Stakeholder Analysis

Single String (*concatenation*)

INFLUENCE

.75, 1, 0.75, 0.75, 0.75, 0.75, 0.25, 0, 0.25, 0, 0.75, 0.5, 0, 0.75, 1, 0.75, 0.75, 0.75, 1, 1, 0.75, 0.75, 0.75, 0.75, 0.75, 0.75, 1, 1, 1, 1, 0.5, 1, 0.75, 1, 1, 1, 1, 1, 1, 0.75, 1, 1, 0.25, 0.25, 0.25, 0.25, 0.5, 0.25, 0, 0.5, 0.

Single String: *paste as values from the Grey cell above, then copy the resulting set of values and paste as R input matrix (Red) below*

0.5, 0.25, 0.75, 0.75, 0.75, 0.75, 0.25, 0.75, 1, 1, 1, 1, 1, 1, 0.75, 0.75, 1, 1, 0.75, 0.5, 1, 1, 0.75, 1, 0.25, 0.75, 1, 1, 0.75, 0.75, 0.75, 1, 1, 0.75, 0.75, 0.75, 0.25, 0, 0.5, 0.5, 0.75, 0.75, 0, 0.75, 1, 0.75, 1, 0.75, 1, 1, 0.75, 0.75, 0.75, 1, 0.25, 0, 0.5, 0.5, 0.75, 1, 0, 0.75, 1, 1, 1, 1, 1, 1, 0.75, 0.75, 1, 0.75, 0.25, 0.25, 0.25, 0.25, 0.5, 0.25, 0, 0.5, 0.25, 0.75, 1, 0.75, 0.75, 1, 0.75, 0.75, 0.75, 0.75, 0.25, 0, 0.25, 0, 0.75, 0.5, 0, 0.75, 1, 0.75, 0.75, 0.75, 0.75, 0.75, 0.75, 0.75, 1, 1, 1, 1, 1, 0.5, 1, 0.75, 1, 1, 1, 1, 1, 1, 0.75, 1, 1, 0.25, 0.25, 0.25, 0.25, 0.5, 0.25, 0, 0.5, 0.25, 0.75, 1, 0.75, 0.75, 1, 0.75, 0.75, 0.75, 0.75, 0.25, 0, 0.25, 0, 0.75, 0.5, 0, 0.75, 0.5, 1, 0, 0.25, 0.25, 0.25, 0.25, 0.5, 0.25, 0.5, 0.5, 0.75, 0.75, 0.25, 0.5, 0.75, 0.75, 0.25, 0.5, 0.25, 0.5, 0.5, 0.5, 0.75, 0.75, 0.25, 0.5, 0.25, 0.5, 0.5, 0.75, 0, 0.25, 0.5, 0.25, 0.5, 0.5, 0.75, 0.75, 0.25, 0.5, 0.75, 0.75, 0.25, 0.5, 0.25, 0.5, 0.5, 0.75, 0.75, 0.25, 0.5, 0.25, 0.5, 0.5, 0.75, 0, 0.25, 0, 0.25, 0.25, 0.5, 0.5, 0.5, 0.75, 0.5, 0.25, 0.5, 0.5, 0.75, 0, 0.25, 0, 0.25, 0.25, 0.25, 0, 0, 0.5, 0.5, 0.75, 0.5, 1, 0.75, 0.25, 0.25, 0.5, 1, 0, 0.25, 0, 0, 0.25, 0, 0, 0, 0.25, 0.5, 0.25, 0, 0.5, 0.25, 0, 0.25, 0.25, 0.25, 0.25, 0, 0.25, 0.75, 0.75, 1, 0.75, 1, 1, 0.5, 0.75, 0.75, 1, 0.25, 0.25, 0.25, 0.25, 0.25, 0.25, 0.25, 0.25, 0.5, 0.5, 0.5, 0.75, 0.75, 0.75, 0.25, 0.5, 0.5, 0.75, 0, 0.25, 0.25, 0, 0.25, 0.25, 0.5, 0.5, 0.5, 0.75, 0.5, 0.25, 0.5, 0.5, 0.75, 0, 0.25, 0, 0.25, 0.25, 0.5, 0.25, 0.5

Output String: *paste output from R as a single string*

0.09661224 0.10897141 0.07509067 0.08052145 0.05905914 0.06251625 0.12549225 0.06267935 0.03722995 0.03516653 0.02866627 0.03562029 0.01743793 0.01817265 0.05279398 0.04961220 0.03532070 0.01903676

