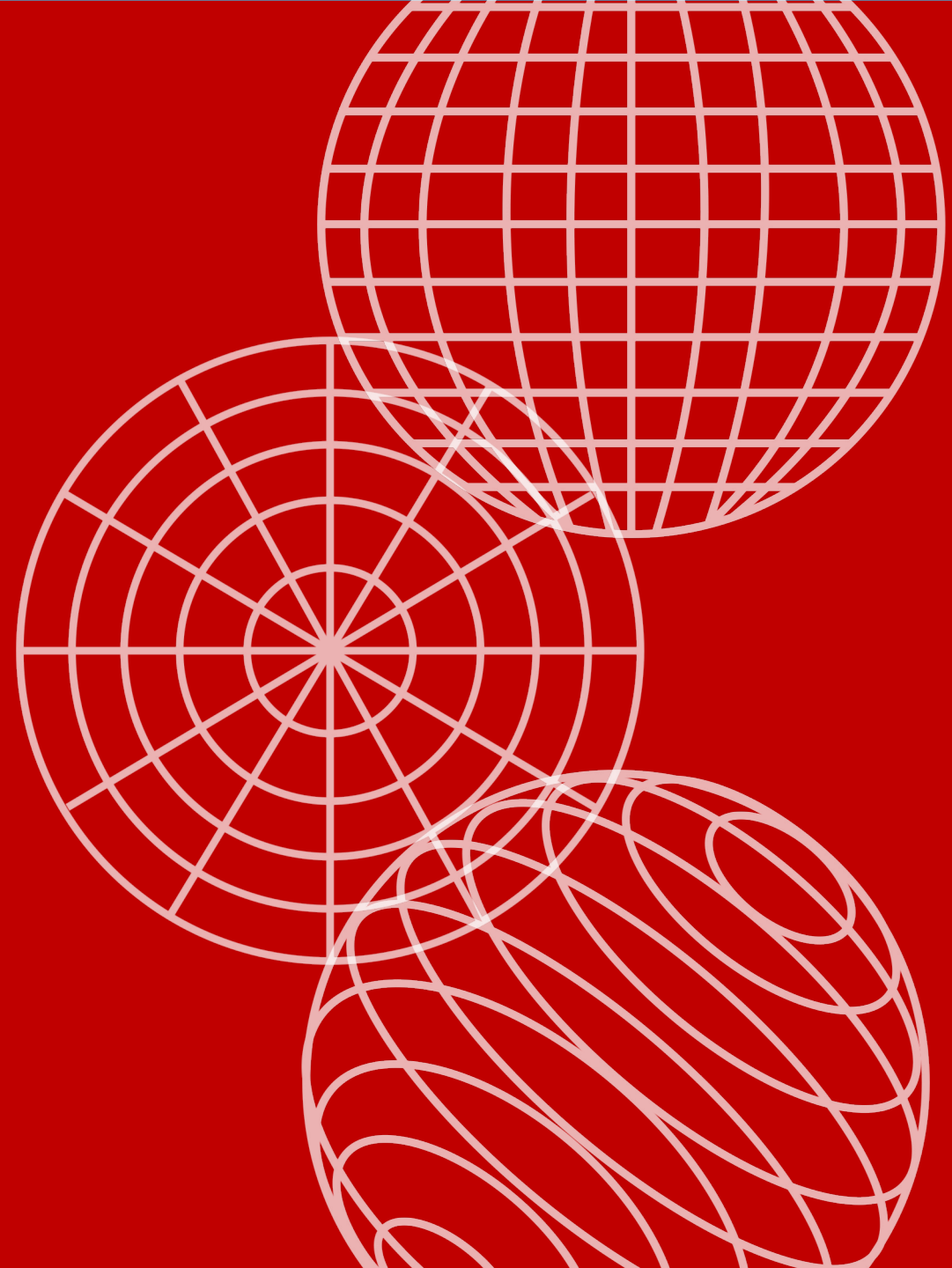




Global Health Institute
UNIVERSITY OF WISCONSIN-MADISON

UNIVERSITY OF WISCONSIN-MADISON
GLOBAL HEALTH INSTITUTE
AUGUST 8TH, 2023
ADVISORY BOARD RETREAT



MY EXPECTATIONS FROM TODAY'S MEETING

- Present the new structure of GHI
- Provide progress on GHI's strategic goals
- Receive your input & advice
- Networking opportunities



