

Root Cause Mapping Data Report

Project: Reimagining the MDE Michigan School for the Deaf
Date: Oct. 26-27, 2015

54 out of 240.0 (22.5%)

Triggering Question: What do you visualize an ideal model of what the Michigan Department of Education's School for the Deaf 'ought to be' to deliver an extraordinary educational experience that leads to successful career and college-ready student outcomes?

Levels:

Level 1 = [27, 58, 29, 21, 32]

Level 2 = [16, 22, 64]

Level 3 = [36, 39, 18, 8, 7, 12, 3]

Level 4 = [53]

Cycles:

Vision 27 is in a cycle with: 21 and 29 and 32

Vision 16 is in a cycle with: 22

Vision 36 is in a cycle with: 3 and 7 and 8 and 18 and 39

Structure:

LEVEL 1

58

(27 & 21 & 29 & 32)

LEVEL 2

64 > (27 & 21 & 29 & 32)

(16 & 22) > (27 & 21 & 29 & 32)

LEVEL 3

12 > 58, 64

(36 & 3 & 7 & 8 & 18 & 39) > 64, (16 & 22)

LEVEL 4

53 > (36 & 3 & 7 & 8 & 18 & 39)

"(X & Y)" = X is in a cycle with Y.

"X > Y, Z" = X influences Y and Z

Log of Responses

36 > 27 = Y
27 > 36 = N
27 > 39 = N
39 > 36 = Y
36 > 39 = Y
18 > 36 = Y
36 > 18 = Y
53 > 36 = Y
36 > 53 = N
36 > 58 = N
58 > 36 = N
53 > 58 = N
58 > 27 = N
36 > 8 = Y
8 > 36 = Y
36 > 7 = Y
7 > 36 = Y
36 > 12 = N
12 > 36 = N
53 > 12 = N
58 > 12 = N
12 > 27 = Y
12 > 58 = Y
36 > 29 = Y
29 > 36 = N
58 > 29 = N
27 > 29 = Y
29 > 27 = Y
36 > 16 = Y
16 > 36 = N
27 > 16 = N
16 > 27 = Y
12 > 16 = N
36 > 21 = Y
21 > 16 = N
27 > 21 = Y
21 > 27 = Y
36 > 32 = Y
32 > 16 = N
27 > 32 = Y
32 > 27 = Y
36 > 3 = Y
3 > 16 = Y
3 > 36 = Y
36 > 22 = Y
22 > 16 = Y
22 > 36 = N
16 > 22 = Y
36 > 64 = Y
64 > 16 = N
27 > 64 = N
64 > 27 = Y
16 > 64 = N
12 > 64 = Y

Root Cause Mapping Data Report

Matrix

	58	27	64	16	12	36	53
58	1	0	0	0	0	0	0
27	0	1	0	0	0	0	0
64	0	1	1	0	0	0	0
16	0	1	0	1	0	0	0
12	1	1	1	0	1	0	0
36	0	1	1	1	0	1	0
53	0	1	1	1	0	1	1

Reading the Matrix

Reading across the matrix (in a row), a "1" in the row indicates that the Vision in the left column influences the Vision at the top of the row where the "1" appears. Conversely any column below a Vision in the top row with a "1" indicates that the Vision is influenced by the Factor on the left edge. A "0" indicates no relationship. Visions always influence themselves.

Situational Complexity Index (SCI)

$$SCI = DK(N - 7)/R(R-1)$$

V = Number of ideas receiving 1 or more Votes

N = The number of ideas

K = The number of connections in the map

R = The number of Ideas in the map

$$D = (V - 5)/(N - 5)$$

$$V = 30 \quad N = 74 \quad K = 117 \quad R = 16 \quad D = 0.36$$

$$SCI = 11.83$$