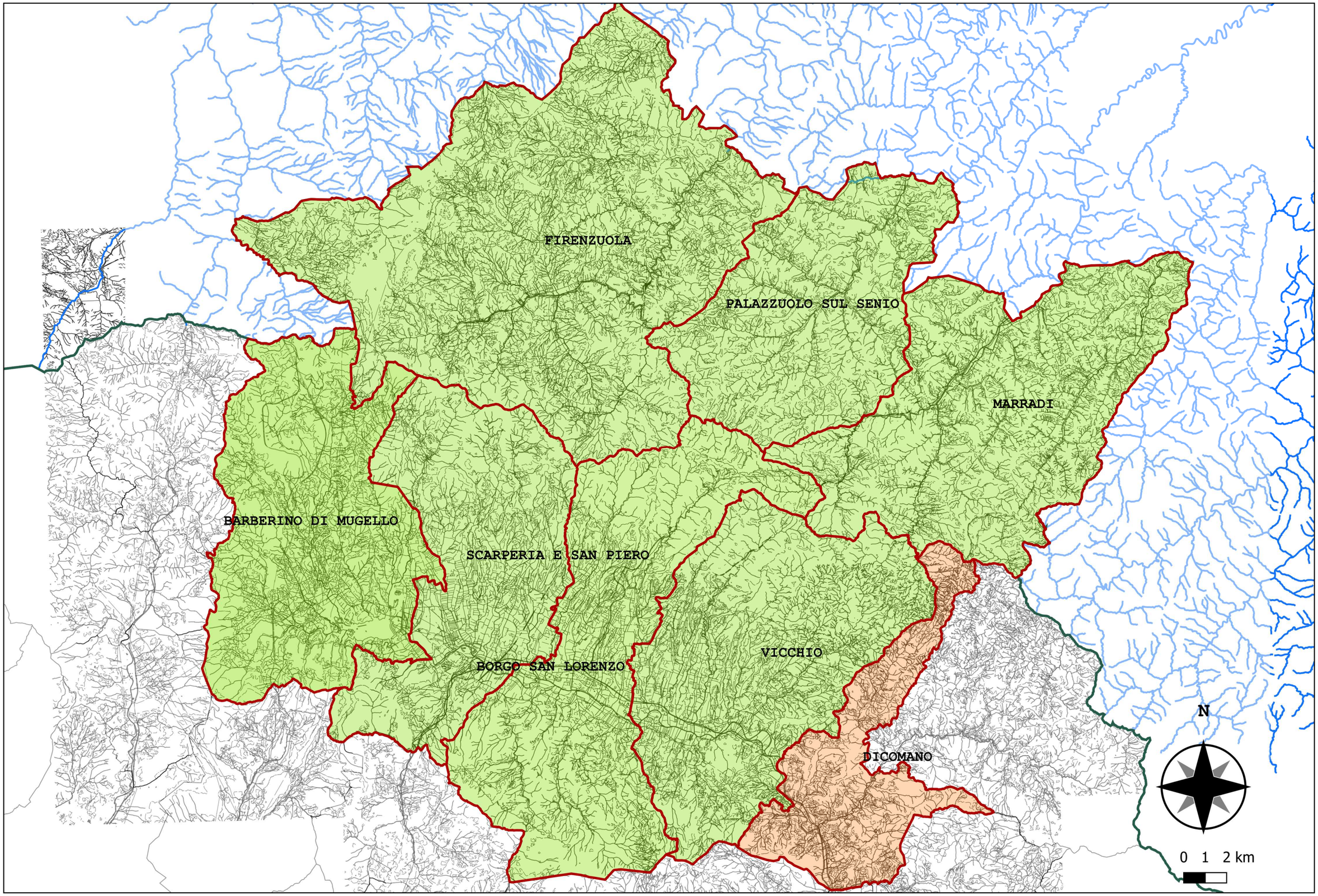

UNIONE DEI COMUNI MONTANI DEL MUGELLO

COMUNE DI DICOMANO

S2R S.r.l.
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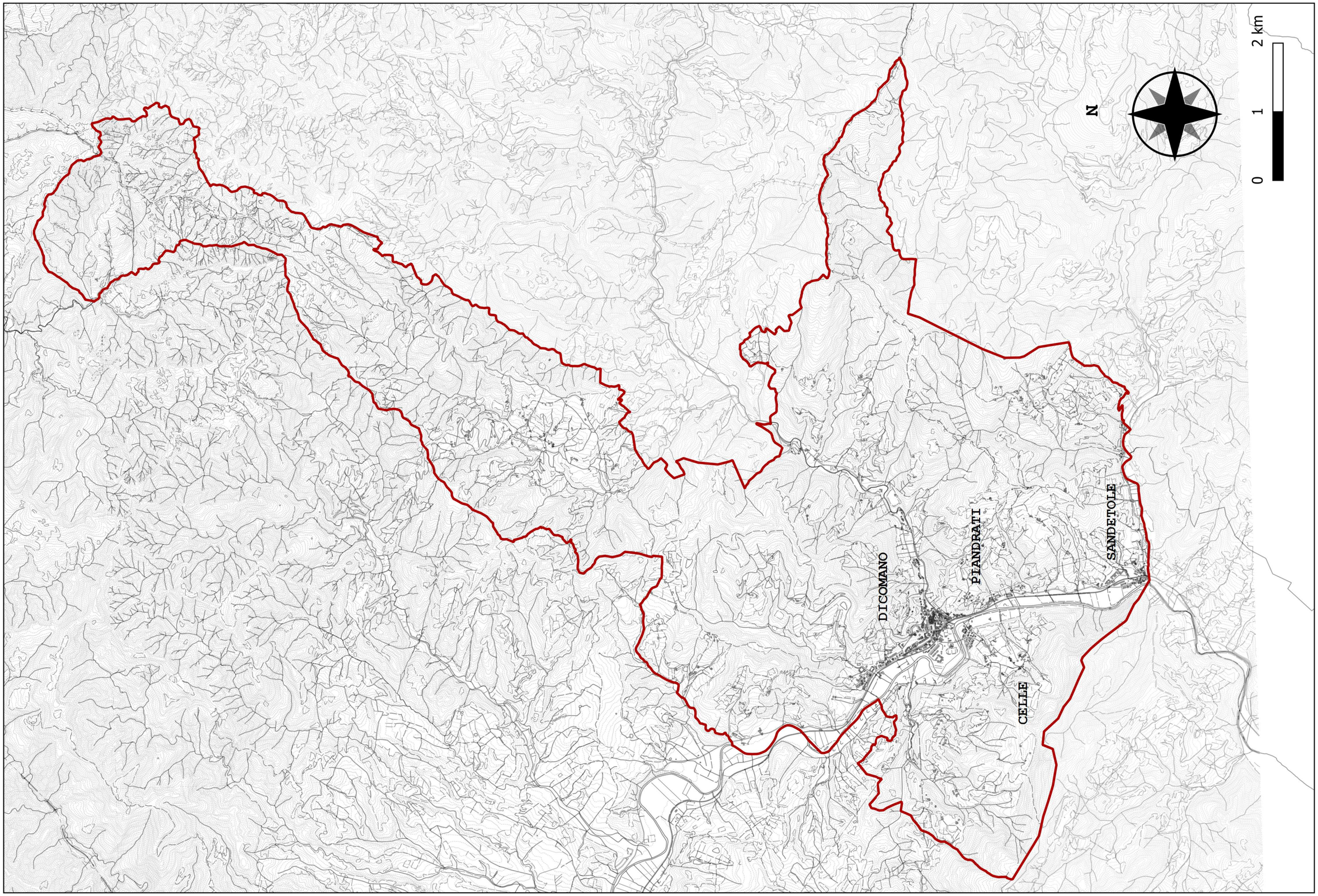
Via Vittorio Emauele II, n. 161
50134 Firenze

OGGETTO
ANALISI DEL RISCHIO SISMICO A SCALA TERRITORIALE

ELABORATO
Inquadramento territoriale

01

DATA:
febbraio 2019



UNIONE DEI COMUNI MONTANI DEL MUGELLO

COMUNE DI DICOMANO

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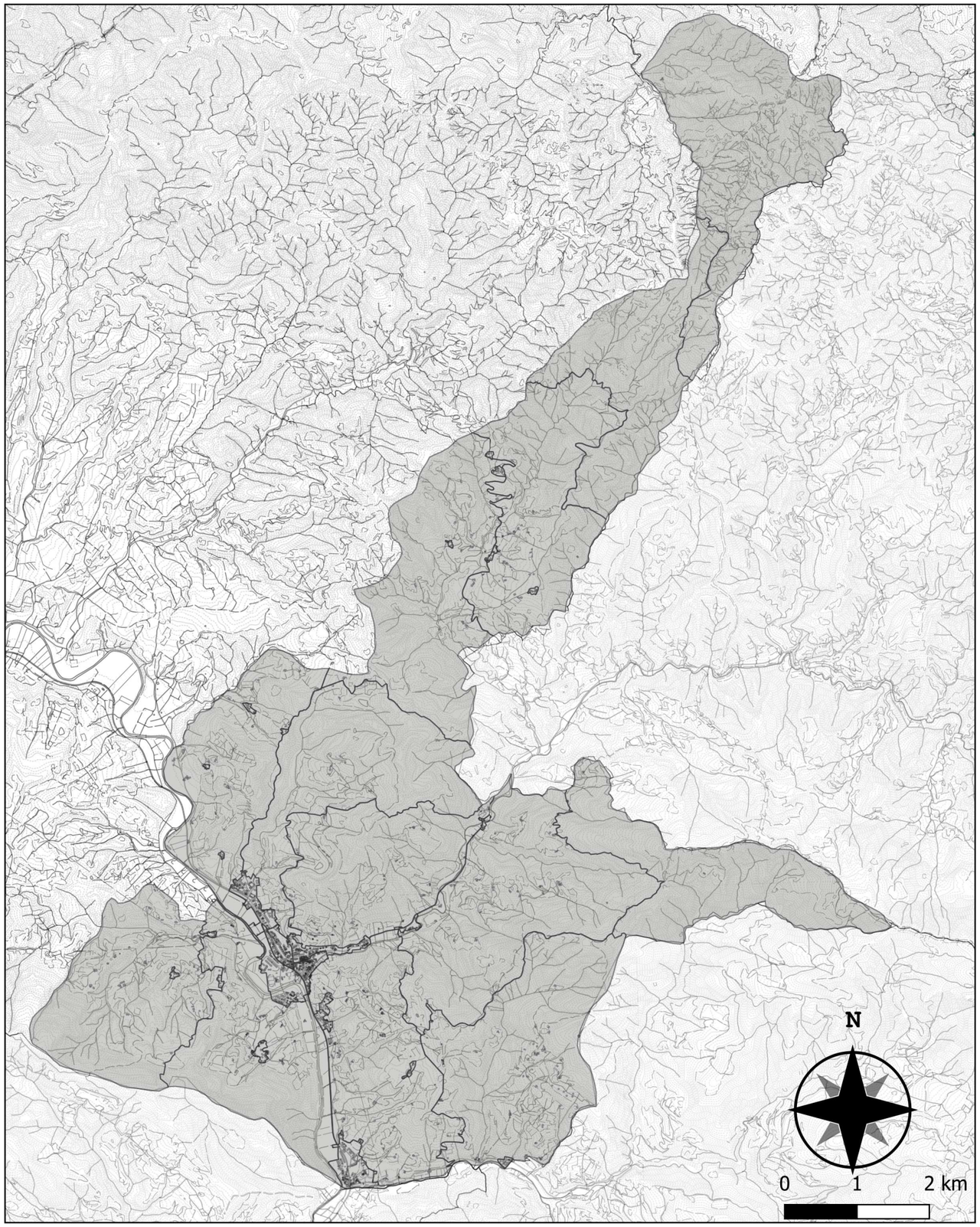
50134 Firenze

OGGETTO
ANALISI DEL RISCHIO SISMICO A SCALA TERRITORIALE

ELABORATO
Inquadramento comunale

02

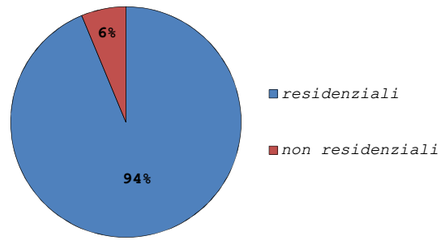
DATA:
febbraio 2019



Città metropolitana	*Firenze*
Regione	*Toscana*
Popolazione	*5 565* *(Fonte Dato Istat - 30-6-2017)*
Superficie	*61.63 km^2* *(Fonte Dato Istat - La superficie dei comuni, delle province e delle regioni italiane al Censimento 2011)*
Codice Istat	*48 013*
N° sezioni censuarie	*39*

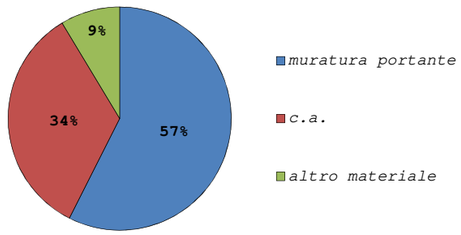
Edifici utilizzati

Descrizione	Numero
residenziali	*973*
non residenziali	*65*
tot.	*1 038*



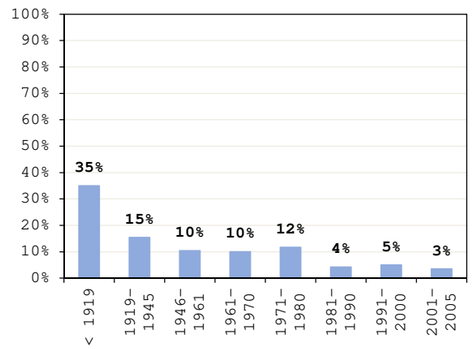
Edifici residenziali

Descrizione	Numero
muratura portante	*559*
c.a.	*330*
altro materiale	*84*
tot.	*973*



Periodo Edifici residenziali

Periodo edificazione	Numero
< 1919	*340*
1919-1945	*150*
1946-1961	*101*
1961-1970	*97*
1971-1980	*113*
1981-1990	*41*
1991-2000	*48*
2001-2005	*34*
>2005	*49*
tot.	*973*



UNIONE DEI COMUNI MONTANI DEL MUGELLO

COMUNITA' MONTANA MUGELLO

COMUNE DI DICOMANO

S2R S.r.l.
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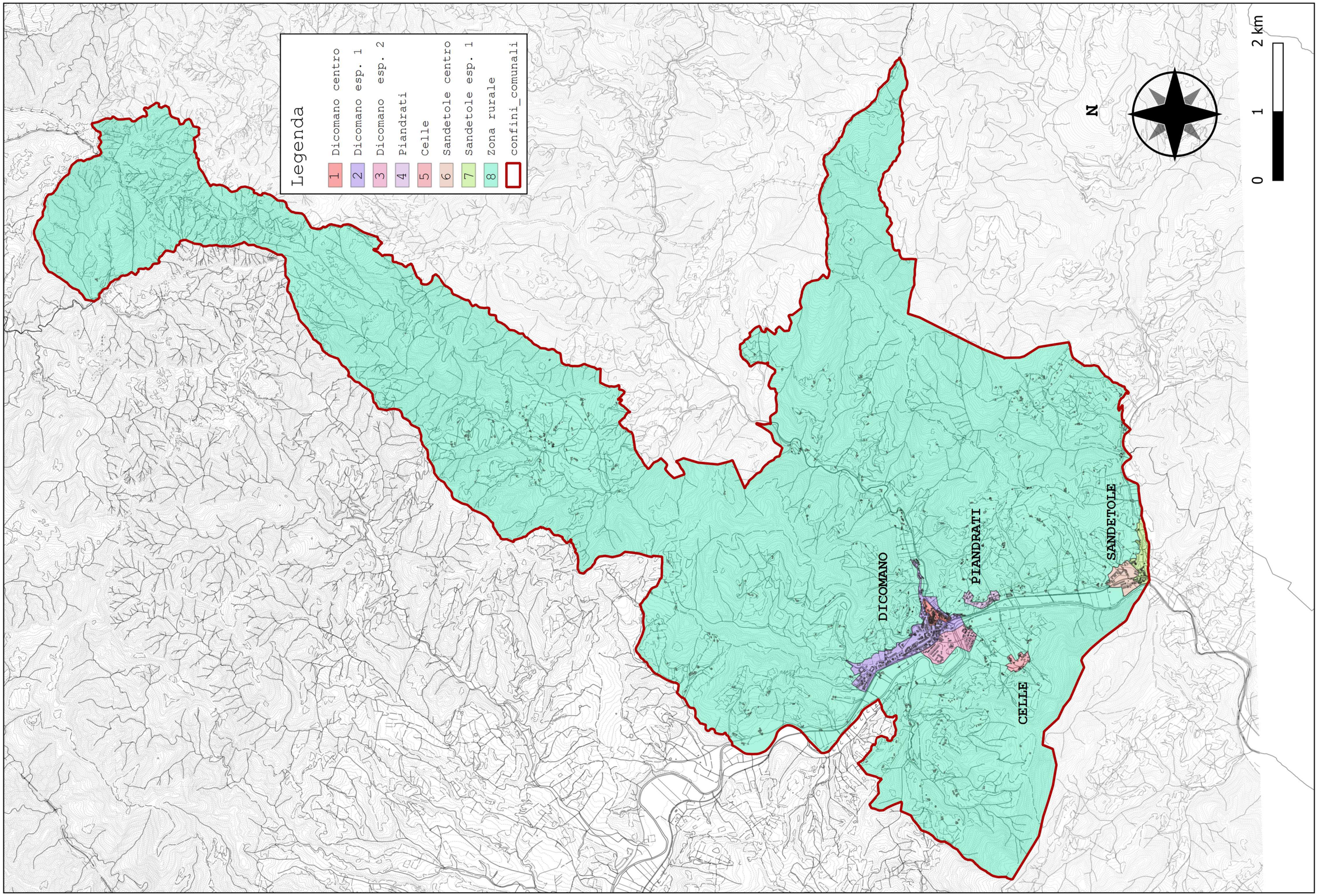
50134 Firenze

