

# Maguire Lab Overview

[finlay.maguire@dal.ca](mailto:finlay.maguire@dal.ca)  
maguire-lab.github.io

## Affiliations:



Computer Science  
Community Health & Epidemiology  
Institute of Comparative Genomics



Public Health Alliance for  
Genomic Epidemiology

## Funding:



# Maguire Lab Overview

## Genomic Epidemiology

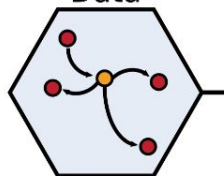
Sequencing  
Data



Clinical  
Data



Epidemiological  
Data



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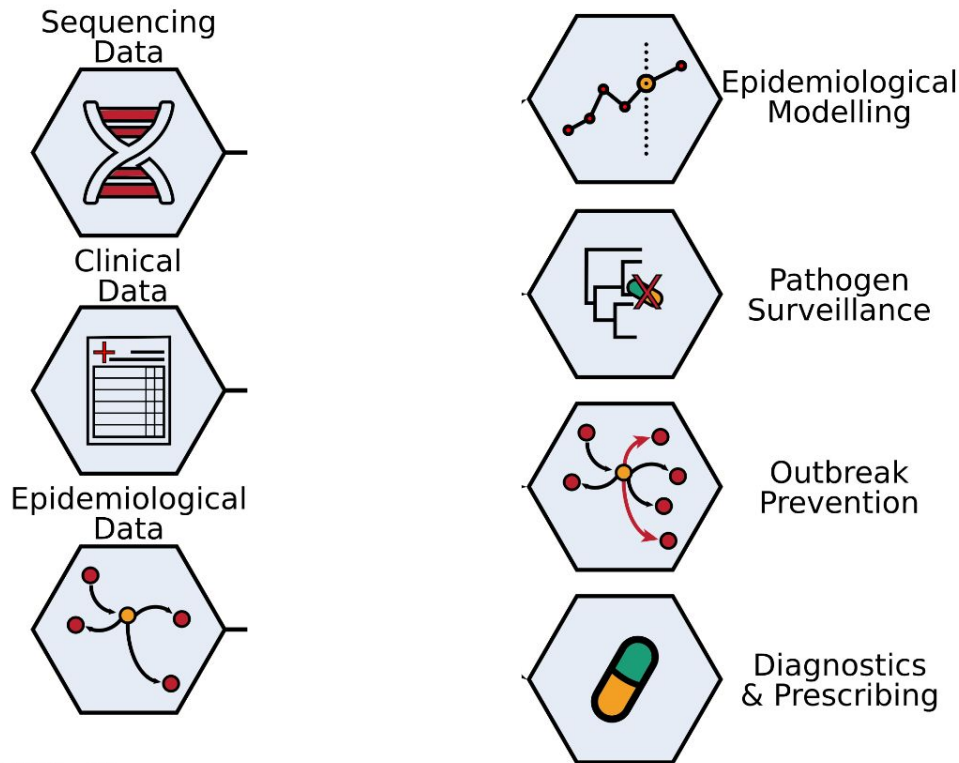
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## Genomic Epidemiology



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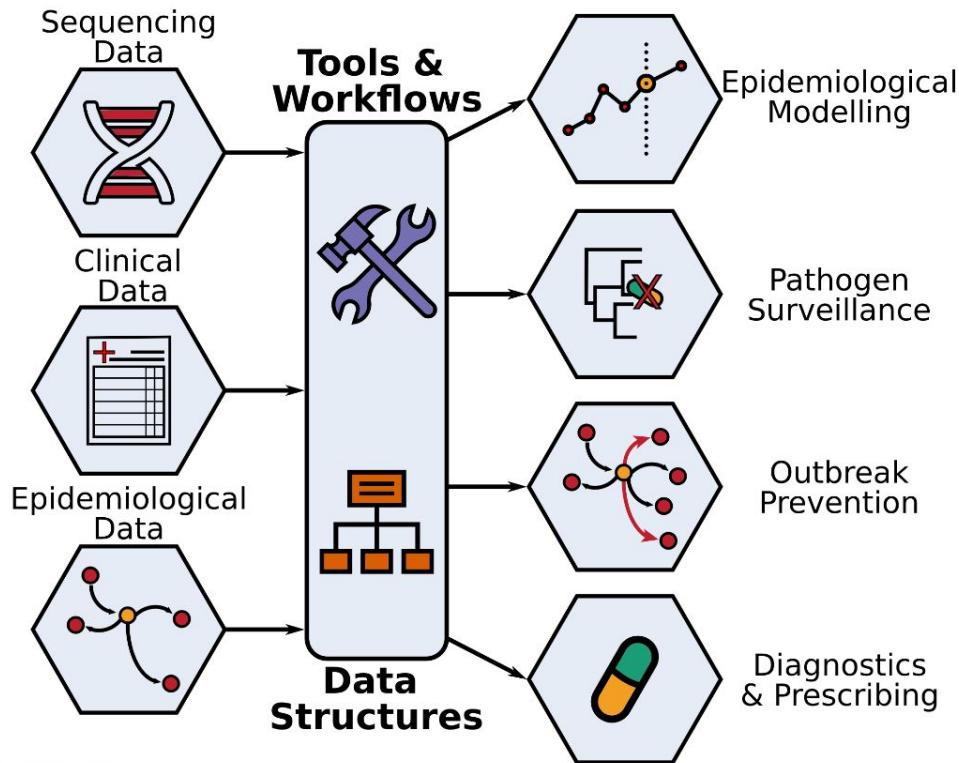


