

Supplementary Table 2. The new coding variable classification process on European Service Mapping Schedule-Revised (ESMS-R) mapping tree.

N= 89 Main type of care (MTC)	1= Local, without gatekeeping	2= Local with gatekeeping	3= Centralized, without gatekeeping	4= Centralized, with gatekeeping	Individual classification (n/6) round 1. Agreement with proposal	Consensus (round 1)	Consensus and final decisions after individual classification (round 2), 4 MTC (on red) re-classification and Category 4 re-coding to 3 (Centralized)
Information (I) (N=9)							
I1.1	6				6/6	1	1
I1.2		6			6/6	2	2
I1.3	6				6/6	1	1
I1.4		6			6/6	2	2
I1.5	6				6/6	1	1
I2.1	6				6/6	1	1
I2.1.1	6				6/6	1	1
I2.1.2	6				6/6	1	1
I2.2	6				6/6	1	1
Accessibility to care (A) (N=5)							
A1	6				6/6	1	1
A2		6			6/6	2	2
A3		5			5/5	2	2
A4	6				6/6	1	1
A5	6				6/6	1	1
Self-Help and voluntary care (S) (N=10)							
S1.1	6				6/6	1	1
S1.2	6				6/6	1	1
S1.3	6				6/6	1	1
S1.4	6				6/6	1	1
S1.5				6	6/6	4	3
S2.1	6				6/6	1	1
S2.2		6			6/6	2	2
S2.3	6				6/6	1	1
S2.4	5				5/5	1	1
S2.5				6	6/6	4	3
Outpatient care (O) (N=24)							
O1.1	2	3		1		2	2
O1.2	2	2	2			1	1
O2.1		6				2	2
O2.2	1	4		1		2	2
O3.1	1	1	4			3	3 (3/6)
O3.2	1	1	1	2		3	3 (3/6)
O4.1		6				3	2 (6/6)
O4.2	1	1	4			3	2 (6/6)
O5.1.1		5		1		2	2
O5.1.2	1	4		1		2	2
O5.1.3		2		3		2	2
O5.2.1		5		1		2	2
O5.2.2	1	4		1		2	2
O5.2.3		2		4		2	2
O6.1		6				2	2
O6.2	1	4		1		2	2
O7.1	1	4		1		2	2
O7.2	1	3		2		2	2
O8.1	1	4		2		2	2
O8.2		2	1	2		2	2
O9.1	3	4		1		2	2
O9.2	2	3		2		2	2
O10.1	4	1		2		1	1
O10.2	1	2	2	1		1	1
Day care (D) (22)							
D0.1		2	1	3		4	3
D0.2			3	3		4	3
D1.1		2	2	4		4	3
D1.2		2		4		4	3
D2.1		2	1	2		2	2
D2.2		2	1	3		4	3
D6.1		4	1	1		2	2
D6.2		3	2	1		4	3
D3.1		3	1	2		4	3
D3.2	1	3	1	1		4	3
D7.1		3	2	2		4	3
D7.2		2	2	1		4	3
D4.1		5		1		2	2
D4.2		1	2	3		4	3
D4.3	1	3	1	1		2	2
D4.4	3	2	1			1	1
D8.1		4		2		2	2
D8.2		1	1	4		4	3
D8.3	4		1	1		2	2
D8.4	4		1	1		1	1
D5		5	1			1	1
D9		4	1	1		1	1
Residential services R (N=19) MTC types on additional figure 1.					6/6	4	3 (N=19)
All residential services were classified to the category 4, after round 2, to the category 3., MTC codes on additional figure 1.m residential services							

Statistical test not done related to the individual classifications guiding role and small numbers of classifications. There were 14 MTC:s under half (<3/6) agreement.

Table 1. Specialists participating in to the Delphi-panel

<i>Work position (At the time)</i>	<i>Academic credentials</i>
Director of nursing (TA-N)	MNSc, PhD-student (chair of panel)
Research Professor (KW)	Associate professor, PhD, Specialist in Psychiatry
Psychiatrist (MS)	Specialist in Psychiatry
Medicine director (GJ)	Associate professor, PhD, Specialist in Psychiatry
Chief Medical Officer (SS)	Associate professor, PhD, Specialist in Psychiatry
Development chief (PN)	Master of psychologists, PhD-student
Project chief (RK)	PhD
Psychiatric nurse, Project coordinator (MV)	MNSc
Psychiatric nurse, Project coordinator (VM)	RN
Administrative head nurse, Project coordinator (OO)	PhD
Psychiatric nurse, Project coordinator (SG)	RN

Supplementary Table 3. Recoded Different main type of cares by main main branches and found frequency of units (BSICs) after first consensus classification round (Quadrangle classification)