OGGETTO
ANALISI DEL RISCHIO SISMICO A SCALA TERRITORIALE

ELABORATO
Analisi dati Istat

03

DATA: febbraio 2019



UNIONE DEI COMUNI MONTANI DEL MUGELLO

COMUNE DI DICOMANO

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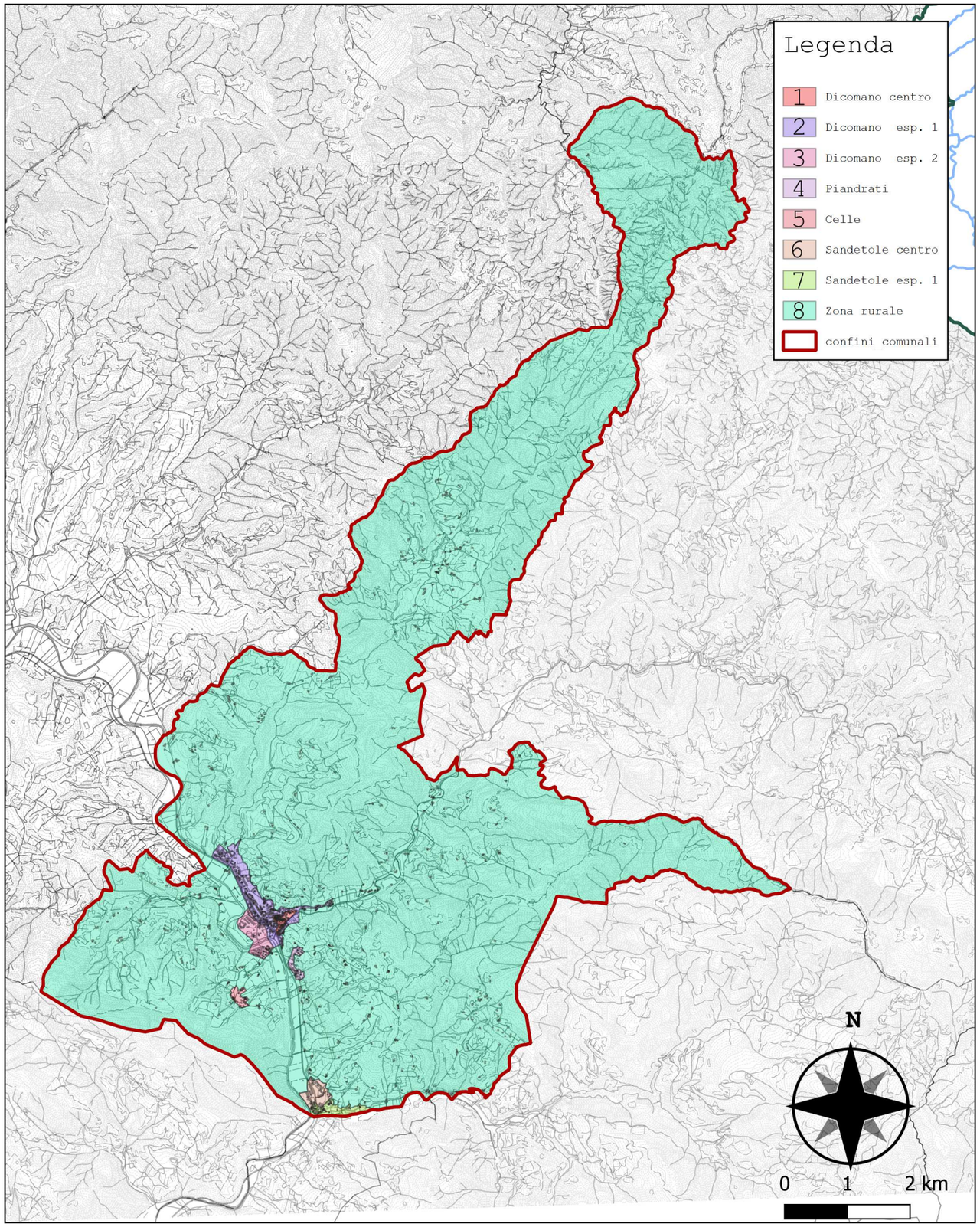
OGGETTO
ANALISI DEL RISCHIO SISMICO A SCALA TERRITORIALE

ELABORATO
Individuazione dei comparti

04

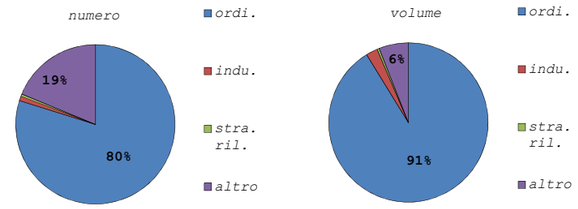
DATA: febbraio 2019



n° Comparti	8
n° Tipologie costruttive	14

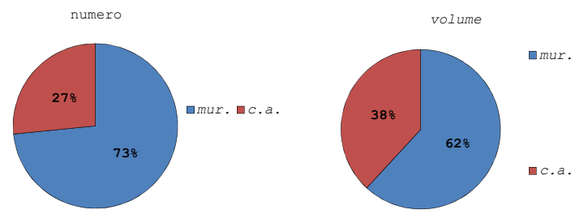
Destinazione d'uso

Descrizione	Numero	Vol. [m³]
ordinario	1 601	**1 621 217**
industriale	19	**41 826**
strat. Ril	9	**7 890**
altro	377	**106 495**
tot.	2 006	**1 778 326**



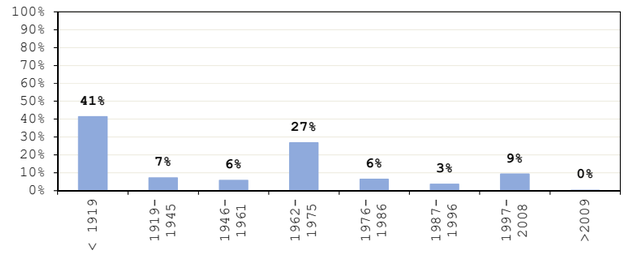
Tipologia materiale

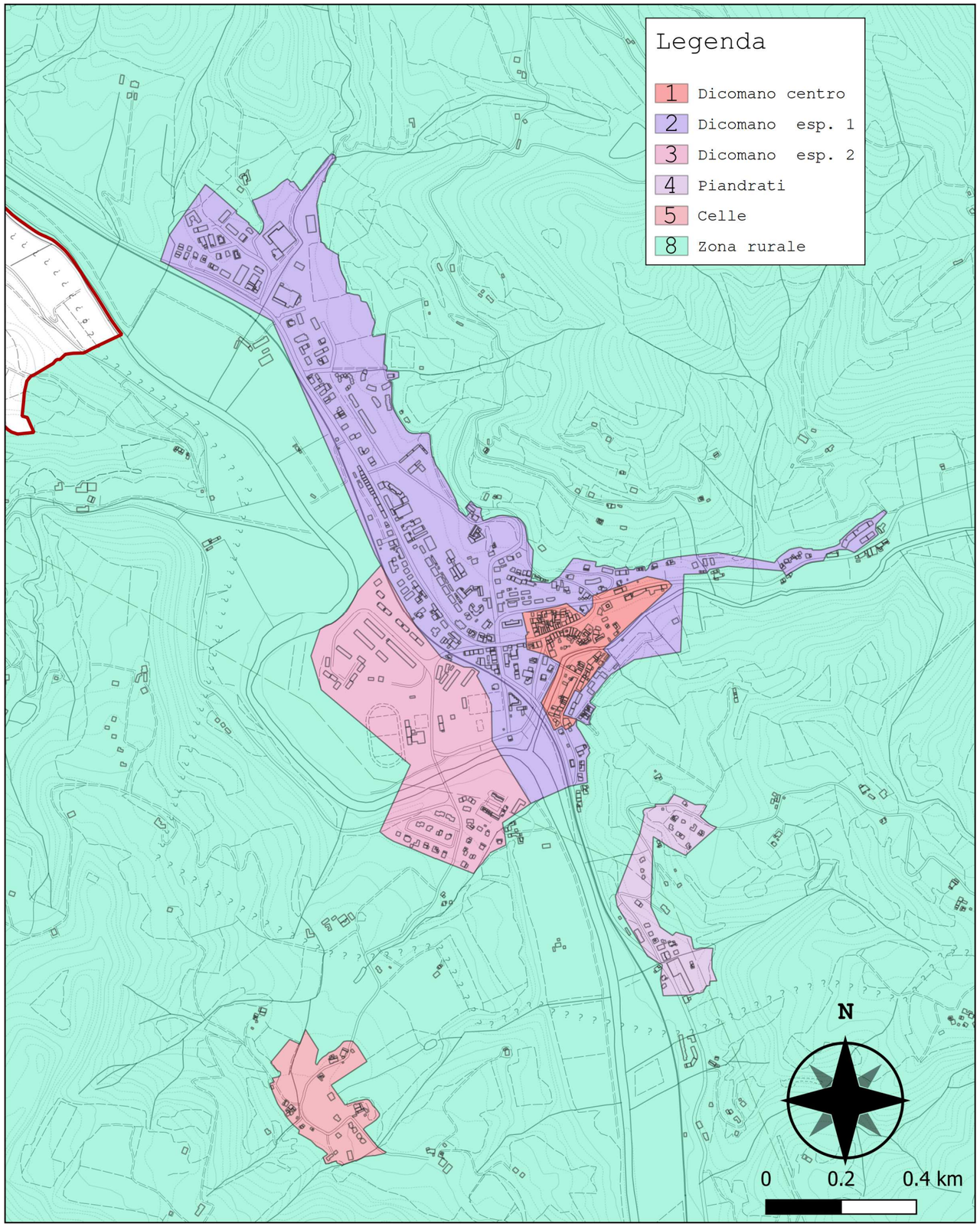
Descrizione	Numero	Vol. [m³]
mur.portante	1 176	1 002 753
c.a.	425	618 465
tot.	1 601	1 621 217



Edifici residenziali

Periodo di edificazione	Numero	Vol. [m³]
< 1919	740	669 507
1919-1945	137	115 808
1946-1961	150	93 015
1962-1975	353	433 838
1976-1986	65	101 984
1987-1996	57	56 712
1997-2008	97	148 512
>2009	2	1 840
tot.	1 601	1 621 217

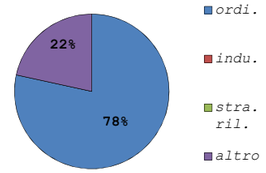


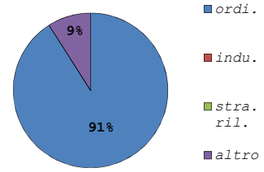


Comparto	*1. Dicomano centro*
n° abitanti	*611*

Destinazione d'uso

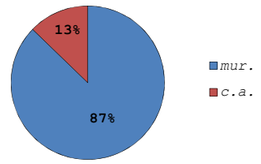
Descrizione	Numero	Vol. [m^3]
ordinario	*149*	*156 835*
industriale	*0*	*0*
strat. Ril	*0*	*0*
altro	*41*	*15 516*
tot.	*190*	*172 351*

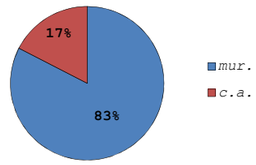




Tipologia materiale

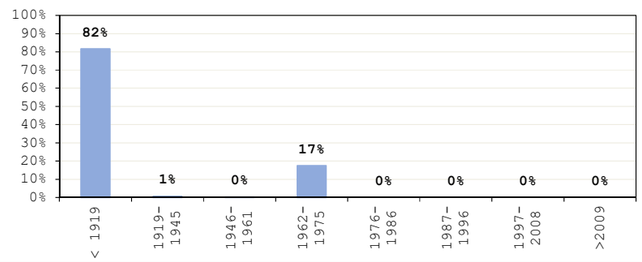
Descrizione	Numero	Vol. [m^3]
mur.portante	*130*	*129 470*
c.a.	*19*	*27 365*
tot.	*149*	*156 835*





Edifici residenziali

Periodo di edificazione	Numero	Vol. [m^3]
< 1919	*126*	*127 937*
1919-1945	*1*	*985*
1946-1961	*3*	*547*
1962-1975	*19*	*27 365*
1976-1986	*0*	*0*
1987-1996	*0*	*0*
1997-2008	*0*	*0*
>2009	*0*	*0*
tot.	*149*	*156 835*



UNIONE DEI COMUNI MONTANI DEL MUGELLO

COMUNITA' MONTANA MUGELLO

COMUNE DI DICOMANO

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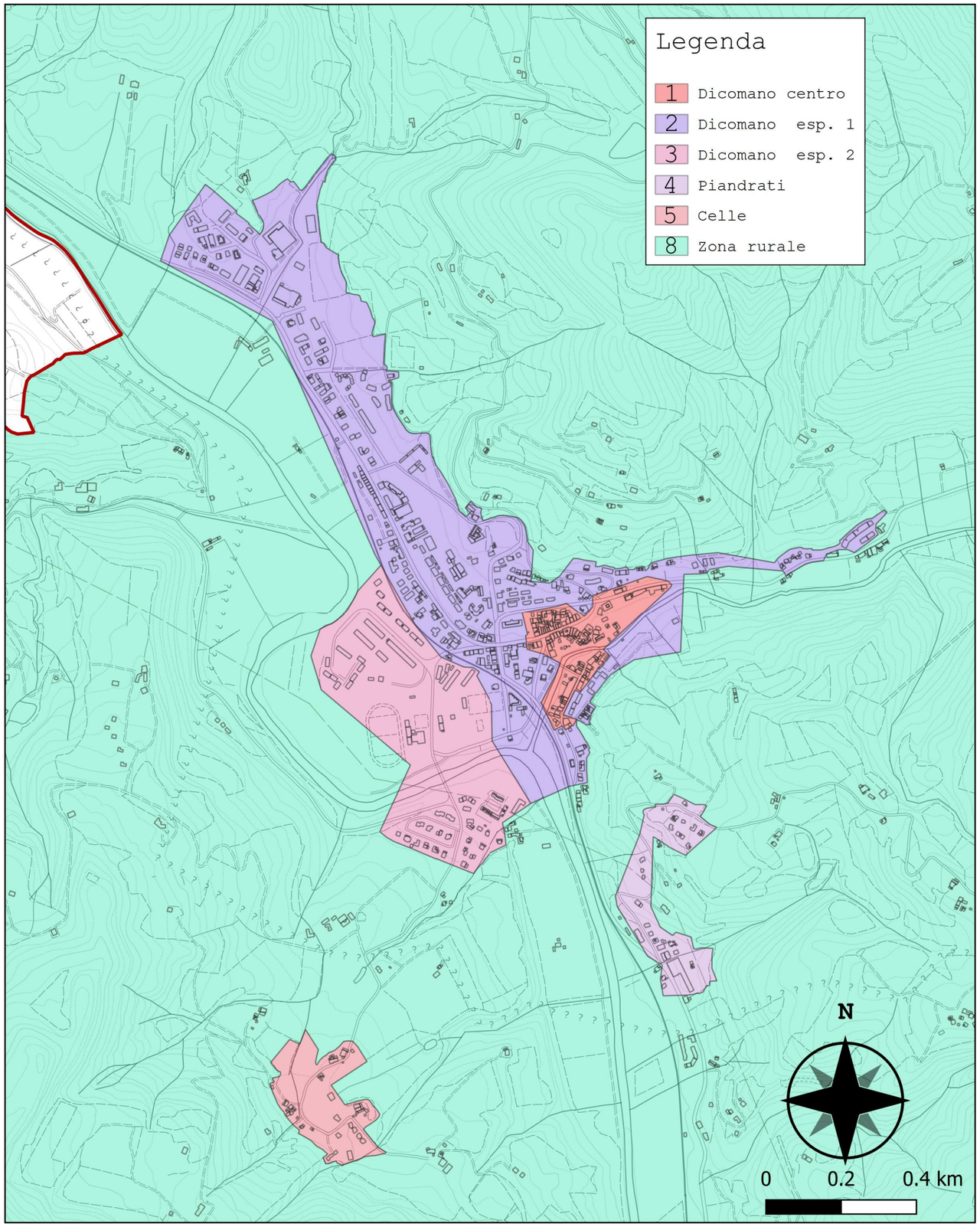
50134 Firenze