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## Genomic Epidemiology



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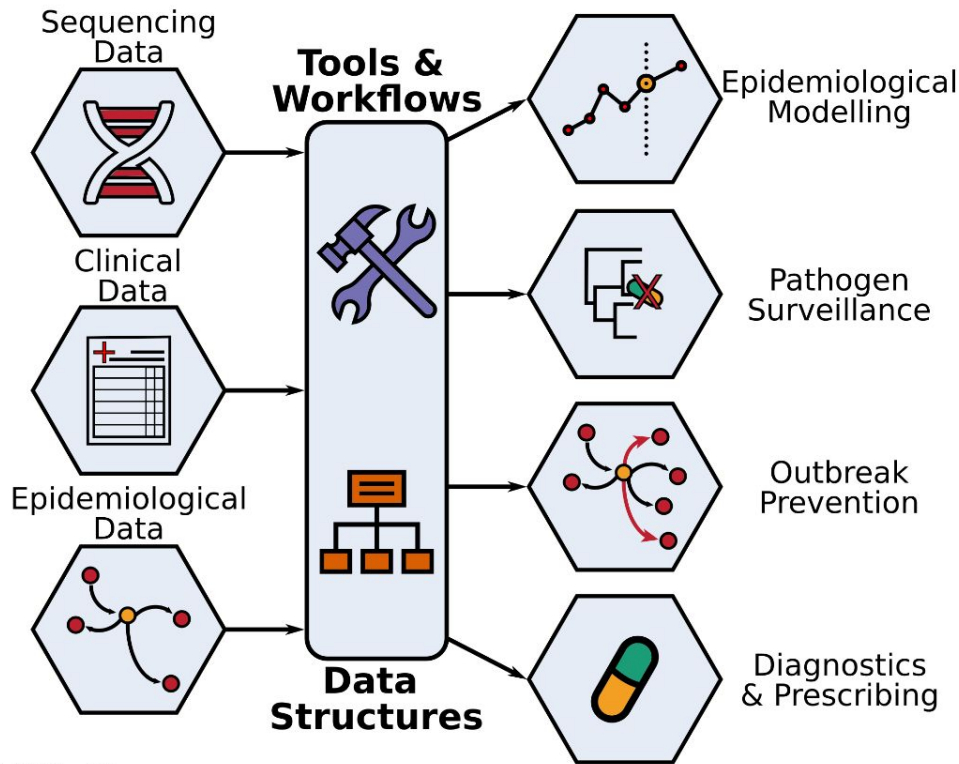


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## Genomic Epidemiology



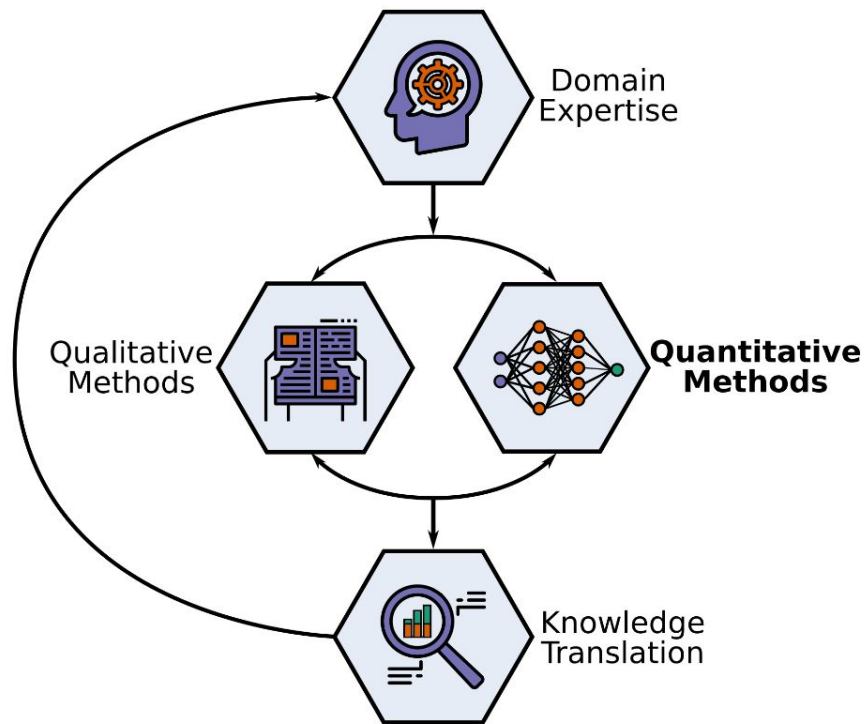
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**Sunnybrook**  
HEALTH SCIENCES CENTRE  
Sunnybrook Research Institute  
Shared Hospital Laboratory