	1 = local without gatekeeping	2 = local with gatekeeping	3 = centralized without gatekeeping	4 = centralized with gatekeeping	Total main type of care
Main type of care (MTC N = 89)					
Information for care	7	2			9
Accessibility to care	3	2			5
Self-Help and voluntary care	7	1		2	10
Outpatient care	3	17	4		24
Day care	4	6		12	22
Residential care				19	19
Total (MTC N = 89)	24	28	4	33	89
Percent of recoded MTC	27.0	31.5	4.5	37.1	100
Frequency (BSIC N = 987)	360	189	34	396	979
Percent of found BSICs	37 %	19 %	3 %	40 %	100

BSIC = Basic Stable Input of Care; i.e. the organizational units that provide the services. Missing 8 BSIC.

Different MTC (main type of care) in ESMS-R (European Service Mapping Schedule-Revised) branches (N = 9)

Supplementary Table 4. The classification of found service units (BSIC) on local versus centralized categories per 1000 adults (18+)

Catchment Area	Population (18+)	Local without gatekeeping BSICs	Local without gatekeeping BSICs per 1000	Local with gatekeeping BSICs	Local with gatekeeping BSICs per 1000	Centralized BSICs	Centralized BSICs per 1000	Total number of BSICs	Total number of BSICs per 1000
Länsi-Uusimaa (1)	35 296	10.00	0.28	3.00	0.08	8.00	0.23	21.00	0.59
Lohja (2)	70 379	15.00	0.21	9.00	0.13	16.00	0.23	40.00	0.57
Hyvinkää (3)	139 734	37.00	0.26	11.00	0.08	41.00	0.29	89.00	0.64
Porvoo (4)	74 611	19.00	0.25	3.00	0.04	21.00	0.28	43.00	0.58
Helsinki (5)	501 928	49.00	0.10	57.00	0.11	90.00	0.18	196.00	0.39
Jorvi (6)	230 005	25.00	0.11	16.00	0.07	31.00	0.13	72.00	0.31
Peijas (7)	187 332	30.00	0.16	19.00	0.10	36.00	0.19	85.00	0.45
Carea (8)	143 210	28.00	0.20	37.00	0.26	50.00	0.35	115.00	0.80
Eksote (9)	107 612	28.00	0.26	14.00	0.13	26.00	0.24	68.00	0.63
Turku (10)	151 616	42.00	0.28	16.00	0.11	34.00	0.22	92.00	0.61
Salon seutu (11)	128 039	54.00	0.42	19.00	0.15	29.00	0.23	102.00	0.80
Vakka-Suomi (12)	81 391	21.00	0.26	9.00	0.11	18.00	0.22	48.00	0.59
Turunmaa (13)	18 199	9.00	0.49	0.00	0.00	4.00	0.22	13.00	0.71
Total	1 869 352	367.00	0.20	213.00	0.11	404.00	0.22	984.00	0.00
Mean	143 796	28.23	0.25	16.38	0.10	31.08	0.23	75.92	0.59

Supplementary Table 5. Socioeconomic indicators from catchment areas

Catchment area	Population (+18 year)	Mental health index (not age adjusted)*	Education index**	Un-employment %
Länsi-Uusimaa (1)	35 296	92.3	3.0	7.2
Lohja (2)	70 379	94.0	3.2	7.1
Hyvinkää (3)	139 734	92.9	3.5	6.0
Porvoo (4)	74 611	89.0	3.3	7.1
Helsinki (5)	501 928	90.0	4.1	7.5
Jorvi (6)	230 005	77.2	4.6	5.5
Peijas (7)	187 332	89.6	3.4	8.0
Carea (8)	143 210	106.2	3.0	12.2
Eksote (9)	107 612	102.7	3.0	11.8
Turku (10)	151 616	109.7	3.7	12.9
Salo (11)	128 039	101.0	3.2	8.8
Vakka-Suomi (12)	81 391	102.9	3.2	7.1
Turunmaa (13)	18 199	101.3	3.2	6.0
Mean	143 796 (median 128 000)	96.1	3.4	8.2
SD	122 760	8.9	0.5	2.5

Data Statistics Finland^R THL (National Institute for Health and Welfare), SOTKANet Statistics and Indicator Bank.

Areas 1-9 data from 2011 and Areas 10-13 from 2012.

