

# Developing Our Workforce

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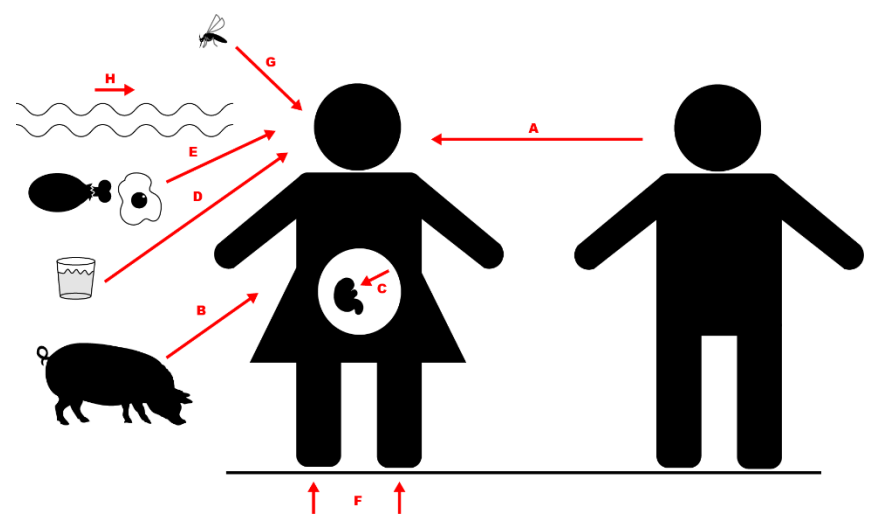
National Centre for Epidemiology & Population Health