**Public Health Alliance for Genomic Epidemiology**

## Collaborative Health Data Science



### Funding:

**CIHR IRSC**

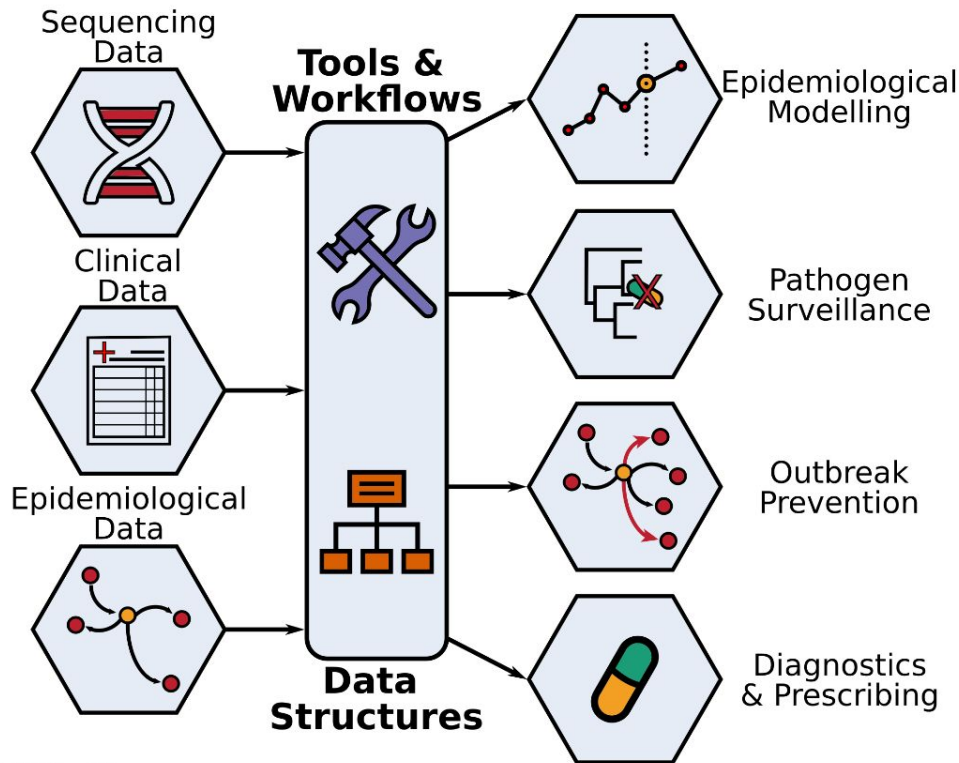
**NSERC CRSNG**

**SSHRC CRSH**

**BILL & MELINDA GATES foundation**

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## Genomic Epidemiology



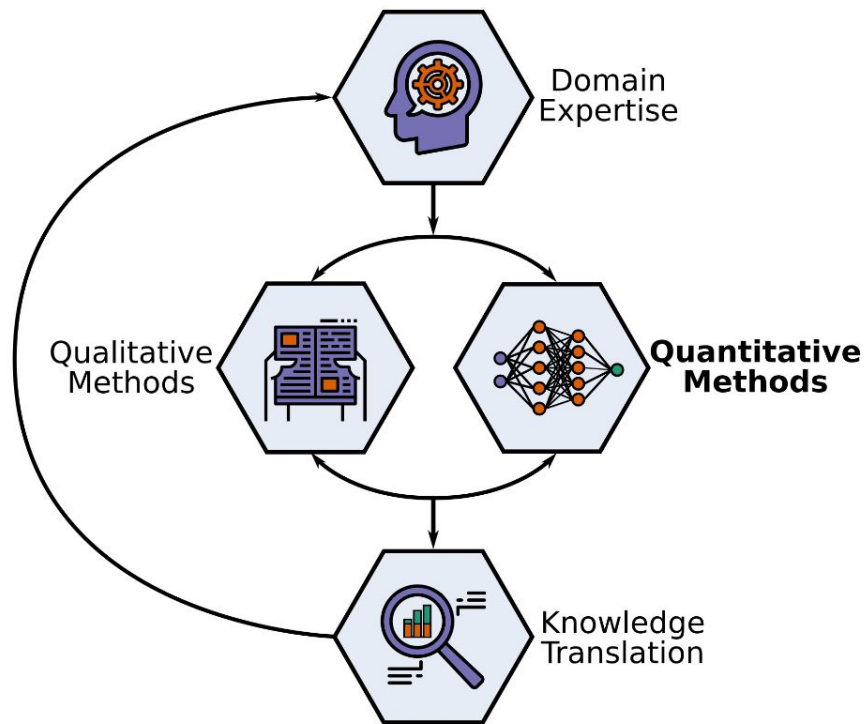
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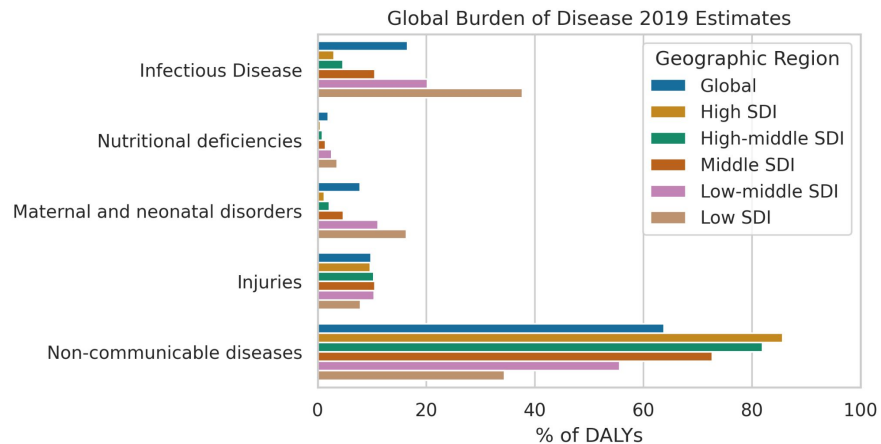
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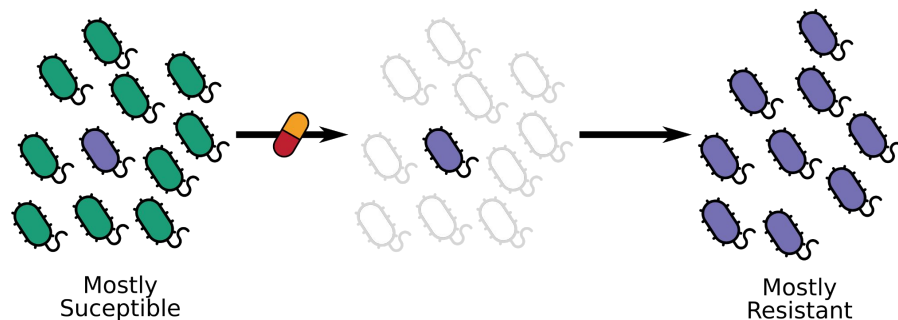
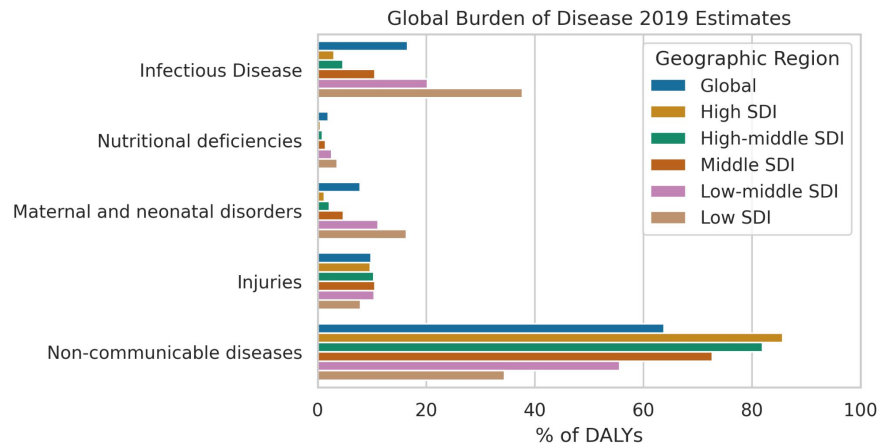
# USRA Project 1: Predicting Novel Pathogen Threats