Global Health Institute

2023 Organization chart



Office of the Provost



Dr. Jorge Osorio
Director

GHI Board of Visitors

GHI Advisory Board



Calyn Ostrowski
Associate Director,
Strategic Partnerships &
Development



Dr. John Chan
Associate Research Professor

Khushi Tanna

Administrative Intern

Kendall Buehl

Communications Intern



Katie Newcomb
Communications Director



School of Veterinary Medicine
UNIVERSITY OF WISCONSIN-MADISON



One Health | Colombia
GLOBAL HEALTH INSTITUTE
UNIVERSITY OF WISCONSIN-MADISON

Dr. Juan Pablo Hernandez-Ortiz
Director

13 Staff

Three Post-Doctoral Students

Two Graduate Students

Two Undergraduate Students



One Health | India
GLOBAL HEALTH INSTITUTE
UNIVERSITY OF WISCONSIN-MADISON

Dr. Manoj Rajan -and- Dr. Ravi Kankanallu
Project Directors
(opening 2024)



One Health Center | West Africa
GLOBAL HEALTH INSTITUTE
UNIVERSITY OF WISCONSIN-MADISON

Dr. Alhaji Njai
Director

Five Hospital Partners
Three staff from each hospital

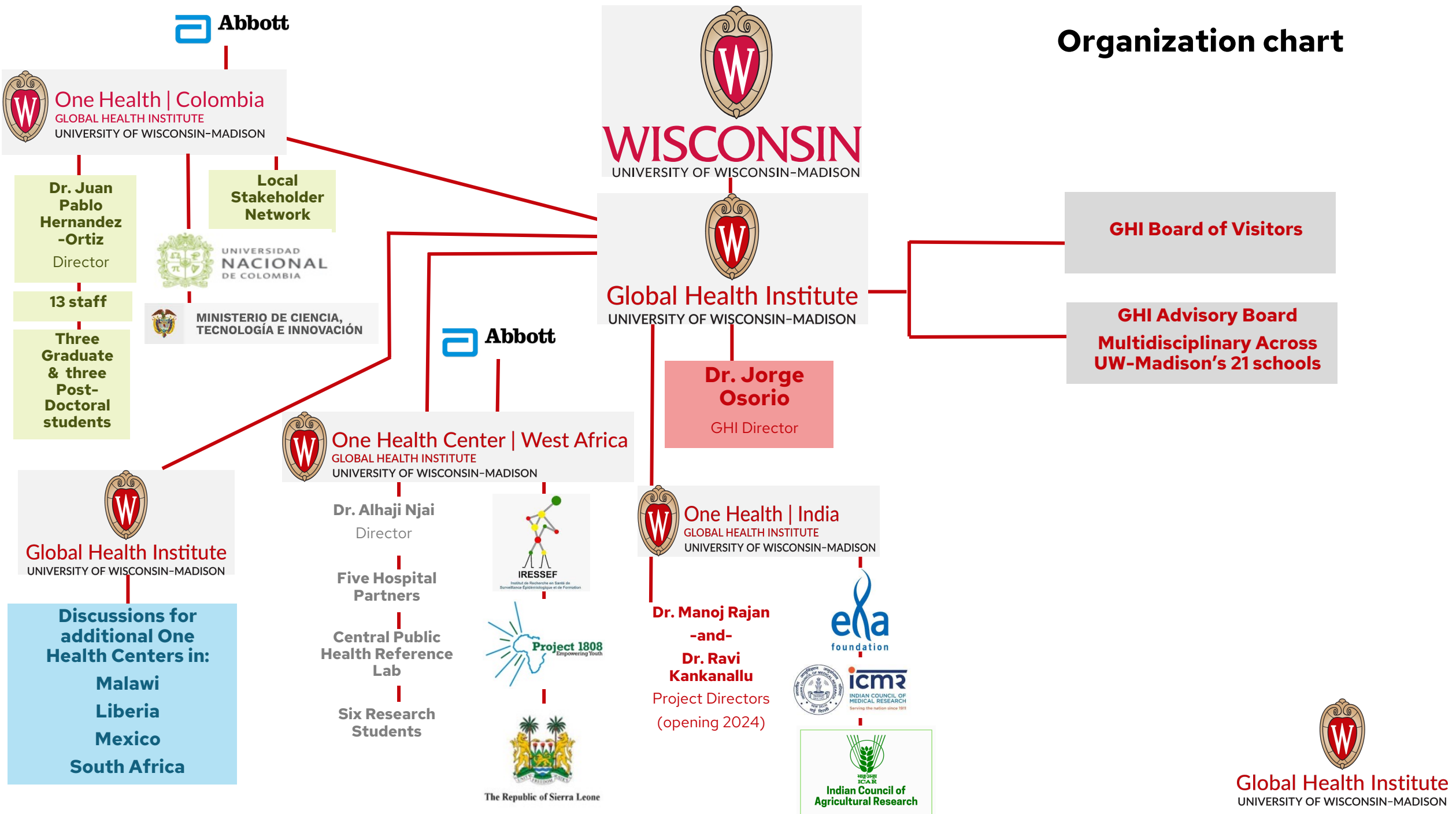
Central Public Health Reference Lab
Three staff
Four lab techs