R CODE

```
INFL = c(0.5, 0.25, 0.75, 0.75, 0.75, 0.75, 0.25, 0.75, 1, 1, 1, 1, 1, 1, 0.75, 0.75, 1, 1, 0.75, 0.5, 1, 1, 0.75, 1, 0.25, 0.75, 1, 1, 0.75, 0.75, 0.75, 1, 1, 0.75, 0.75, 0.75, 0.25, 0, 0.5, 0.5, 0.75, 0.75, 0, 0.75, 1, 0.75, 1,
0.75, 1, 1, 0.75, 0.75, 0.75, 1, 0.25, 0, 0.5, 0.5, 0.75, 1, 0, 0.75, 1, 1, 1, 1, 1, 1, 0.75, 0.75, 1, 0.75, 0.25, 0.25, 0.25, 0.25, 0.5, 0.25, 0, 0.5, 0.25, 0.75, 1, 0.75, 0.75, 1, 0.75, 0.75, 0.75, 0.75, 0.25, 0, 0.25, 0, 0.75, 0.5, 0, 0.75,
0.5, 0, 0.75, 1, 0.75, 0.75, 0.75, 1, 1, 0.75, 0.75, 0.75, 0.75, 0.75, 0.75, 0.75, 1, 1, 1, 1, 1, 0.5, 1, 0.75, 1, 1, 1, 1, 1, 1, 0.75, 1, 1, 0.25, 0.25, 0.25, 0.25, 0.5, 0.25, 0, 0.5, 0.25, 0.75, 1, 0.75, 0.75, 1, 0.75, 0.75, 0.75, 0.75, 0.25, 0, 0.25, 0, 0.75, 0, 0, 0,
0, 0, 0.75, 0, 0.25, 0.25, 0.5, 0.25, 0.5, 0.5, 0.75, 0.75, 0.25, 0.5, 0.75, 0.75, 0, 0, 0.25, 0, 0.25, 0.25, 0, 0.25, 0.75, 0.5, 0.75, 0.5, 0.5, 0.5, 0.25, 0.5, 0.5, 1, 0, 0.25, 0, 0, 0, 0.25, 0, 0.25, 0.5, 0.25, 0.5, 0.25, 0.75,
0.75, 0, 0.5, 0.5, 1, 0, 0.25, 0.25, 0, 0.25, 0.25, 0, 0, 0.5, 0.5, 0.75, 0.5, 1, 0.75, 0.25, 0.25, 0.5, 1, 0, 0.25, 0, 0, 0.25, 0, 0, 0, 0.25, 0.5, 0.25, 0, 0.5, 0.25, 0, 0.25, 0.25, 0.5, 0.25, 0.5, 0.5, 0.75, 0.75, 0.25, 0.5, 0.75, 0.25, 0.5, 0.25, 0.5, 0.5, 0.5, 0.25, 0.5, 0.5, 1, 0, 0.25, 0, 0, 0, 0.25, 0, 0.25, 0.5, 0.25, 0.5, 0.25, 0.75,
0.25, 0.75, 0.5, 0, 0.25, 0.5, 0.75, 0.25, 0, 0.25, 0.25, 0.25, 0.25, 0, 0.25, 0.75, 0.75, 1, 0.75, 1, 1, 0.5, 0.75, 0.75, 1, 0.25, 0.25, 0.25, 0.25, 0.25, 0.25, 0.25, 0.25, 0.5, 0.5, 0.5, 0.75, 0.75, 0.75, 0.25, 0.5, 0.5, 0.75,
0, 0.25, 0.25, 0, 0.25, 0.25, 0, 0.25, 0.25, 0.5, 0.5, 0.5, 0.75, 0.5, 0.25, 0.5, 0.5, 0.75, 0, 0.25, 0, 0.25, 0.25, 0.25, 0, 0, 0.25, 0, 0, 0, 0.5, 0.25, 0, 0.25, 0.25, 0.5)
# Original matrix
INFLm = matrix(INFL, nr = 18, nc = 18, byrow = TRUE)
INFLm
eigen.INFLm = eigen(INFLm)
prop.table(as.numeric(eigen.INFLm$vectors[,1]))
# Shows normalised eigenvector values - use for stakeholder influence weights, remove item numbers shown in [xx]
INFLe <- eigen(INFLm)
(values <- INFLe$values)
# Shows eigenvalues - use to check MAX eigenvalue for Pairwise Consistency Index calculation
```

