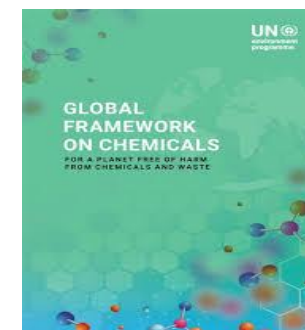


CWFPF ROUNDTABLE MEETING

Innovative Biotech: Cultivating Safe and Sustainable Systems from Feed to Food

Dr. Kitiya Vongkamjam

CEO and Co-Founder



PhagePromptTM Platform

Innovative Biotech

Cultivating Safe and Sustainable Systems From Feed to Food

Dr. Kitiya Vongkamjan
CEO & Co-founder
Email: kitiya.v@unifahs.com



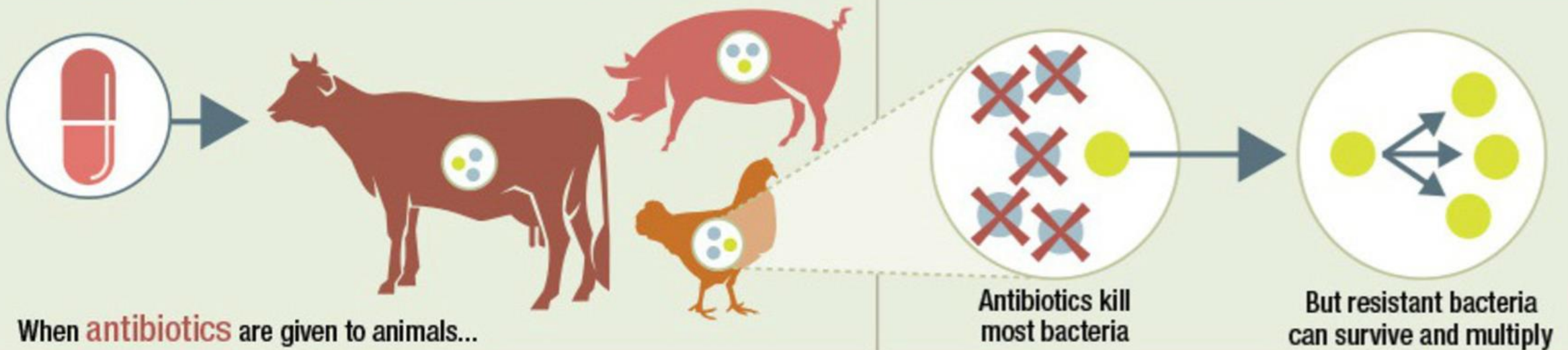
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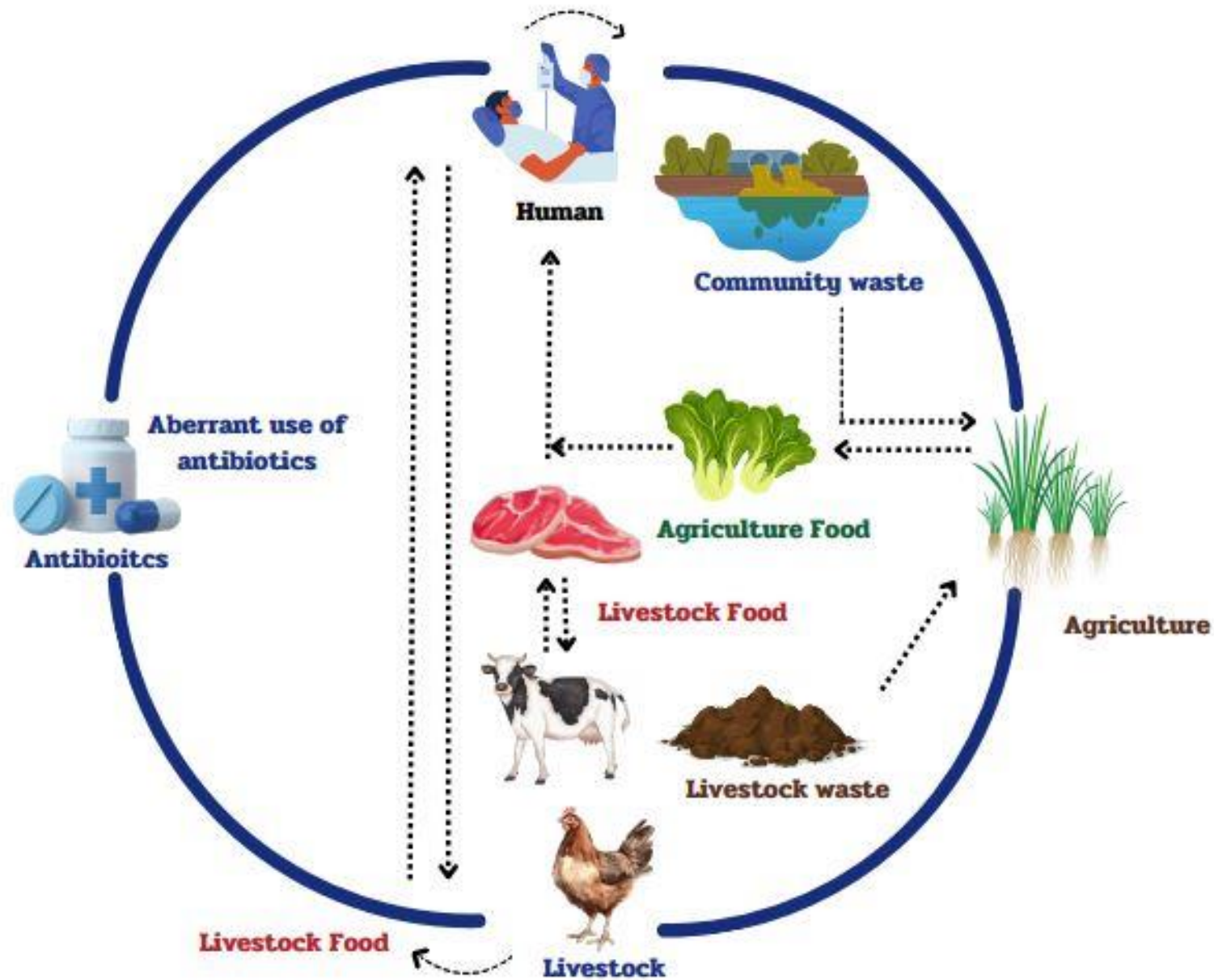
Superbugs (AMR) – The More antibiotics used, the Stronger the bacteria becomes