Six Research Students



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Organization chart





**PLANETARY
HEALTH**

**ONE
HEALTH**

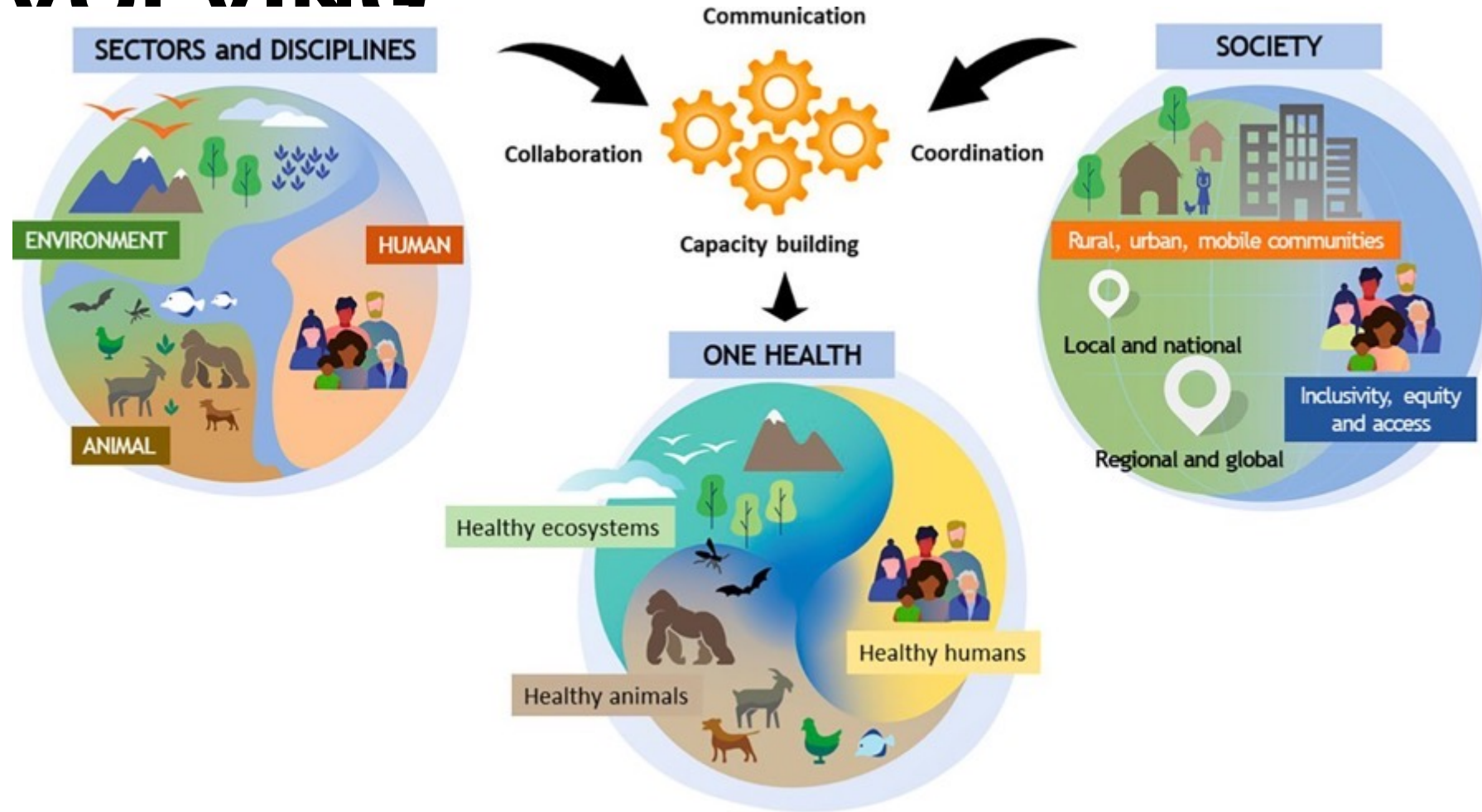
**ECO-
HEALTH**



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The One Health Concept...