OGGETTO
ANALISI DEL RISCHIO SISMICO A SCALA TERRITORIALE

ELABORATO
Analisi dati comparto 1

06

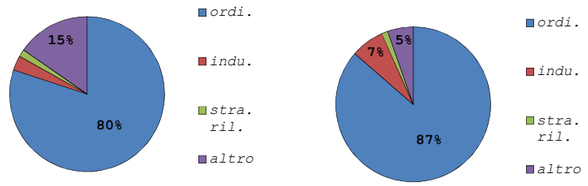
DATA: febbraio 2019



Comparto	*2. Dicomano esp. 1*
n° abitanti	*1 863*

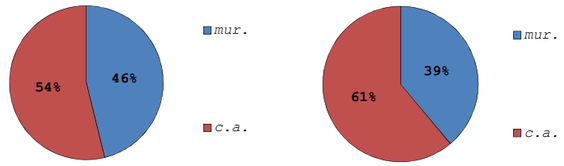
Destinazione d'uso

Descrizione	Numero	Vol. [m^3]
ordinario	*418*	*476 848*
industriale	*16*	*38 385*
strat. Ril	*8*	*7 212*
altro	*80*	*29 556*
tot.	*522*	*552 000*



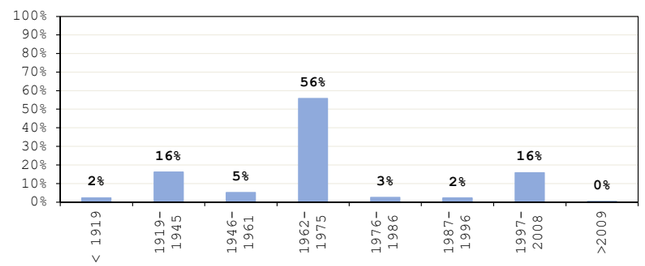
Tipologia materiale

Descrizione	Numero	Vol. [m^3]
mur.portante	*193*	*185 606*
c.a.	*225*	*291 241*
tot.	*418*	*476 848*



Edifici residenziali

Periodo di edificazione	Numero	Vol. [m^3]
< 1919	*15*	*10 565*
1919-1945	*76*	*76 701*
1946-1961	*22*	*24 549*
1962-1975	*228*	*265 678*
1976-1986	*19*	*12 085*
1987-1996	*5*	*10 266*
1997-2008	*51*	*75 164*
>2009	*2*	*1 840*
tot.	*418*	*476 848*



UNIONE DEI COMUNI MONTANI DEL MUGELLO

COMUNITA' MONTANA MUGELLO

COMUNE DI DICOMANO

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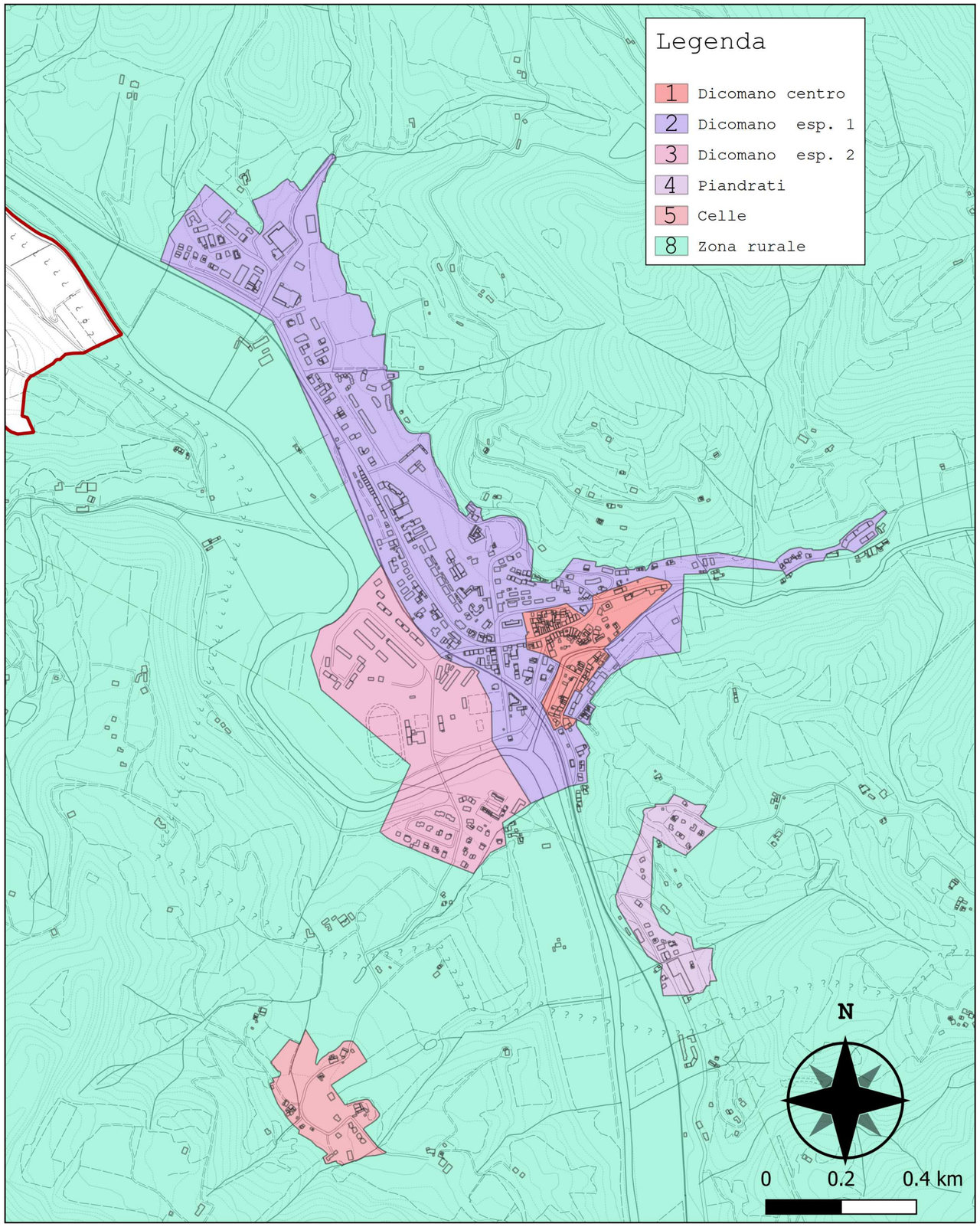
OGGETTO
ANALISI DEL RISCHIO SISMICO A SCALA TERRITORIALE

ELABORATO
Analisi dati comparto 2

07

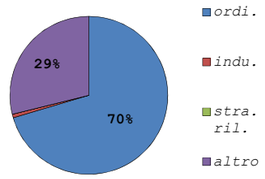
DATA: febbraio 2019

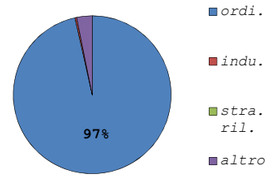


Comparto	*3. Dicomano esp. 2*
n° abitanti	*842*

Destinazione d'uso

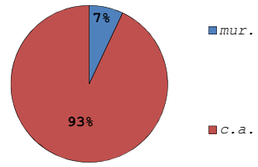
Descrizione	Numero	Vol. [m³]
ordinario	*100*	*134 955*
industriale	*1*	*507*
strat. Ril	*0*	*0*
altro	*41*	*4 410*
tot.	*142*	*139 872*

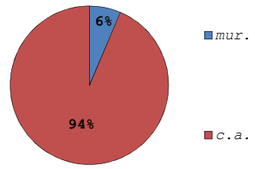




Tipologia materiale

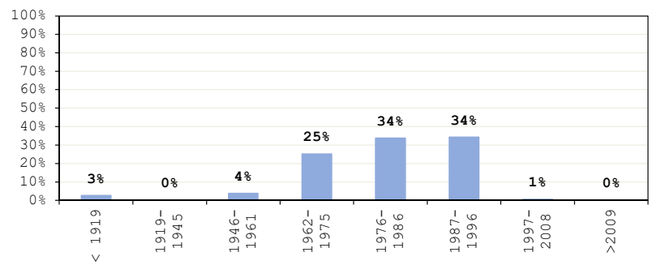
Descrizione	Numero	Vol. [m³]
mur.portante	*7*	*8 641*
c.a.	*93*	*126 314*
tot.	*100*	*134 955*





Edifici residenziali

Periodo di edificazione	Numero	Vol. [m³]
< 1919	*5*	*3 543*
1919-1945	*0*	*0*
1946-1961	*2*	*5 099*
1962-1975	*5*	*33 882*
1976-1986	*34*	*45 467*
1987-1996	*51*	*46 191*
1997-2008	*3*	*774*
>2009	*0*	*0*
tot.	*100*	*134 955*



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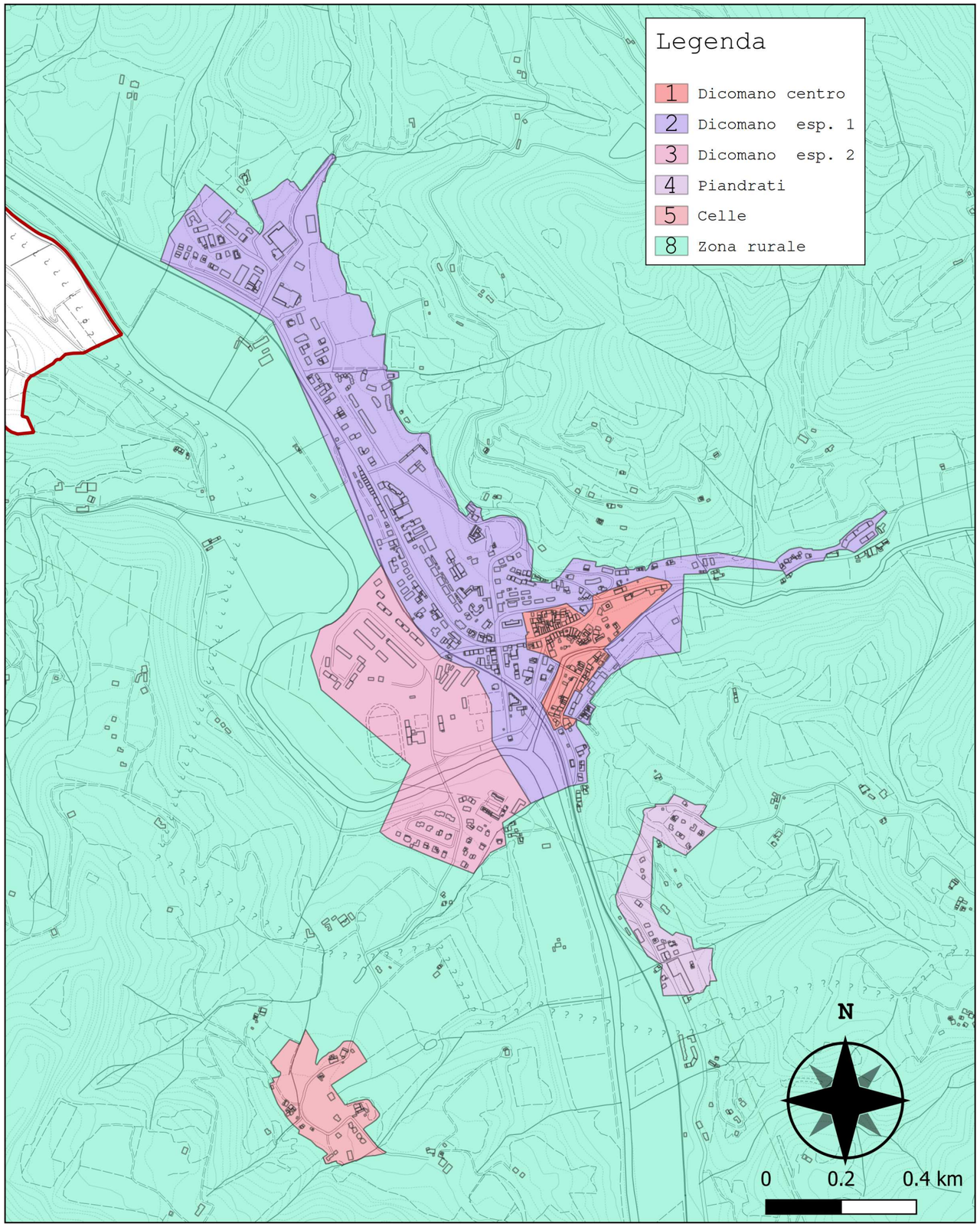
OGGETTO
ANALISI DEL RISCHIO SISMICO A SCALA TERRITORIALE

ELABORATO
Analisi dati comparto 3

08

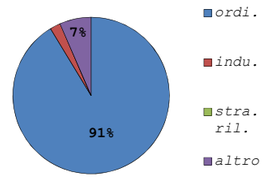
DATA: febbraio 2019

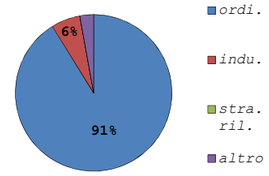


Comparto	*4. Piandrati*
n° abitanti	*122*

Destinazione d'uso

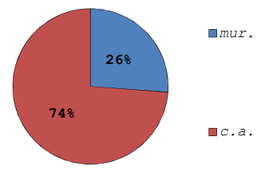
Descrizione	Numero	Vol. [m^3]
ordinario	*42*	*30 805*
industriale	*1*	*2 030*
strat. Ril	*0*	*0*
altro	*3*	*956*
tot.	*46*	*33 791*

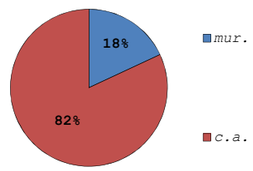




Tipologia materiale

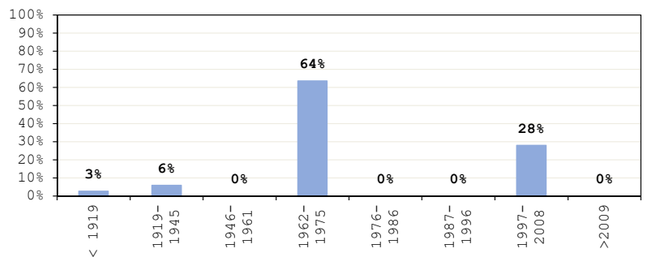
Descrizione	Numero	Vol. [m^3]
mur.portante	*11*	*5 559*
c.a.	*31*	*25 246*
tot.	*42*	*30 805*

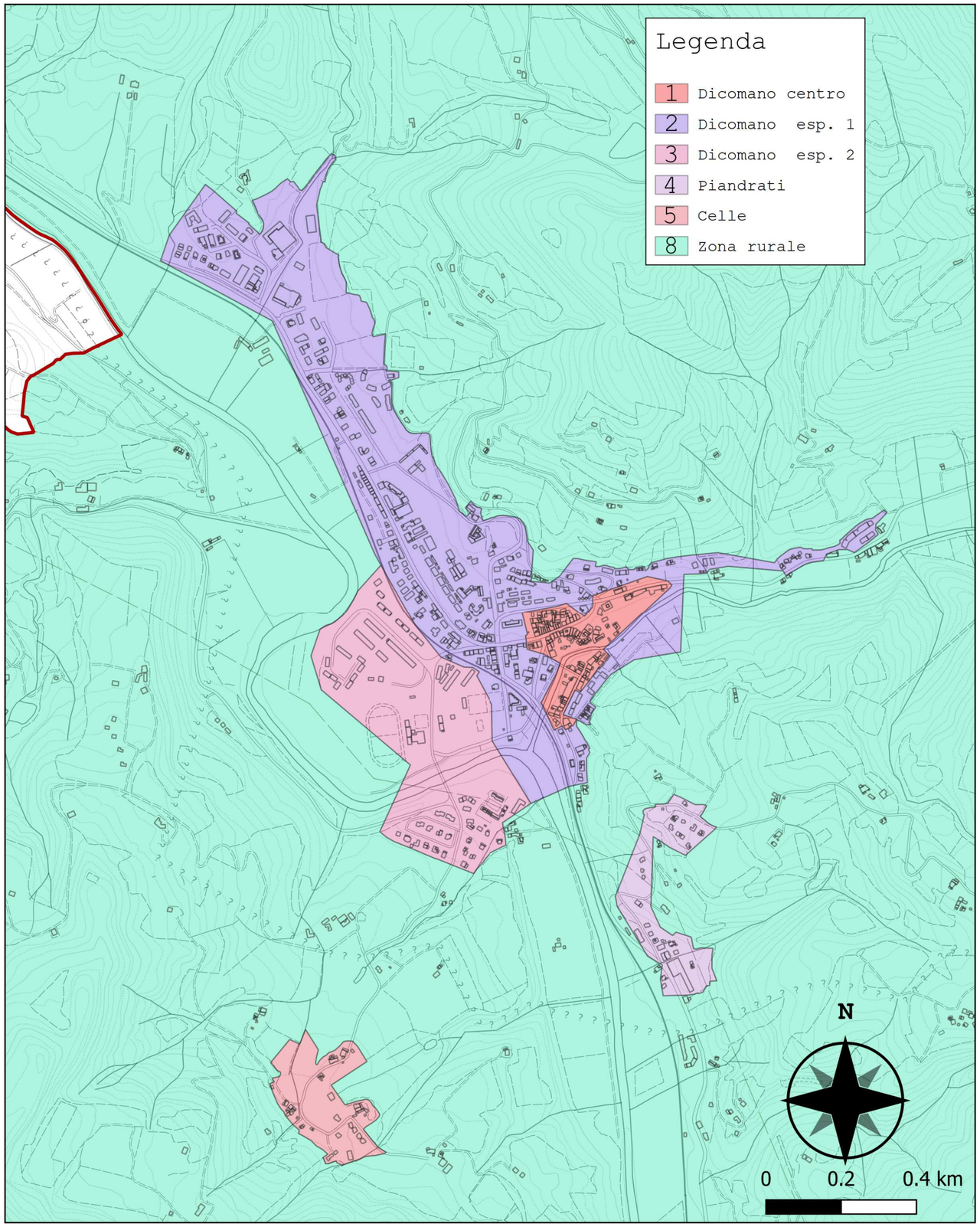




Edifici residenziali

Periodo di edificazione	Numero	Vol. [m^3]
< 1919	*2*	*822*
1919-1945	*2*	*1 793*
1946-1961	*0*	*0*
1962-1975	*21*	*19 568*
1976-1986	*0*	*0*
1987-1996	*0*	*0*
1997-2008	*17*	*8 623*
>2009	*0*	*0*
tot.	*42*	*30 805*

