APPENDIX D

COMPACTNESS ENVIRONMENTAL IMPLICATIONS: DISTRICT RETROFITTING

Measurement of Porosity and Permeability Key Categories and a set of 25 performance indicators for the case study area of Porto di Mare at the intermediate (NIL 35 Lodi – Corvetto) and local (ATU 15) scale. Both scales are presented with one sheet on the model of those used in Appendix C for each of the three transformation scenarios: State of the art (SOA), Eco-District project (SMDP) and Alternative transformation scenario (AD2Y).

NIL 35 Lodi – Corvetto:
- State of the art
- Eco-District (SMDP)
- Alternative transformation scenario (AD2Y)

ATU 15:
- State of the art
- Eco-District (SMDP)
- Alternative transformation scenario (AD2Y)

POROSITY

BCR_G	0.17
FAR_N	0.2
BBVR	0.8
BSR	0.44
BFR10	0.53
CTBR	0.09

PERMEABILITY

SA	0.22
BLBP	0.49
BLmbgA	0.68
BLmbgO	0.49
BLmbgC	0.59
VBLPR	0.84

INDICATORS

	value	rank	benchmark	
1|1 VD	2.42	45	-3	%
1|2 BD	417	43	1	%
1|3 PD	8926	34	31	%
2|5 SCR	0.18	46	6	%
2|9 BLD	0.24	38	-99	%
3|11 PAcR	13.65	33	91	%
3|13 JHR	0.27	64	-54	%
4|17 LUsh	0.89	3	-11	%
5|26 GCRt	0.35	35	-8	%
5|28 GCRu	0.14	52	-18	%
5|29 TD	2960	19	32	%
6a|31 BikeD	433	54	-43	%
6a|31b BikeAl	63	47	-18	%
6b|41 ND	104	48	6	%
6b|45 AxBLP	1.88	59	-21	%
6b|46 GFAc	0.49	41	-8	%
7|50 PTA	0.93	65	-21	%
7|51 LIPR	1.32	67	-24	%
7|41b NDER	0.15	45	0	%
8|67 Modesh	0.67	33	-33	%
8|67b MMsh	0.2	30	-80	%
8|67c StopD	15.7	58	-13	%
8|67d LineD	5.5	73	-59	%
10|78 GCRa	0.22	22	5	%
12|86b WAR	0	40	-100	%