IS EVOLVING



Our New Vision for GHI

- 5-Year Strategic Plan 2022 – 2027
- Expanding the Wisconsin Idea Worldwide
 - One Health Centers (LatAm, Africa, Asia)
 - Opportunities for UW faculty, staff and students to collaborate globally with communities, industries and universities in mutually beneficial partnerships
- Increasing diversity and equity
 - Graduate Student Programs for International Students
- Preparing UW and WI better for the next pandemic (WISER Center)
 - Advance global health security

Promoting One Health Centers in LatAm, India, West Africa



UW Research

- Advance UW research and US industry on Strategic Focus Areas

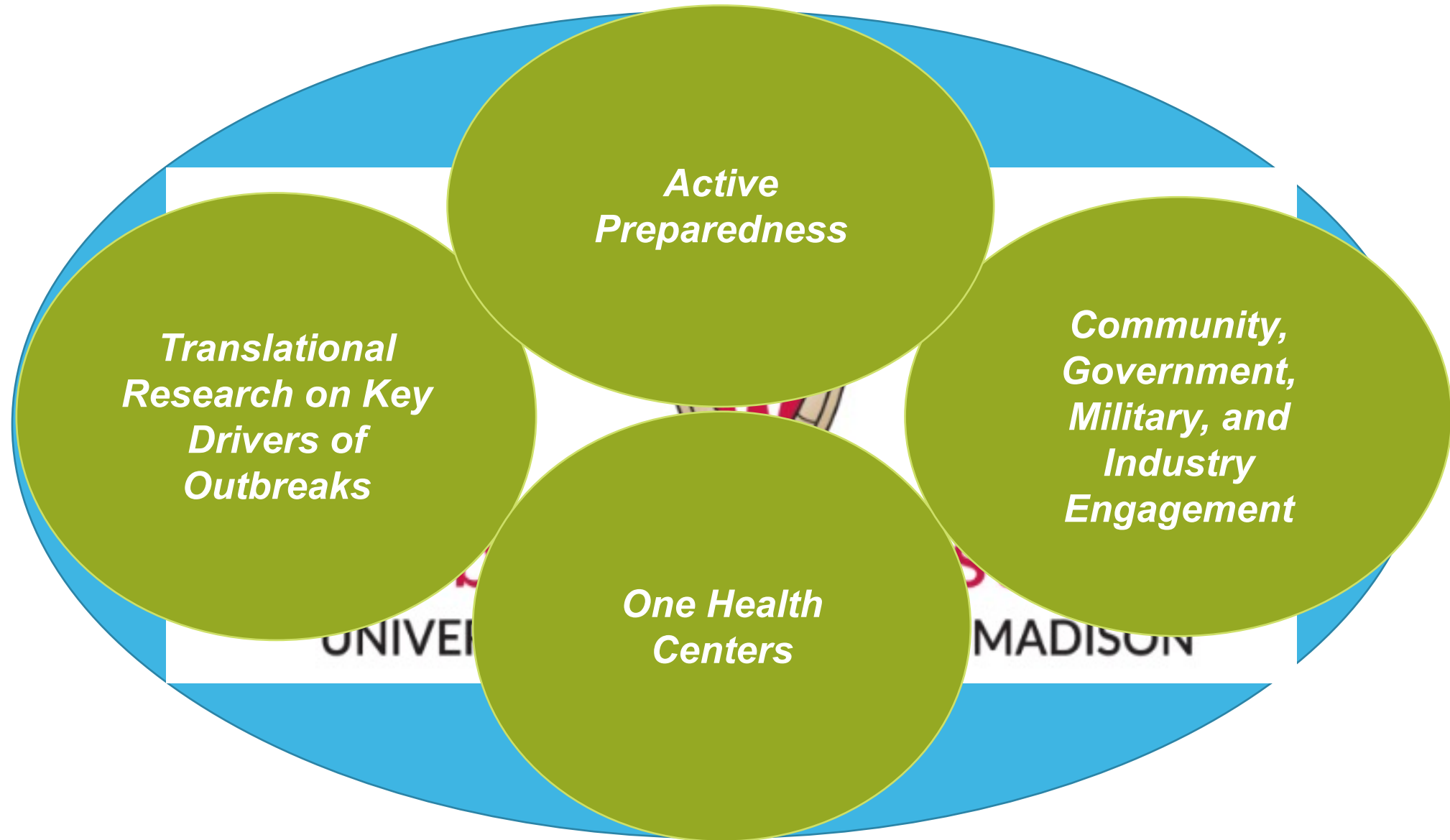
Capacity Building

- Training
- Pandemic Preparedness
- Global Health Security

- **Create a WISER Center:**

Wisconsin **I**nnovation to enhance **S**urveillance
and prevent **E**pidemics and prepare a strong
Response, **R**ecovery, and **R**econstruction