RESISTANCE Animals can carry harmful **bacteria** in their intestines



AMR – No. 1 cause of deaths in 2050 (10 million deaths) estimated by WHO.

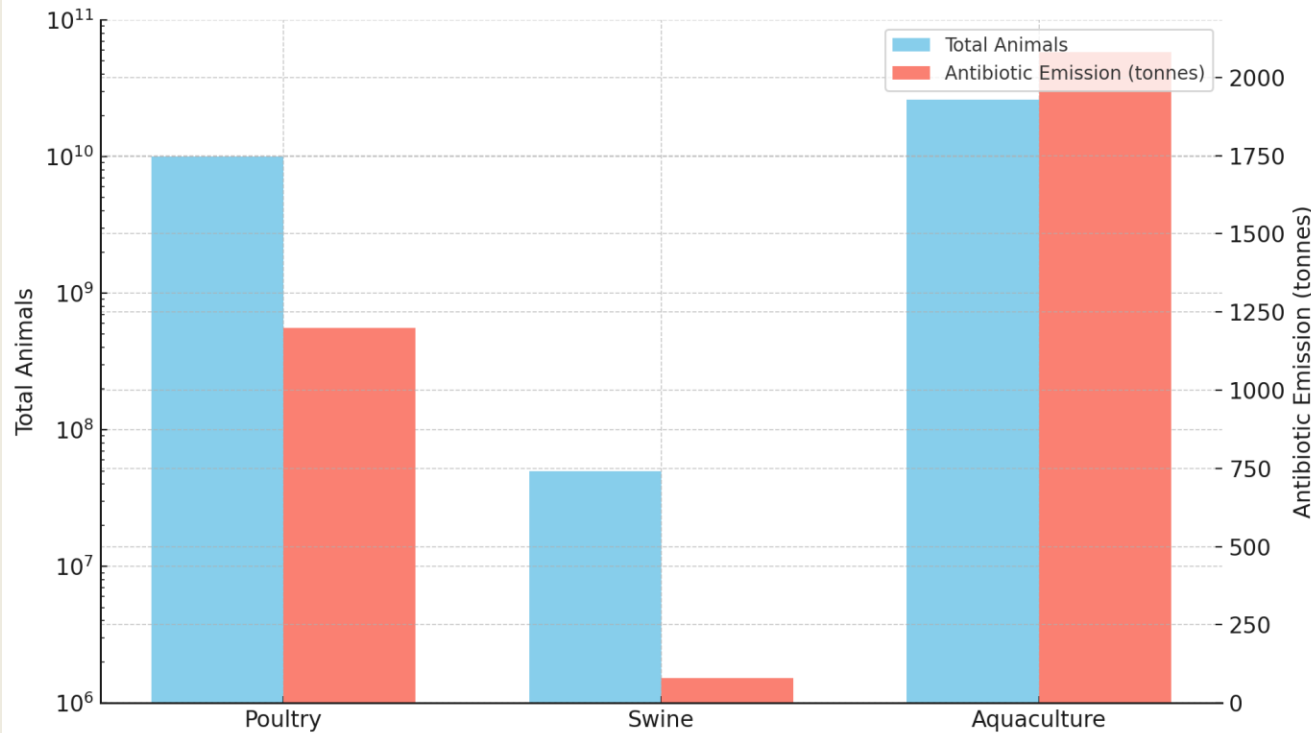


The Spread of AMR in Animals – Food – Environment – Human



High Unmetabolized Antibiotic Emissions From Food Animal Production in Our Region

Total Animals vs. Unmetabolized Antibiotic Emissions in ASEAN



30% – are not broken down but turning into residues that will enter the environment (wastewater, sediments, surrounding water or food chain)

In ASEAN each year, approximately:

Poultry: 1,200 tonnes

Swine: 80 tonnes

Aquaculture: 2,080 tonnes

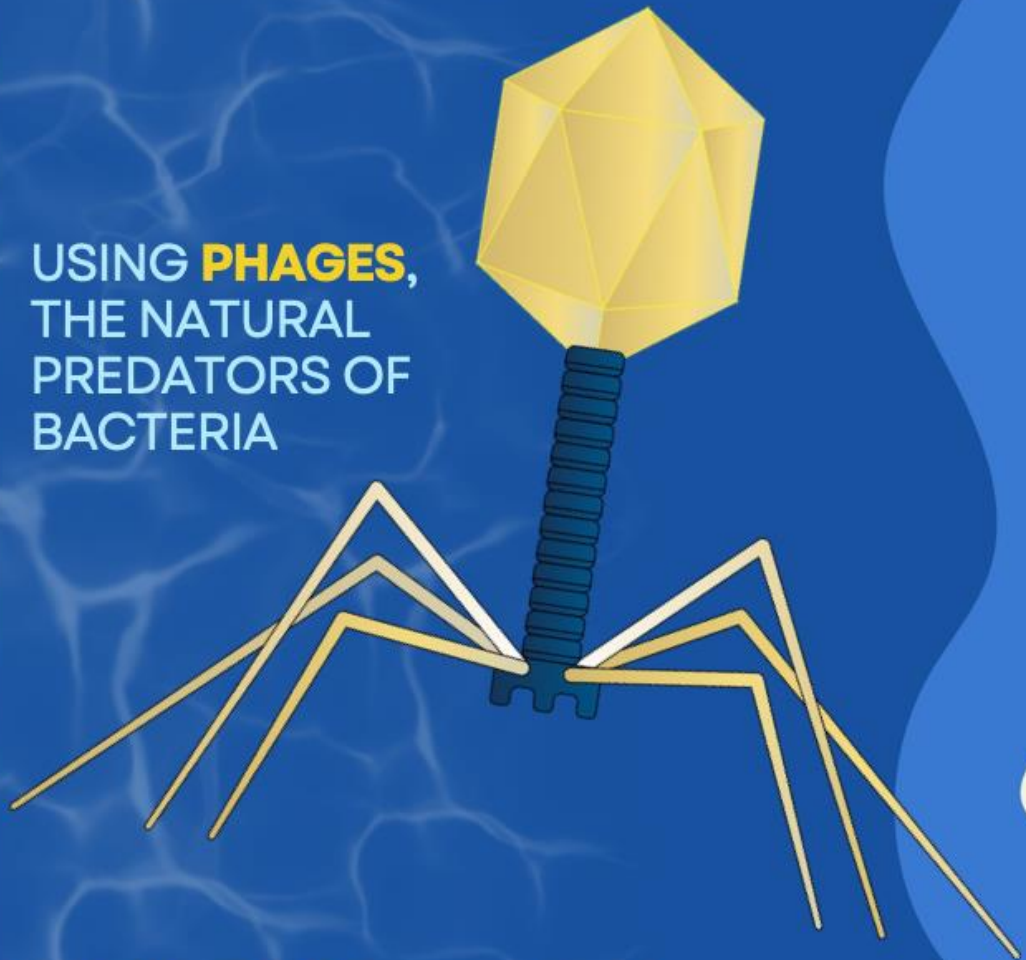
Totaling ~3,360 tonnes of environmental release across the region

Samreen (2021). Environmental antimicrobial resistance and its drivers: a potential threat to public health. Journal of Global Antimicrobial Resistance.

The UniFAHS Solution

Antibiotic Replacement

USING **PHAGES**,
THE NATURAL
PREDATORS OF
BACTERIA



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Patented Phage-Based
Technology + **Trade Secrets**

Fast Action in 15 min



1. Sourcing



2. Adsorption



3. Host lysis

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Phage (Bacteria Eater)



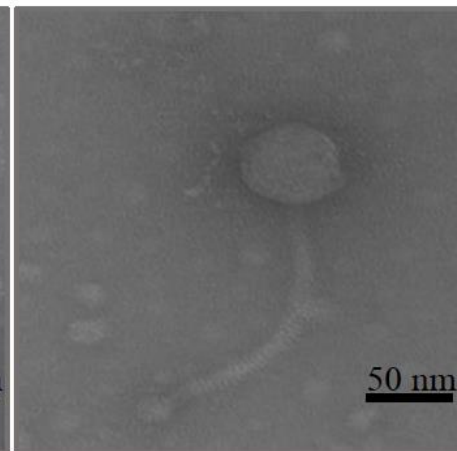
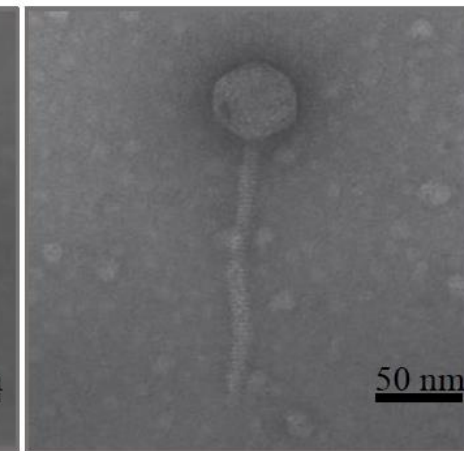
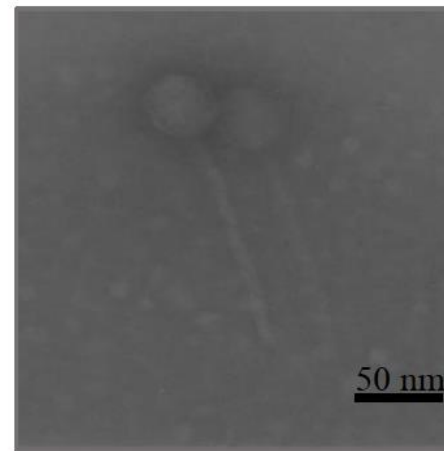
All natural
Non-GMO
from
environment

