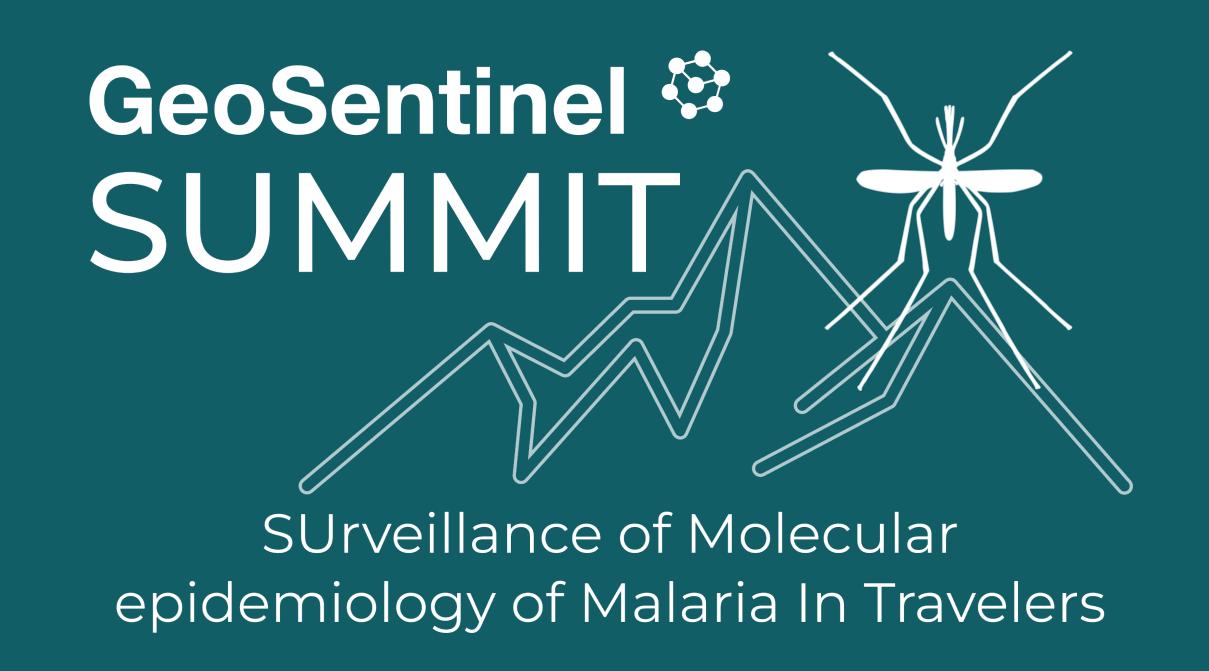
## Enabling the systematic genomic surveillance of malaria via a global network of travel clinics



## GOALS AND OBJECTIVES

We aim to provide actionable data that is complementary to existing efforts and that can serve further research, inform case management, prioritise efficacy studies, and aid in surveillance and control efforts.

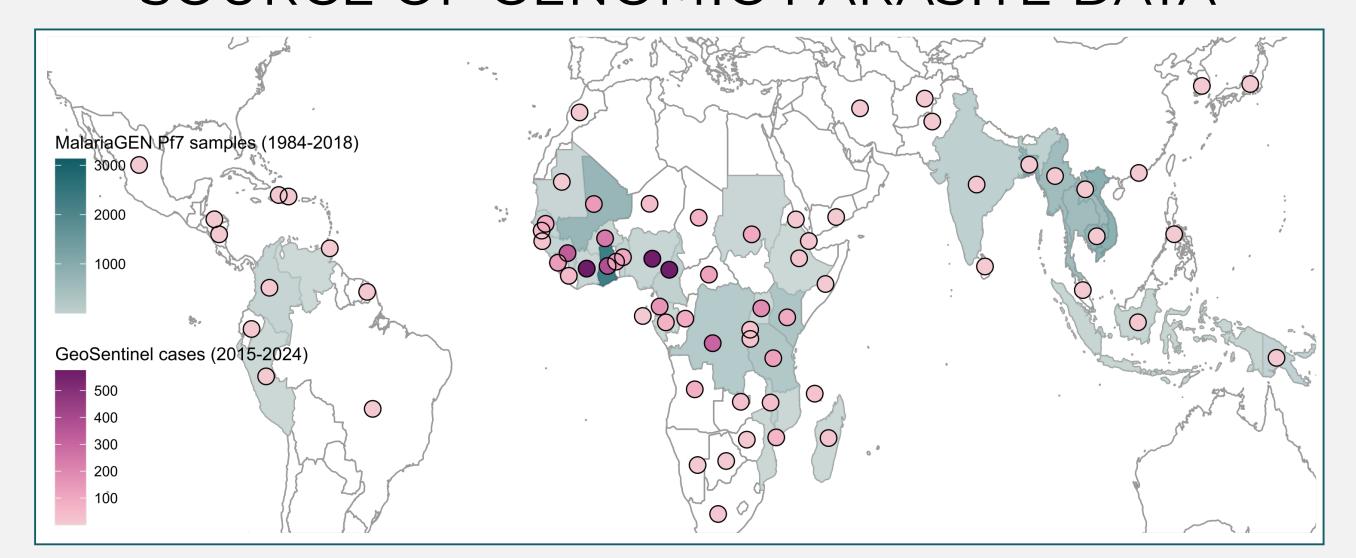
Build a **FAIR** and **frequently updated data platform** for the genomic epidemiology of travel-related malaria.