Create the WISER Center



From Reading to Writing the Genome

Writing the sickle cell gene in stem cells



Victoria Gray, sickle cell patient, treated with gene-edited stem cells; Source: Daily Mail

Writing in new genes into T cells



Emily Whitehead, blood cancer patient treated with CART cells; Source: Children's Hospital Philadelphia

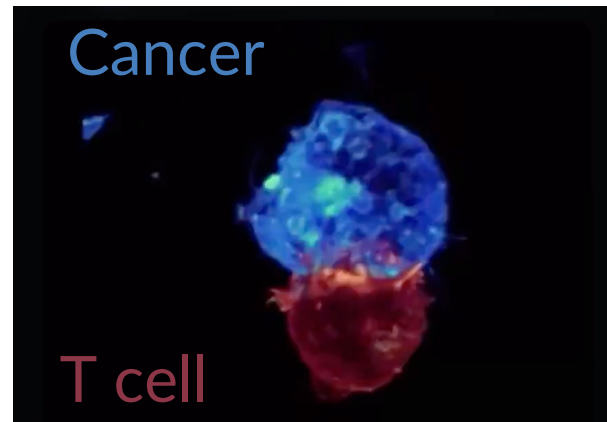
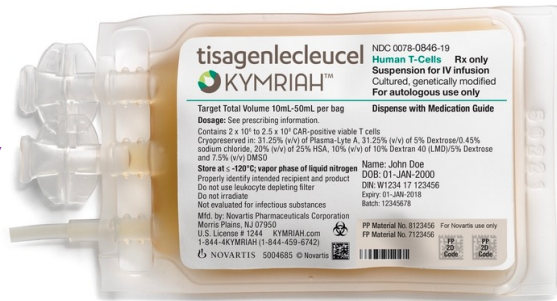
Writing a retinal gene within the eye



Michael Kalberer, retinal disease patient, treated with gene editing therapy; Saw colored lights at cousin's wedding..."joyous moment"; Source: Michael Kalberer

Drugs

Living cell therapy
\$0.37M/dose



Viral gene therapy
\$0.4M/eye



Illuminating possibilities.

Manufacture cellular therapies at lower costs and improve access.

- Leverages vaccine + other biomanufacturing and clinical infrastructure at BharatBio in Hyderabad
- Assets (CRISPR technology, cell lines) licensed from WARF
- In regular communication with Dr. Raches Ella at Bharatbio

Tier 1.0: Autologous T/NK cancer immunotherapies, Autologous hematopoietic stem cell therapies for blood disorders, gene therapies for rare diseases – products in 2-5 years

Tier 2.0: Allogeneic T/NK cancer immunotherapies – products in 5-10 years

Tier 3.0: Stem-cell-based allogeneic cell products - cancer immunotherapies, diabetes, neurological diseases, retinal diseases - products in 5-10+ years

Foster training and educational opportunities and collaborations with local institutions.

Perform clinical trials with novel cohorts and trial designs for diverse patient populations.



Setting up a GHI- One Health Center in India



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Alumni Panel with GHI & WARF



UW Tour of Bharat Biotech



UW Delegation & Alumni @ Utsav

GHI-One Health Center India

GHI's February India Trip Outcomes:

- Signed LOI with Ella Foundation
- Developing MOU with Indian Council of Agriculture Research
- Indian Council of Medical Research is listing UW-Madison as a partner organization
- Identified collaboration opportunities with the Bangalore Bioinnovation Center in the state of Karnataka
- Reviewed three proposed locations for GHI One Health Center in Bangalore
- Identified two programs (cancer/gene therapy and oral canine rabies vaccine) as potential targets for initial research at GHI-OHC; opportunities for WARF tech transfer
- Confirmed Dr. Manoj Rajan, Commissioner, Karnataka Disaster Management Authority and Special Secretary to Government of Karnataka, will be GHI's One Health Center-India Director for one year
- Identified One Health Trust as potential local NGO partner for GHI-OHC

Timelines:

- In 2023, Dr. Ella will invest \$10-\$15M into local GHI-OHC in Bangalore
- Dr. Ella considering \$7M gift to GHI; co-investment from UW into GHI