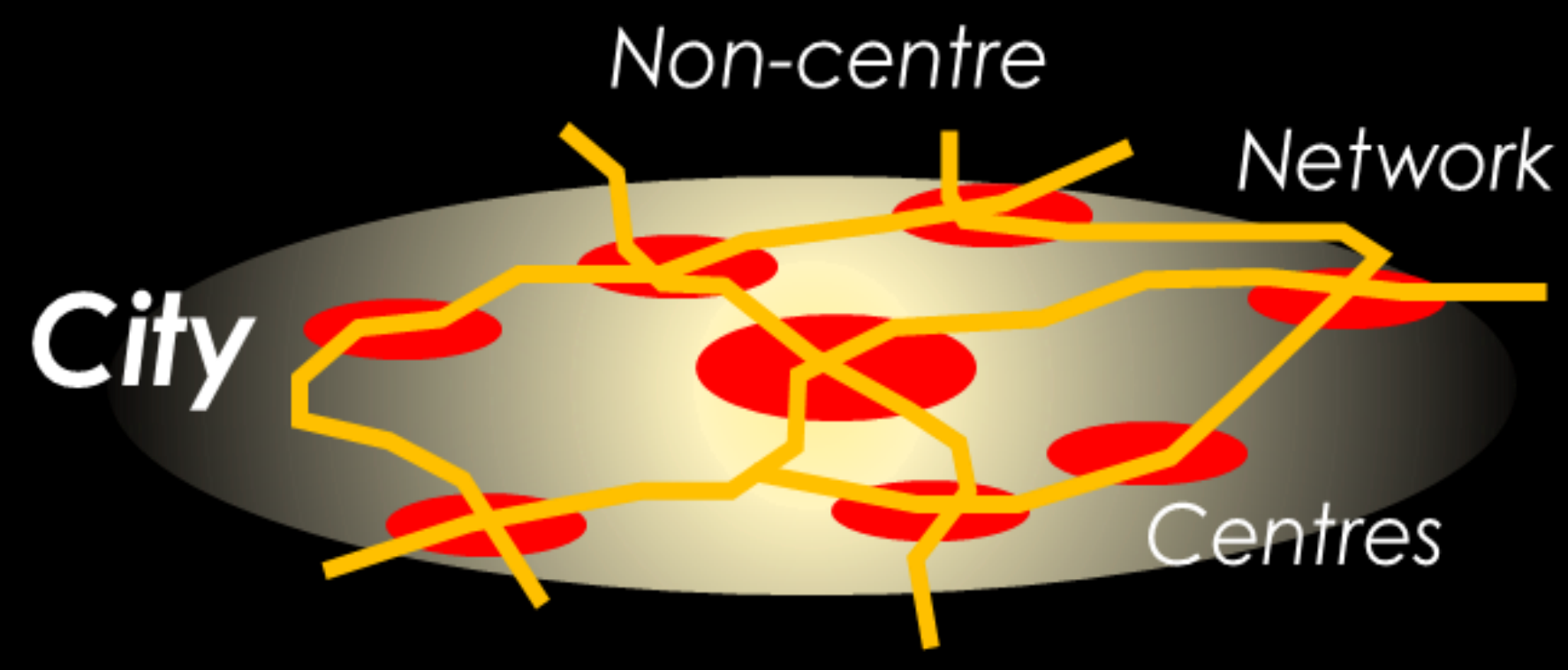
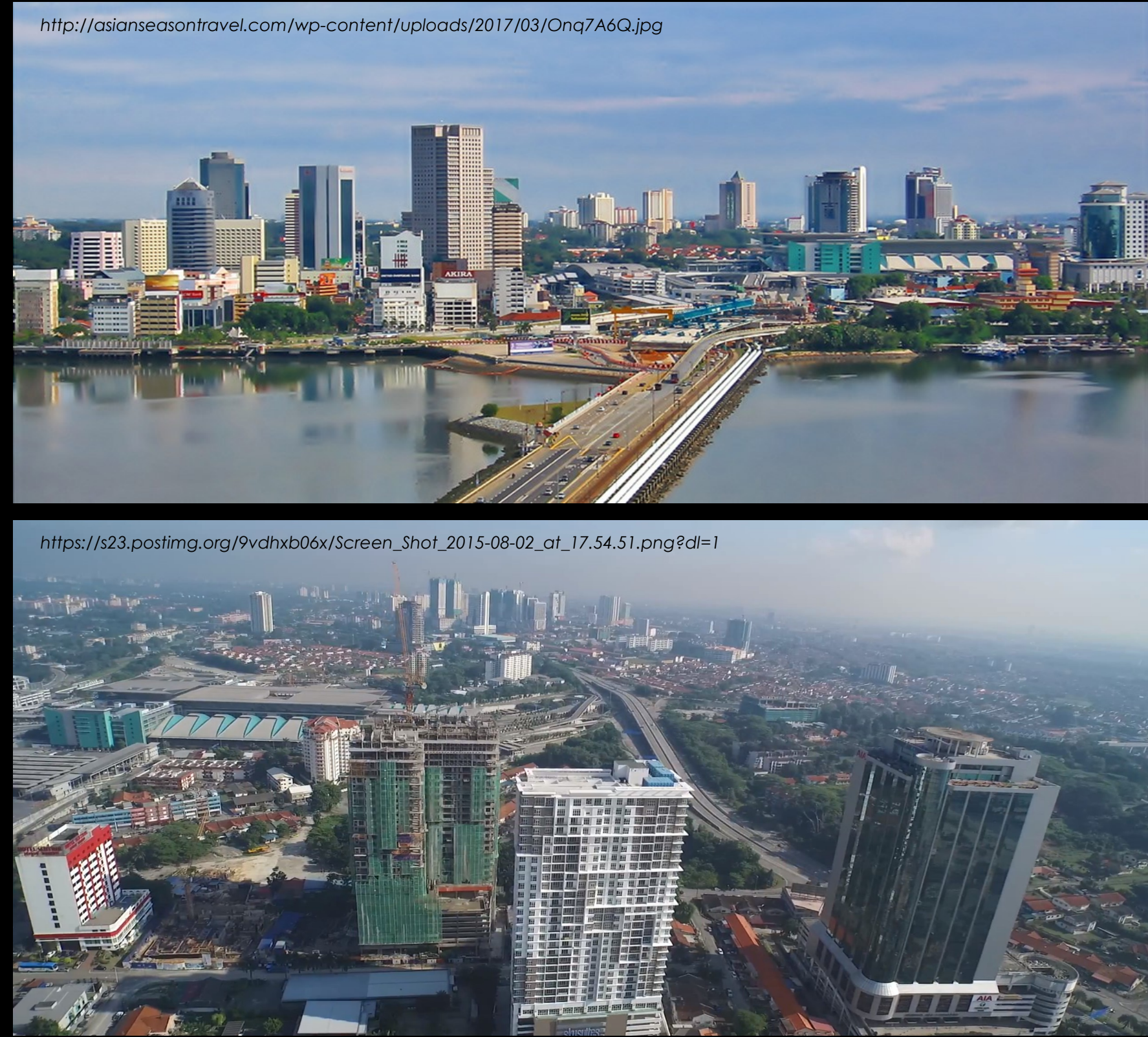


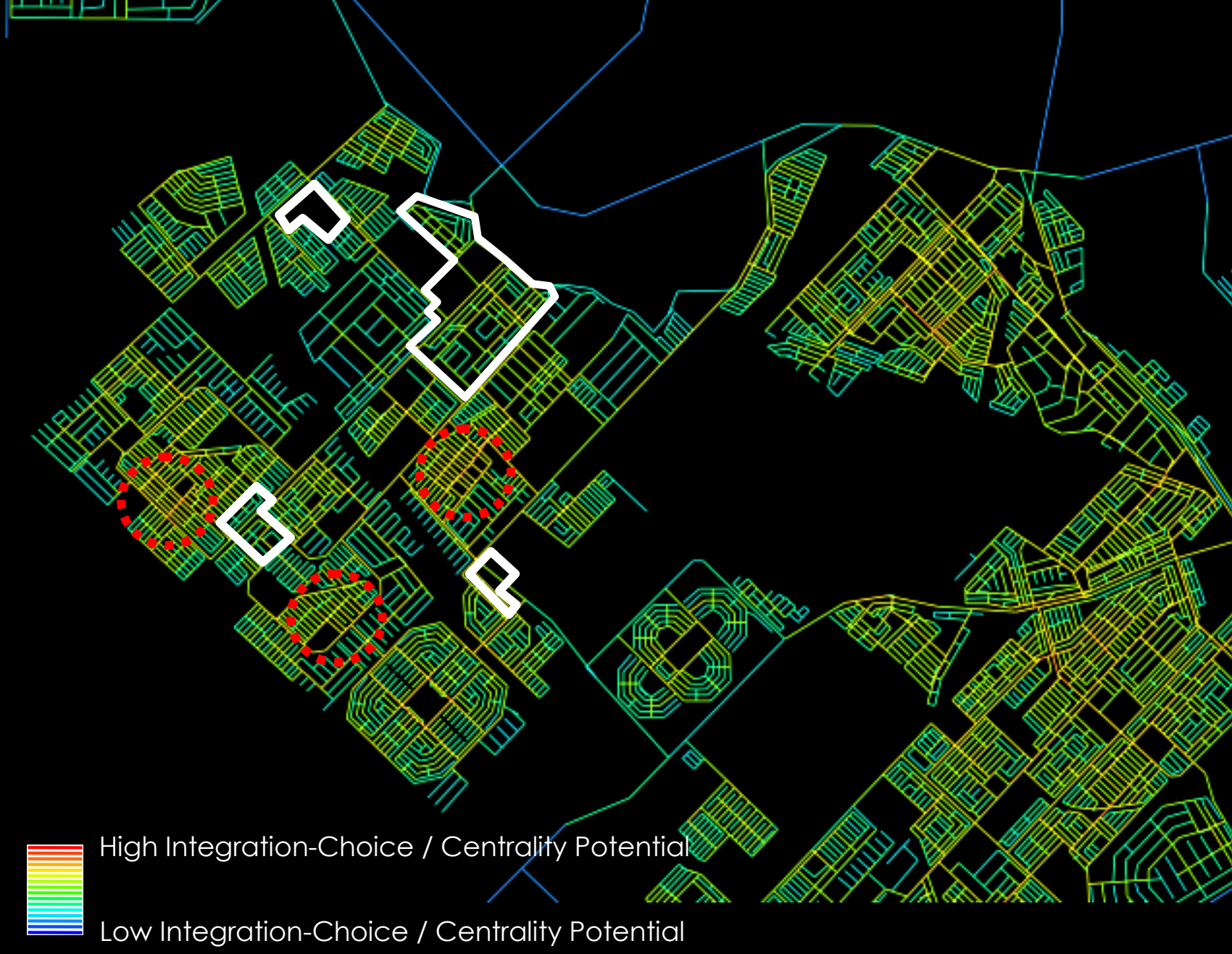
# The Urban Centrality, Spatial Mobility and Sustainability Connection: Visualisation