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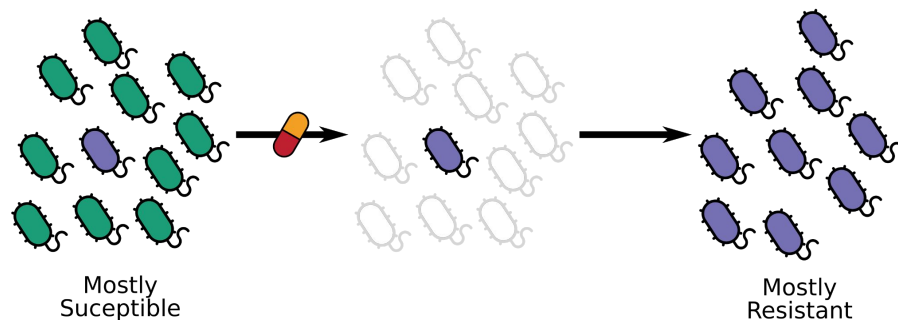
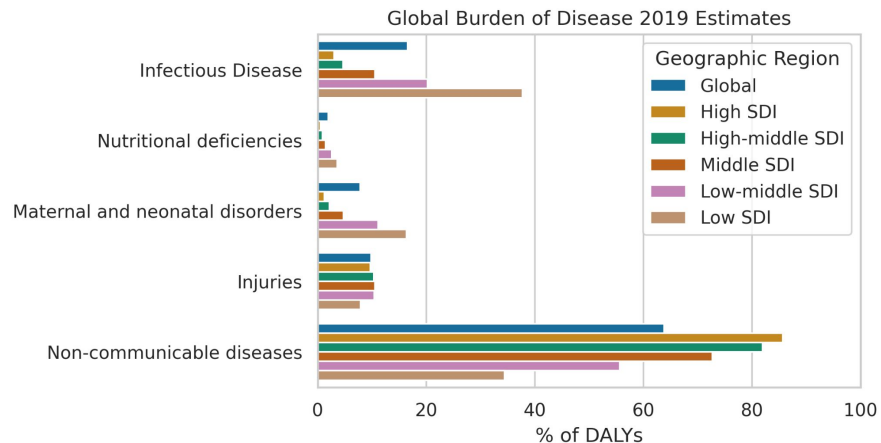




