# COMPARATIVE SCENARIO ANALYSIS OF MYMENSINGH TOWN

MSDP Project 2011-2031

### Objectives

- Evaluate how the city elements are spatially distributed over the city area (Like landuse, population, resources and facilities)
- Evaluated how different area of the city is getting the services & facilities
- Identify the exposed area of the city subject to different risk
- Evaluate the Connectivity of the city area

### Methodology

City area is divided into 100 m X 100 m grid. Total no of Grid is 2160. each grid size is 1 Hectare.

34 elements are taken as parameter for the analysis

Parameters are examined by two ways:

- 1. Parameters/elements present within the grid
- Parameters/elements are connected from the grid center through road network

### Methodology

- Depending on element presents in the cell and network distance of the elements from grid center a hierarchy is created so that every cell can be comparable with other.
- Spatial Join operation is performed for populating the parameters/elements into the cell
- Network Analysis operation is performed for calculating the connectivity/ accessibility of the cell from the elements
- A scale is developed ranging o to 10. Where each cell is scored according to the distribution.
- A weightage factor is assign for each parameter depending on their merit.
- Finally all cell are converted into 100 score...

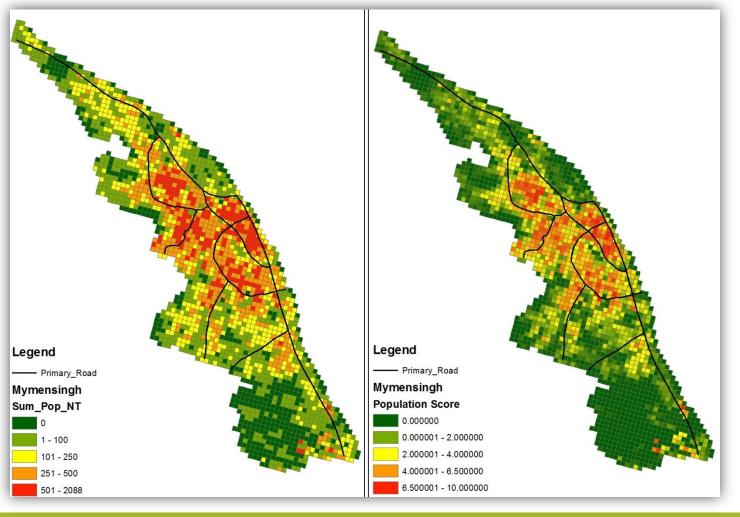
## Weightage distribution of the variables for comparative analysis of the cell in Mymensingh municipality

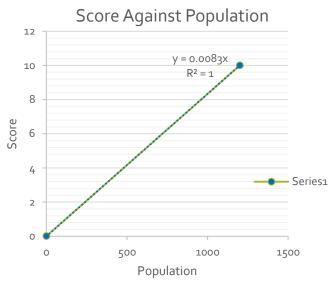
S/N item	quality	description	condition of veriable		Load distribution	Broad category	points	detail points
1 Pora_dist	point	distance from municipality office	quality outside cell	administrative influance		1. Adminstrative	5	2
2 Upz_Dist	point	distnce from UPZ office	quality outside cell	administrative influance				1
3 DCOff_dist	point	distance from DC's office	quality outside cell	administrative influance				2
4 PriSch_Dist	point	distance from primary school	quality outside cell	educational influance		2. Education	6	1
5 Hghsch_dist	point	distance from high school	quality outside cell	educational influance				2
6 Col_dist	point	distance from college	quality outside cell	educational influance				2
7 Univ_dis	point	distance from college	quality outside cell	educational influance				1
8 Clic_Dstn	point	distance from clinic	quality outside cell	health serv. influance		3. Health	6	2
9 Hos_Dstn	point	distance from hospital	quality outside cell	health serv. influance				4
10 CityCent_distn	point	distance from city centre	quality outside cell	commercial influance		4. Commertial	7	5
11 Bzr_dstn	point	distance from bazar	quality outside cell	commercial influance				2
12 Park_distn	point	distance from park	quality outside cell	recreational influance	50%	5. Recreational	2	2
13 River_distn	line	distance from brahmaputra river	quality outside cell	recreational influance	5070	5. Recreational	3	1
14 Lngth_prim	point	distance from primary road	quality outside cell	basic traffic influance		6. Transportationa	8	5
15 ImpNode_distn	point	distance frim important node	quality outside cell	basic traffic influance				3
16 Dhk_bus	point	distance from dhaka bus station	quality outside cell	regional service influance		7. Regional connectivity	5	3
17 dhk_rail	point	distance from rail station	quality outside cell	regional service influance				2
18 PO_dist	point	distance from police station	quality outside cell	basic service influance		8. Distance from Urban services	10	2
19 Fire_dist	point	distance from fire station	quality outside cell	basic service influance				3
20 Dstb_dstn	point	distance from dustbin	quality outside cell	basic service influance				1
21 Tel_Dstn	point	distance from telephone post	quality outside cell	basic service influance				1
22 Epole_dstn	point	distance from electric post	quality outside cell	basic service influance				3

