## **RESIST2**:

TRANSMISSION

**How did transmission to this patient happen?** A bacterium, either a susceptible strain which later mutates to gain resistance, or a strain with a resistance-conferring gene, has to somehow arrive to colonise a patient. Symptom-free carriage is likely to occur in many patients before infection. Can we estimate the impact of interventions or the size of transmission using mathematical modelling?

Mathematical models should exploit the increasing data on cross-transmission between environments to estimate the relative contribution of different AMR transmission hotspots and hence support intervention design