through street network analysis of Iskandar Malaysia



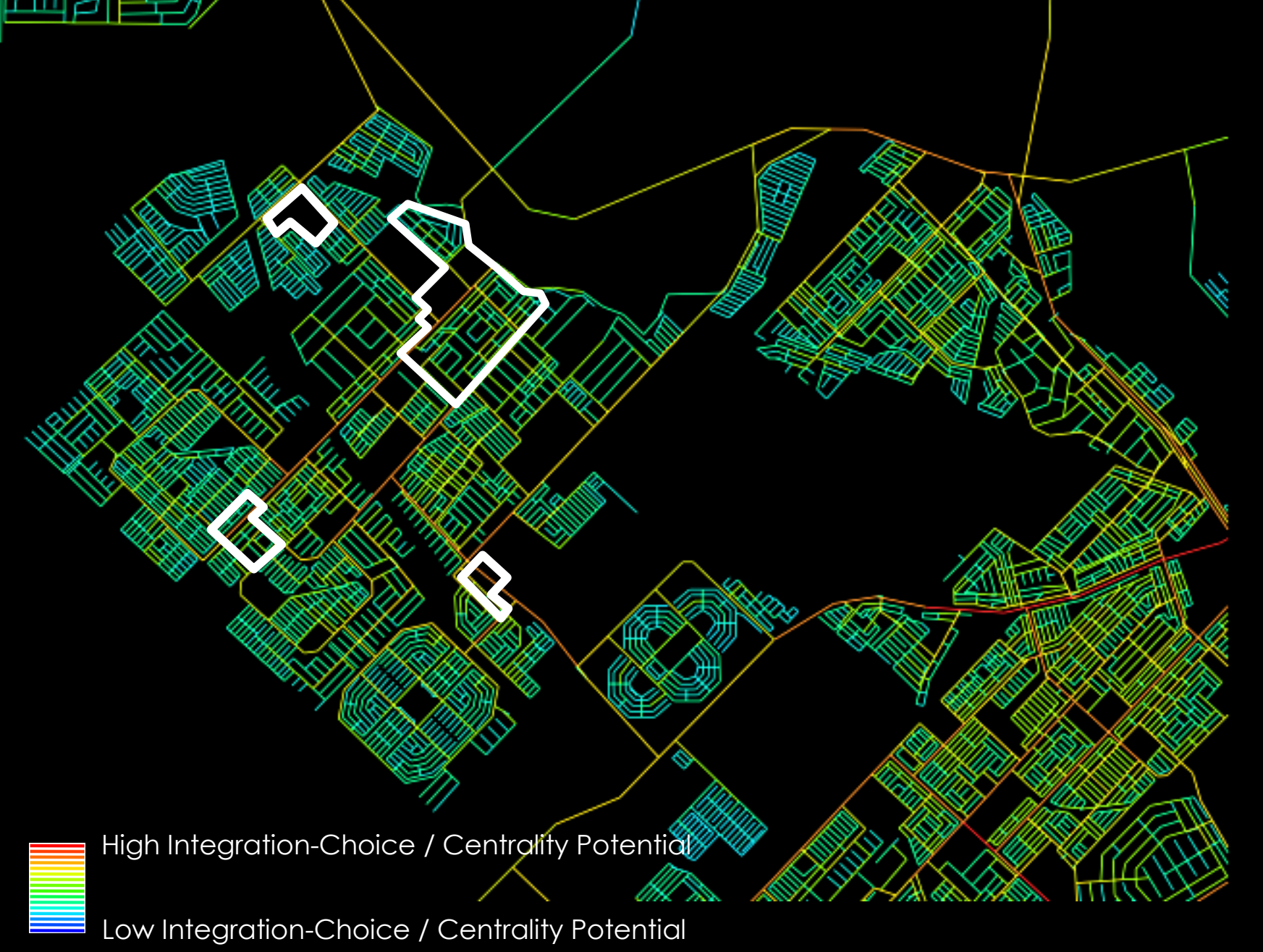
Cities actual street network configuration (how each street segment is directly and indirectly interconnected with all other segments within the network) systematically influences every street segment's potential for to-movement (indicated by the measure of *Integration*, or closeness centrality) and through-movement (indicated by the measure of *Choice*, or betweenness centrality). Street segments with high movement potentials offer high centrality potentials and influences the long-term sustainability of centres in the city.