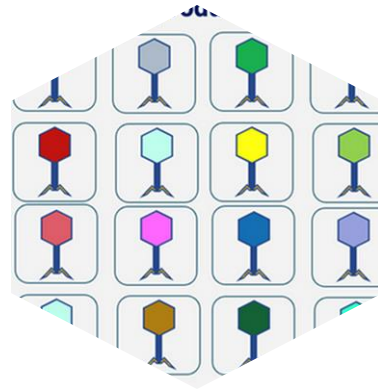


High killing activity
Fast 15 min
Precisely targeting
bad bacterial cells



Promote good
ecosystem of
Microbiome





Largest phage bank in SEA



Machine Learning:
Whole genome
sequencing & Phage-
host interaction
(One-on-One Engagement
with Each Client)

Customized phage-based solutions

- | | |
|---|---|
| ☐ <i>Salmonella</i> | ☐ <i>Staphylococcus</i> |
| ☐ <i>E. coli</i> | ☐ <i>Clostridium</i> |
| ☐ <i>Listeria</i> | ☐ <i>Pseudomonas</i> |
| ☐ <i>Vibrio</i> | ☐ <i>Acinetobacter baumannii</i> |
| ☐ <i>Campylobacter</i> | ☐ Other _____ |

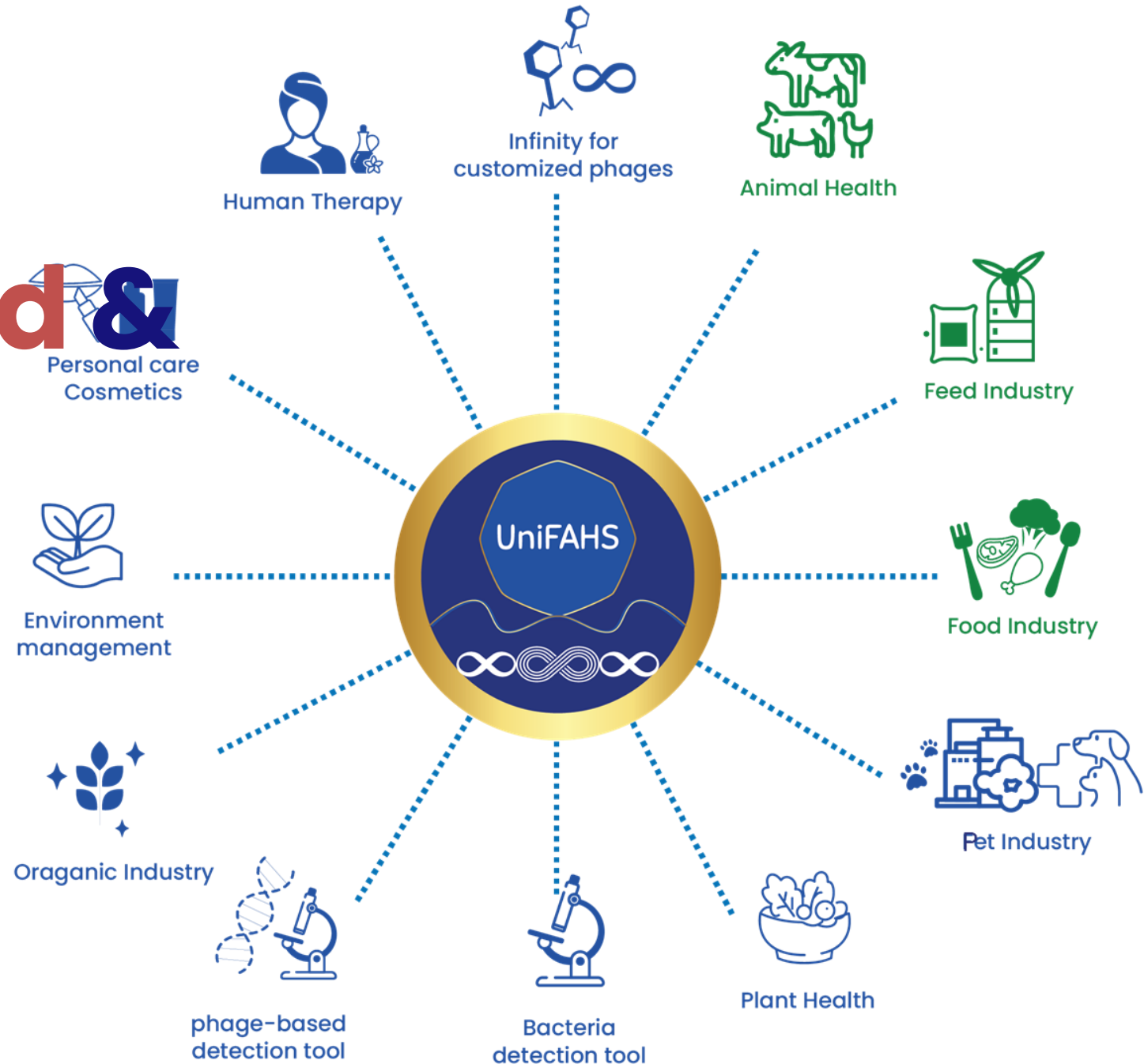
Precision & Accuracy >98%

Customized phage
formulation



Innovative Award-Winning:
Phage Technology

Ready to Serve Feed to Food & Beyond



PATHOGEN CONTROL IN LIVE POULTRY AND ENVIRONMENT

Phage-Tech SalmoGuard Product

- Oral administration to live 'food animals' before they are processed for meat
- Reduction of *Salmonella* in breeders and broilers
- Reduction of *Salmonella* on animal bedding