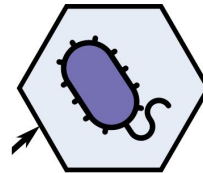
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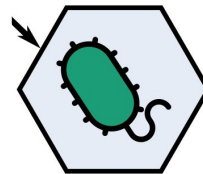
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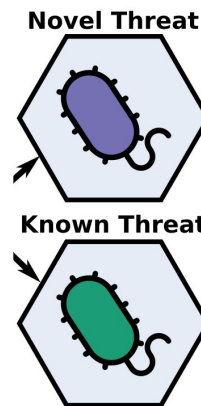
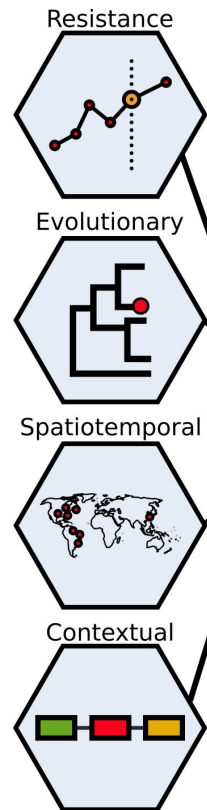
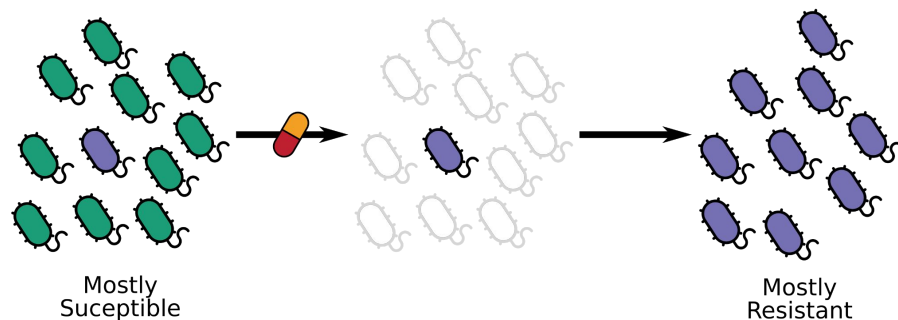
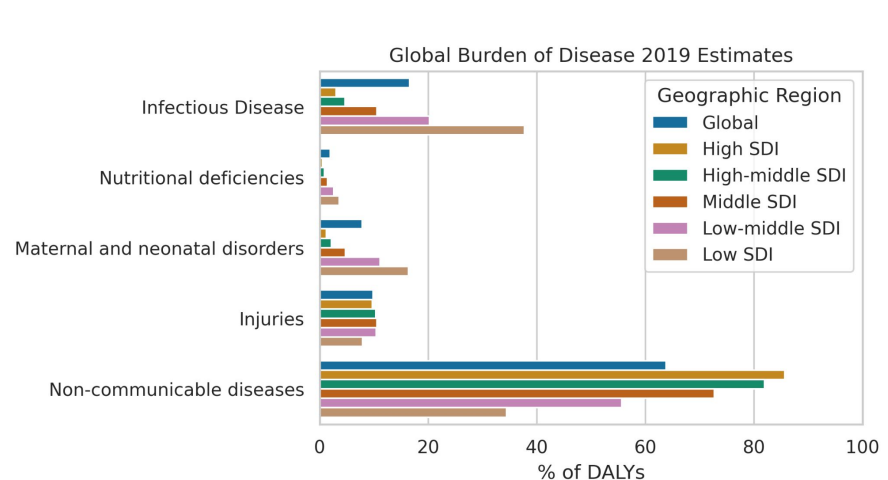
**Novel Threat**



