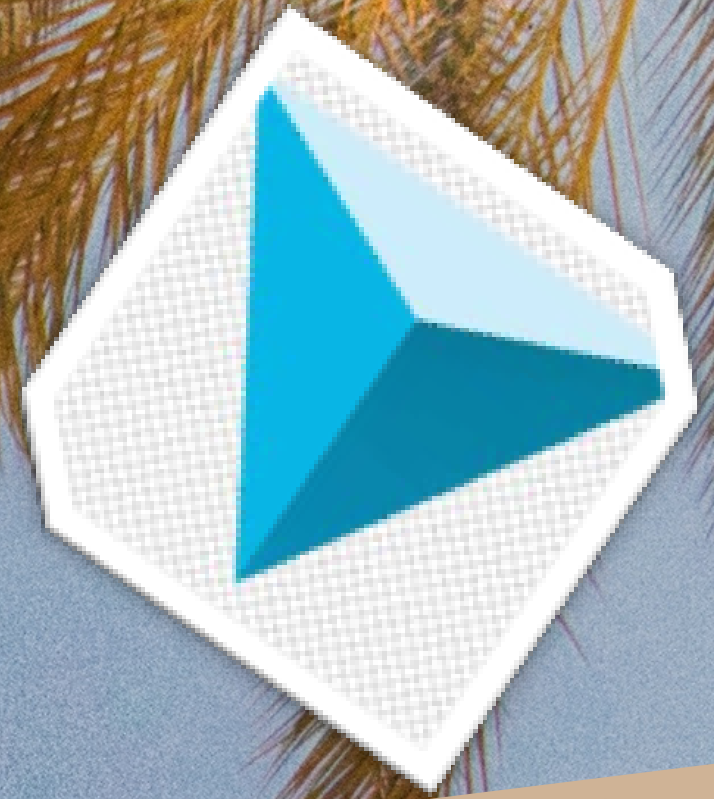


Transporting The Future

TRIANGULATE

HIGH LEVEL TRANSPORT NETWORK MONITORING SYSTEM



PROBLEM STATEMENT

SERVICE DELIVERY SHORTFALLS

FRAIL TRANSPORT NETWORKS
FAILING INFRASTRUCTURE
DORMANT ROADS
POPULATION EXPLOSION

Draft Revised White
Paper on National
Transport Policy 2017

SECTION 4.1.3

DECENTRALIZATION

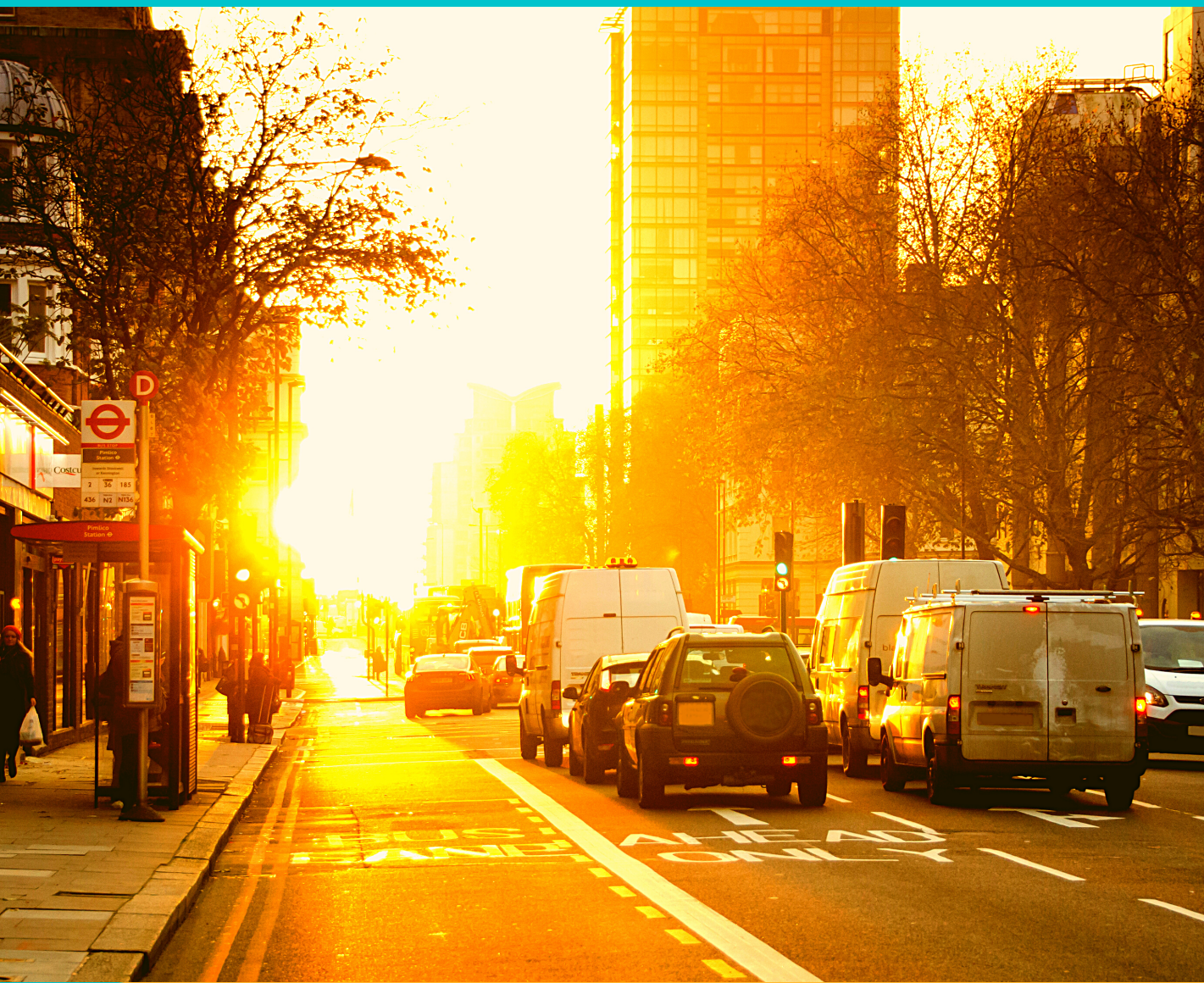
HOWEVER IT IS PARTIAL AND LIMITED

SECTION 4.4.2

DEVELOP A COMPREHENSIVE TRANSPORT
DATA AND INFORMATION SYSTEM

WHY

INFORM INTERGRADED TRANSPORT
PLANNING DECISION.



