

# Vector Control Population Health Driver Diagram

## AIM

To decrease the presence of vectors and prevent vector borne disease transmission in a community

### Goals

- Increase efficiency and effectiveness of vector control program services
- Build vector control program infrastructure and capacity
- Reduce environmental factors that lead to vector borne disease
- Improve preparedness for responding to vector borne disease outbreaks

## PRIMARY DRIVERS

Assessment of vectors and vector borne disease

Policy to control vectors and prevent vector borne disease

Assurance of effective vector control services

Control of vectors and vector borne disease

## SECONDARY DRIVERS

### Assessment Activities

- Examine the environment to identify vector presence
- Investigate vector patterns and/or outbreaks
- Conduct community assessments to identify vector related issues
- Monitor vector population and vector borne disease
- Support a surveillance system for vectors and vector borne disease

### Policy Activities

- Educate the public about reducing risk of vector borne disease
- Develop effective messaging and communication strategies
- Promote vector control policy
- Build partnerships between government agencies and the private sector to work together on vector control education and policy

### Assurance Activities

- Enact vector control laws and regulations
- Provide a referral mechanism to link community members to vector control services
- Establish vector population threshold levels
- Employ a sufficient and trained vector control workforce
- Measure and evaluate vector control strategies

### Control Strategies

- Eliminate pest access to food, water, and shelter
- Alter/eliminate environments conducive to pest populations
- Implement physical and cultural control strategies with judicious use of pesticides insecticides, larvicides, and rodenticides if necessary
- Research approaches to improve vector control services and conditions (e.g., timing treatments to the best advantage, pesticide efficacy)