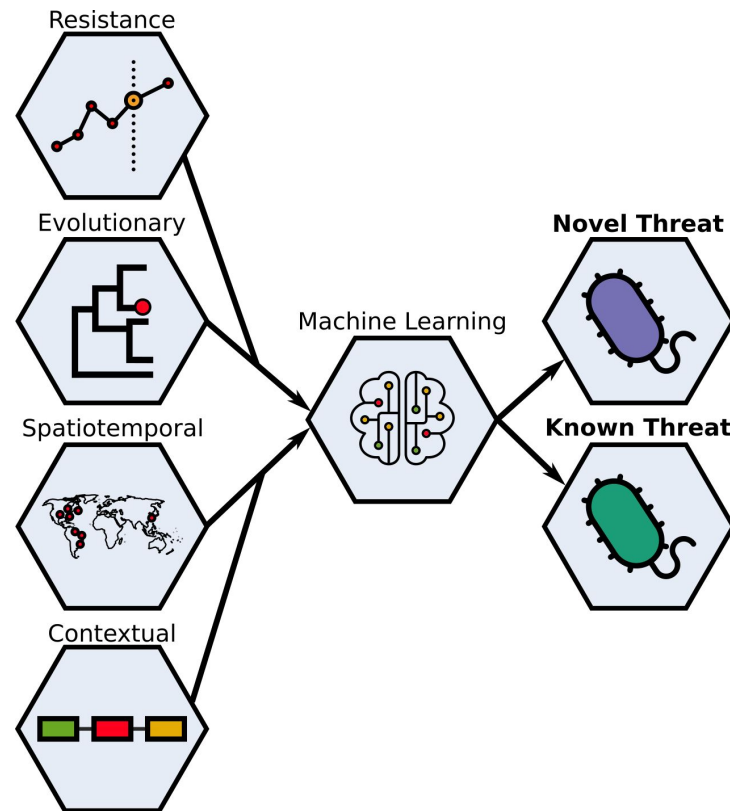
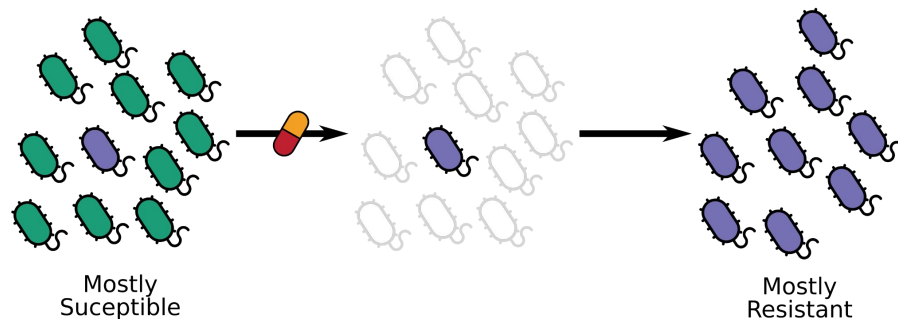
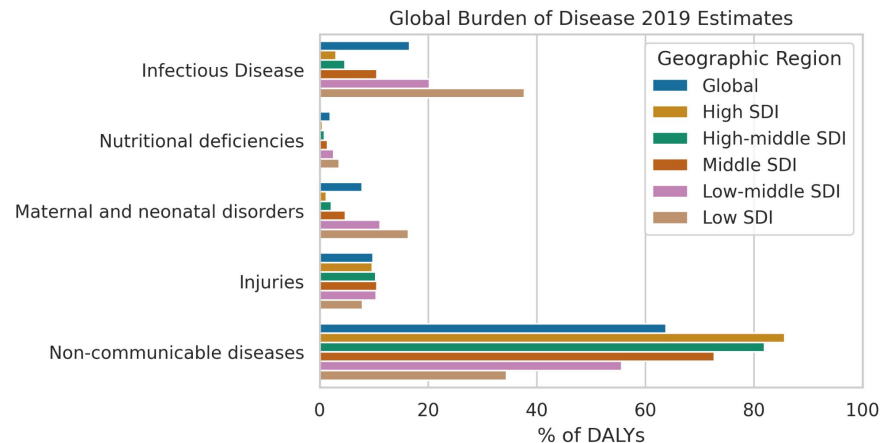
**Known Threat**



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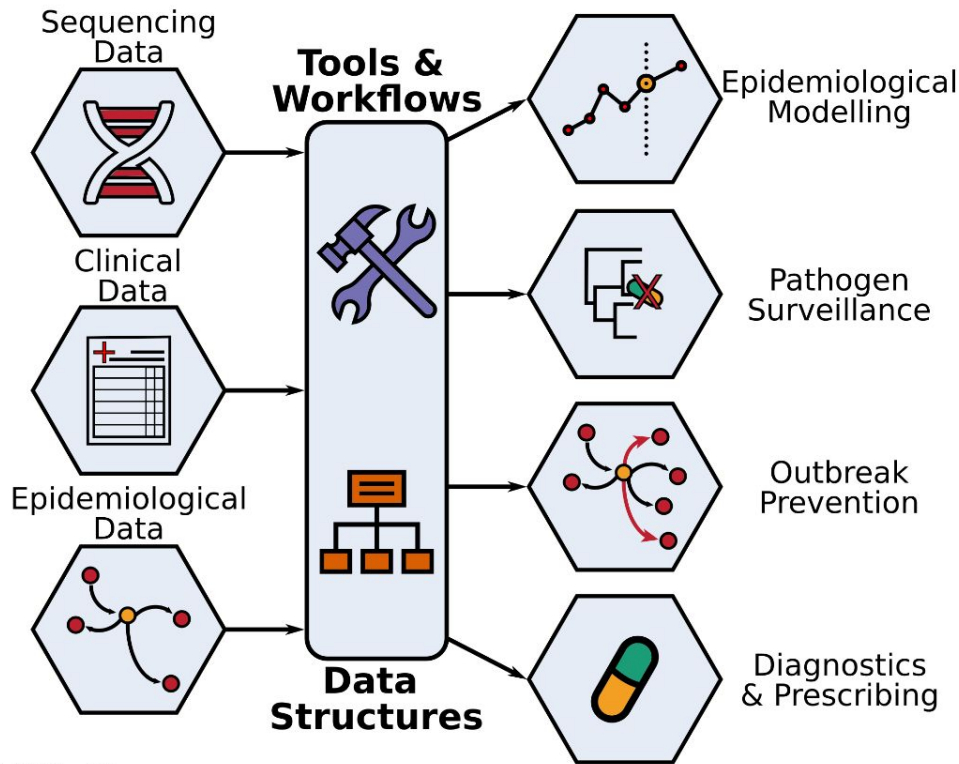