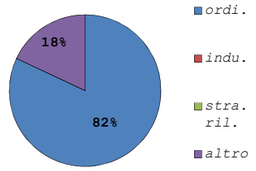


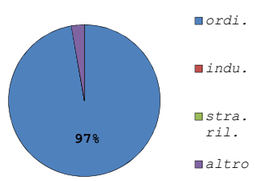


Comparto	*5. Celle*
n° abitanti	*85*

Destinazione d'uso

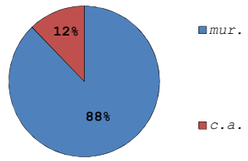
Descrizione	Numero	Vol. [m^3]
ordinario	*41*	*24 413*
industriale	*0*	*0*
strat. Ril	*0*	*0*
altro	*9*	*693*
tot.	*50*	*25 106*

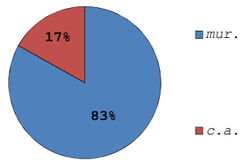




Tipologia materiale

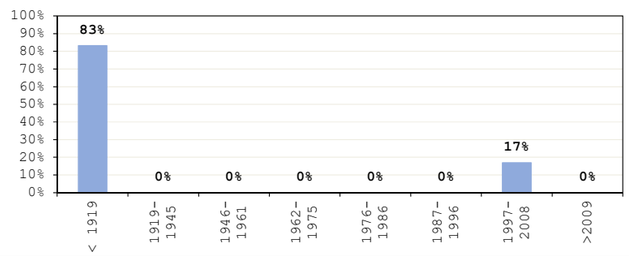
Descrizione	Numero	Vol. [m^3]
mur.portante	*36*	*20 295*
c.a.	*5*	*4 118*
tot.	*41*	*24 413*





Edifici residenziali

Periodo di edificazione	Numero	Vol. [m^3]
< 1919	*36*	*20 295*
1919-1945	*0*	*0*
1946-1961	*0*	*0*
1962-1975	*0*	*0*
1976-1986	*0*	*0*
1987-1996	*0*	*0*
1997-2008	*5*	*4 118*
>2009	*0*	*0*
tot.	*41*	*24 413*



UNIONE DEI COMUNI MONTANI DEL MUGELLO

COMUNE DI DICOMANO

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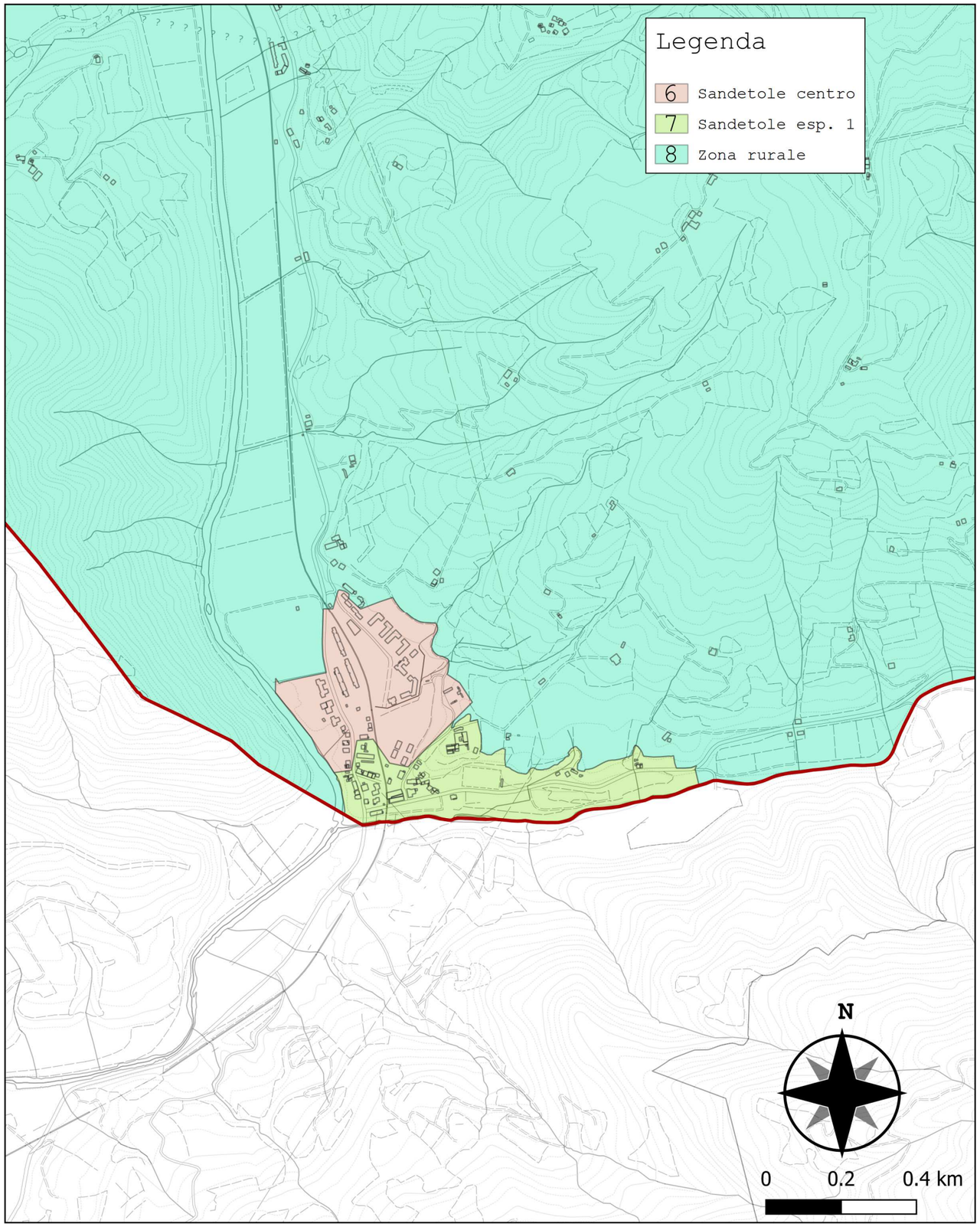
50134 Firenze

OGGETTO
ANALISI DEL RISCHIO SISMICO A SCALA TERRITORIALE

ELABORATO
Analisi dati comparto 5

10

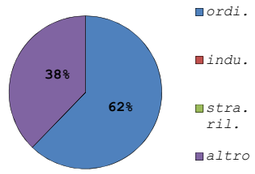
DATA: febbraio 2019

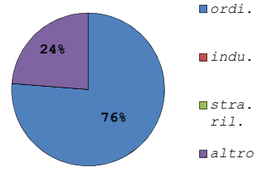


Comparto	*6. Sandetole centro*
n° abitanti	*11*

Destinazione d'uso

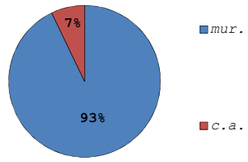
Descrizione	Numero	Vol. [m^3]
ordinario	*56*	*53 623*
industriale	*0*	*0*
strat. Ril	*0*	*0*
altro	*34*	*16 692*
tot.	*90*	*70 315*

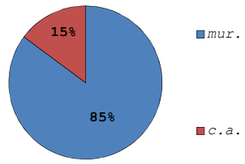




Tipologia materiale

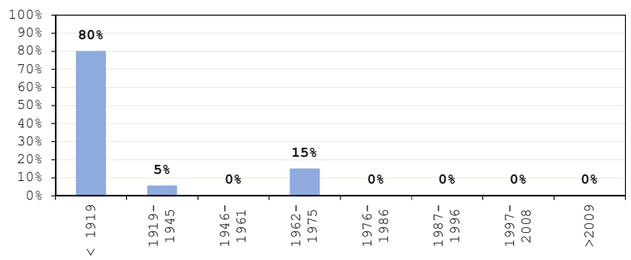
Descrizione	Numero	Vol. [m^3]
mur.portante	*52*	*45 668*
c.a.	*4*	*7 954*
tot.	*56*	*53 623*





Edifici residenziali

Periodo di edificazione	Numero	Vol. [m^3]
< 1919	*44*	*42 803*
1919-1945	*8*	*2 865*
1946-1961	*0*	*0*
1962-1975	*4*	*7 954*
1976-1986	*0*	*0*
1987-1996	*0*	*0*
1997-2008	*0*	*0*
>2009	*0*	*0*
tot.	*56*	*53 623*



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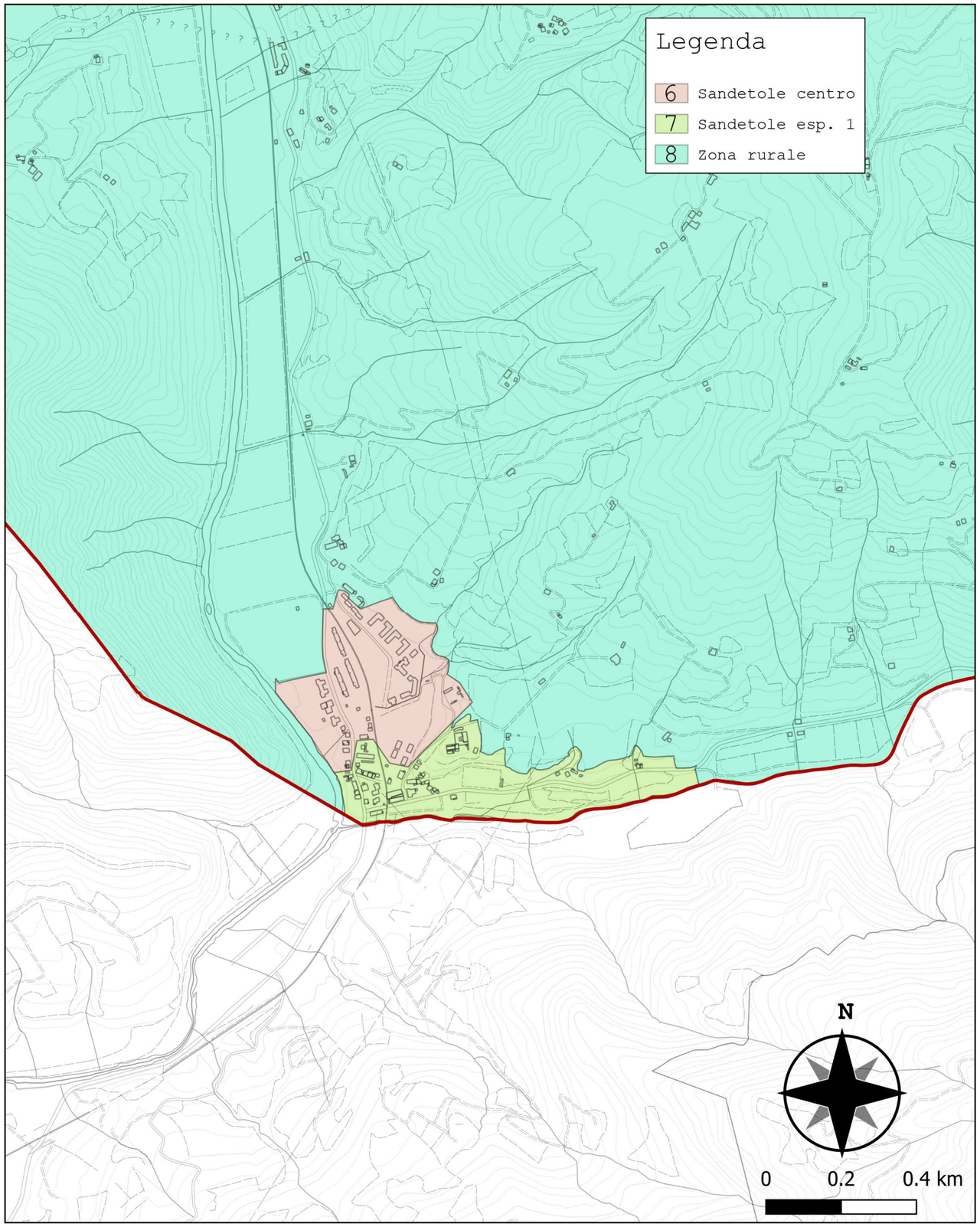
OGGETTO
ANALISI DEL RISCHIO SISMICO A SCALA TERRITORIALE

ELABORATO
Analisi dati comparto 6

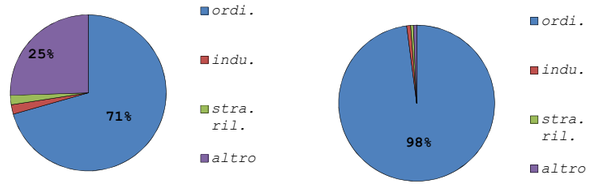
DATA: febbraio 2019



Comparto	*7. Sandetole esp. 1*
n° abitanti	*4*

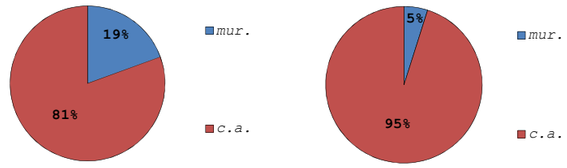
Destinazione d'uso

Descrizione	Numero	Vol. [m³]
ordinario	*36*	*112 488*
industriale	*1*	*903*
strat. Ril	*1*	*678*
altro	*13*	*759*
tot.	*51*	*114 828*



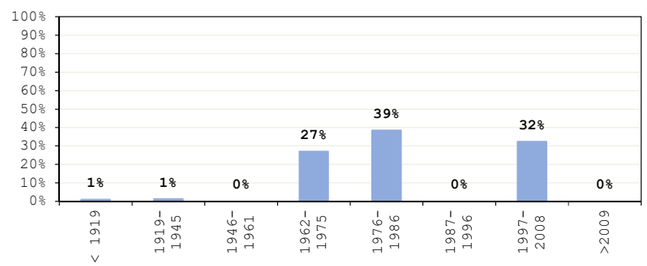
Tipologia materiale

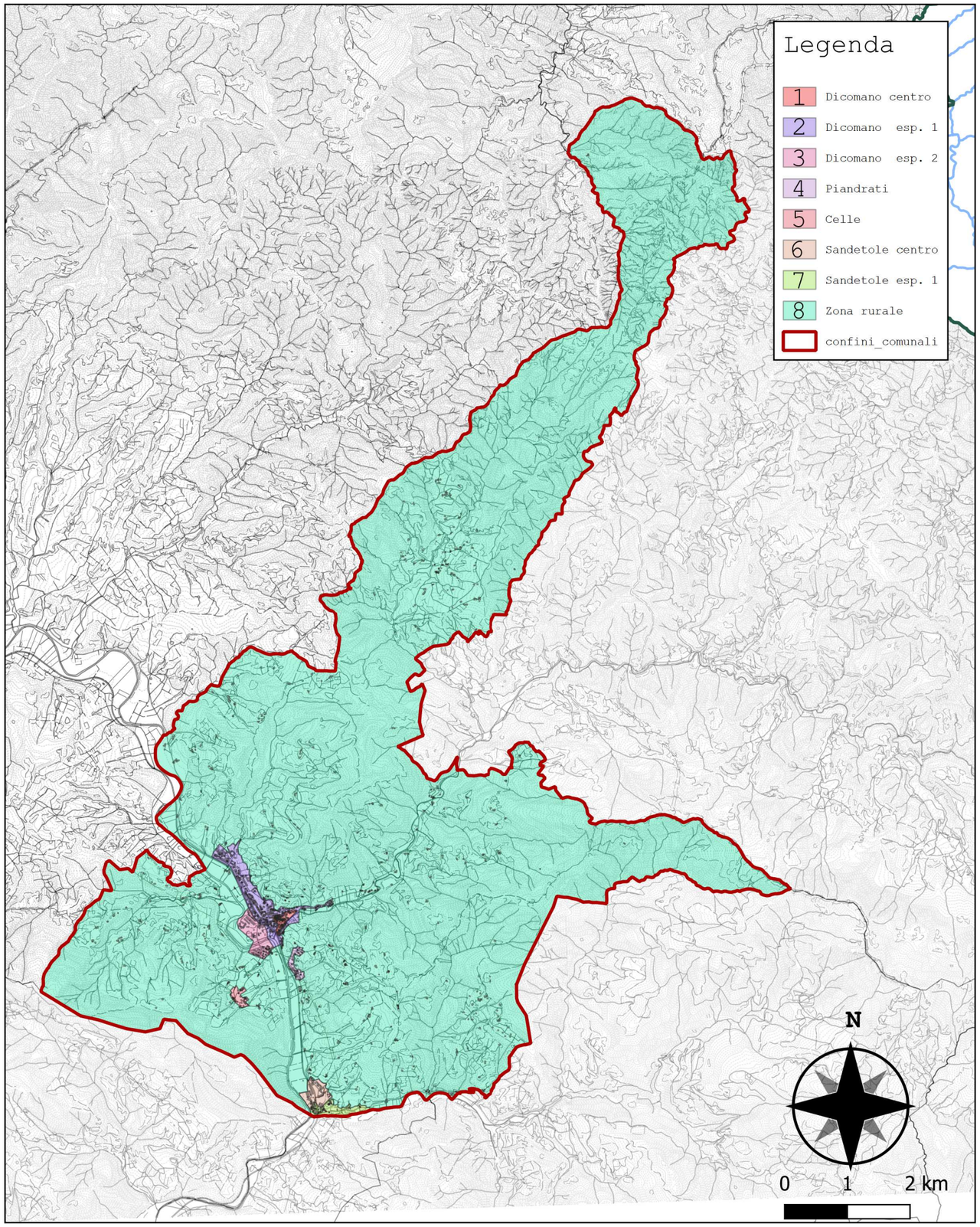
Descrizione	Numero	Vol. [m³]
mur.portante	*7*	*5 495*
c.a.	*29*	*106 992*
tot.	*36*	*112 488*



