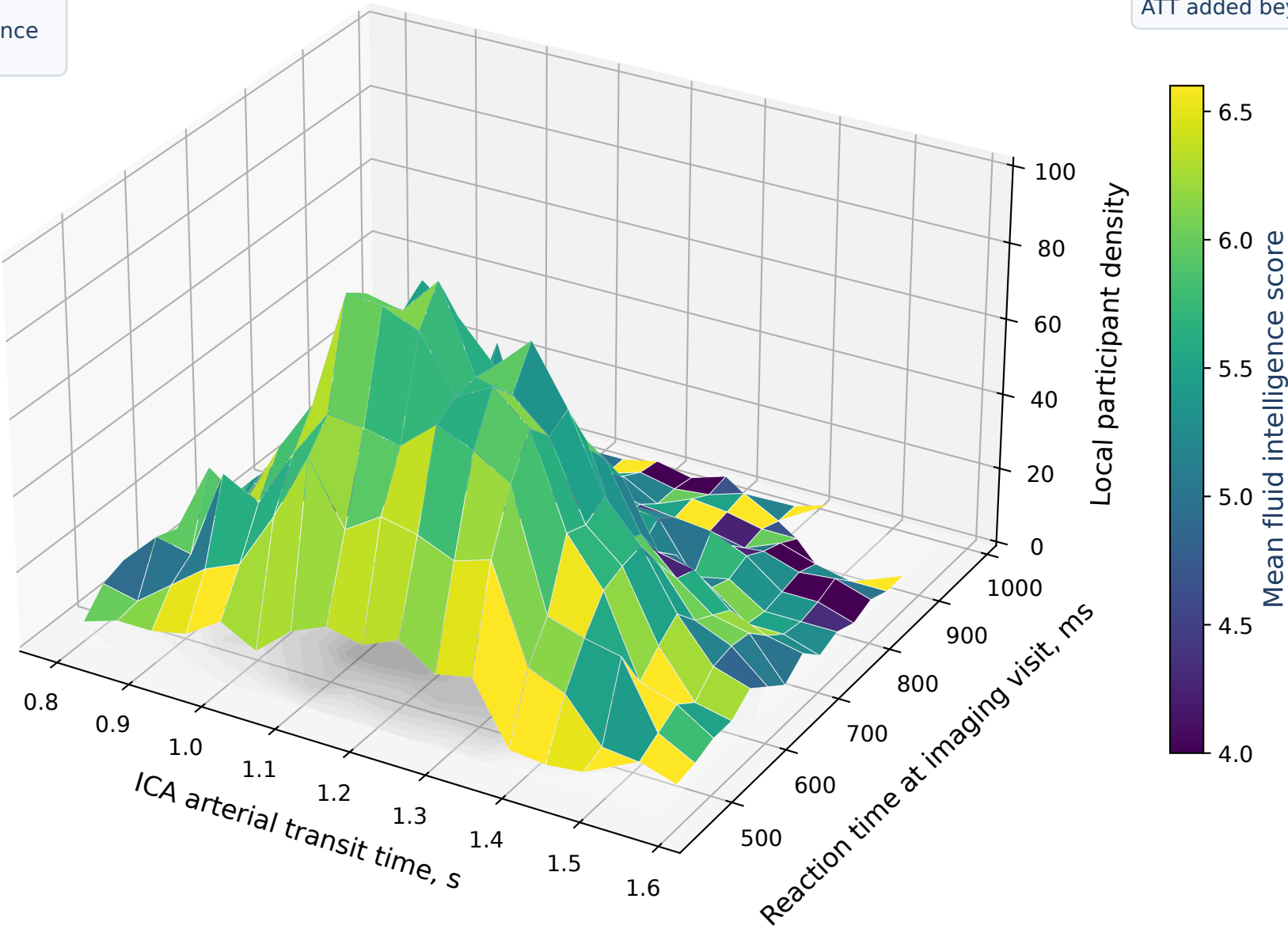


Supplementary Figure 1. 3D/4D haemodynamic landscape for the main headline association

ICA arterial transit time, reaction time, local density, and fluid intelligence

x = ICA arterial transit time
y = reaction time at imaging visit
z = local participant density
colour = mean fluid intelligence
within each local bin

Final flagship cross: $p = 0.0011$, $FDR = 0.0022$
Final flagship follow-up: $p = 6.9e-04$, $FDR = 0.0022$
ATT added beyond IMT: $p_{add} = 4.8e-04$



3D/4D supplement: x and y are the association axes; height indicates local participant density; colour shows the mean value of the fourth dimension within each bin. Display trimmed to the 1st-99th percentile range.