INTEREST

75, 0.25, 0.75, 0.5, 0.75, 0.75, 0.25, 0.75, 0, 0, 0.25, 0.25, 0.5, 0.5, 1, 0.75, 0.75, 0.75, 0.75, 0.5, 1, 0.75, 0.75, 0.75, 0.75, 0.75, 0, 0, 0, 0, 0.25, 0, 0.5, 0.25, 0, 0, 0.25, 0, 0.25, 0.25, 0.5, 0.25, 0, 0.25, 0, 0.25, 0.25, 0

Single String: *paste as values from the Grey cell above, then copy the resulting set of values and paste as R input matrix (Red) below*

0.5, 0.5, 0.75, 0.75, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0.75, 1, 1, 0.5, 0.5, 0.75, 0.75, 0.75, 1, 1, 0.75, 0.75, 0.75, 0.75, 0.5, 0.75, 1, 1, 0.75, 0.5, 0.75, 0.25, 0.25, 0.5, 0.25, 0.75, 0.75, 1, 0.75, 0.75, 1, 1, 0.5, 1, 0.75, 1,
0.75, 0.5, 1, 0.25, 0.25, 0.75, 0.5, 0.5, 0.75, 1, 0.75, 0.75, 0.75, 0.75, 0.75, 1, 1, 1, 1, 0.75, 0.25, 0.75, 0, 0.25, 0.25, 0.5, 0.5, 0.5, 0.75, 0.25, 0.75, 0.75, 0.75, 0.25, 0.75, 0.5, 0.75, 0.75, 0.25, 0.75, 0, 0, 0.25, 0.25,
0.5, 0.5, 1, 0.75, 0.75, 0.75, 0.75, 0.5, 1, 0.75, 0.75, 0.75, 0.75, 0.75, 0, 0, 0, 0, 0.25, 0, 0.5, 0.25, 0, 0, 0.25, 0, 0.25, 0.25, 0.5, 0.25, 0, 0.25, 0, 0.25, 0.25, 0.25, 0.75, 0.25, 0.75, 0.5, 0.75, 0.5, 0.75, 0.5, 0.75, 0.75,
0.75, 0.75, 0.5, 1, 0, 0.25, 0.25, 0.25, 0.25, 0.25, 1, 0.25, 0.5, 0.75, 0.5, 0.5, 0.75, 0.25, 1, 0.5, 0.75, 1, 0, 0.25, 0, 0.25, 0.25, 0.5, 0.5, 0.5, 0.75, 0.25, 0.75, 0.5, 0.75, 0.5, 0.75, 0.5, 0.75, 0.5, 0.75, 0.75,
0.75, 0.25, 0.5, 0.5, 0.5, 0.25, 1, 0.5, 0.5, 0.5, 0.5, 0.5, 0.25, 0.75, 0.5, 0.5, 0.5, 0.5, 0.5, 0, 0, 0, 0, 0.25, 0, 0.5, 0.25, 0, 0, 0.25, 0, 0.25, 0.25, 0.5, 0.25, 0, 0.25, 0, 0.25, 0.25, 0.25, 0.25, 0.5, 0.25, 0.5, 0.25, 0,
0, 0.25, 0, 0.5, 0.25, 0.75, 0.25, 0.75, 0.5, 0.5, 0.25, 0.75, 0.25, 0.5, 0.5, 0.5, 0.75, 0, 0, 0, 0, 0.25, 0.25, 0.5, 0.25, 0, 0, 0.5, 0.25, 0.5, 0.5, 0.5, 0.25, 0, 0.75, 0.25, 0.25, 0.25, 0.25, 0.25, 0.25, 0.75, 0.25, 0.5, 0.25,
0.5, 0.25, 0.75, 0.5, 0.75, 0.5, 0.25, 1, 0, 0.5, 0.5, 0.75, 0.75, 0.25, 1, 0.5, 0.25, 0.75, 0.5, 0.5, 1, 0.5, 1, 0.75, 0.5, 1, 0, 0.25, 0, 0.25, 0.25, 0.25, 0.75, 0, 0, 0.25, 0.5, 0, 0.5, 0.25, 0.25, 0, 0, 0.5