* Mental health index (MHI) is calculated for each area using three years data on the suicides and suicides attempts, of persons eligible for special reimbursement for antipsychotic medication, and of persons on disability pension (18-64 years) due to mental disorders (<https://www.sotkanet.fi>)

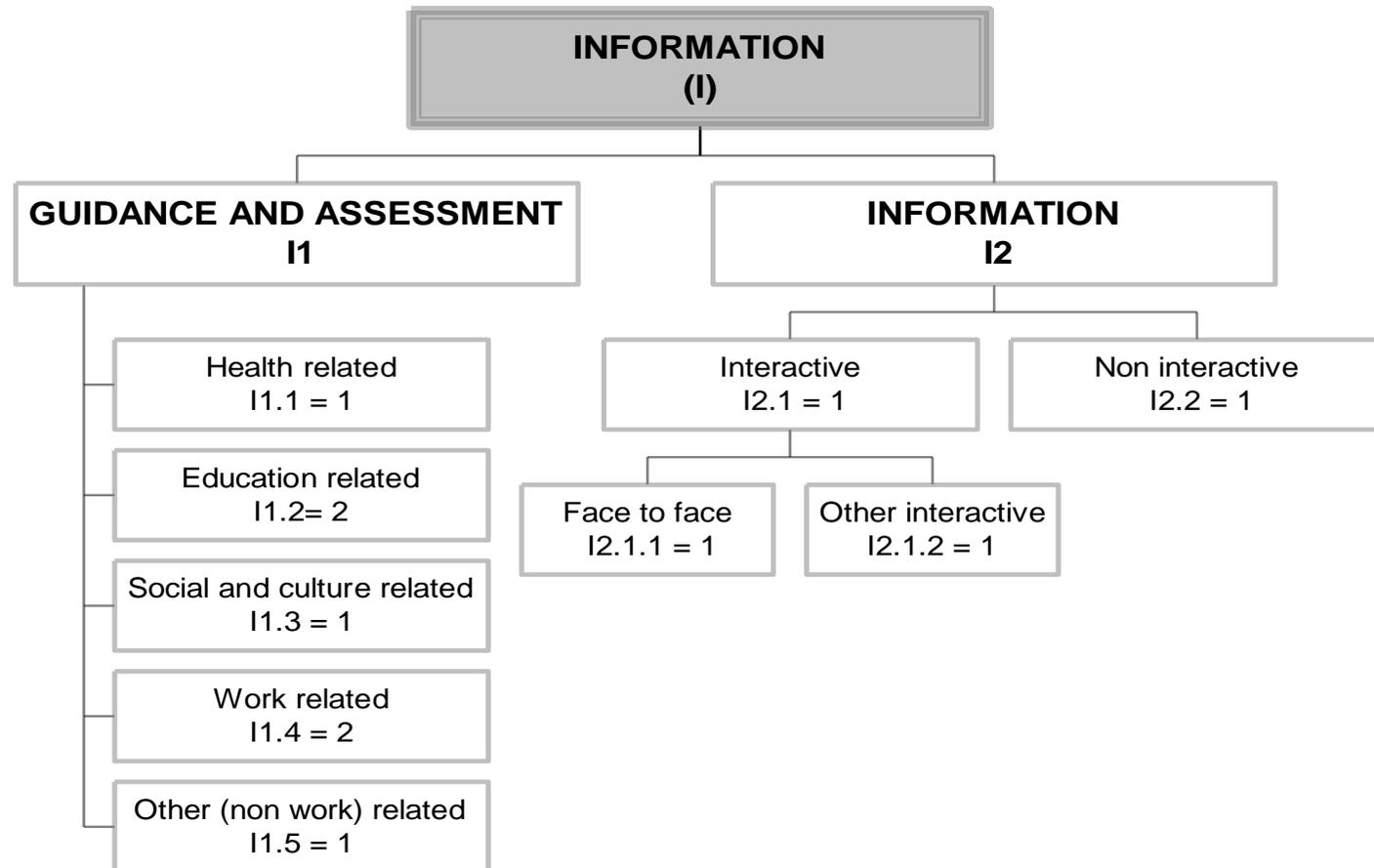
** Education years after primary school e.g. high school, professional school and university

Supplementary Table 6. Linear regression modeling with total personnel per 1000 adults as the dependent variable

Independent variables	Model 1	Model 2	Model 3	Model 4
% of total personnel in centralized services	0.9 (2.9)	1.1 (2.4)	1.6 (3.1)	2.3 (2.4)
Catchment area size		1.3 E-06 (.000)		1.9 E-06 (.000)
Mental Health Index			0.18 (0.007)*	0.02 (0.007)*

* p < 0.05, ** p < 0.01

Supplementary figure 1. ESMS- R (DESDE) mapping tree (Salvador-Carulla et al. 2013, Salvador-Carulla et al. 2015) **including new coding variable.** Code 1 = local without gatekeeping MTC service, 2 = local with gatekeeping MTC service, 3 = centralized gatekeeping MTC service by referral or distance gatekeeping.