Edifici residenziali

Periodo di edificazione	Numero	Vol. [m³]
< 1919	*2*	*1 070*
1919-1945	*1*	*1 355*
1946-1961	*0*	*0*
1962-1975	*13*	*30 412*
1976-1986	*9*	*43 319*
1987-1996	*0*	*0*
1997-2008	*11*	*36 332*
>2009	*0*	*0*
tot.	*36*	*112 488*

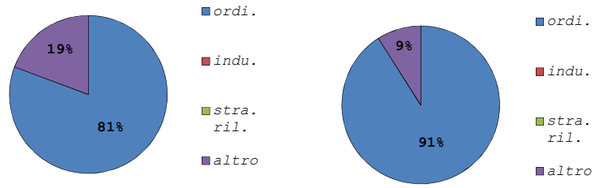




Comparto	*8. Zona rurale*
n° abitanti	*2 027*

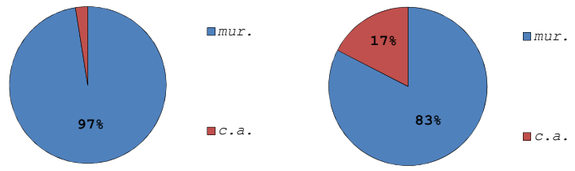
Destinazione d'uso

Descrizione	Numero	Vol. [m^3]
ordinario	*759*	*156 835*
industriale	*0*	*0*
strat. Ril	*0*	*0*
altro	*182*	*15 516*
tot.	*941*	*172 351*



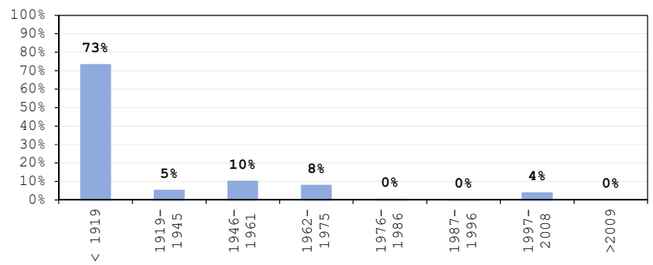
Tipologia materiale

Descrizione	Numero	Vol. [m^3]
mur.portante	*740*	*129 470*
c.a.	*19*	*27 365*
tot.	*759*	*156 835*



Edifici residenziali

Periodo di edificazione	Numero	Vol. [m^3]
< 1919	*510*	*462 473*
1919-1945	*49*	*32 109*
1946-1961	*123*	*62 820*
1962-1975	*63*	*48 980*
1976-1986	*3*	*1 113*
1987-1996	*1*	*255*
1997-2008	*10*	*23 502*
>2009	*0*	*0*
tot.	*759*	*631 252*



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OGGETTO
ANALISI DEL RISCHIO SISMICO A SCALA TERRITORIALE

ELABORATO
Analisi dati comparto 8

DATA: febbraio 2019

TIPOLOGIA TM1

CARATTERISTICHE PRINCIPALI

- Muratura
- Antecedente al 1919
- 1-2 piani

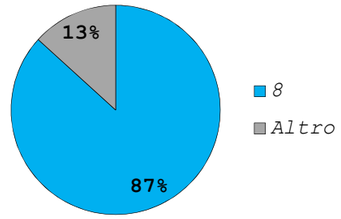
CARATTERISTICHE PREVALENTI

- Edificio irregolare
- Copertura leggera
- Classe EMS_98: M1-M3

INCIDENZA SULL'INTERO COMUNE: 27%

DISTRIBUZIONE SUI VARI COMPARTI

Comp.	N°ed.	Vol.[m³]
8	440	373 238



TIPOLOGIA TM2

CARATTERISTICHE PRINCIPALI

- Muratura
- Antecedente al 1919
- 3-5 piani

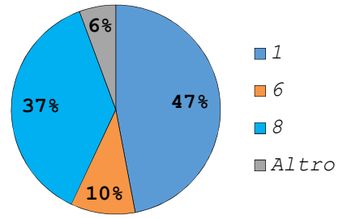
CARATTERISTICHE PREVALENTI

- Aggregato irregolare
- Copertura leggera
- Classe EMS_98: M1-M3

INCIDENZA SULL'INTERO COMUNE: 15%

DISTRIBUZIONE SUI VARI COMPARTI

Comp.	N°ed.	Vol.[m³]
1	88	112 501
6	10	23 834
8	70	89 235



TIPOLOGIA TM3

CARATTERISTICHE PRINCIPALI

- Muratura
- Periodo 1919-1945
- 1-2 piani

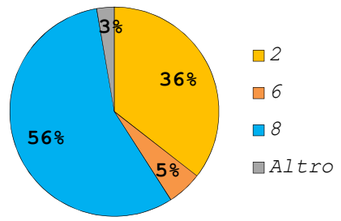
CARATTERISTICHE PREVALENTI

- Edificio irregolare o mediamente regolare
- Copertura leggera
- Classe EMS_98: M1-M3-M5

INCIDENZA SULL'INTERO COMUNE: 3%

DISTRIBUZIONE SUI VARI COMPARTI

Comp.	N°ed	Vol.[m³]
2	38	18 816
6	8	2 865
8	46	29 860



TIPOLOGIA TM4

CARATTERISTICHE PRINCIPALI

- Muratura
- Periodo 1919-1945
- 3-5 piani

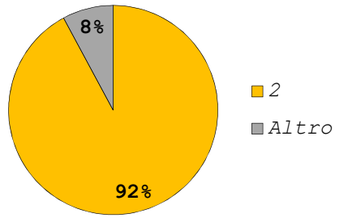
CARATTERISTICHE PREVALENTI

- Edificio irregolare o mediamente regolare
- Copertura leggera
- Classe EMS_98: M1-M3-M5

INCIDENZA SULL'INTERO COMUNE: 4%

DISTRIBUZIONE SUI VARI COMPARTI

Comp.	N°ed	Vol.[m³]
2	38	57 885



TIPOLOGIA TM5

CARATTERISTICHE PRINCIPALI

- Muratura
- Periodo 1946-1961
- 1-2 piani

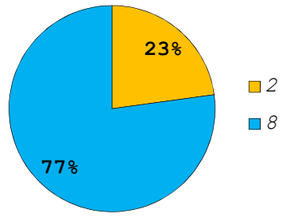
CARATTERISTICHE PREVALENTI

- Edificio irregolare o mediamente regolare
- Copertura leggera
- Classe EMS_98: M3-M5-M6

INCIDENZA SULL'INTERO COMUNE: 5%

DISTRIBUZIONE SUI VARI COMPARTI

Comp.	N°ed.	Vol.[m³]
2	16	16 638
8	115	56 177



TIPOLOGIA TM7

CARATTERISTICHE PRINCIPALI

- Muratura
- Periodo 1962-1975
- 1-2 piani

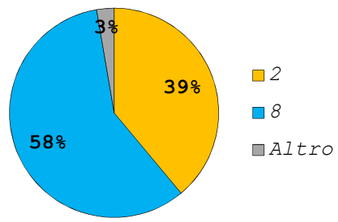
CARATTERISTICHE PREVALENTI

- Edificio mediamente regolare o regolare
- Presenza di cordoli
- Classe EMS_98: M6

INCIDENZA SULL'INTERO COMUNE: 5%

DISTRIBUZIONE SUI VARI COMPARTI

Comp.	N°ed.	Vol.[m³]
2	54	28 987
8	57	43 452



TIPOLOGIA TM8

CARATTERISTICHE PRINCIPALI

- Muratura
- Periodo 1962-1975
- 3-5 piani

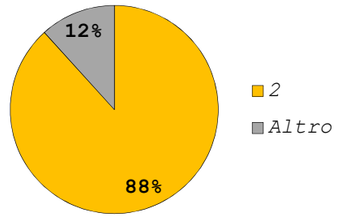
CARATTERISTICHE PREVALENTI

- Edificio mediamente regolare o regolare
- Presenza di cordoli
- Classe EMS_98: M6

INCIDENZA SULL'INTERO COMUNE: 3%

DISTRIBUZIONE SUI VARI COMPARTI

Comp.	N°ed.	Vol.[m³]
2	29	48 571



TIPOLOGIA TCA10

CARATTERISTICHE PRINCIPALI

- Cemento armato
- Periodo 1962-1975
- 1-3 piani

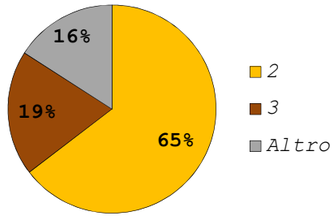
CARATTERISTICHE PREVALENTI

- Struttura a telaio o a setti portanti
- Classe EMS_98: RC1-RC4

INCIDENZA SULL'INTERO COMUNE: 11%

DISTRIBUZIONE SUI VARI COMPARTI

Comp.	N°ed.	Vol.[m³]
2	118	112 552
3	5	33 882



TIPOLOGIA TCA11

CARATTERISTICHE PRINCIPALI

- Cemento armato
- Periodo 1962-1975
- 4-7 piani

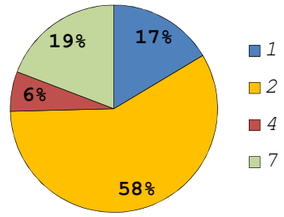
CARATTERISTICHE PREVALENTI

- Struttura a telaio o a setti portanti
- Classe EMS_98: RC1-RC4

INCIDENZA SULL'INTERO COMUNE: 8%

DISTRIBUZIONE SUI VARI COMPARTI

Comp.	N°ed.	Vol.[m³]
1	11	21 345
2	27	75 568
4	2	8 052
7	4	24 930



TIPOLOGIA TCA12

CARATTERISTICHE PRINCIPALI

- Cemento armato
- Periodo 1976-1986
- 1-3 piani

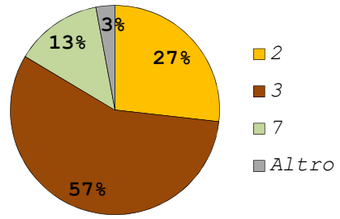
CARATTERISTICHE PREVALENTI

- Struttura a telaio o a setti portanti
- Classe EMS_98: RC2-RC5

INCIDENZA SULL'INTERO COMUNE: 2%

DISTRIBUZIONE SUI VARI COMPARTI

Comp.	Numero	Vol. [m³]
2	17	9 092
3	20	19 280
7	2	4 581



TIPOLOGIA TCA13

CARATTERISTICHE PRINCIPALI

- Cemento armato
- Periodo 1976-1986
- 4-7 piani

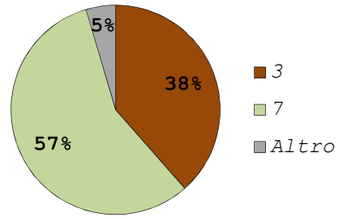
CARATTERISTICHE PREVALENTI

- Struttura a telaio o a setti portanti
- Classe EMS_98: RC2-RC5

INCIDENZA SULL'INTERO COMUNE: 4%

DISTRIBUZIONE SUI VARI COMPARTI

Comp.	N°ed.	Vol. [m³]
3	14	26 186
7	7	38 738



TIPOLOGIA TCA14

CARATTERISTICHE PRINCIPALI

- Cemento armato
- Periodo 1987-1996
- 1-3 piani

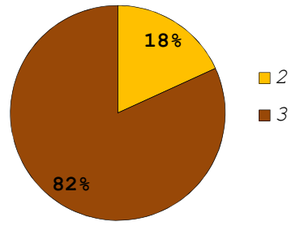
CARATTERISTICHE PREVALENTI

- Struttura a telaio o a setti portanti
- Classe EMS_98: RC2-RC5

INCIDENZA SULL'INTERO COMUNE: 3%

DISTRIBUZIONE SUI VARI COMPARTI

Comp.	N°ed.	Vol. [m³]
2	5	10 266
3	51	46 191



TIPOLOGIA TCA16

CARATTERISTICHE PRINCIPALI

- Cemento armato
- Periodo 1996-2008
- 1-3 piani

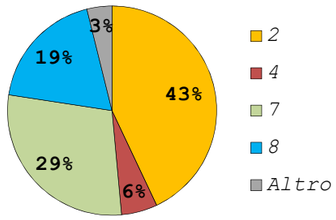
CARATTERISTICHE PREVALENTI

- Struttura a telaio o a setti portanti
- Classe EMS_98: RC3-RC6

INCIDENZA SULL'INTERO COMUNE: 8%

DISTRIBUZIONE SUI VARI COMPARTI

Comp.	N°ed.	Vol.[m³]
2	44	54 098
4	15	7 002
7	11	36 332
8	10	23 502



TIPOLOGIA TCA17

CARATTERISTICHE PRINCIPALI

- Cemento armato
- Periodo 1996-2008
- 4-7 piani

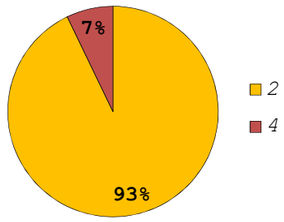
CARATTERISTICHE PREVALENTI

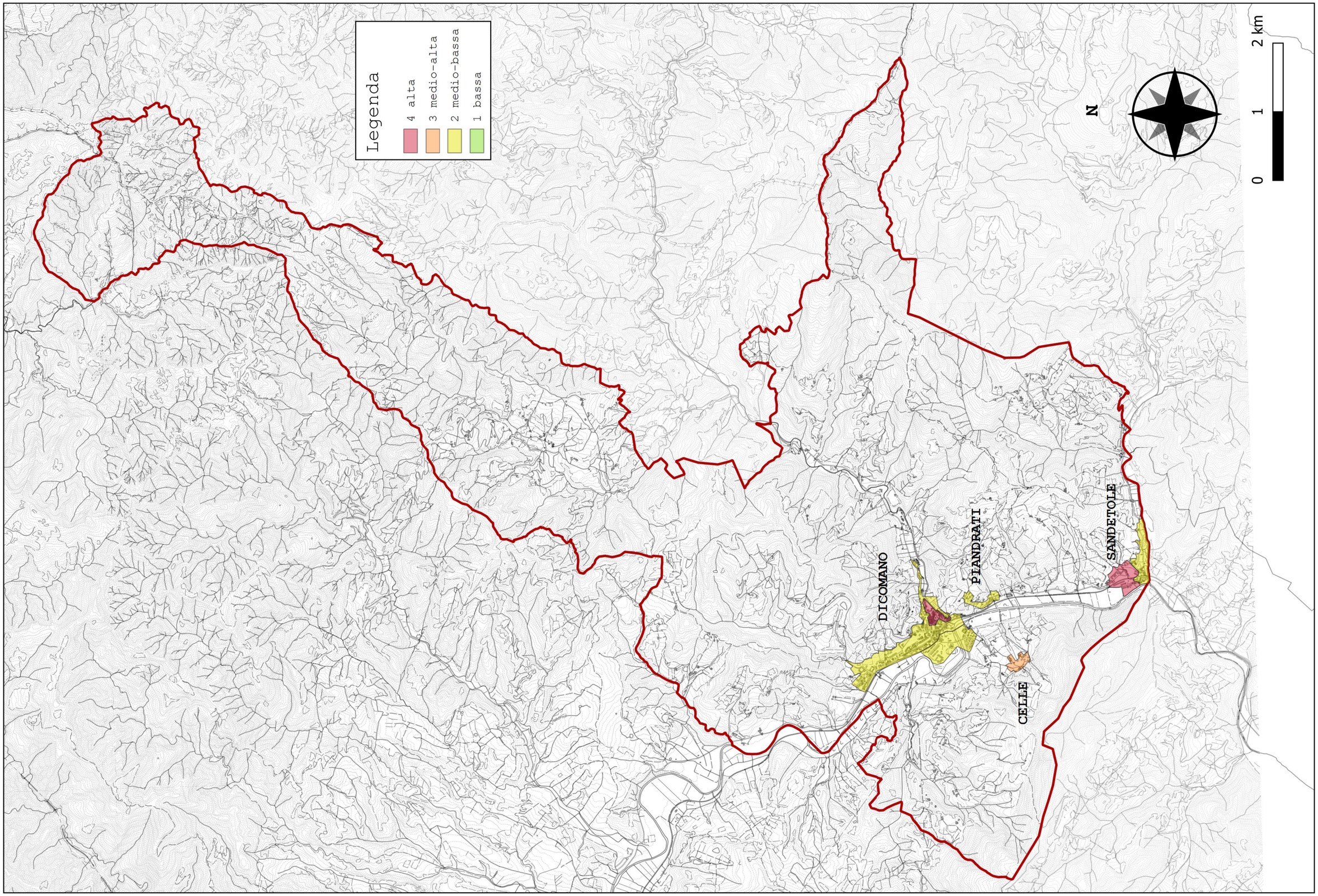
- Struttura a telaio o a setti portanti
- Classe EMS_98: RC3-RC6