35 - LODI - CORVETTO - PORTO DI MARE ECODISTRICT (SMDP) #19
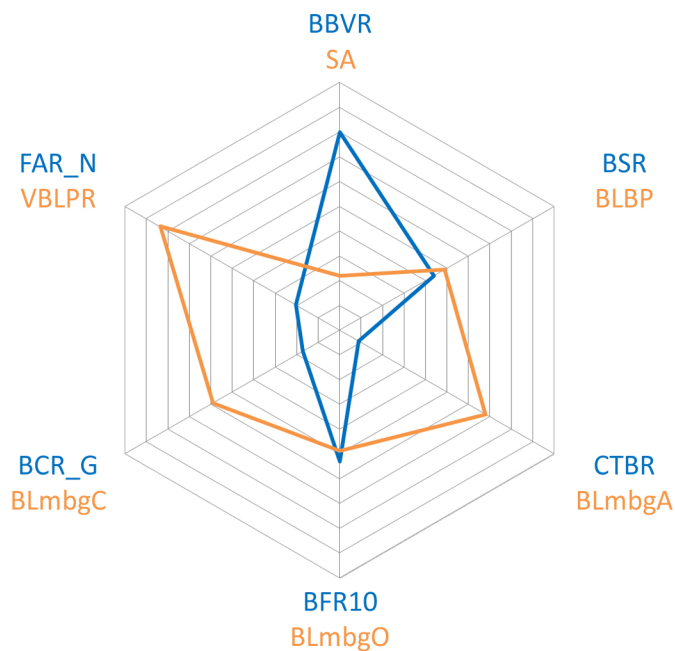
POROSITY

BCR_G	0.21
FAR_N	0.31
BBVR	1.00
BSR	0.40
BFR10	0.55
CTBR	0.09

PERMEABILITY

SA	0.23
BLBP	0.57
BLmbgA	0.76
BLmbgO	0.52
BLmbgC	0.59
VBLPR	0.93

INDICATORS

	old value	new value	variation	
1|1 VD	2.42	4.19	73	%
1|2 BD	417	401	-4	%
1|3 PD	8926	9405	5	%
2|5 SCR	0.18	0.24	33	%
2|9 BLD	0.24	0.32	33	%
3|11 PAcR	13.65	12.7	-7	%
3|13 JHR	0.27	0.29	7	%
4|17 LUsh	0.89	0.94	6	%
5|26 GCRt	0.35	0.32	-9	%
5|28 GCRu	0.14	0.22	57	%
5|29 TD	2960	3176	7	%
6a|31 BikeD	433	2381	450	%
6a|31b BikeAl	63	521	727	%
6b|41 ND	104	113	9	%
6b|45 AxBLP	1.88	1.86	-1	%
6b|46 GFAc	0.49	0.58	18	%
7|50 PTA	0.93	1.26	35	%
7|51 LlPR	1.32	1.7	29	%
7|41b NDER	0.15	0.13	-13	%
8|67 Modesh	0.67	0.88	31	%
8|67b MMsh	0.2	0.2	0	%
8|67c StopD	15.7	17.03	9	%
8|67d LineD	5.5	5.5	0	%
10|78 GCRa	0.22	0.1	-55	%
12|86b WAR	0	0.08	800	%

0	200	400	600	800 m
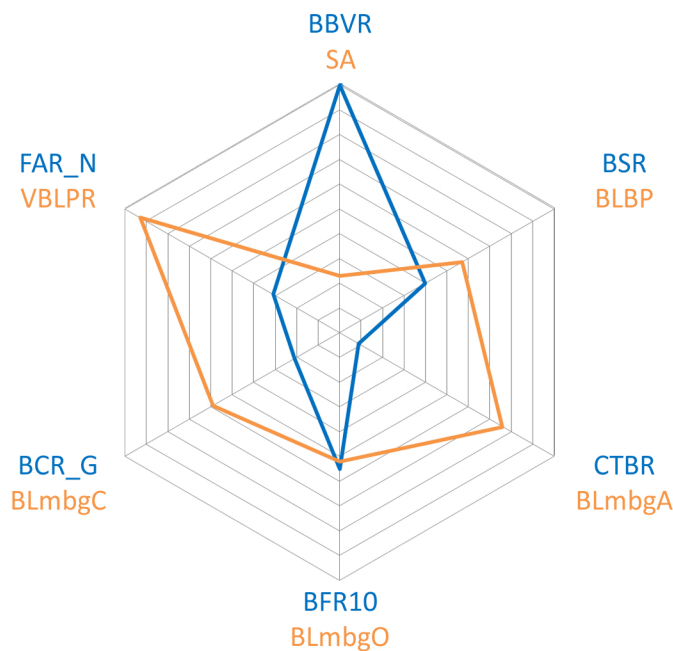
POROSITY

BCR_G	0.16
FAR_N	0.28
BBVR	0.93
BSR	0.36
BFR10	0.52
CTBR	0.10

PERMEABILITY

SA	0.22
BLBP	0.53
BLmbgA	0.70
BLmbgO	0.49
BLmbgC	0.60
VBLPR	0.93

INDICATORS

	old value	new value	variation	
1|1 VD	2.42	3.77	56	%
1|2 BD	417	419	1	%
1|3 PD	8926	9332	5	%
2|5 SCR	0.18	0.22	22	%
2|9 BLD	0.24	0.27	13	%
3|11 PAcR	13.65	12.85	-6	%
3|13 JHR	0.27	0.28	4	%
4|17 LUsh	0.89	0.94	6	%
5|26 GCRt	0.35	0.41	17	%
5|28 GCRu	0.14	0.16	14	%
5|29 TD	2960	3158	7	%
6a|31 BikeD	433	1948	350	%
6a|31b BikeAl	63	485	670	%
6b|41 ND	104	107	3	%
6b|45 AxBLP	1.88	2.15	14	%
6b|46 GFAc	0.49	0.59	20	%
7|50 PTA	0.93	0.93	0	%
7|51 LIPR	1.32	1.3	-2	%
7|41b NDER	0.15	0.13	-13	%
8|67 Modesh	0.67	0.67	0	%
8|67b MMsh	0.2	0.2	0	%
8|67c StopD	15.7	15.94	2	%
8|67d LineD	5.5	5.5	0	%
10|78 GCRa	0.22	0.25	14	%
12|86b WAR	0	0	0	%
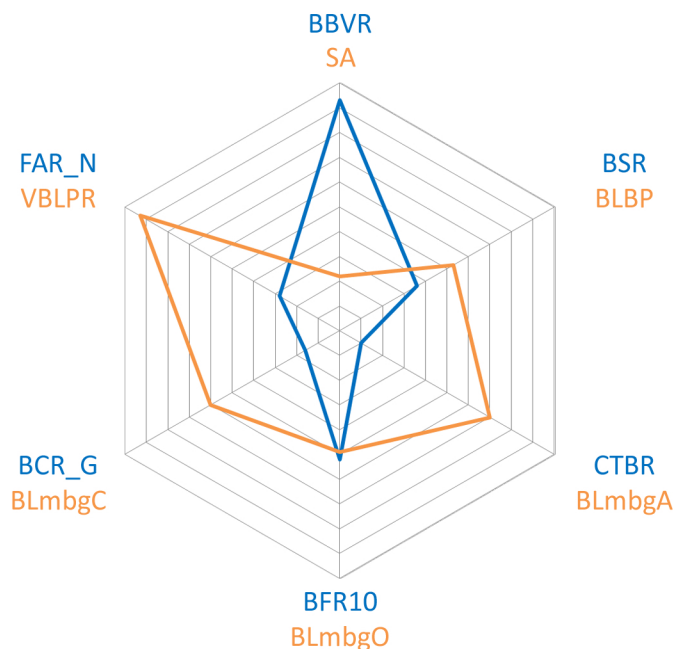
PORTO DI MARE - STATE OF THE ART