# Weightage distribution of the variables for comparetive analysis of the cell in mymensingh municipality

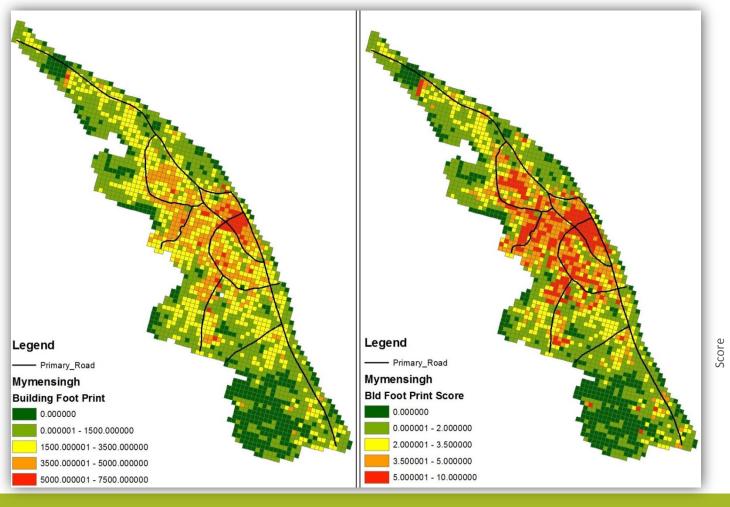
S/N	item	qual ity	description	condition of veriable	influance of veriable	Load distribution	Broad category	points	detail points
22	Wat_supply	poly	distance from water line	quality outside cell	direct influance within cell		9. quality of direct Urban service	8	2
23	Drn_line	poly	distance from drain	quality outside cell	direct influance within cell				2
24	Rd_Line	poly	distance from nearby road	quality outside cell	direct influance within cell				1
25	RD-width	poly	Adjacent road width	quality within cell	direct influance within cell				3
26	sum_pop_nt	poly	total population	quality within cell	direct influance within cell		10. Quality of inhabitants	5	5
27	Sum_built area	poly	total built up area	quality within cell	direct influance within cell		11. Built-up quality	10	4
28	sum_Build_v	poly	total voulmn of that built up area	quality within cell	direct influance within cell				6
29	sum_res_S	poly	total residential area	quality within cell	direct influance within cell		12. Residential	4	4
30	Sum_admin	poly	total administrative area	quality within cell	direct influance within cell		13. Administrative	3	3
31	Sum_Othr	poly	total other area	quality within cell	direct influance within cell		14. Others	5	5
32	sum_edu_sp	poly	total education built area	quality within cell	direct influance within cell		15. Educational	4	4
33	sum_Mixed	poly	total mixed used area	quality within cell	direct influance within cell		16. Mixed used	6	6
34	Avg_ht_rl	poly	avarage height (R.L.)	quality within cell	direct influance within cell		17. Physical quality of cell	5	5