**ACCESSIBILITY TO CARE
(A)**

Communication
A1 = 1

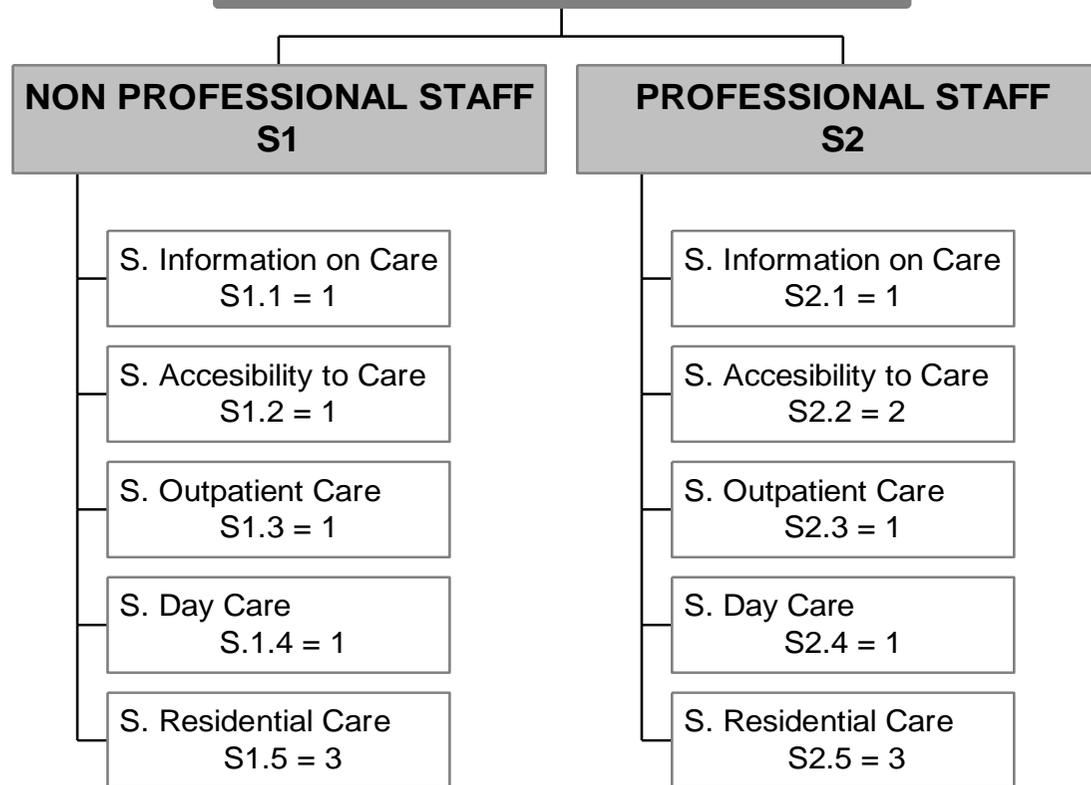
Physical mobility
A2 = 2

Personal accompaniment
A3 = 2

Case coordination
A4 = 1

Other accessibility care
A5 = 1

SELF-HELP AND VOLUNTEER CARE



OUTPATIENT CARE

ACUTE

**NON ACUTE
(Continuing Care)**

HOME & MOBILE

NON MOBILE

HOME & MOBILE

NON MOBILE

**OTHER NON-ACUTE
O11**

**24 HOURS
O1**

**24 HOURS
O3**

**24 HOURS
O5**

**MEDIUM INTENSITY
O6**

**LOW INTENSITY
O7**

**HIGH INTENSITY
O8**

**MEDIUM INTENSITY
O9**

**LOW INTENSITY
O10**

Health related care
O1.1 = 2
Other care
O1.2 = 1

Health related care
O2.1 = 2
Other care
O2.2 = 2

Health related care
O3.1 = 3
Other care
O3.2 = 3

Health related care
O4.1 = 2
Other care
O4.2 = 2

Health related care
O5.1 = 2
3/6 days/week
O5.1.1 = 2
7 days/week
O5.1.2 = 2
7 d/w incl overnight
O5.1.3 = 2
Other care
O5.2

3/6 days/week
O5.2.1 = 2

7 days/week
O5.2.2 = 2

7 d/w incl overnight
O5.2.3 = 2

Health related care
O6.1 = 2
Other care
O6.2 = 2

Health related care
O7.1 = 2
Other care
O7.2 = 2

Health related care
O8.1 = 2
Other care
O8.2 = 2

Health related care
O9.1 = 2
Other care
O9.2 = 2

Health rel care
O10.1 = 1
Other care
O10.2 = 1

DAY CARE