Output String (*paste output from R as a single string*)

0.11628693 0.09633023 0.08113523 0.08255350 0.05692056 0.06472543 0.01228908 0.06139657 0.05272852 0.04434030 0.04218476 0.07051577 0.01774599 0.04128073 0.02191141 0.04664878 0.07003530 0.02097090

R CODE

```
INT = c(0.5, 0.5, 0.75, 0.75, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 0.75, 1, 1, 0.5, 0.5, 0.75, 0.75, 0.75, 1, 1, 0.75, 0.75, 0.75, 0.75, 0.5, 0.75, 1, 1, 0.75, 0.5, 0.75, 0.25, 0.25, 0.5, 0.25, 0.75, 0.75, 1, 0.75, 0.75, 1, 1, 0.5, 1,
0.75, 1, 0.75, 0.5, 1, 0.25, 0.25, 0.75, 0.5, 0.5, 0.75, 1, 0.75, 0.75, 0.75, 0.75, 0.75, 1, 1, 1, 0.75, 0.25, 0.75, 0, 0.25, 0.25, 0.5, 0.5, 0.5, 0.75, 0.25, 0.75, 0.75, 0.75, 0.25, 0.75, 0.5, 0.75, 0.75, 0.25, 0.75, 0, 0, 0.25,
0.25, 0.5, 0.5, 1, 0.75, 0.75, 0.75, 0.75, 0.5, 1, 0.75, 0.75, 0.75, 0.75, 0.75, 0, 0, 0, 0, 0.25, 0, 0.5, 0.25, 0, 0, 0.25, 0, 0.25, 0.25, 0.5, 0.25, 0, 0.25, 0, 0.25, 0.25, 0.25, 0.75, 0.25, 0.75, 0.5, 0.75, 0.5, 0.75, 0.5, 0.75,
0.75, 0.75, 0.75, 0.5, 1, 0, 0.25, 0.25, 0.25, 0.25, 0.25, 1, 0.25, 0.5, 0.75, 0.5, 0.5, 0.75, 0.25, 1, 0.5, 0.75, 1, 0, 0.25, 0, 0.25, 0.25, 0.25, 1, 0.5, 0.25, 0.5, 0.5, 0.25, 1, 0.5, 1, 0.75, 0.25, 0.75, 0, 0.25, 0, 0.25, 0.25,
0.25, 0.75, 0.25, 0.5, 0.5, 0.5, 0.25, 1, 0.5, 0.5, 0.5, 0.5, 0.5, 0, 0.5, 0.5, 0.25, 0.75, 0.5, 1, 0.5, 0.5, 0.75, 0.75, 0.5, 1, 0.75, 0.75, 0.75, 0.5, 1, 0, 0.25, 0, 0, 0.25, 0, 0.75, 0.25, 0.25, 0, 0, 0, 0.5, 0.25, 0.5, 0.25, 0,
0.5, 0, 0, 0.25, 0, 0.5, 0.25, 0.75, 0.25, 0.75, 0.5, 0.5, 0.25, 0.75, 0.25, 0.5, 0.5, 0.5, 0.75, 0, 0, 0, 0, 0.25, 0.25, 0.5, 0.25, 0, 0, 0.5, 0.25, 0.5, 0.5, 0.5, 0.25, 0, 0.75, 0.25, 0.25, 0.25, 0.25, 0.25, 0.25, 0.75, 0.25, 0.5,
0.25, 0.5, 0.25, 0.75, 0.5, 0.75, 0.5, 0.25, 1, 0, 0.5, 0.5, 0.75, 0.75, 0.25, 1, 0.5, 0.25, 0.75, 0.5, 0.5, 1, 0.5, 1, 0.75, 0.5, 1, 0, 0.25, 0, 0.25, 0.25, 0.25, 0.75, 0, 0, 0.25, 0.5, 0, 0.5, 0.25, 0.25, 0, 0, 0.5)
# Original matrix
INTm = matrix(INT, nr = 18, nc = 18, byrow = TRUE)
INTm
eigen.INTm = eigen(INTm)
prop.table(as.numeric(eigen.INTm$vectors[,1]))
# Shows normalised eigenvector values - use for stakeholder interest weights, remove item numbers shown in [xx]
INTe <- eigen(INTm)
(values <- INTe$values)
# Shows eigenvalues - use to check MAX eigenvalue for Pairwise Consistency Index calculation
```

