dens + temp + rain Ancestry model Full model Climate model **&** ₽0 ₽0 $R^2 = 0.03$ $R^2 = 0.10$ $R^2 = 0.00$ Model estimated Model estimated Model estimated Ngoye Mindin Thies Ngoye Ouaga PK10 Thies Thies KayaBomu Ngoye Kumasi duahi CapeVerde Ouaga Ganda Ouaga . CapeVerde Awka Shimba Kakamega Entebbe LopeVillage Kintakakamega PK10 Virembe'∖ Shimba Virembe Franceville Virembe Entebbe Entebbe 10 20 10 20 10 20 Seroprevalence Seroprevalence Seroprevalence temp + aaa Full model Climate model Ancestry model გ മ് Model estimated R₀ $R^2 = 0.05$ $R^2 = 0.01$ $R^2 = 0.03$ Model estimated Model estimated Ngoye Ngoye Thies Mindin Ouaga Thies Ngoye ThiesCapeVerde CapeVerde Ouaga Boabeng Ouaga Awka Entebbe Kakamega Boabeng Entebbe Boabeng **V**rembe Wrembkakamega Entebbe 10 20 20 30 10 30 10 30 Seroprevalence Seroprevalence Seroprevalence geog Full model Climate model Ancestry model ₽0 გ Model estimated R₀ $R^2 = 0.00$ $R^2 = 0.00$ $R^2 = 0.00$ Model estimated Model estimated Ngoye Ngoye Ngoye Thies Thies Mindin Libreville Kumasi KayaBomu Thies Libreville Kumasi Libreville Kumasi Kintampo-Boabeng Kintampo · Entebbe Boabeng Entebbe Boabeng Entebbe 20 20 30 20 10 30 10 30 10 Seroprevalence Seroprevalence Seroprevalence