The UniFAHS Solution
Antibiotic Replacement



Mix in drinking water & feed

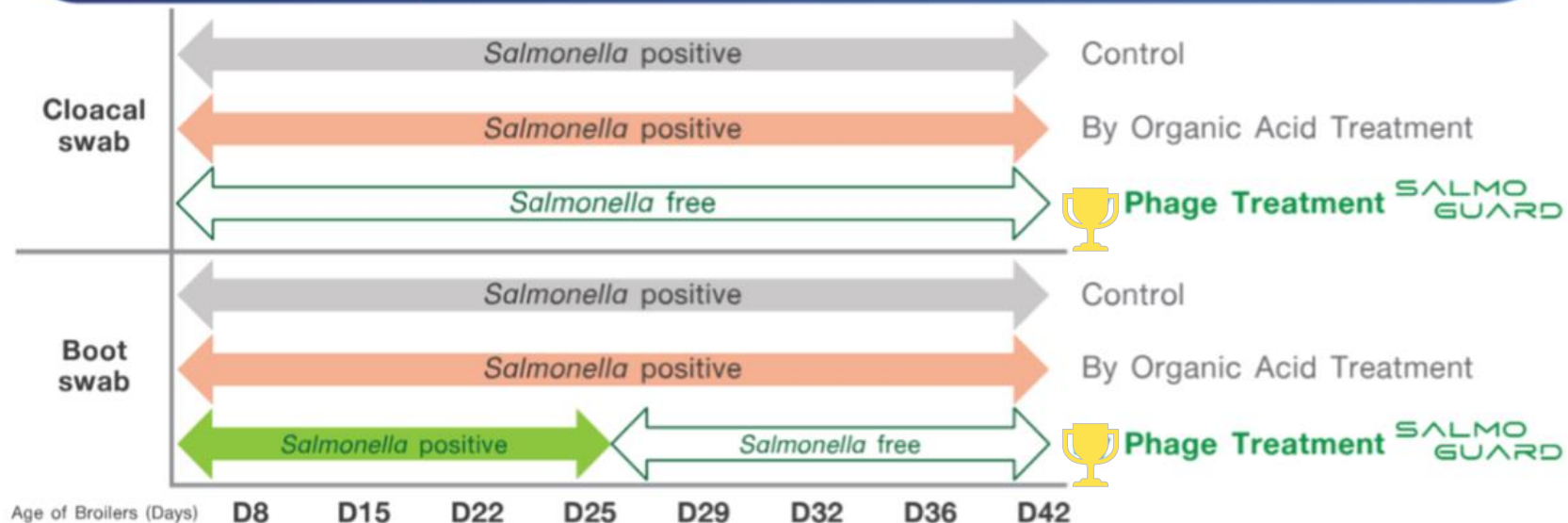


Effective *Salmonella* Control Solution



- Reduce *Salmonella* in poultry (breeders and broilers) by >80%
- Protect gut health (microbiome) of live birds
- Reduce mortality rate by 38%
- No need of organic acid or antibiotics

Efficacy of a Phage Treatment **SalmoGuard** for Controlling *Salmonella* in Broiler Production (1-42 Days)



Dipping/spraying solution for processed meat



Effective *Salmonella* Control Solution

- Reduce *Salmonella* in poultry meat by >90%
- No residue of chlorate in poultry meat
- Increase market opportunity in EU, UK, Japan