INCIDENZA SULL'INTERO COMUNE: 1%

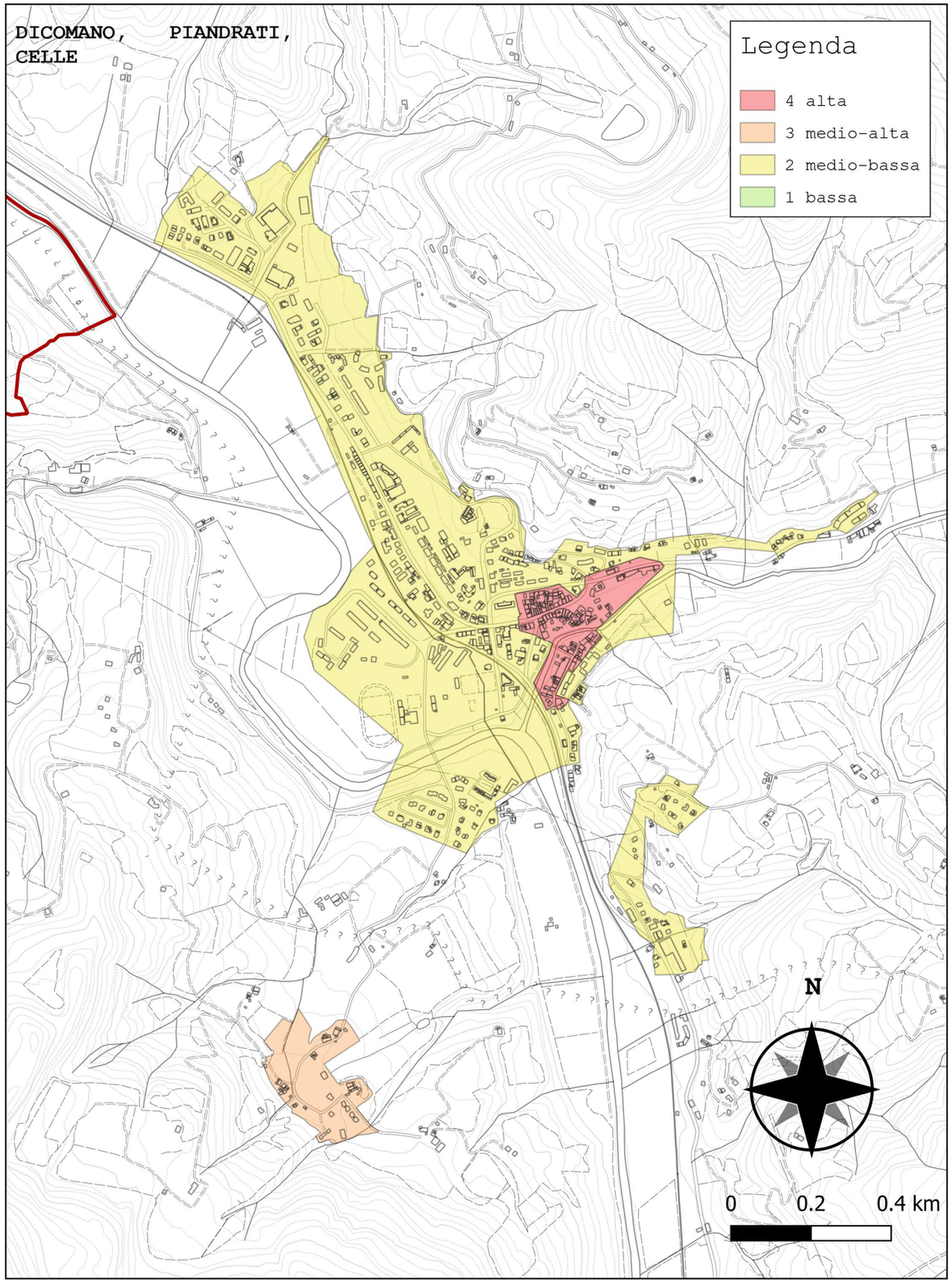
DISTRIBUZIONE SUI VARI COMPARTI

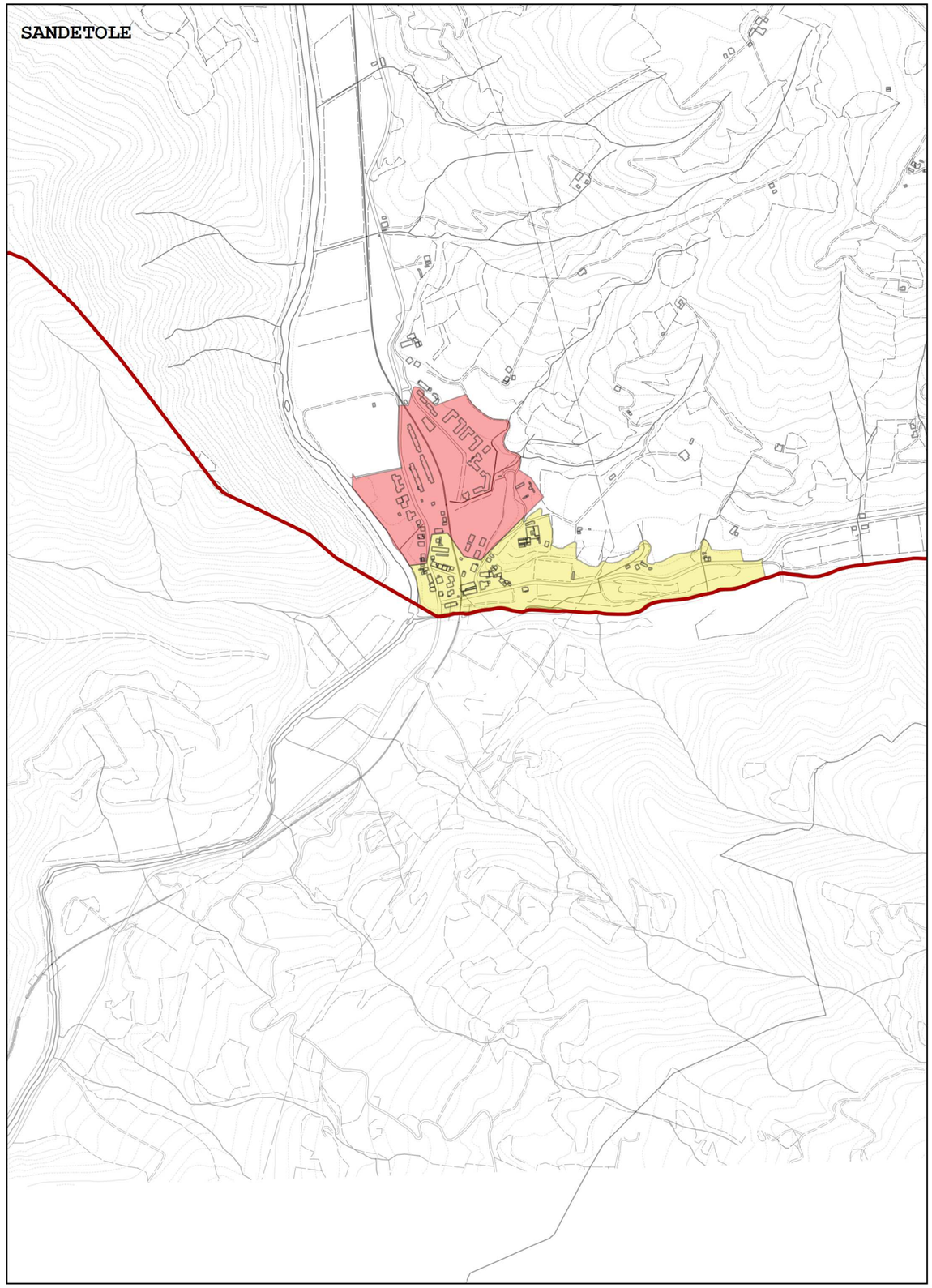
Comp.	N°ed.	Vol.[m³]
2	7	21 066
4	2	1 620





UNIONE DEI COMUNI MONTANI DEL MUGELLO	COMUNE DI DICOMANO	S2R S.r.l. Spin Off dell'Università degli Studi di Firenze Via Vittorio Emauele II, n. 161 50134 Firenze	OGGETTO ANALISI DEL RISCHIO SISMICO A SCALA TERRITORIALE	ELABORATO Vulnerabilità edifici ordinari	19 DATA: febbraio 2019





UNIONE DEI COMUNI MONTANI DEL MUGELLO

COMUNE DI BARBERINO DI MUGELLO

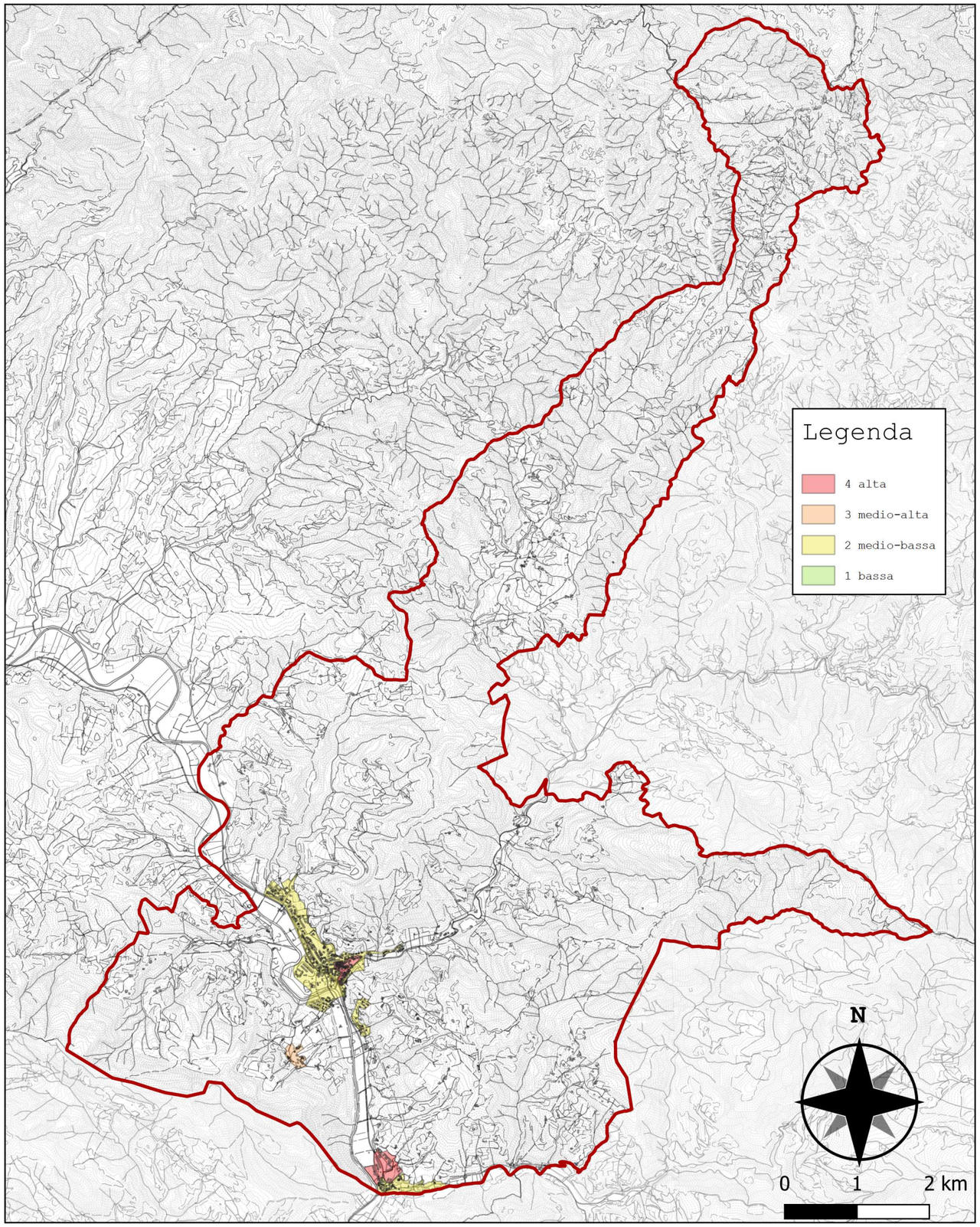
S2R S.r.l.
Spin Off dell'Università degli Studi di Firenze
Via Vittorio Emauele II, n. 161
50134 Firenze

OGGETTO
ANALISI DEL RISCHIO SISMICO A SCALA TERRITORIALE

ELABORATO
Vulnerabilità edifici ordinari

20

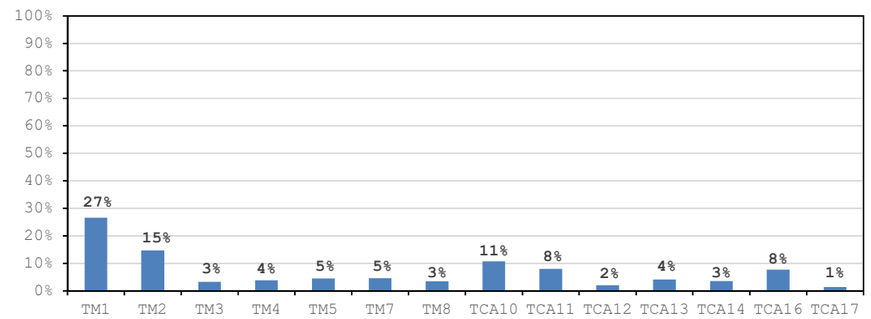
DATA:
febbraio 2019



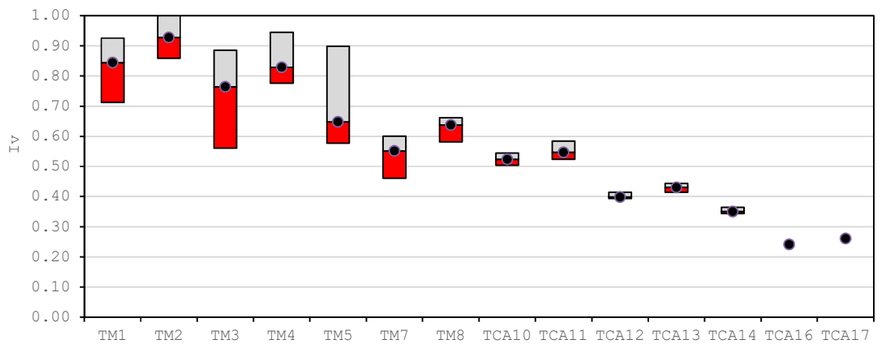
Tipologie significative a livello comunale

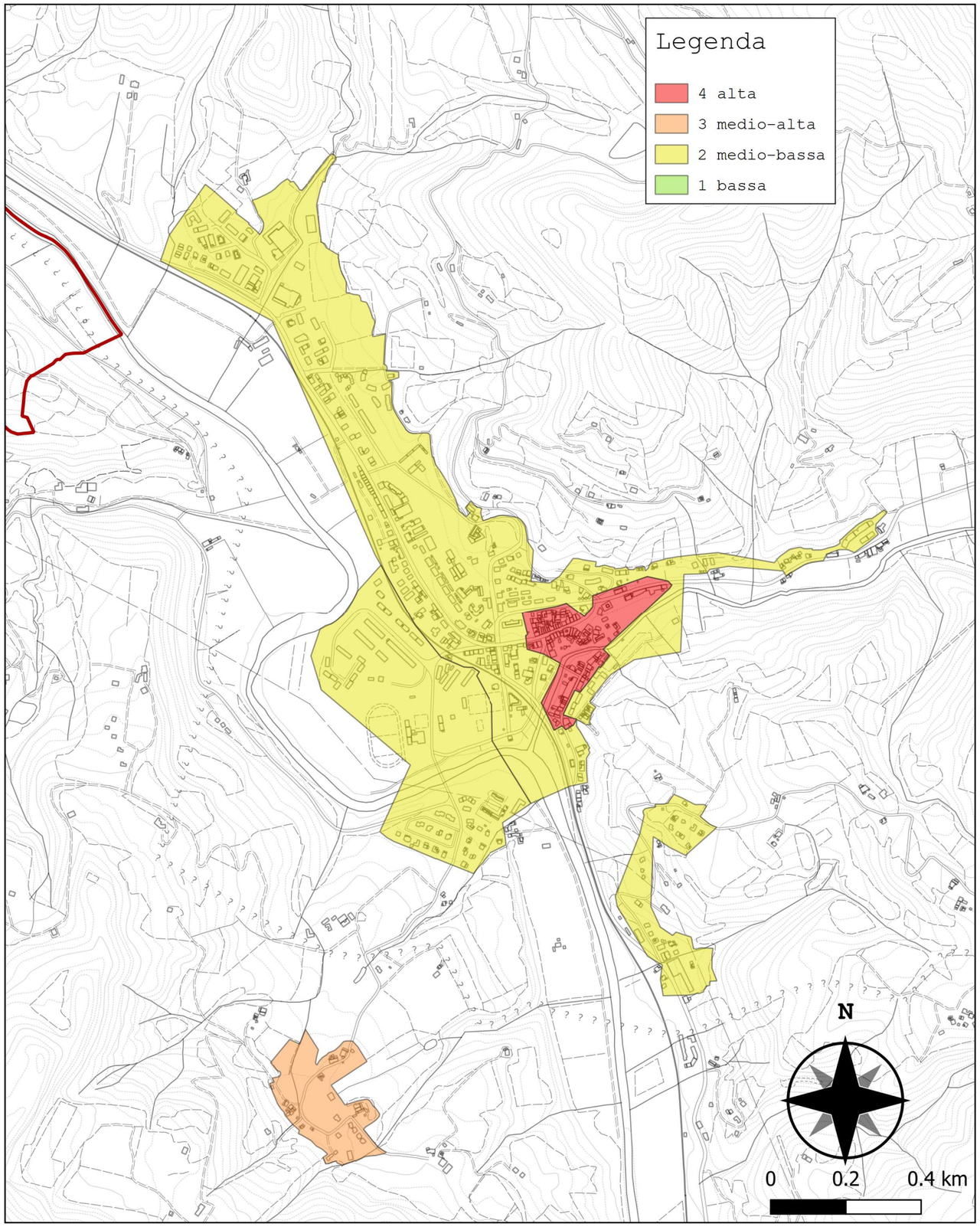
Tipologie	Numero	Vol. [m^3]	Iv min	Iv medio	Ivmax	stdev	COV
TM1	560	430 368	0.712	0.844	0.925	0.031	0.036
TM2	180	239 139	0.859	0.928	1.000	0.026	0.028
TM3	94	52 982	0.560	0.764	0.885	0.049	0.064
TM4	43	62 826	0.776	0.829	0.945	0.035	0.043
TM5	134	73 362	0.577	0.648	0.899	0.086	0.133
TM7	117	74 440	0.461	0.552	0.601	0.022	0.040
TM8	36	55 272	0.581	0.638	0.661	0.023	0.036
TCA10	155	174 126	0.504	0.524	0.544	0.016	0.030
TCA11	45	130 001	0.524	0.547	0.584	0.020	0.036
TCA12	41	33 952	0.394	0.398	0.414	0.008	0.019
TCA13	24	68 032	0.414	0.431	0.444	0.014	0.032
TCA14	57	56 712	0.344	0.351	0.364	0.010	0.027
TCA16	88	125 826	0.241	0.242	0.242	0.000	0.000
TCA17	9	22 686	0.262	0.262	0.262	0.000	0.000
tot.	**1 601**	**1 621 217**					