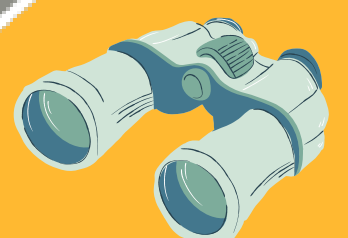
REWARDS

HIGHTENED DATA INTERGRATION
EFFICIENCY

HAVE MORE PREDICTIVE
CAPABILITIES

DECISION-BASED RECOMMENDATION

INCREASED INTERGRATION WITH
OTHER DEPARTMENTS



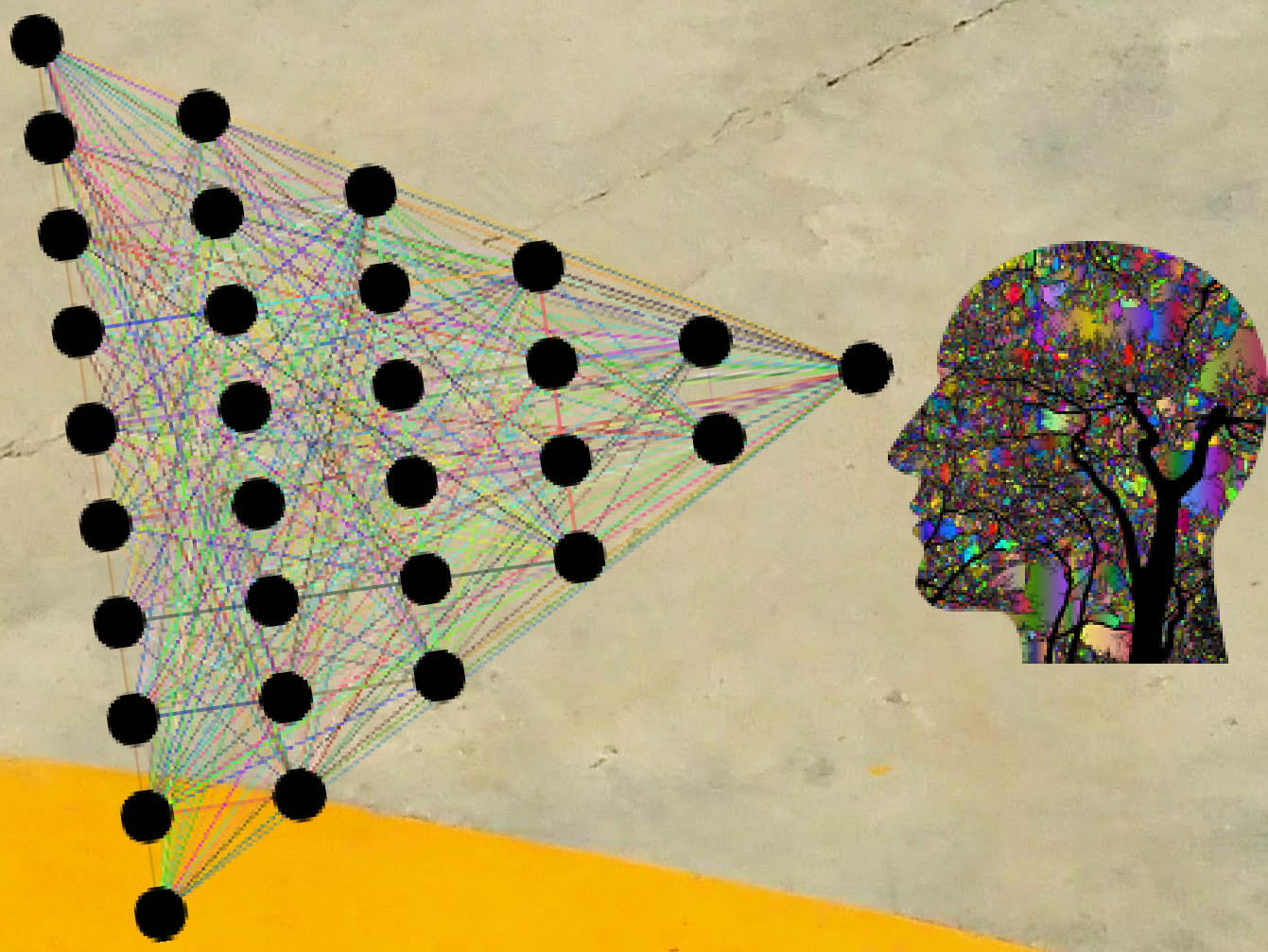
SYSTEM COMPOSITION

■ FEATURE SELECTION

■ CLASSIFICATION

■ VISUAL REPRESENTATION

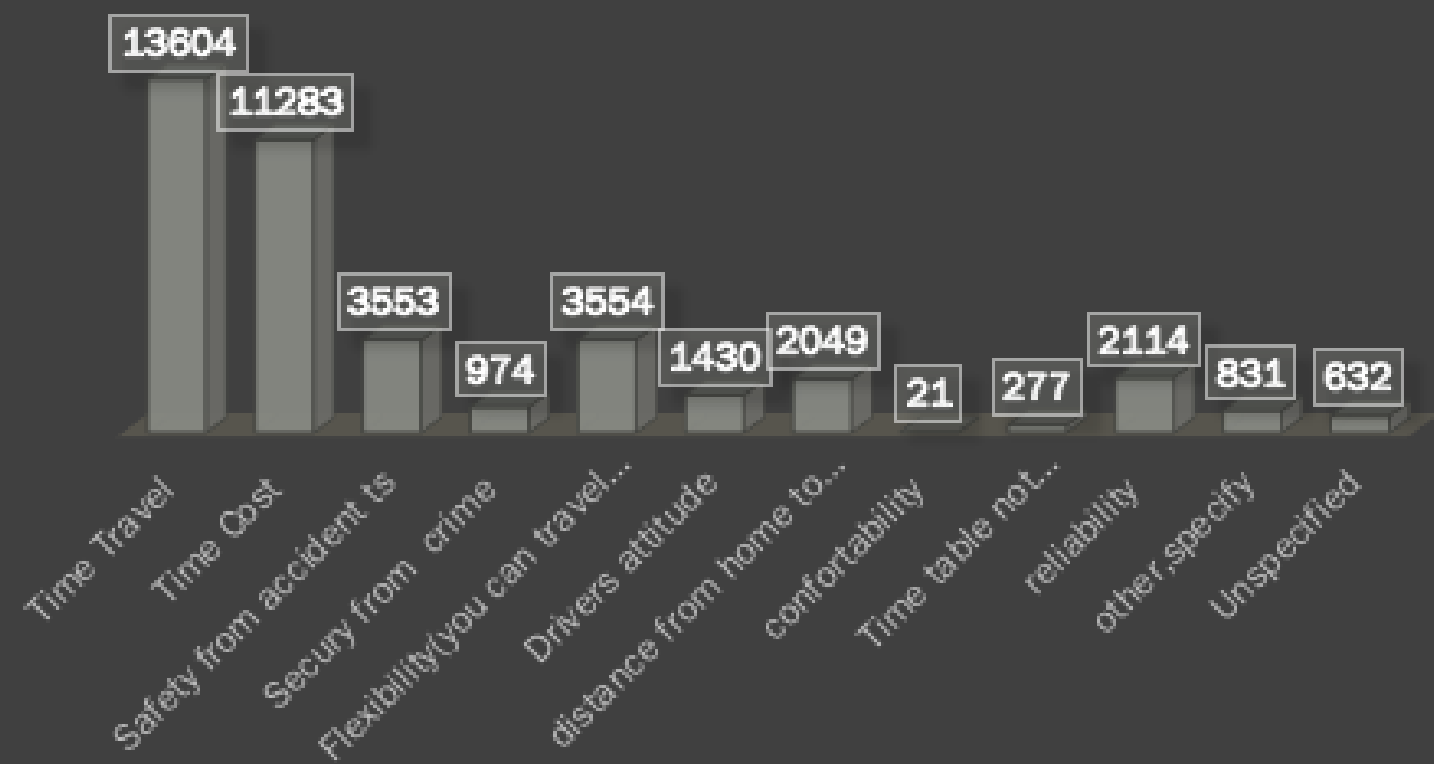