0	200	400	600	800 m

POROSITY

BCR_G	0.11
FAR_N	0.02
BBVR	0.93
BSR	0.20
BFR10	0.49
CTBR	0.01

PERMEABILITY

SA	0.15
BLBP	0.14
BLmbgA	0.41
BLmbgO	0.55
BLmbgC	0.62
VBLPR	0.29

INDICATORS

	value
1|1 VD	0.52
1|2 BD	3.97
1|3 PD	133
1|8 PVpot	819
2|5 SCR	0.13
2|9 BLD	0.03
3|11 PAcR	4.54
3|13 JHR	1.6
4|17 LUsh	0.11
5|26 GCRt	0.20
5|28 GCRu	0.02
5|29 TD	3566
6a|31 BikeD	1897
6a|31b BikeAl	713
6b|41 ND	0.76
6b|45 AxBLP	1
6b|46 GFAc	0.07
7|50 PTA	0.97
7|51 LlPR	2.52
7|41b NDER	0.28
8|67 Modesh	0.22
8|67c StopD	0.8
8|67d LineD	0.53
10|78 GCRa	0.18
12|86b WAR	0
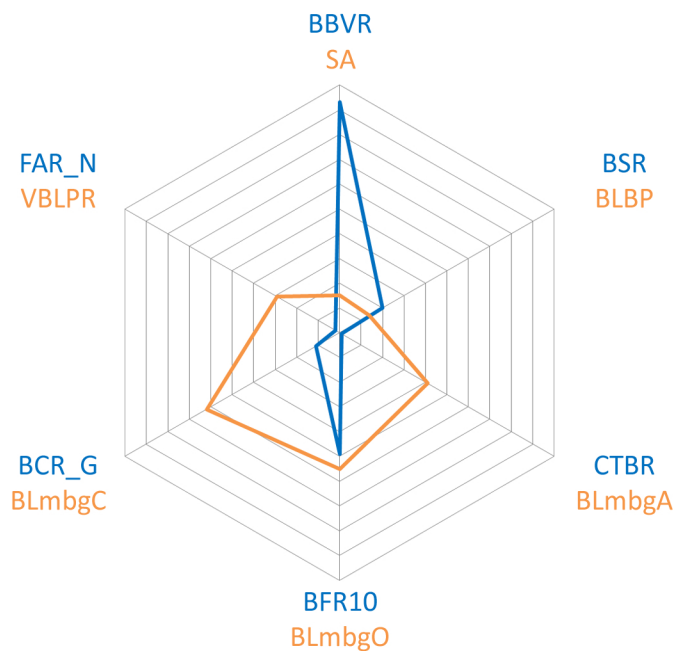
PORTO DI MARE - ECO-DISTRICT (SMDP)