### Population Distribution and score of the cell

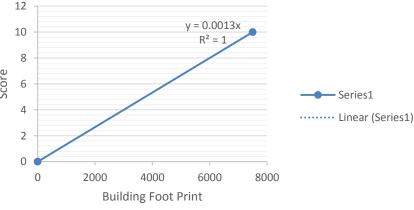




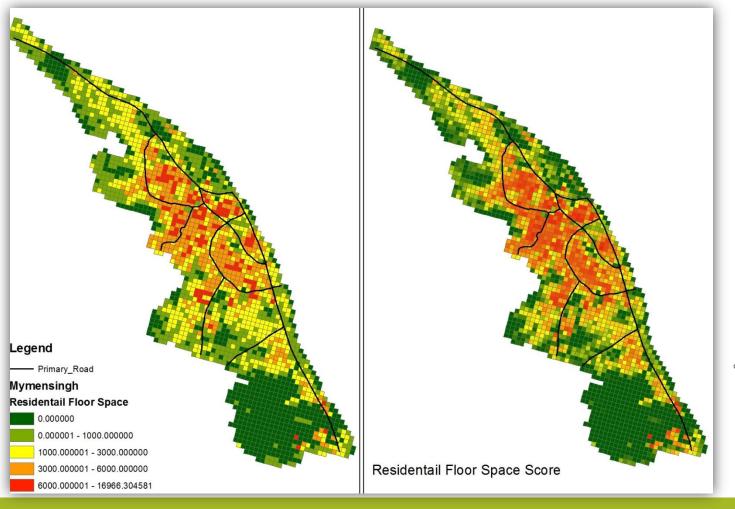
### Building foot print pattern & their score



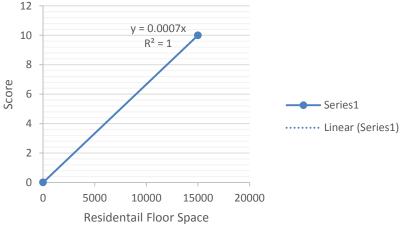
#### Score Against Building Foot Print



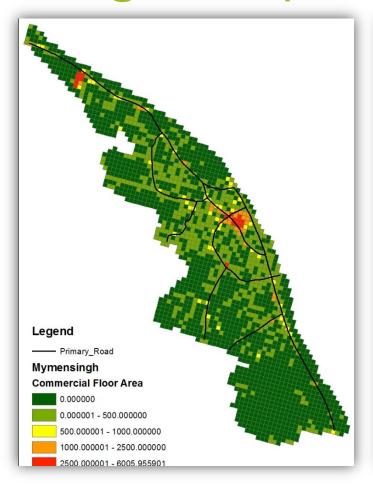
# Residential Floor Space distribution and their score

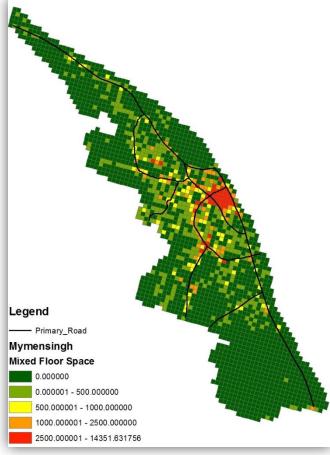


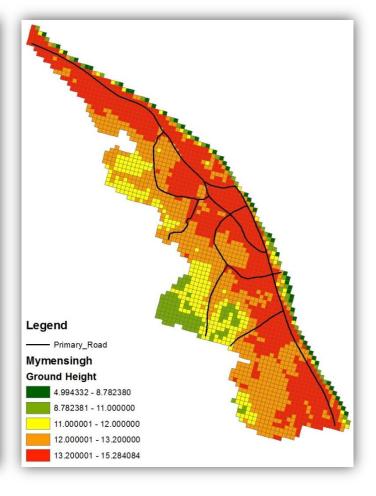
#### Score Against Residentail Floor Space



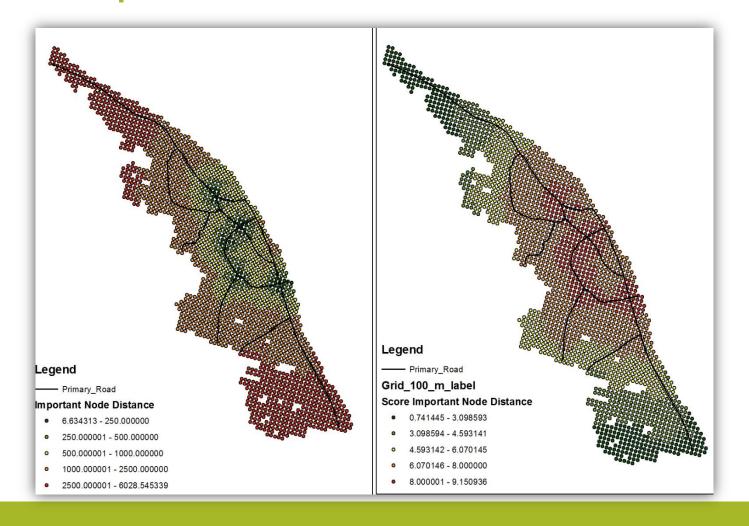
# Commercial, Mixed Floor Space and Ground Height Map