# USRA Project 1: Predicting Novel Pathogen Threats



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## Genomic Epidemiology



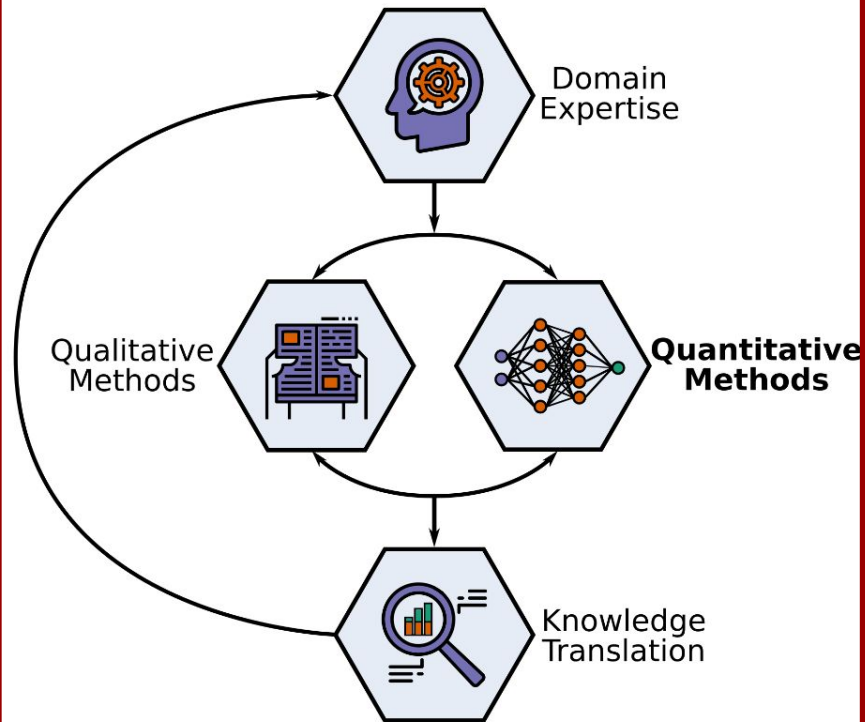
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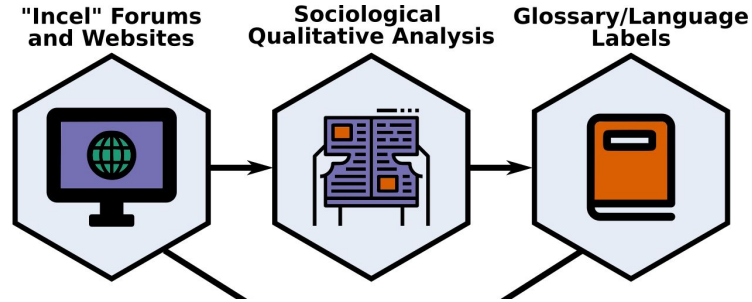
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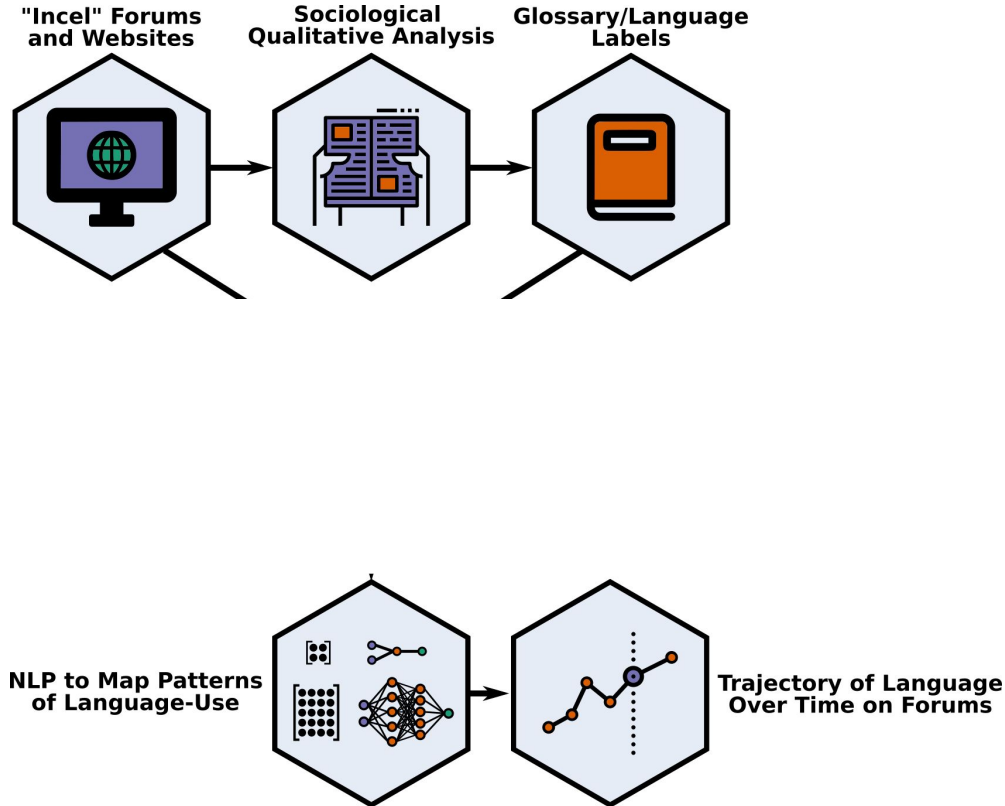
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 **BILL &  
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GATES  
foundation**