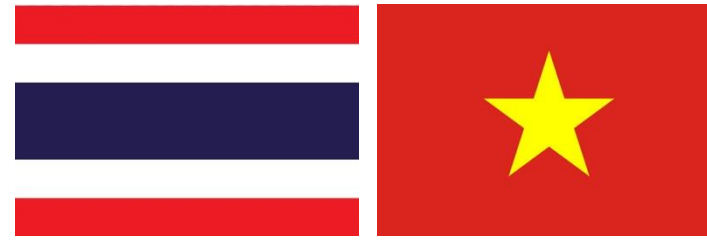


In aquaculture

Keep expanding the applications
with strategic partners



Effective Bacterial Control Solution for Seafood



APAC Largest Shrimp Exporters



From
the People of Japan

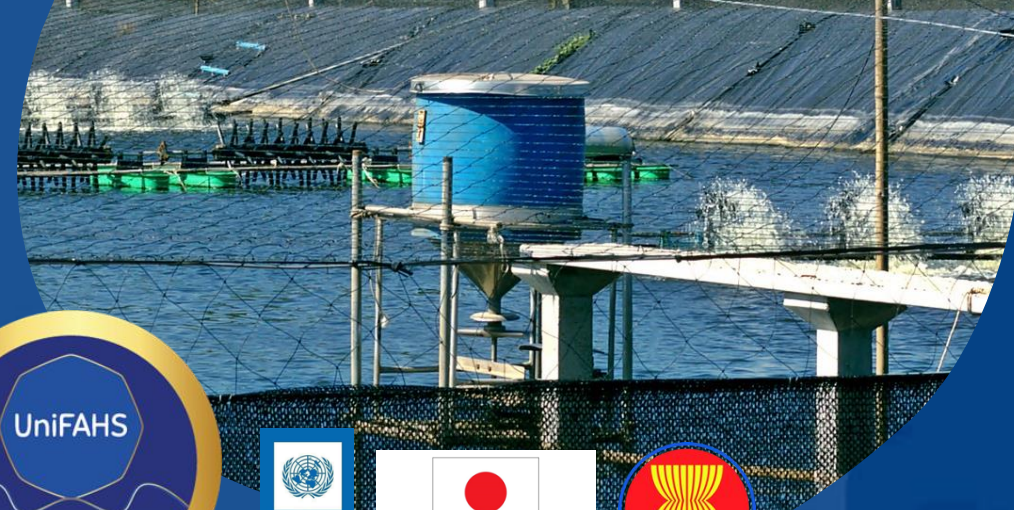


ASEAN Blue Innovation Challenge Winners

Application in Shrimp Farms in Thailand, Vietnam, Taiwan



- Easy to use in large farms
- Easy for storage
- Effective to control *Vibrio* spp.
- Safe for farmers



After 7 days, *Vibrio* Reduction > 80%



**Lower infection
& mortality
rates = cost-
saving by 20%**

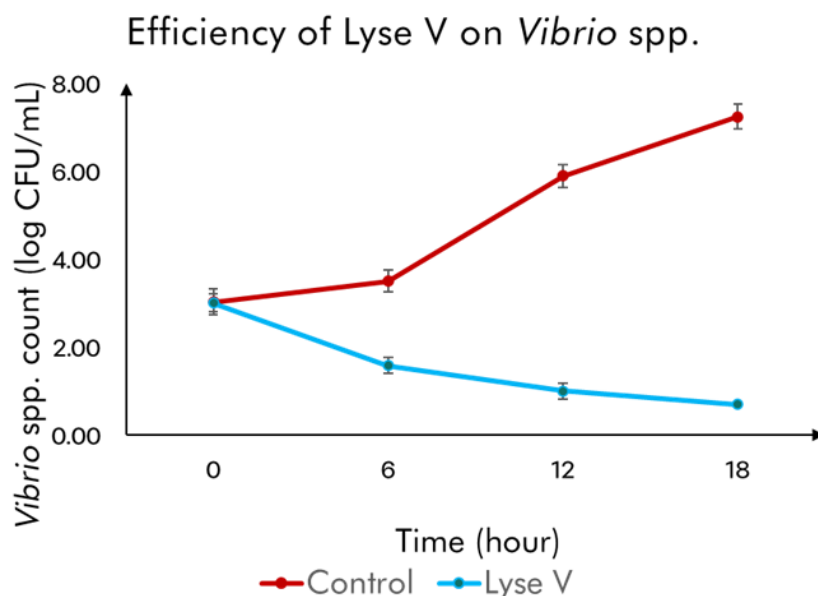


Figure 1. Lyse V efficacy to kill *Vibrio* spp.
(*V. cholerae*, *V. parahaemolyticus*, *V. vulnificus*, *V. harveyi* and *V. alginolyticus*)

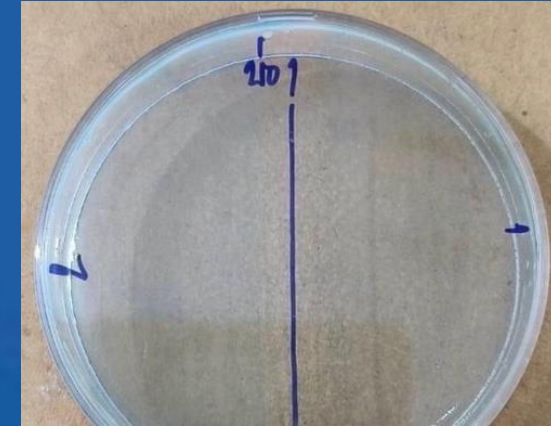
No Antibiotics

Application in large shrimp farms in Thailand



Premium Antibiotics-Free

(20 tonnes shrimps in 110 days)



UniFAHS' Customers: The World's Leading Producers of Poultry, livestock, aquaculture – in over 15 countries



UniFAHS | PhagePrompt™

Empowering Phages
to Take Care of Our Planet

Unique Phage-Based Solutions

for Food, Animal, Human Safety and Sustainability

Salmonella is a serious bacterial pathogen that can often found in the poultry production chain. *Salmonella* contamination in food products, especially poultry meat, eggs, and fresh produce can lead to foodborne illnesses and product recalls.

Salmonella can spread through the food chain via food, feed, water, infected animals, and animal or food production environment.

Phage Prompt™
FEED BIO PRO
25 kg.

**SalmoGuard™ (Premium)
Lyse V (Common)**

Novel encapsulated form of *Salmonella* phage cocktail and essential probiotics for *Salmonella* control in feed.