Research School of Population Health

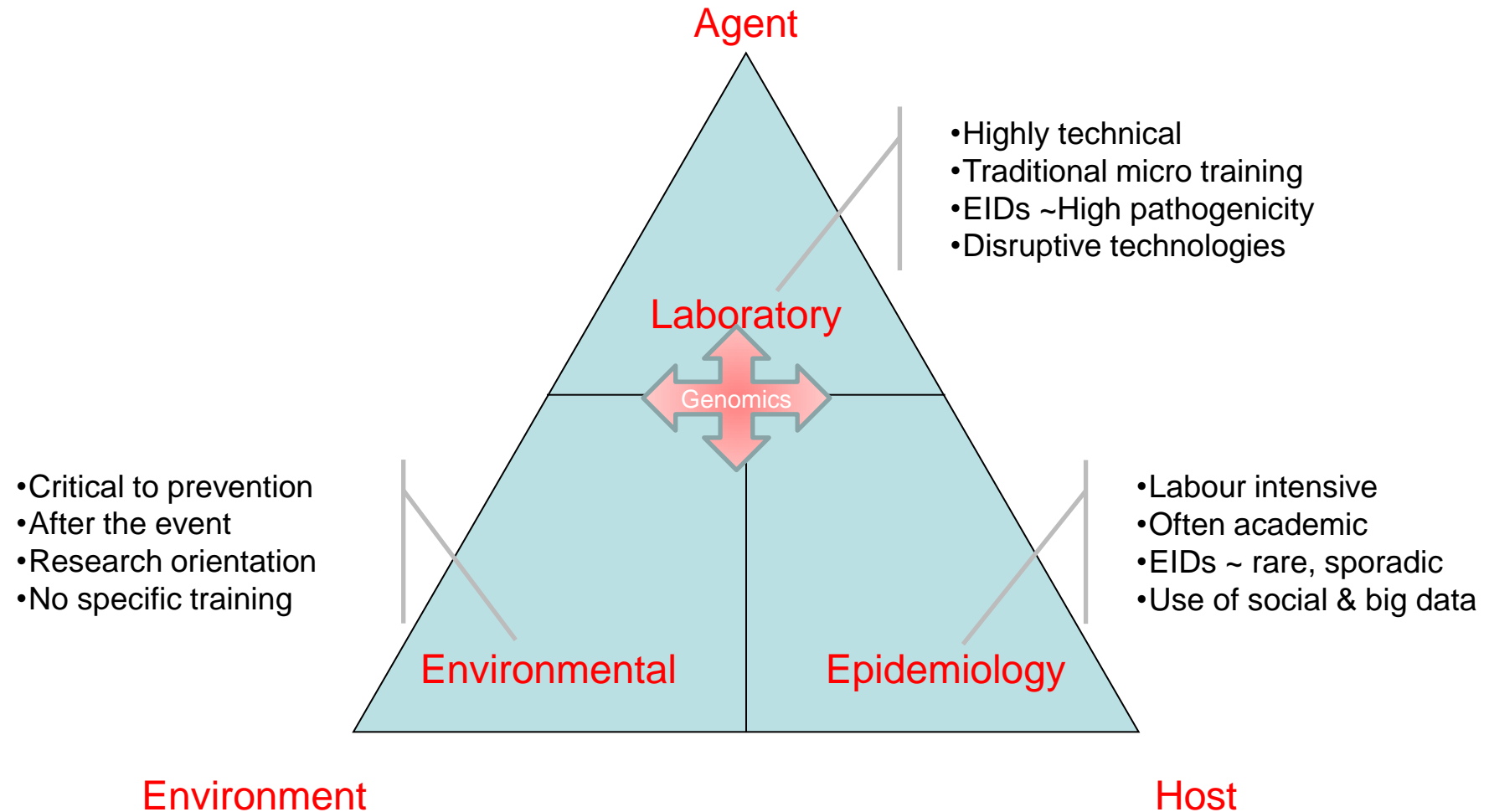


# Emerging Infectious Diseases

- What is required?
- FETP as key
  - MAE program
- One Health
- Future directions



# EIDs Multi-disciplinary Response...



# Roles In EIDs

	EID Detection	EID Investigation	EID Response	EID Research
Laboratory	✓✓✓	✓✓✓	✓	✓✓✓
Epidemiology	✓✓	✓✓✓	✓✓✓	✓
Environmental		✓	✓✓	✓✓✓

- Other Important Roles
  - Clinicians
  - First Responders – Police, Fire, Ambulance
  - Policy makers

# Laboratories

- Rapid changes
  - WGS – changing microbiology
  - Metagenomics – new frontier
  - CIDT – threat & opportunity
- No systematic training for EIDs
- Specialised laboratories
  - Training researchers
- Bioinformatics training available

# Field Epidemiology Training Programs

- 65 Training programs globally
- Modelled on Epidemic Intelligence Service
- *‘Learning by doing’*
- Play critical role in EIDs
  - Nigerian program for Ebola



**TEPHINET**

Training Programs in Epidemiology and  
Public Health Interventions Network

# FETP Fellows

1. Establish/evaluate surveillance systems
2. Respond to disease outbreaks
3. Analyse public health datasets
4. Conduct epidemiological studies

# What Do We Need?

Laboratory

Management

FETP

 MERCURY

Search

8:47 am  
Fri 3 Feb 2017

22°  
Wolk.

## Second patient contracts rare infection *Mycobacterium Chimaera* from open heart surgery at Prince of Wales hospi



NATIONAL

KATE AUBUSSON  
31 Jan 2017, 12:30 p.m.

All Larger



Two NSW patients have contracted *M. Chimaera* from a contaminated heater-cooler unit during open heart surgery. Photo: supplied

A second patient has contracted a rare infection after being exposed to contaminated equipment during open heart surgery at a major Sydney hospital

The patients both contracted *Mycobacterium chimaera* (*M. Chimaera*) from a surgical heater-cooler units at Prince of Wales Hospital.

Clinical

Surveillance





# MAE Alumni & ARM network

- ~200 alumni
  - Senior positions in public health
  - WHO regional & HQ
  - Some not working in public health
- Teach on MAE courses
- Maintain a mailing list
  - Circulate jobs
  - Deployment for response
- Training







# Summary



- Prepared workforce key
- Robust investigation vital
- Laboratories changing
- Management = coordination
- FETP vital!



# Thank you...