INCIDENZA TIPOLOGIE EDILIZIE



VULNERABILITA' TIPOLOGIE EDILIZIE

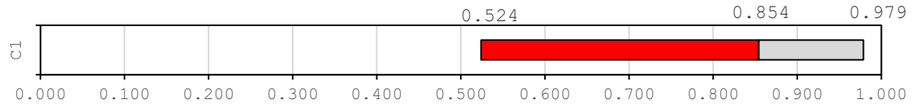




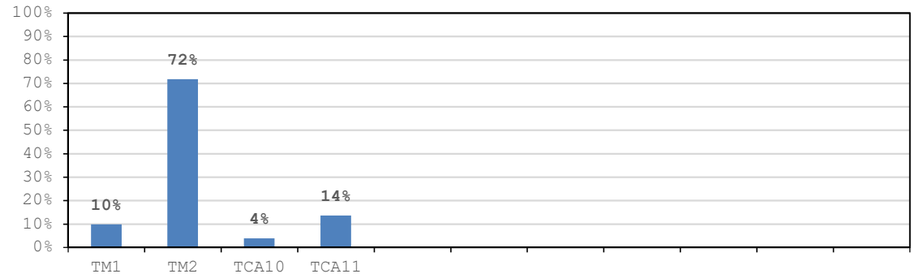
Comparto 1: *Dicomano centro*

Tip. costruttiva	Numero	Vol. [m³]	Iv min	Iv medio	Iv max
TM1	38	15 436	0.819	0.855	0.899
TM2	88	112 501	0.879	0.927	0.979
TCA10	8	6 019	0.524	0.536	0.544
TCA11	11	21 345	0.524	0.572	0.584
tot.	**149**	**156 835**			

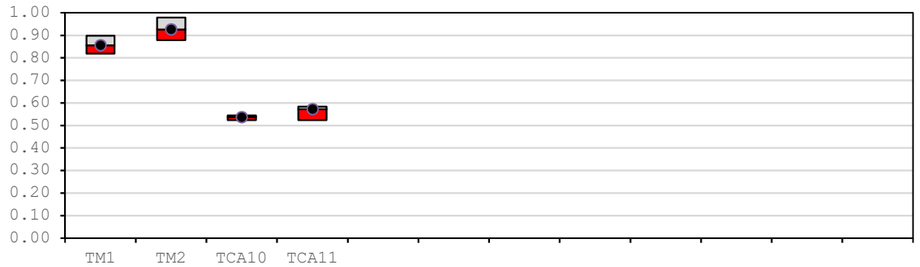
INTERVALLO DI VULNERABILITÀ COMPARTO



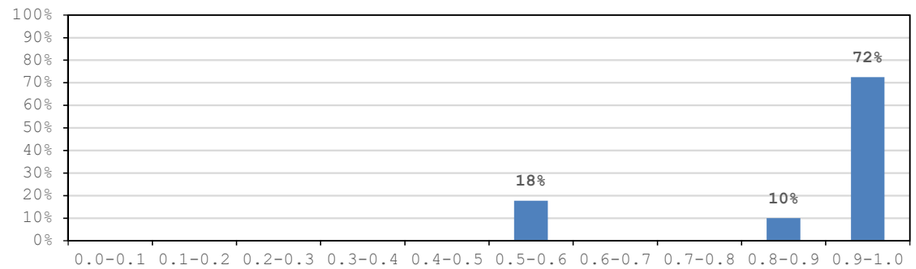
DISTRIBUZIONE TIPOLOGIE EDILIZIE

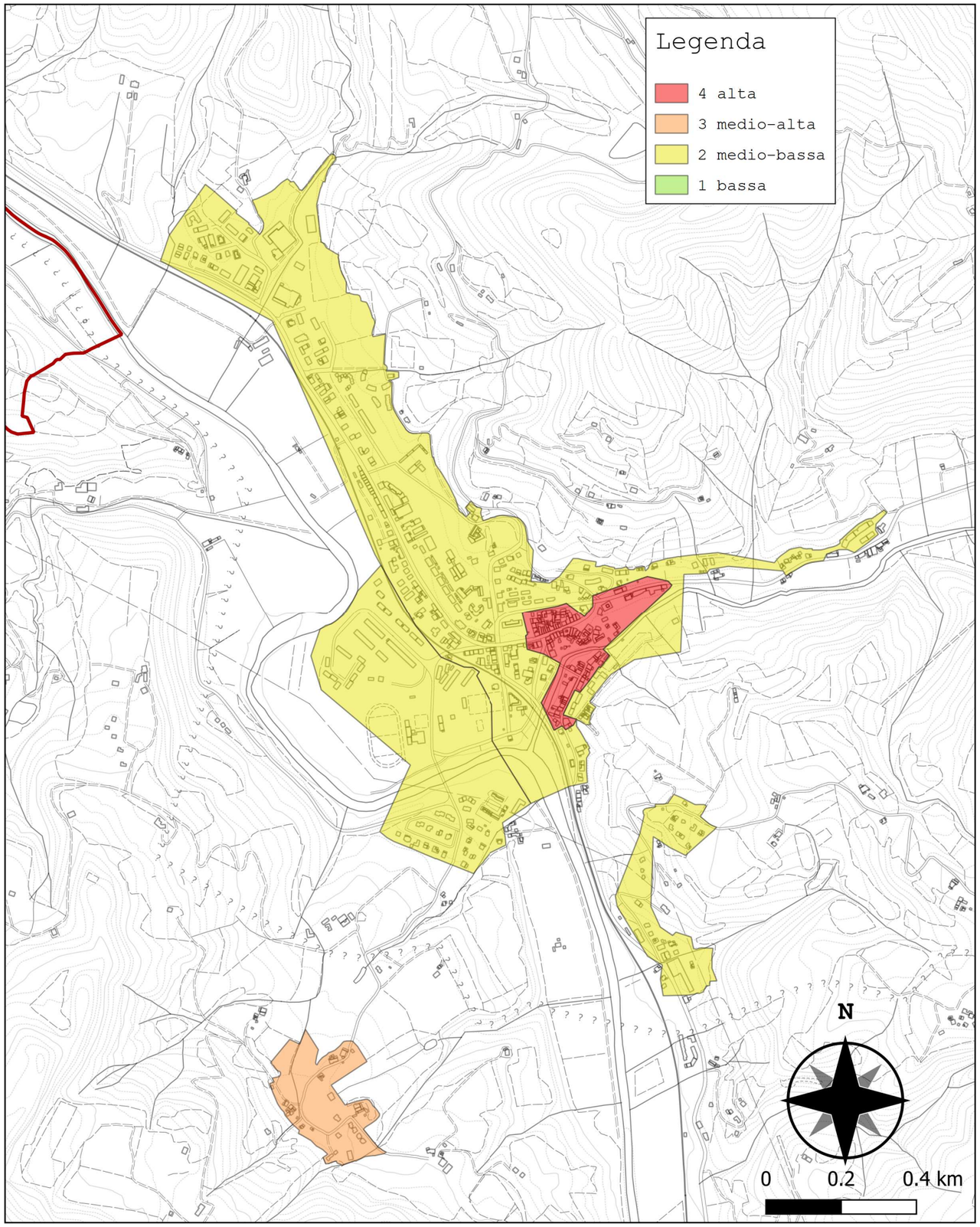


VULNERABILITÀ TIPOLOGIE EDILIZIE-Iv



DISTRIBUZIONE VULNERABILITÀ NEL COMPARTO-Iv

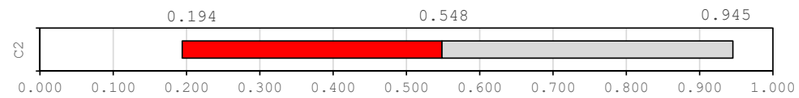




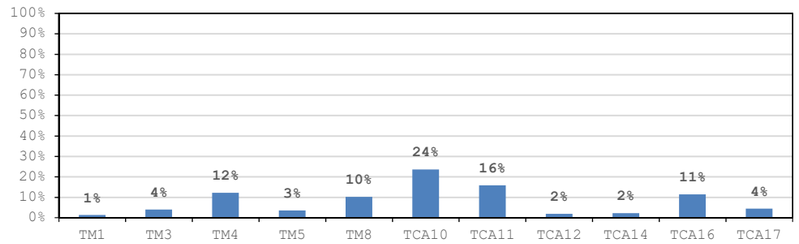
Comparto 2: *Dicomano esp. 1*

Tip. costruttiva	Numero	Vol. [m³]	Iv min	Iv medio	Iv max
TM1	12	6 401	0.779	0.857	0.885
TM3	38	18 816	0.696	0.772	0.885
TM4	38	57 885	0.776	0.829	0.945
TM5	16	16 638	0.577	0.613	0.617
TM7	54	28 987	0.501	0.555	0.581
TM8	29	48 571	0.581	0.637	0.661
TCA10	118	112 552	0.504	0.524	0.544
TCA11	27	75 568	0.524	0.544	0.584
TCA12	17	9 092	0.394	0.398	0.414
TCA14	5	10 266	0.344	0.358	0.364
TCA16	44	54 098	0.242	0.242	0.242
TCA17	7	21 066	0.262	0.262	0.262
tot.	**418**	**476 848**			

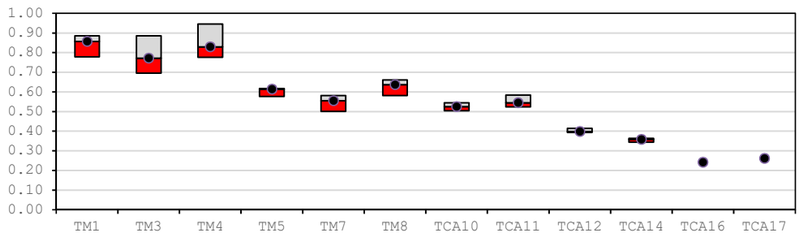
INTERVALLO DI VULNERABILITÀ COMPARTO



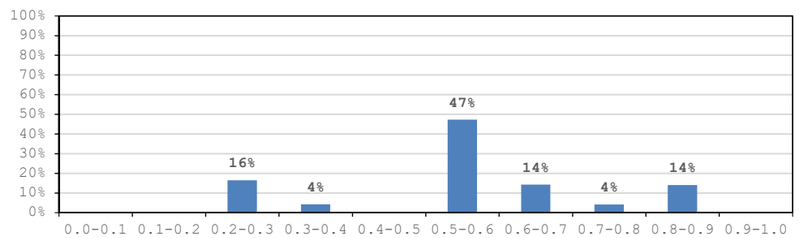
DISTRIBUZIONE TIPOLOGIE EDILIZIE



VULNERABILITÀ TIPOLOGIE EDILIZIE-Iv



DISTRIBUZIONE VULNERABILITÀ NEL COMPARTO-Iv



UNIONE DEI COMUNI MONTANI DEL MUGELLO

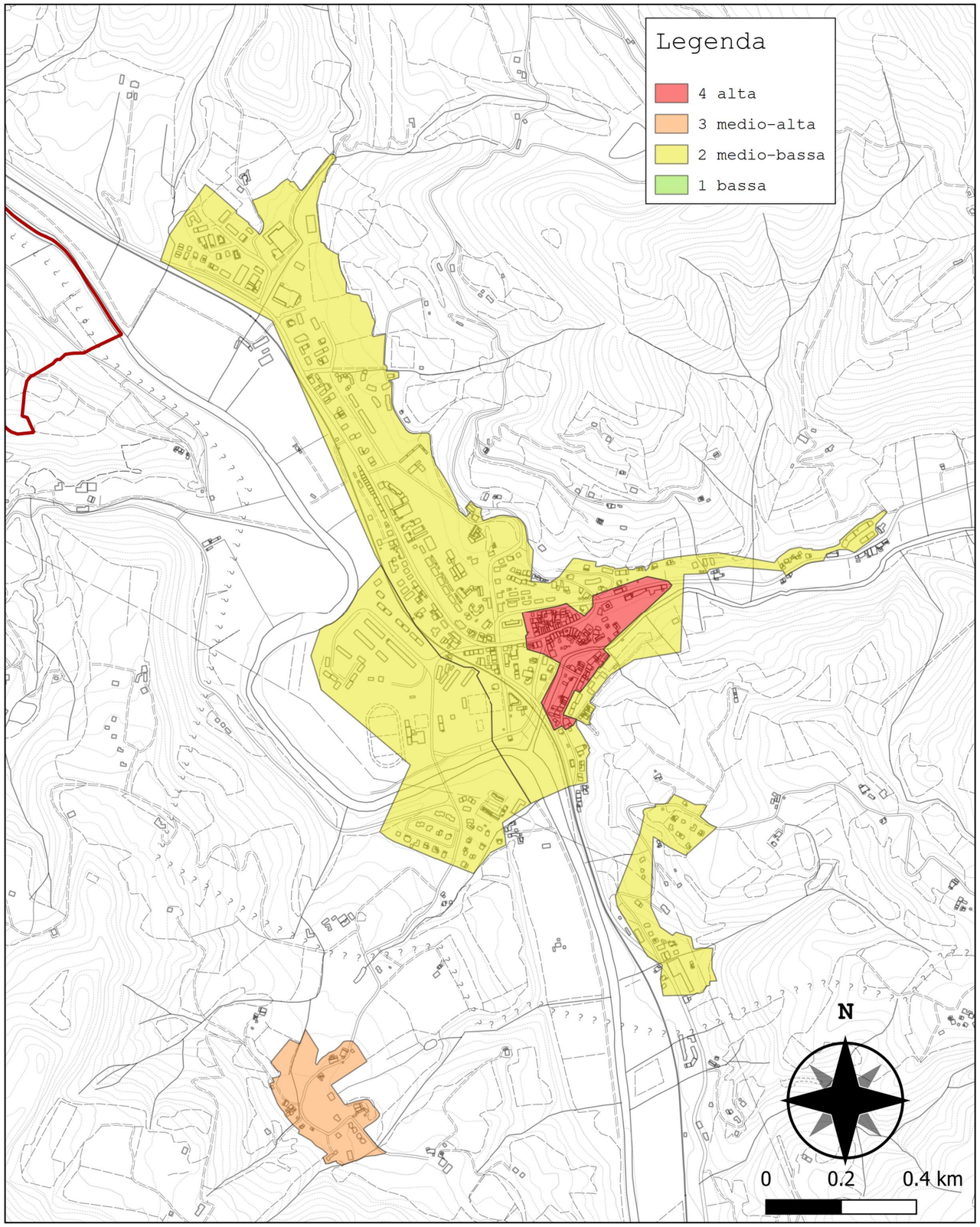
COMUNE DI DICOMANO

S2R S.r.l.
Spin Off dell'Università degli Studi di Firenze
Via Vittorio Emauele II, n. 161
50134 Firenze