■ BAYESIAN NETWORKS



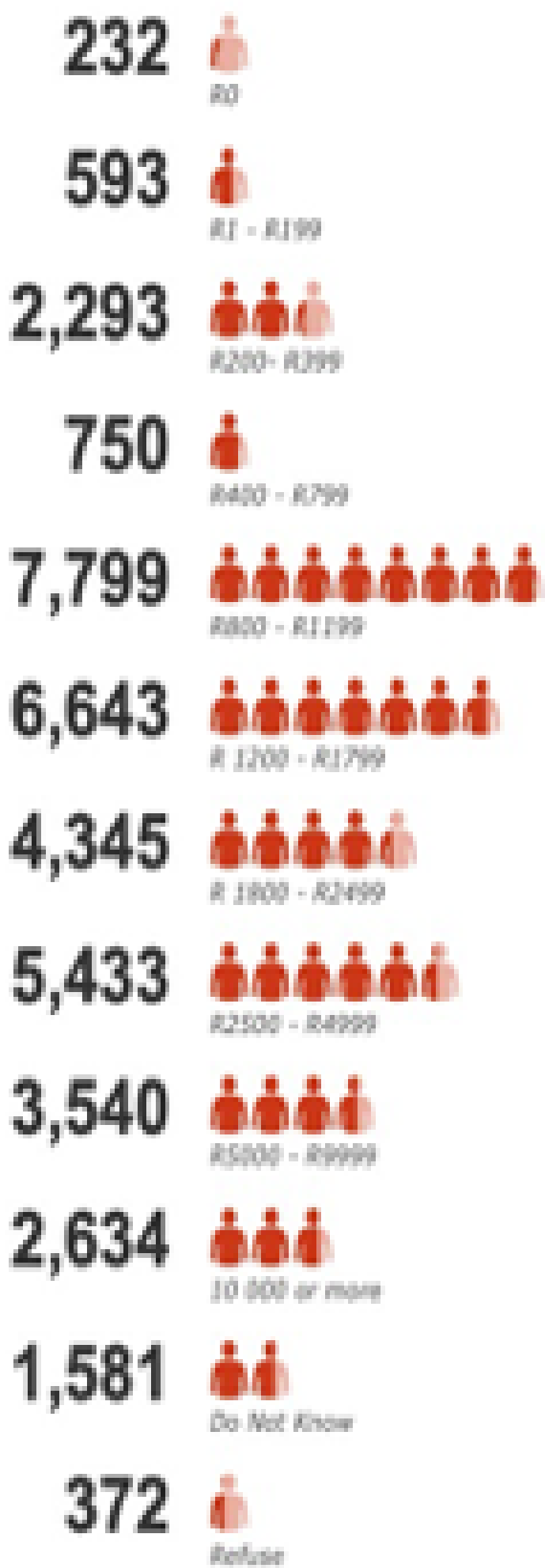
Travel Modal
Choice of Transport
Household Expenditure
Bus Services
Taxi Services overall