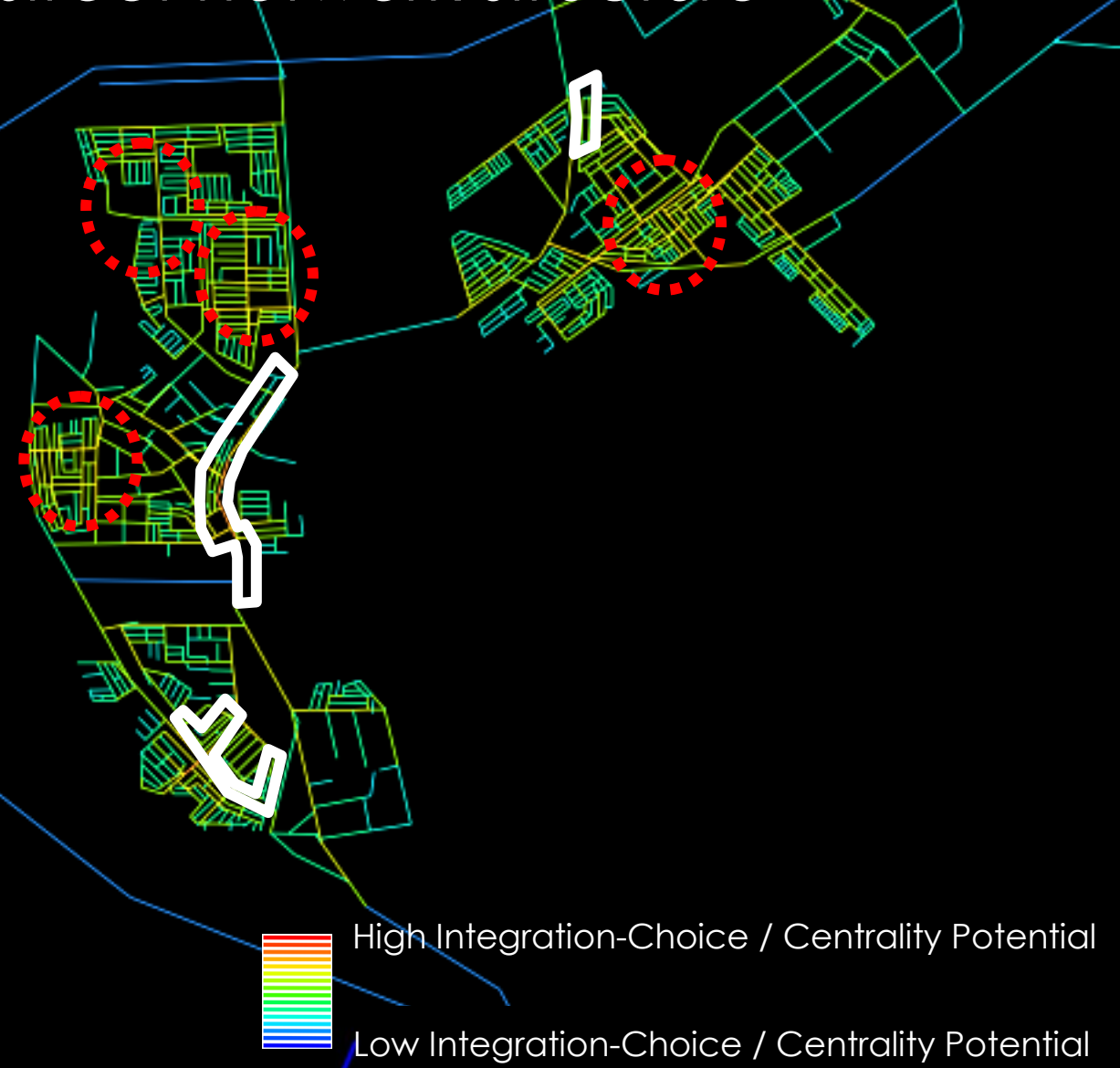
Low radius (400m) Integration-Choice Modelling of Taman Universiti's actual street network structure



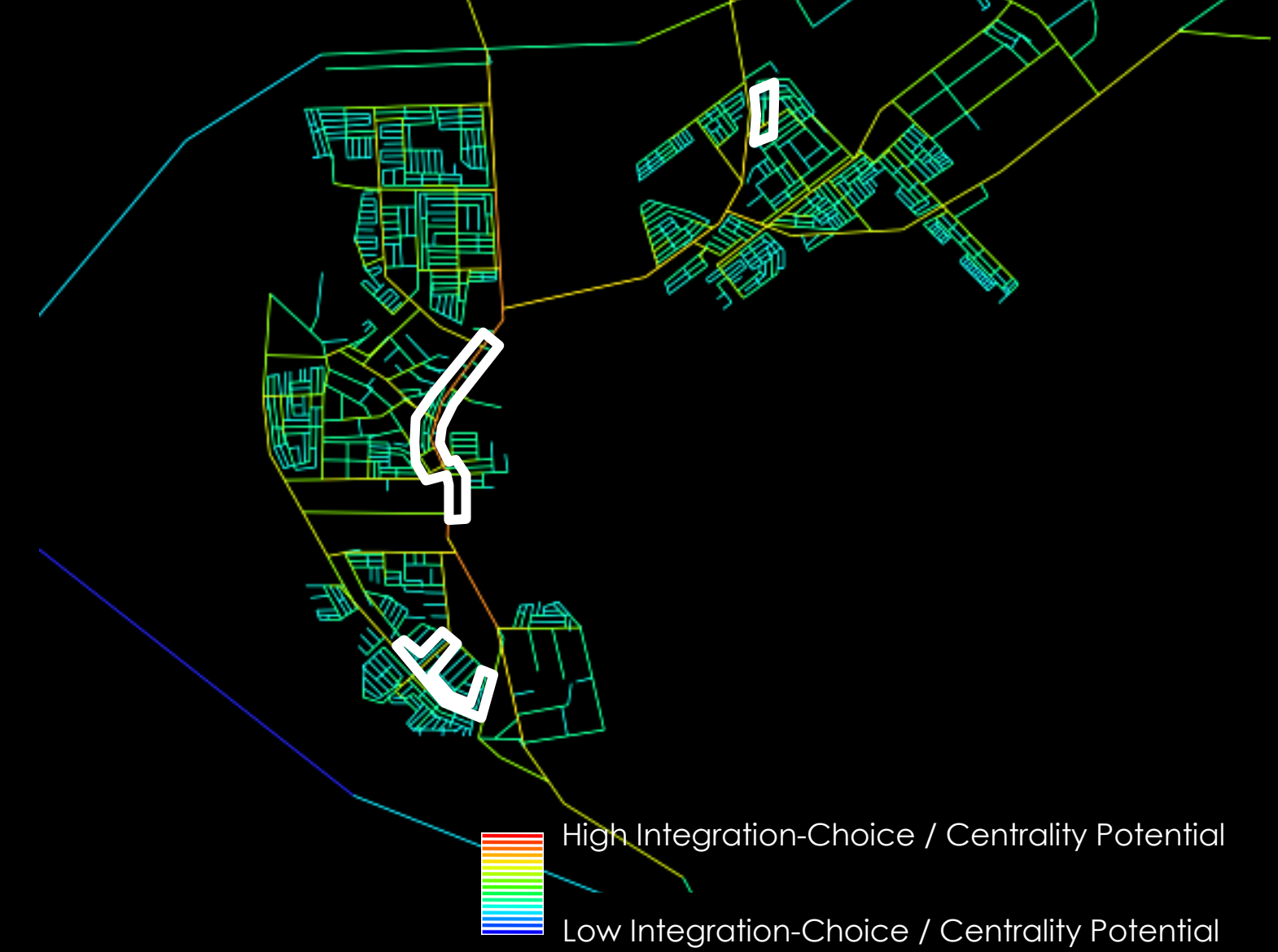
Medium radius (2500m) Integration-Choice Modelling of Taman Universiti's actual street network structure



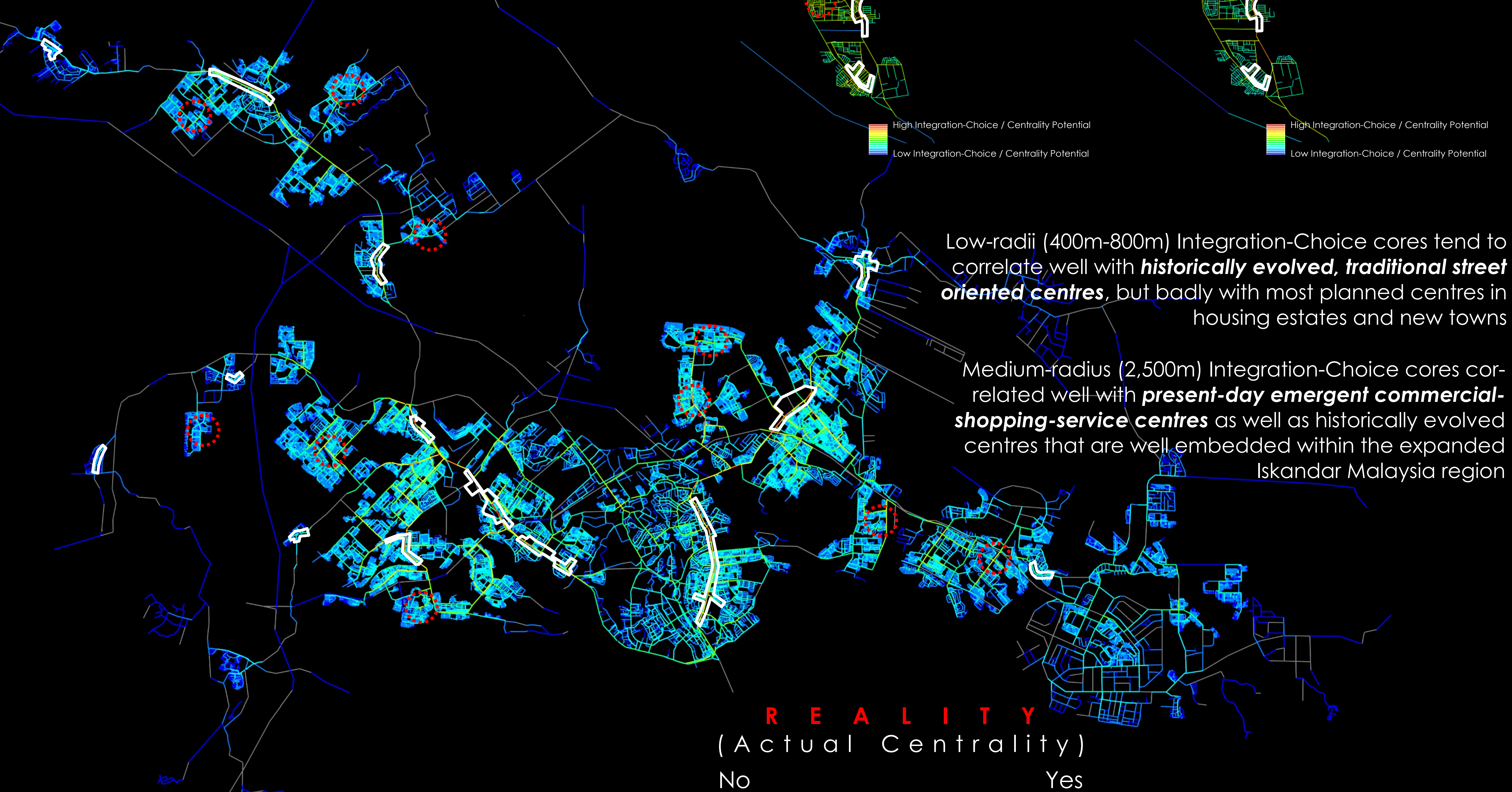
Low radius (400m) Integration-Choice Modelling of Senai's actual street network structure



Medium radius (2500m) Integration-Choice Modelling of Senai's actual street network structure



Multiple-radii Integration-Choice Modelling of Iskandar Malaysia's actual street network structure highlights street segments with high to- and through movement – thus centrality – potentials



Low-radii (400m-800m) Integration-Choice cores tend to correlate well with **historically evolved, traditional street oriented centres**, but badly with most planned centres in housing estates and new towns

Medium-radius (2,500m) Integration-Choice cores correlated well with **present-day emergent commercial-shopping-service centres** as well as historically evolved centres that are well embedded within the expanded Iskandar Malaysia region

**R E A L I T Y**  
 (Actual Centrality)  
 No Yes

**M O D E L**  
 (Centrality Potential)  
 High Low

High	Prohibition due to regulatory planning (e.g. zoning)	Thriving, vital, vibrant centres	→ Sustainable centres
Low	Quieter, largely homogenous residential background spaces	Centres thriving? ..... Centres failing?	→ May be due to huge attractors; pose sustainability issues → Most likely due to bad spatial planning