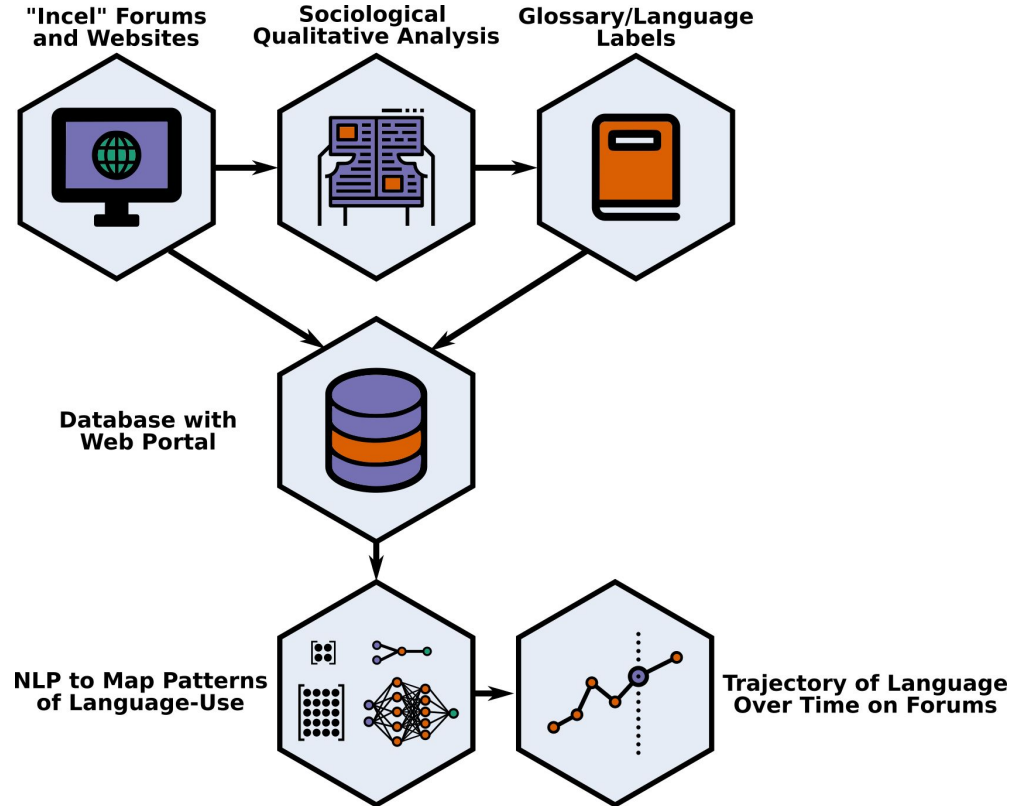
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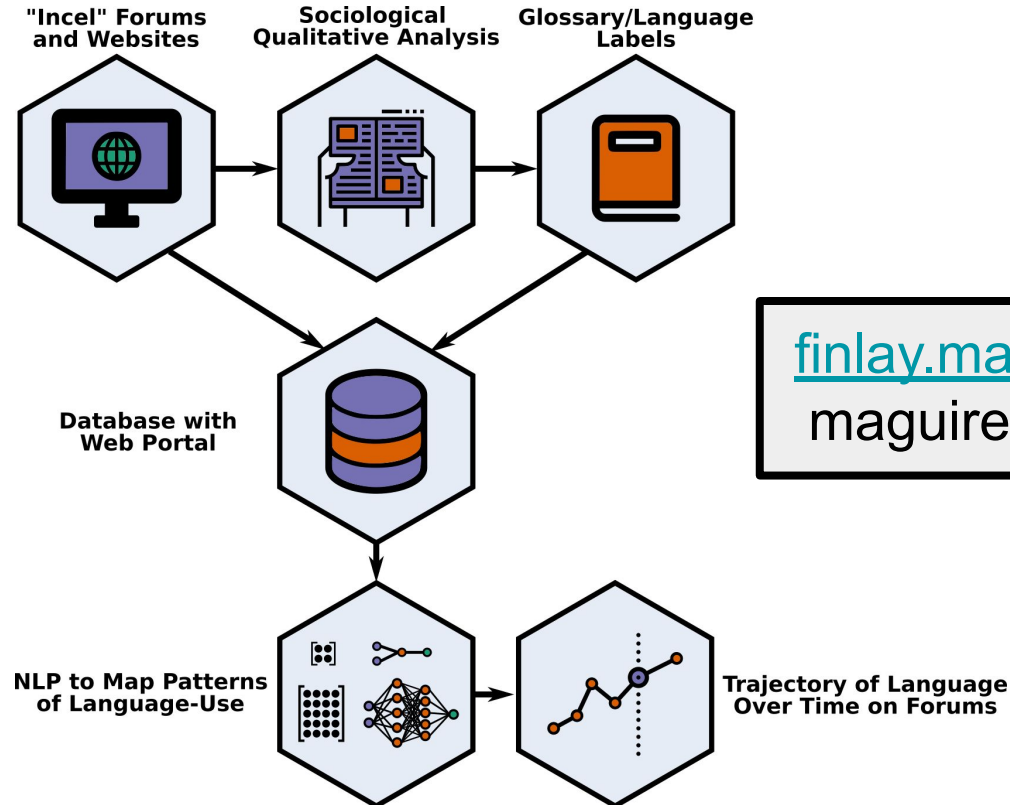


# USRA Project 2: Database Portal for Social Media Data





# USRA Project 2: Database Portal for Social Media Data



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