DATA ANALYSED

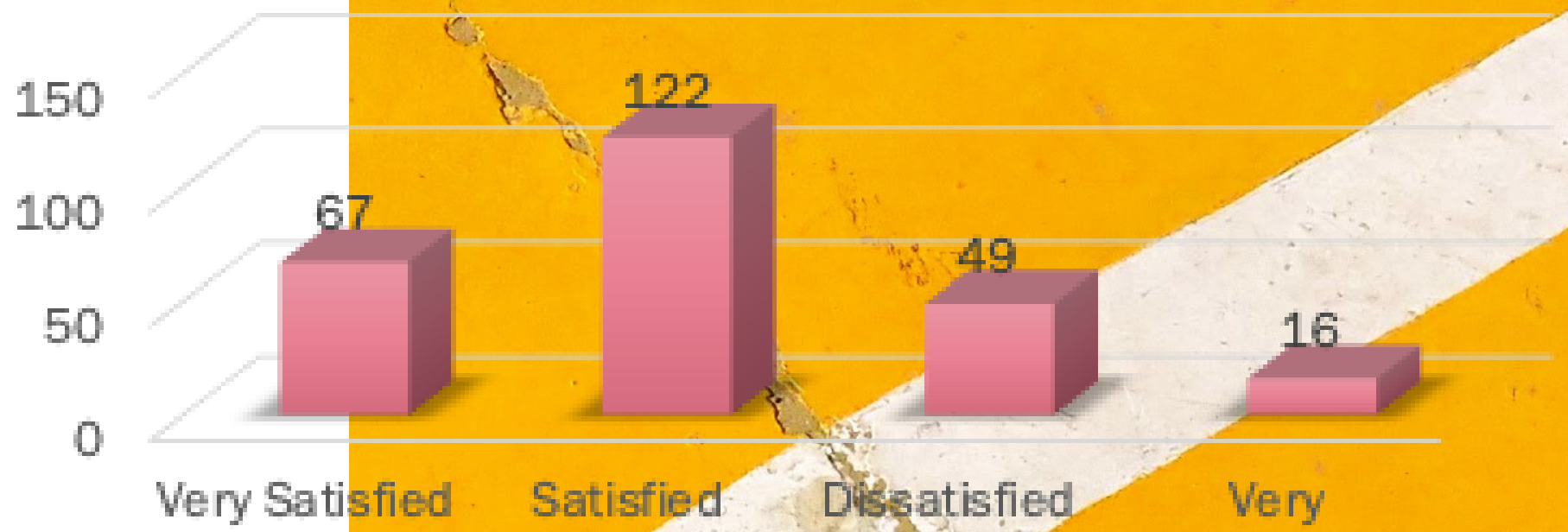
CHOICE OF TRANSPORT



HOUSEHOLD EXPENDITURE

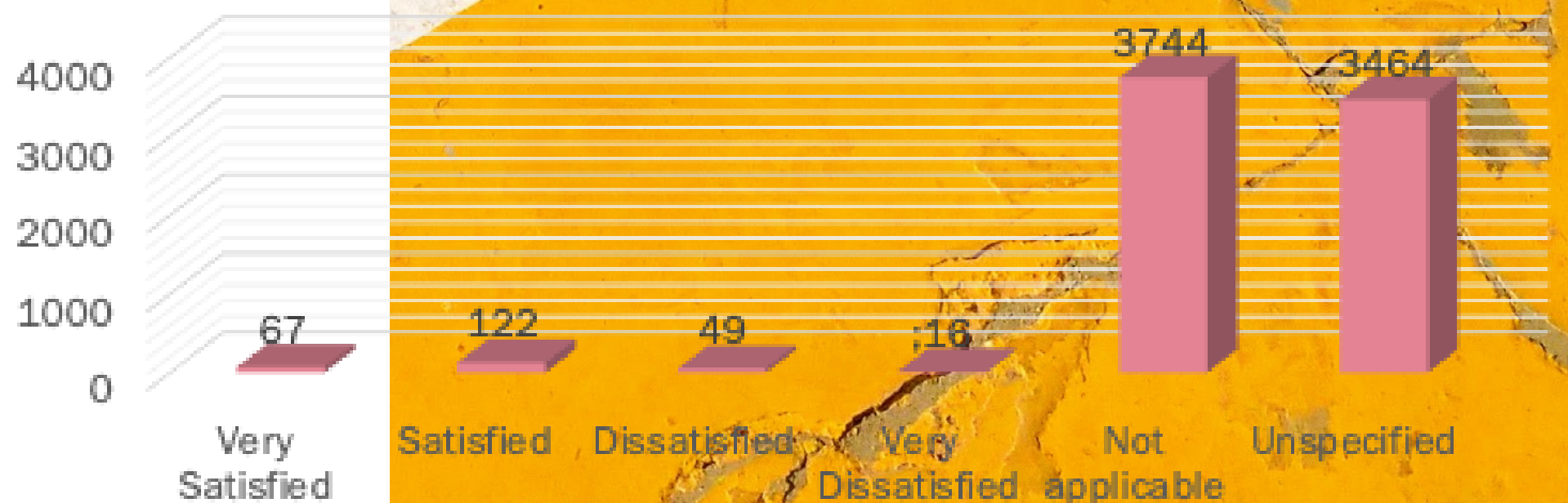


Bus Services



**SAME DATA
DIFFERENT STORIES**

Bus Services



Transporting The Future