Design Driver Weighting

Pairwise Comparison Matrix (source) | **0. Top-Level Design Drivers (12x12)**

0.5, 1, 0.5, 0.75, 1, 0.75, 0.5, 0.75, 1, 1, 0.75, 1, 0, 0.5, 0, 0.25, 0.5, 0.25, 0, 0.5, 0.75, 0.75, 0.5, 0.75, 0.5, 1, 0.5, 0.5, 0.75, 0.75, 0.25, 0.5, 1, 1, 1, 1, 0.25, 0.75, 0.5, 0.5, 0.75, 0.25,

Paste concatenated source as Values (string)

0.5, 1, 0.5, 0.75, 1, 0.75, 0.5, 0.75, 1, 1, 0.75, 1, 0, 0.5, 0, 0.25, 0.5, 0.25, 0, 0.5, 0.75, 0.75, 0.5, 0.75, 0.5, 1, 0.5, 0.5, 0.75, 0.75, 0.25, 0.5, 1, 1, 1, 1, 0.25, 0.75, 0.5, 0.5, 0.75, 0.25,
0.25, 0.75, 1, 1, 0.75, 1, 0, 0.5, 0.25, 0.25, 0.5, 0.25, 0, 0.25, 0.75, 0.75, 0.25, 0.75, 0.25, 0.75, 0.25, 0.75, 0.75, 0.5, 0.5, 0.75, 1, 1, 0.5, 0.75, 0.5, 1, 0.75, 0.75, 1, 0.5, 0.5, 1, 1, 1,
0.75, 1, 0.25, 0.5, 0.5, 0.25, 0.75, 0.25, 0, 0.5, 1, 1, 0.75, 0.75, 0, 0.25, 0, 0, 0.25, 0, 0, 0, 0.5, 0.25, 0.25, 0.5, 0, 0.25, 0, 0, 0.25, 0, 0, 0, 0.75, 0.5, 0.25, 0.25, 0.25, 0.5, 0, 0.25,
0.75, 0.5, 0.25, 0.25, 0.75, 0.75, 0.5, 1, 0, 0.25, 0, 0, 0.25, 0.25, 0, 0.25, 0.5, 0.75, 0, 0.5

```
# Matrix 0: Design Drivers
TLDD0 = c( 0.5, 1, 0.5, 0.75, 1, 0.75, 0.5, 0.75, 1, 1, 0.75, 1, 0, 0.5, 0, 0.25, 0.5, 0.25, 0, 0.5, 0.75, 0.75, 0.5, 0.75, 0.5, 1, 0.5, 0.5, 0.75, 0.75, 0.25, 0.5, 1, 1, 1, 1, 0.25, 0.75, 0.5, 0.5,
0.75, 0.25, 0.25, 0.75, 1, 1, 0.75, 1, 0, 0.5, 0.25, 0.25, 0.5, 0.25, 0, 0.25, 0.75, 0.75, 0.25, 0.75, 0.25, 0.75, 0.25, 0.75, 0.75, 0.5, 0.5, 0.75, 1, 1, 0.5, 0.75, 0.5, 1, 0.75, 0.75, 1, 0.5,
0.5, 1, 1, 1, 0.75, 1, 0.25, 0.5, 0.5, 0.25, 0.75, 0.25, 0, 0.5, 1, 1, 0.75, 0.75, 0, 0.25, 0, 0, 0.25, 0, 0, 0, 0.5, 0.25, 0.25, 0.5, 0, 0.25, 0, 0, 0.25, 0, 0, 0, 0.75, 0.5, 0.25, 0.25, 0.25, 0.5,
0, 0.25, 0.75, 0.5, 0.25, 0.25, 0.75, 0.75, 0.5, 1, 0, 0.25, 0, 0, 0.25, 0.25, 0, 0.25, 0.5, 0.75, 0, 0.5 )
TLDD0m = matrix(TLDD0, nr = 12, nc = 12, byrow = TRUE)
eigen.TLDD0m = eigen(TLDD0m)
prop.table(as.numeric(eigen.TLDD0m$vectors[,1]))
# Normalised eigenvector values - copy and paste as 0-TLDD driver weights, remove item numbers shown in [xx]
```