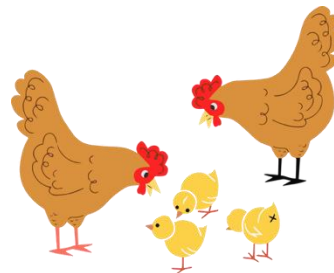
Effective *Salmonella* phage cocktail to tackle a wide range of *Salmonella* serovars in chicken digestive system.

ISO 9001 certified

Phage@UniFAHS.com www.UniFAHS.com LinkedIn: UniFAHS

Testimonials:

- Easy to use in large farms
- Easy for storage
- Effective to control *Salmonella*
- Safe for farmers



Key Milestones



We have demonstrated our platform's viability and unique positioning in the market

✓ 2023 Product-Market Fit & Partnership



✓ 2024 Seed Round & Scale- up for sustainable Food & Agri



✓ 2025-2026 Market expansion

- Farm / Feed sector
- Food processing sector

**Current:
Pre-A
round
fundraising**

WORLD'S LEADING Salmonella Control



2025: 4X Production in 2024

ISO Certified Standard of Phage Production in SEA



bsi.

Certificate of Registration

QUALITY MANAGEMENT SYSTEM - ISO 9001:2015



- ✓ In-house production of 20,000 L/mo
- ✓ Product registered in 7 countries + 4 (on-going)
- ✓ On-process for US FDA & AUS/NZ GRAS filing

Global Poultry Market



APAC: Largest Region for the Poultry Market
(2025: \$175.5 billion)

Major Players



Business Growth



2026 – Expanding in South Asia

- B2B
- Expand 3 SKUs
- Customer Acquisition Center in India for Initial Customization & Technical Support
- Key distribution partners
- Achieve >4X Revenue





- **Chalita Wongpakdee**, CMO
- **Dr. Pollawat Sriruengsuk**, Regional Sales and Key Account Manager - APAC
- **Surasak Charoenfuprasert**, Regional Sales and Key Account Manager
- **Dr. Varun Namdeo**, Technical & Commercial Lead - South Asia
- **Jitendra Kumar Namdeo**, BD Manager South Asia
- **Jeff Jaeho Lee**, BD Manager, South Korea
- **Dr. Vincent Guyonnet**, BD & Global Tech Support Director

UniFAHS BD & Sales Team

Thailand, India & SA, Malaysia, Vietnam, Taiwan, Philippines, Korea, UAE, AUS, NZ



Empowering sustainable phag to take care of our planet.



Food and Agriculture Organization
of the United Nations

FAO Global Conference “Animal Health Innovations”

Innovations to Reduce the Need for
Antimicrobials to Achieve Sustainable
Agriculture Transformation

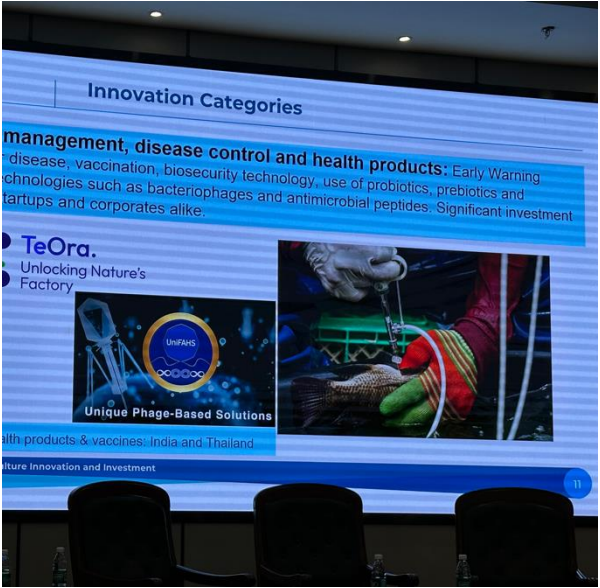
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FAO Headquarters, Rome, Italy.
September 23-26, 2024