Identify known and novel markers of drug and diagnostic resistance.

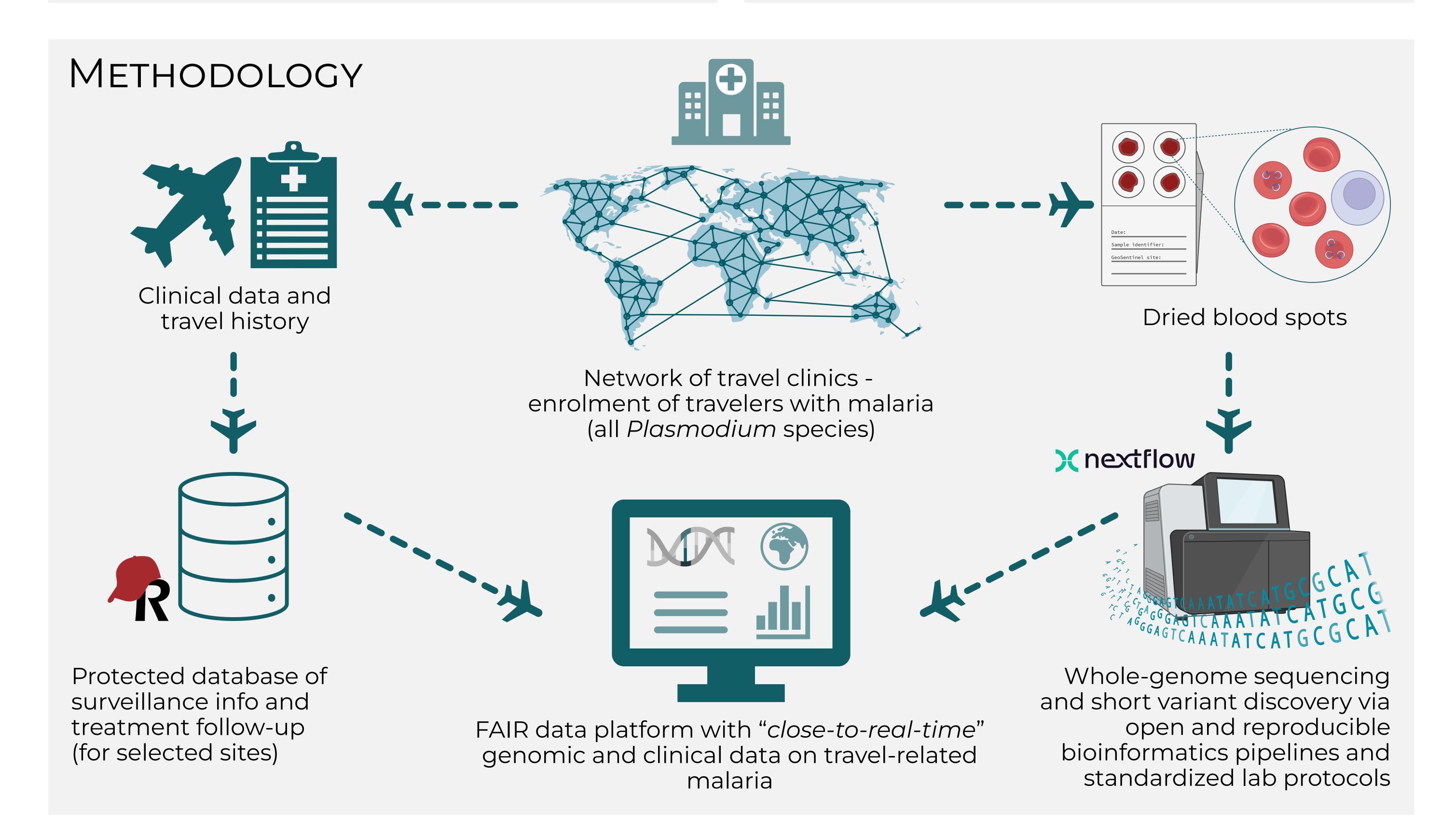
Investigate potential **drivers of treatment failure** among travelers.

Build machine learning tools to predict parasite geographic origin.

## TRAVELERS HARBOUR AN UNTAPPED SOURCE OF GENOMIC PARASITE DATA



Overview of distribution of *P. falciparum* samples in MalariaGEN's Pf7 genomic database (>16,000 samples between 1984-2018) and travel-related malaria cases reported by the network of GeoSentinel sites (>5,000 cases between 2015-2024).



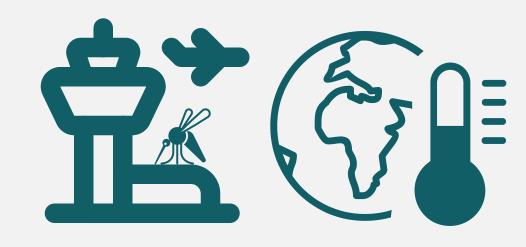
## WHY DOES IT MATTER?



Increased temporal and geographical resolution



Prioritise therapeutic efficacy studies and inform clinical practice



Trace cases of airport malaria and outbreak preparedness



Identify drivers of treatment failure











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