POROSITY

BCR_G	0.15
FAR_N	0.26
BBVR	0.98
BSR	0.40
BFR10	0.73
CTBR	0.00

PERMEABILITY

SA	0.26
BLBP	0.67
BLmbgA	0.73
BLmbgO	0.53
BLmbgC	0.57
VBLPR	1.00

INDICATORS

	old value	new value	variation	
1|1 VD	0.52	2.29	34	%
1|2 BD	3.97	2.74	-3	%
1|3 PD	133	4772.	349	%
2|5 SCR	819	00	3	%
2|9 BLD	0.13	1060.	7	%
3|11 PAcR	0.03	00	310	%
3|13 JHR	4.54	0.22	23	%
4|17 LUsh	1.6	0.96	-8	%
5|26 GCRt	0.11	14.90	40	%
5|28 GCRu	0.20	0.33	2	%
5|29 TD	0.02	0.55	90	%
6a|31 BikeD	3566	0.24	6	%
6a|31b BikeAl	1897	0.20	6	%
6b|41 ND	713	5664.	2	%
6b|45 AxBLP	0.76	00	12	%
6b|46 GFAc	1	3124.	4	%
7|50 PTA	0.07	00	86	%
7|51 LlPR	0.97	825.0	0	%
7|41b NDER	2.52	0	4	%
8|67 Modesh	0.28	1.64	-7	%
8|67b MMsh	0.22	1.35	15	%
8|67c StopD	0.8	0.67	17	%
8|67d LineD	0.53	1.00	5	%
10|78 GCRa	0.18	3.62	-8	%
12|86b WAR	0	0.08	40	%
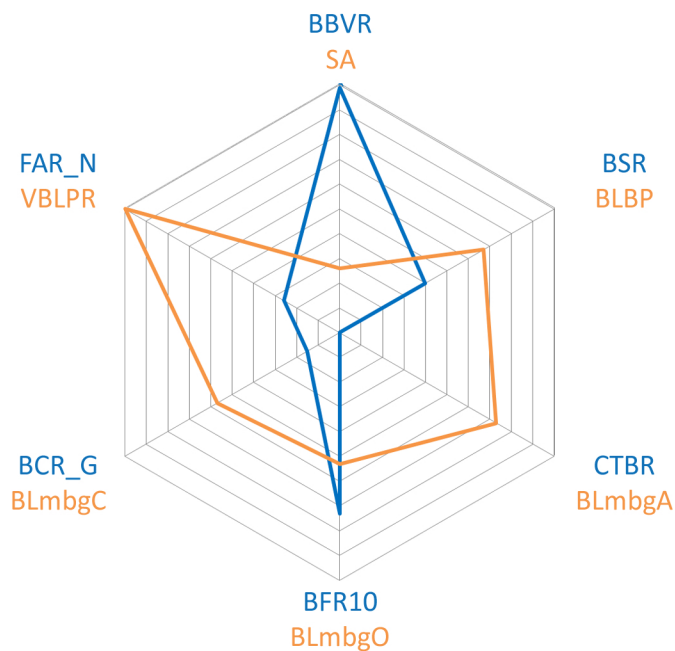
PORTO DI MARE - ALTERNATIVE TRANSFORMATION (AD2Y)

Scale: 0 — 200 — 400 — 600 — 800 m

POROSITY

BCR_G	0.10
FAR_N	0.12
BBVR	0.93
BSR	0.36
BFR10	0.38
CTBR	0.09

PERMEABILITY

SA	0.18
BLBP	0.44
BLmbgA	0.44
BLmbgO	0.49
BLmbgC	0.68
VBLPR	0.98

INDICATORS

	old value	new value	variation	
1|1 VD	0.52	1.87	26	%
1|2 BD	3.97	4.26	1	%
1|3 PD	133	4067.	296	%
1|8 PVpot	819	00	2	%
2|5 SCR	0.13	979.0	2	%
2|9 BLD	0.03	0	133	%
3|11 PAcR	4.54	0.16	31	%
3|13 JHR	1.6	0.43	-8	%
4|17 LUsh	0.11	18.61	30	%
5|26 GCRt	0.20	0.29	13	%
5|28 GCRu	0.02	0.44	50	%
5|29 TD	3566	0.46	5	%
6a|31 BikeD	1897	0.12	3	%
6a|31b BikeAl	713	5485.	-1	%
6b|41 ND	0.76	00	2	%
6b|45 AxBLP	1	2453.	15	%
6b|46 GFAc	0.07	00	60	%
7|50 PTA	0.97	651.0	0	%
7|51 LlPR	2.52	0	0	%
7|41b NDER	0.28	0.88	-9	%
8|67 Modesh	0.22	2.47	10	%
8|67c StopD	0.8	0.49	3	%
8|67d LineD	0.53	0.96	0	%
10|78 GCRa	0.18	2.40	9	%
12|86b WAR	0	0.03	0	%

Radar chart axes:
- BBVR / SA
- BSR / BLBP
- CTBR / BLmbgA
- BFR10 / BLmbgO
- BCR_G / BLmbgC
- FAR_N / VBLPR