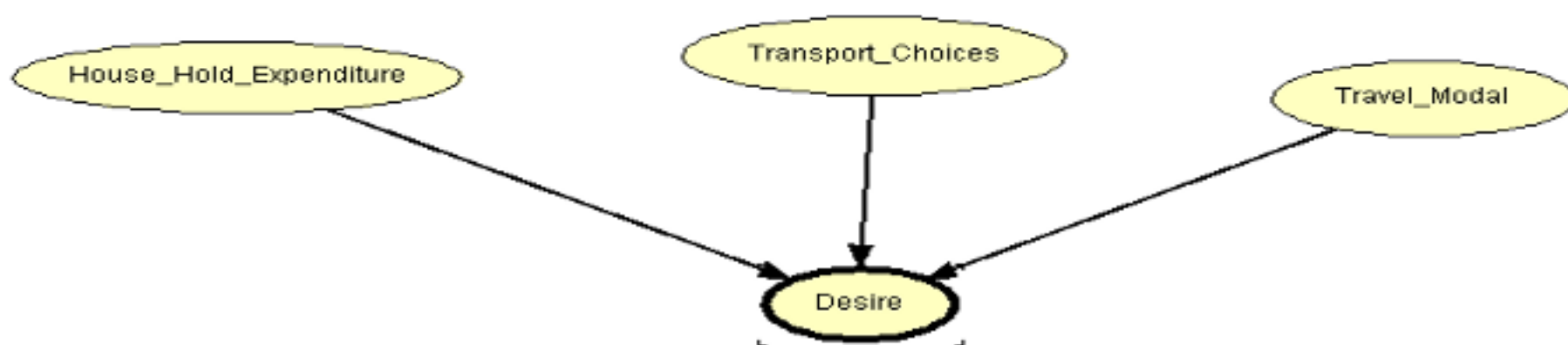
TRIANGULATE

HIGH LEVEL TRANSPORT NETWORK MONITORING SYSTEM

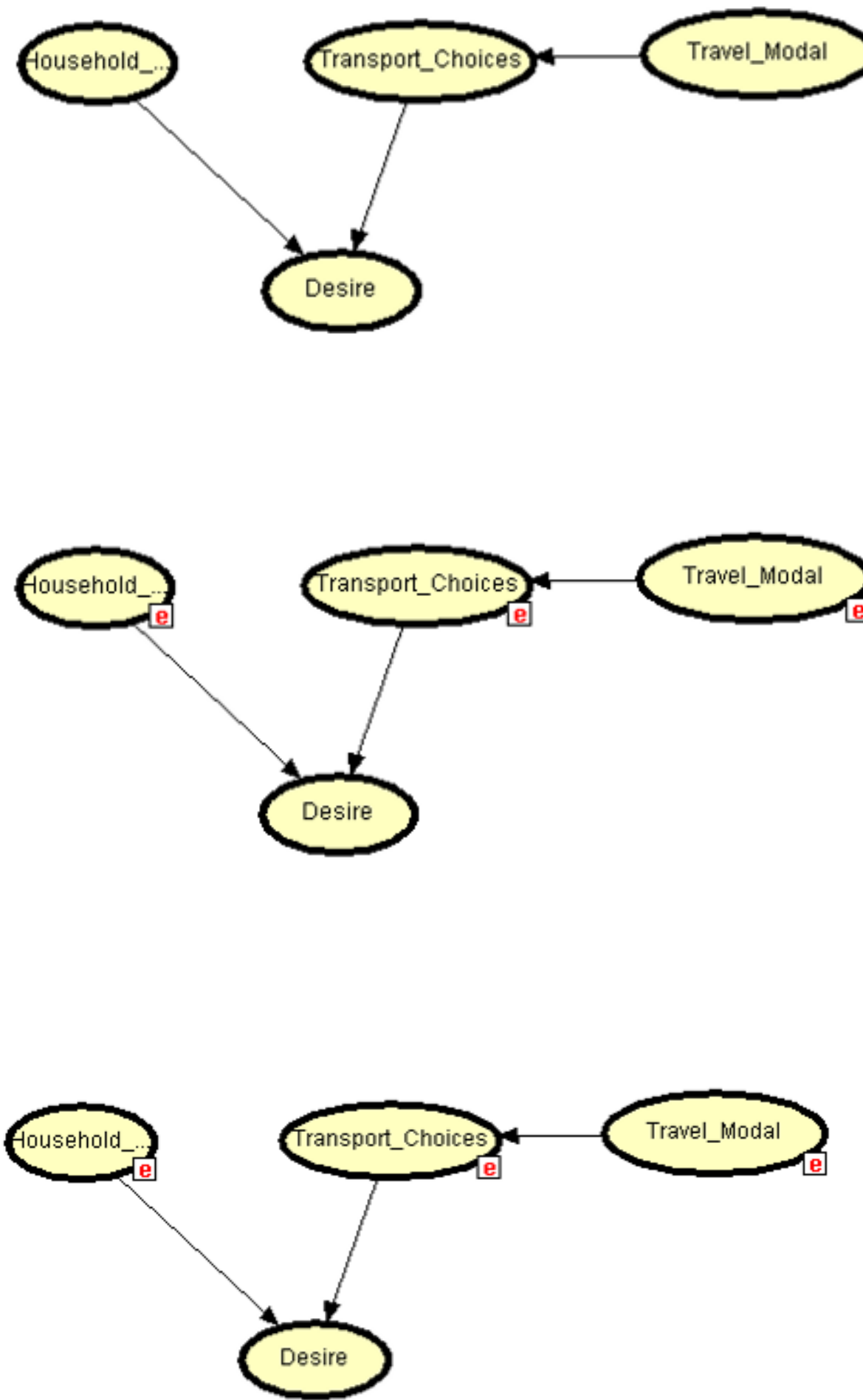
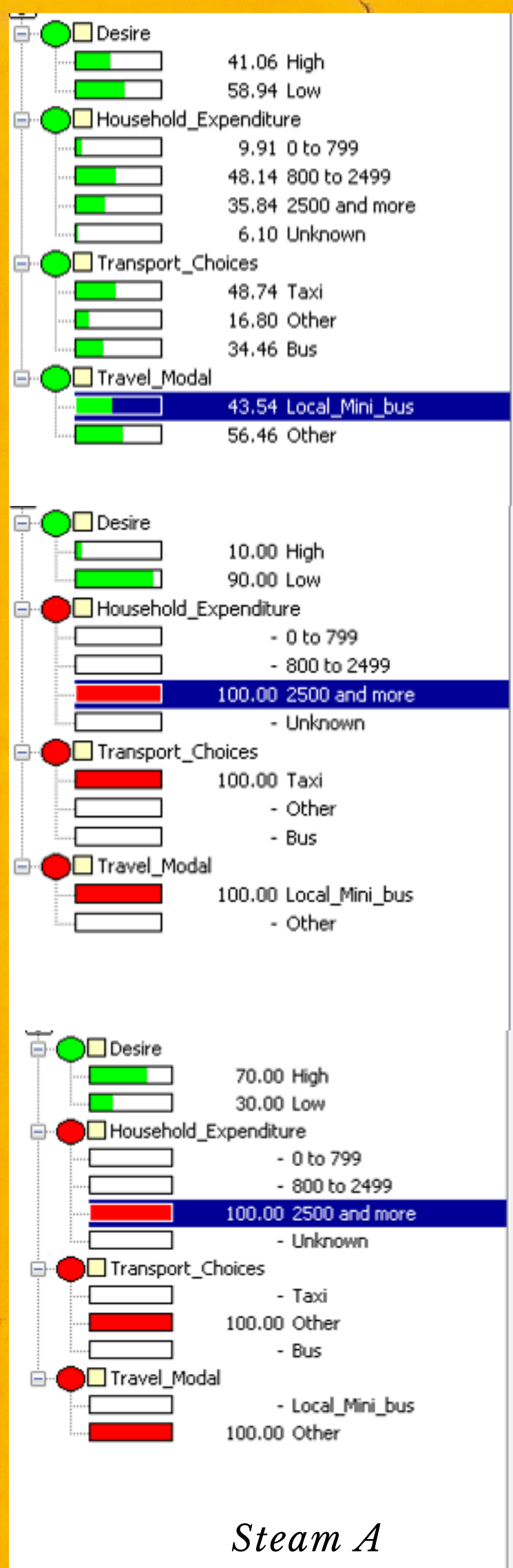


Level of Satisfaction

Train (Metrorail)													Time Cost									
R 1-R...	R 200 ~...	R 300 ~...	R 800 ~...	R 1200 ...	R 1800 ...	R 2500 ...	R 5000 ...	10 000...	Do not...	Refuse	Unspe...	R0	R 1-R...	R 200 ~...	R 300 ~...	R 800 ~...	R 1200 ...	R 1800 ...	R 2500 ...	R 5000 ...		
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



SIMPLIFIED NETWORK



DEVELOPMENT
ADVICORY
MANINTANAGE

REVENUE
MODEL

DEVELOPMENT
ADVICORY
TRAINING

Transporting The Future

TRIANGULATE



HIGH LEVEL TRANSPORT NETWORK MONITORING SYSTEM