AQUA-Hub APAC

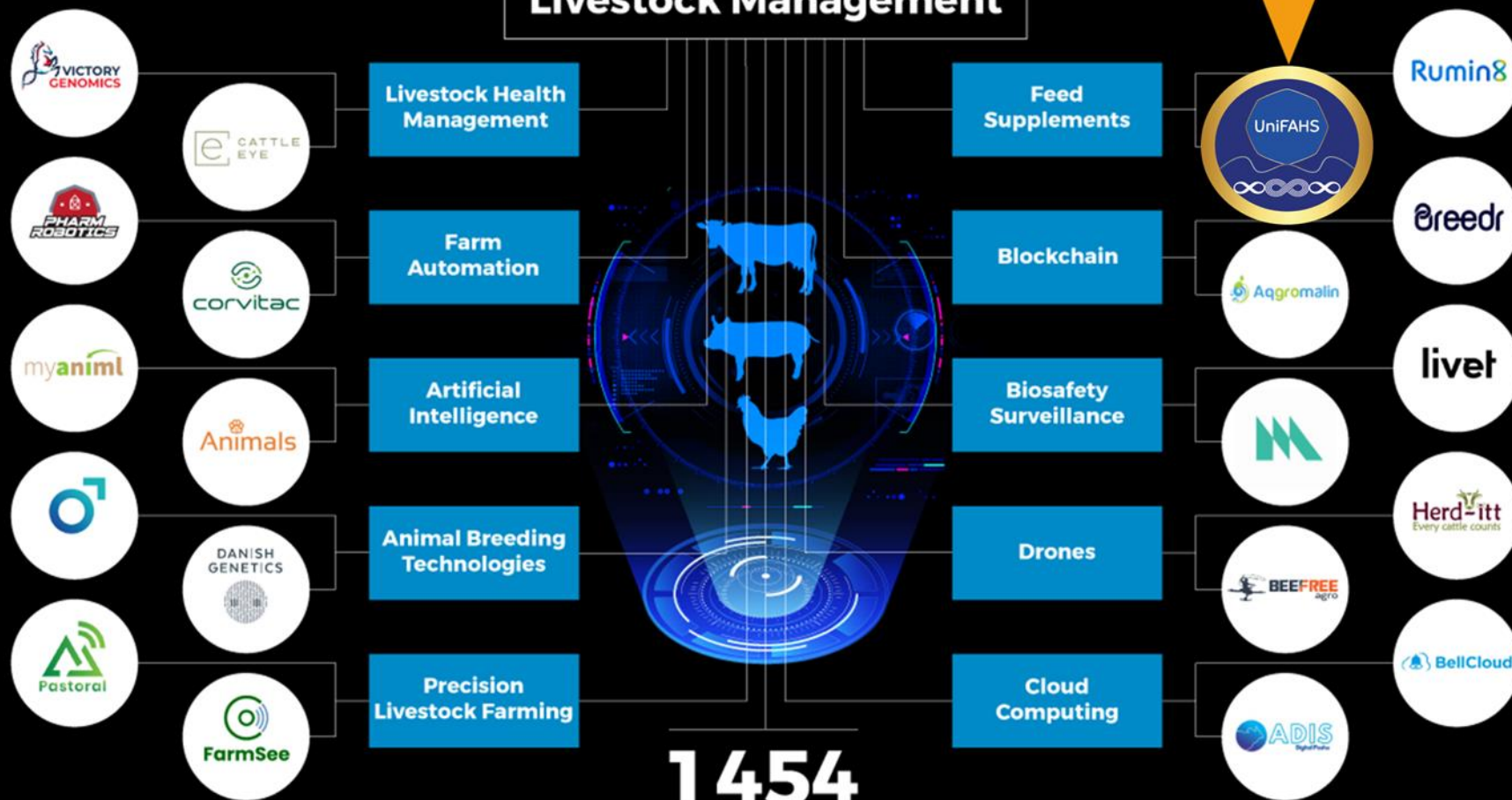


Top 10 Livestock Management Trends in 2023



We are here

Livestock Management



1454

Startups & emerging companies analyzed

Data provided by

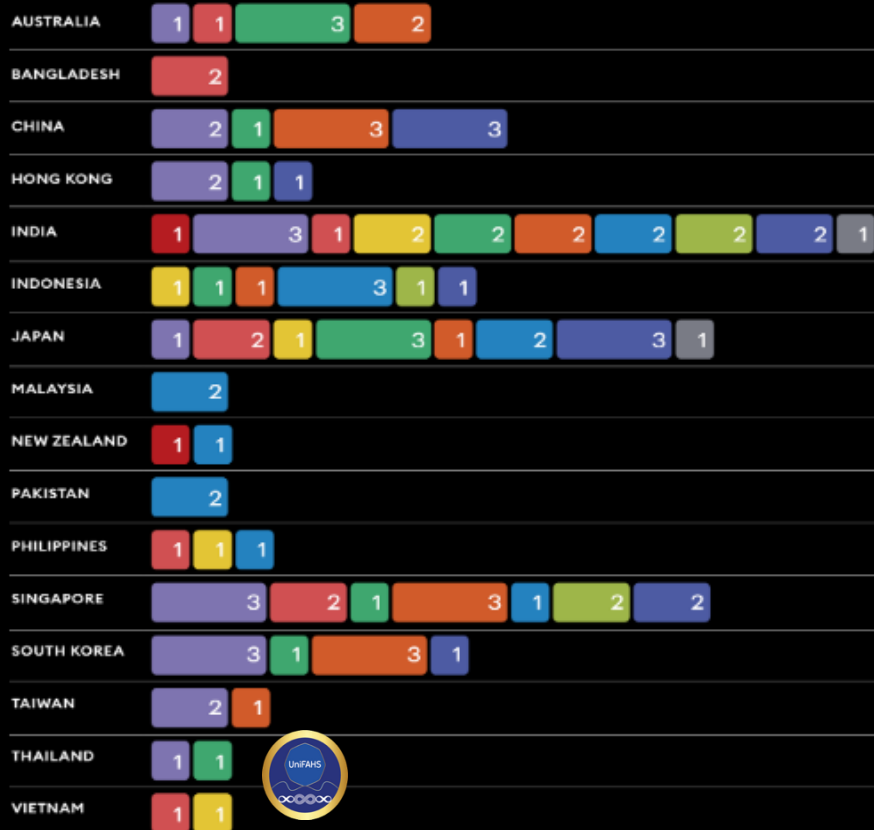


January 2023



Silver Medal Award 2018

100 TO WATCH By The Numbers



UniFAHS – Forbes Asia 100 to Watch 2025

Leader in Phage Biotech

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UniFAHS

Our patented technology contributes to more sustainable food supply chains, healthier animals and people on a happy planet.



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