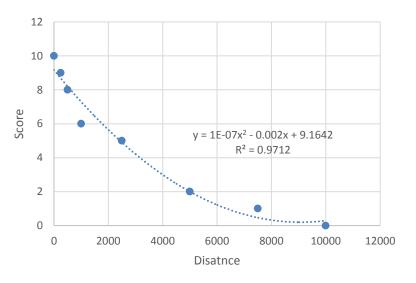




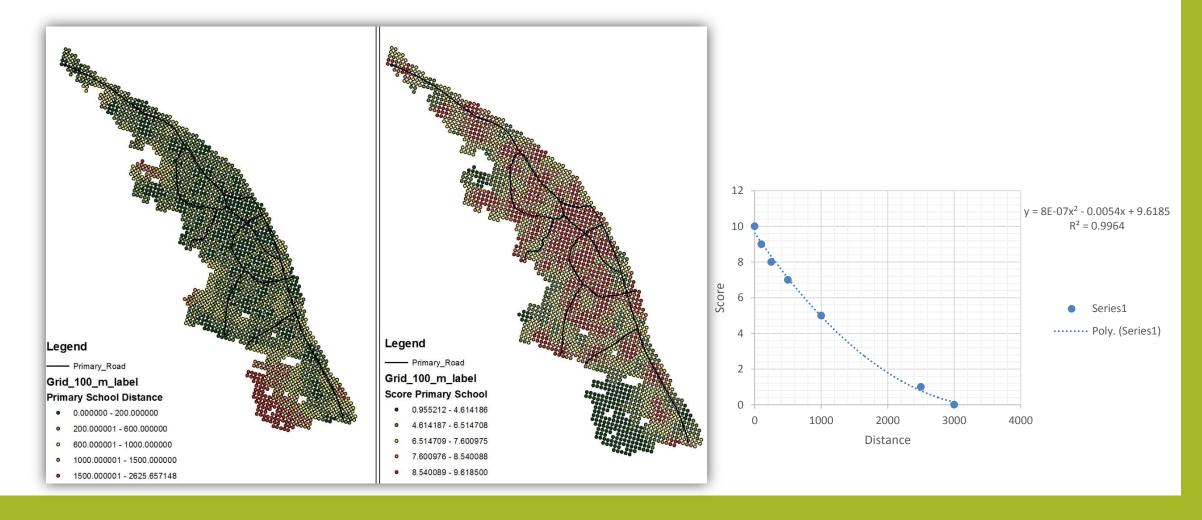


# Accessibility of Each cell connected with Important Node and their score

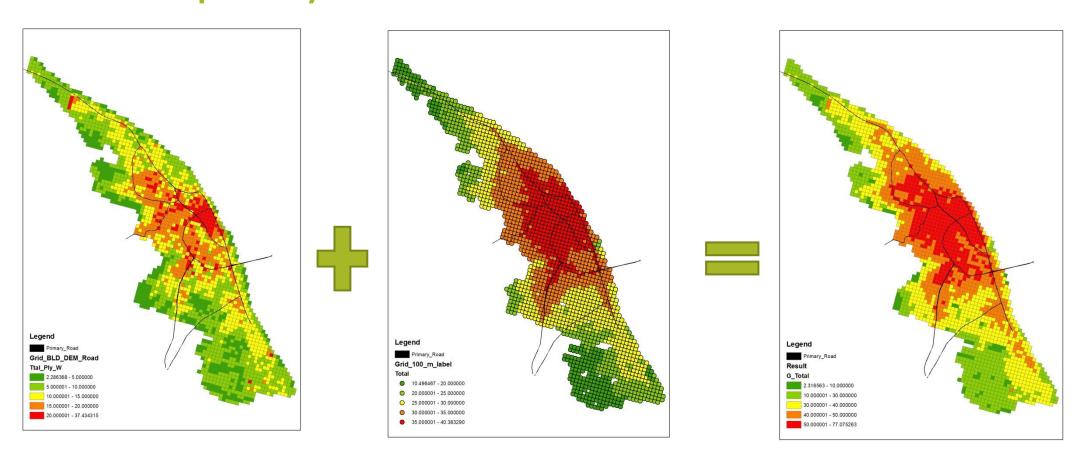




# Accessibility of Each cell connected with Primary School and their score



# Comparative scenario of Mymensingh Municipality



Thank You Q&A???