OGGETTO
ANALISI DEL RISCHIO SISMICO A SCALA TERRITORIALE

ELABORATO
Analisi vulnerabilità comparto 2

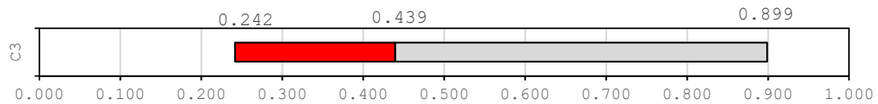
DATA: febbraio 2019



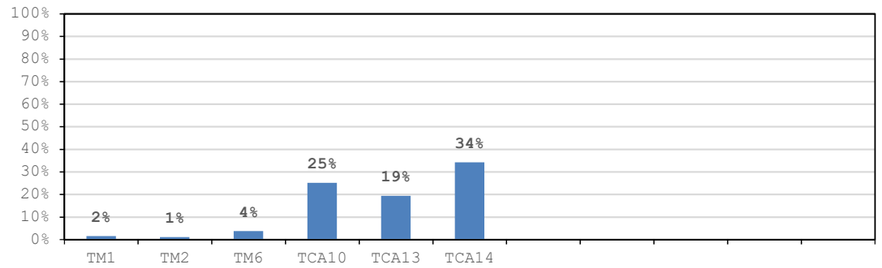
Comparto 3: *Dicomano esp. 2*

Tip. costruttiva	Numero	Vol. [m^3]	Iv $_{min}$	Iv $_{medio}$	Iv $_{max}$
TM1	4	2 142	0.819	0.861	0.879
TM2	1	1 401	0.899	0.899	0.899
TM6	2	5 099	0.697	0.697	0.697
TCA10	5	33 882	0.504	0.524	0.524
TCA12	20	19 280	0.394	0.400	0.414
TCA13	14	26 186	0.414	0.416	0.424
TCA14	51	46 191	0.344	0.349	0.364
tot.	**100**	**134 955**			

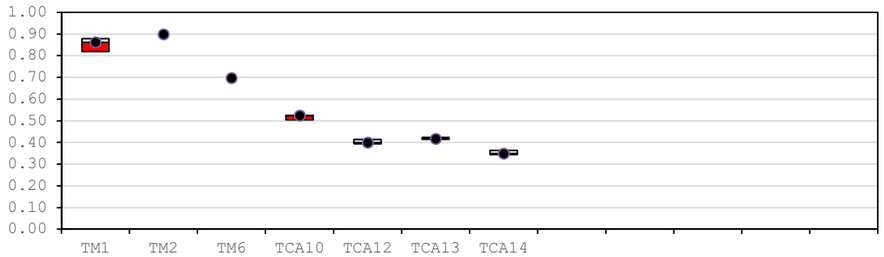
INTERVALLO DI VULNERABILITÀ COMPARTO



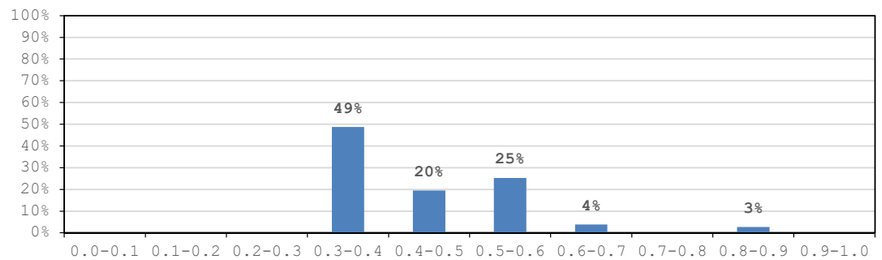
DISTRIBUZIONE TIPOLOGIE EDILIZIE

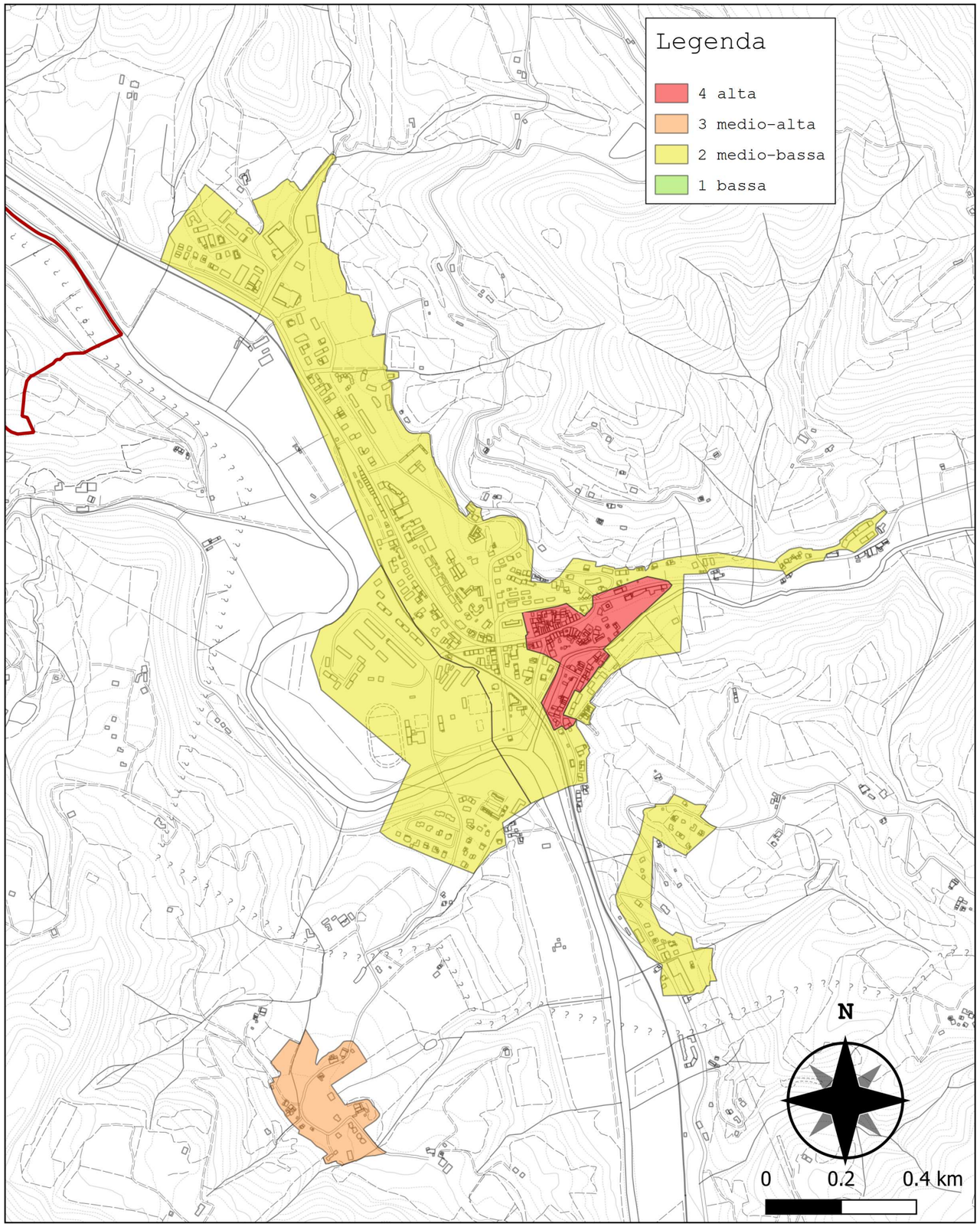


VULNERABILITÀ TIPOLOGIE EDILIZIE-Iv



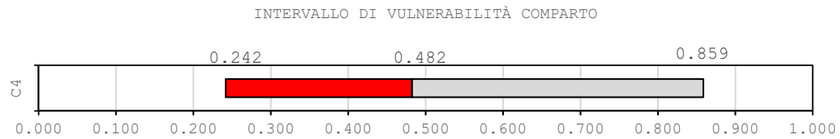
DISTRIBUZIONE VULNERABILITÀ NEL COMPARTO-Iv

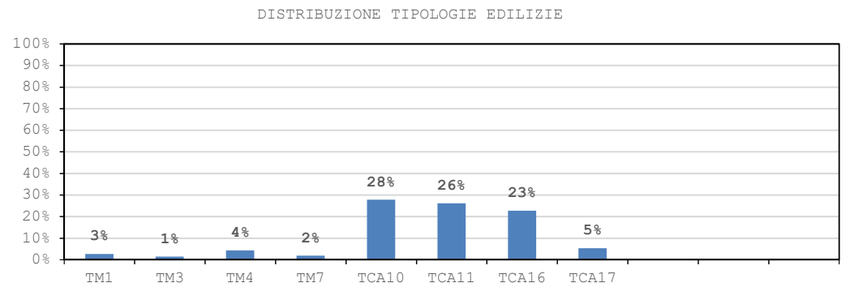


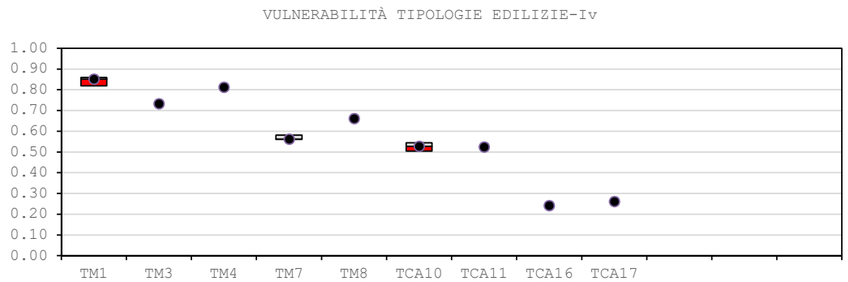


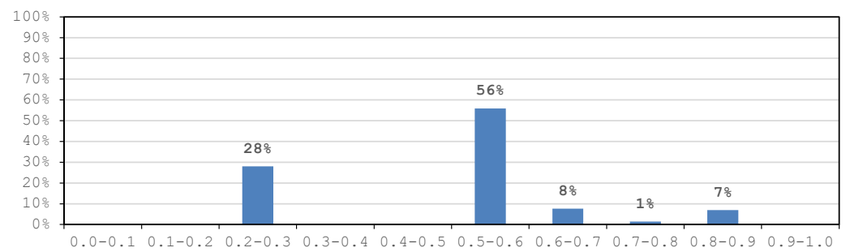
Comparto 4: *Piandrati*

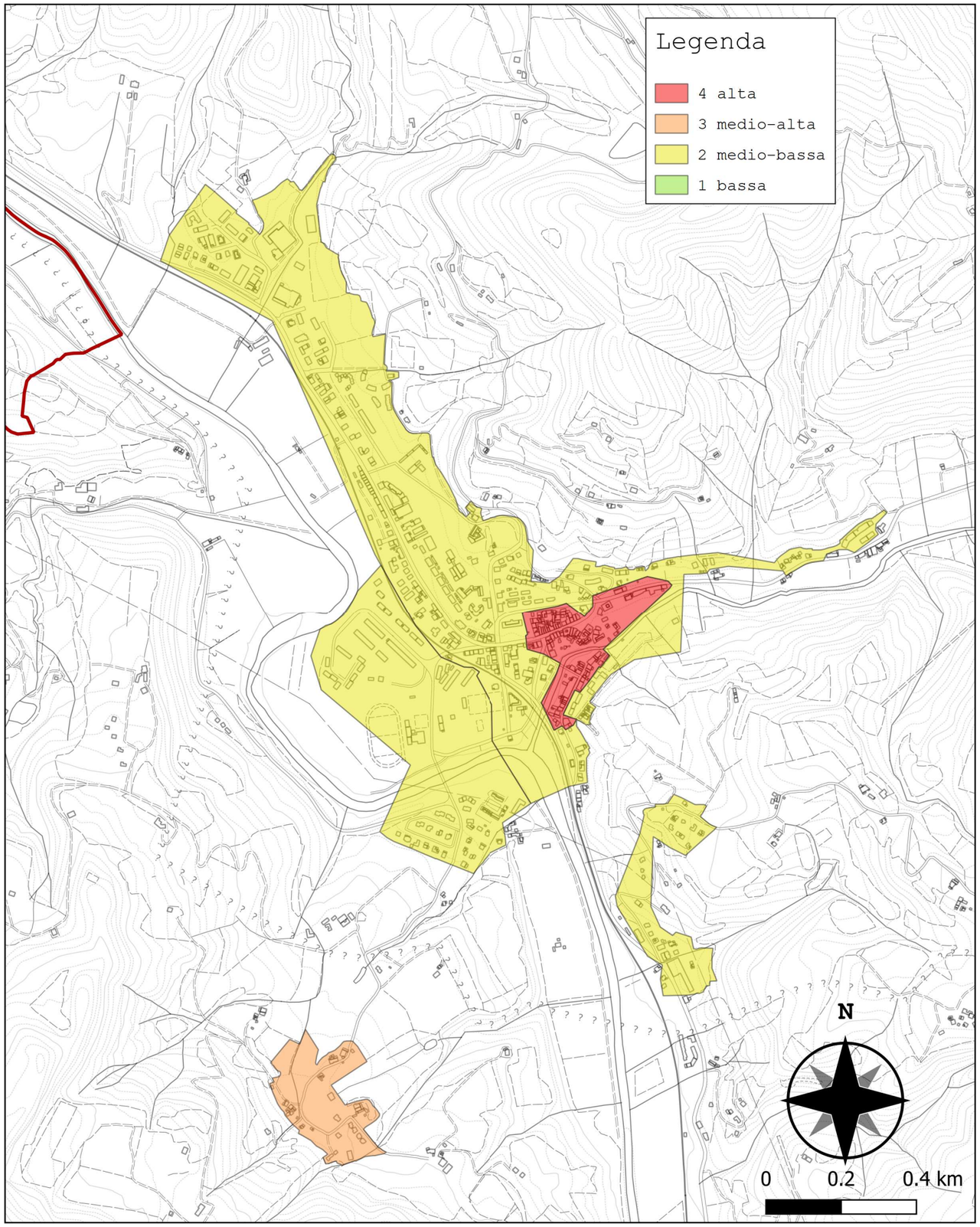
Tip. costruttiva	Numero	Vol. [m³]	Iv min	Iv medio	Iv max
TM1	2	822	0.819	0.851	0.859
TM3	1	455	0.732	0.732	0.732
TM4	1	1 337	0.812	0.812	0.812
TM7	3	589	0.561	0.562	0.581
TM8	4	2 355	0.661	0.661	0.661
TCA10	12	8 571	0.504	0.527	0.544
TCA11	2	8 052	0.524	0.524	0.524
TCA16	15	7 002	0.242	0.242	0.242
TCA17	2	1 620	0.262	0.262	0.262
tot.	**42**	**30 805**			





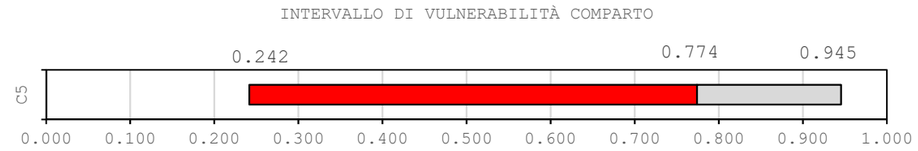


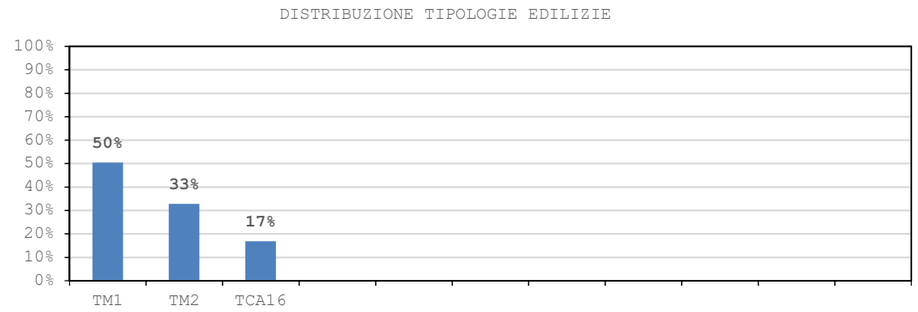


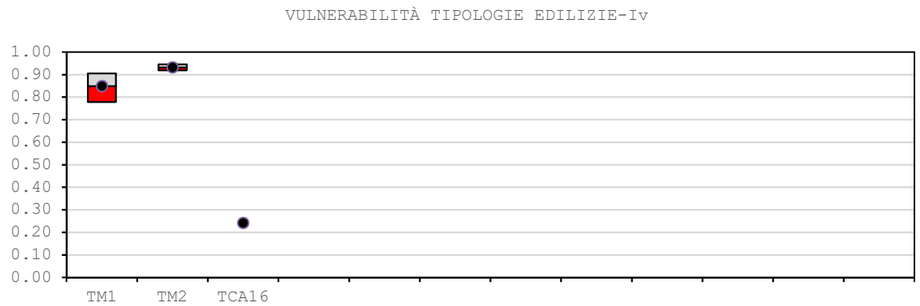


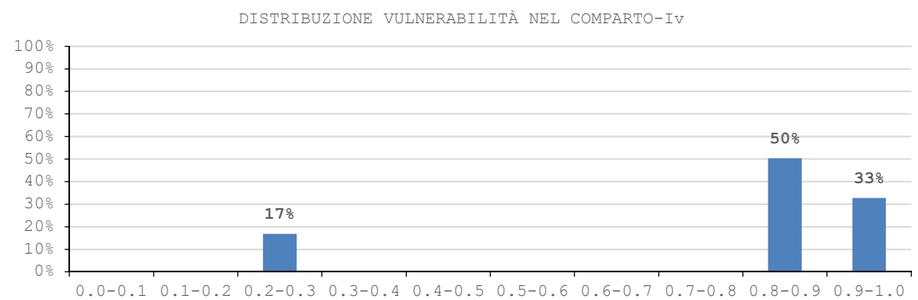
Comparto 5:	Celle

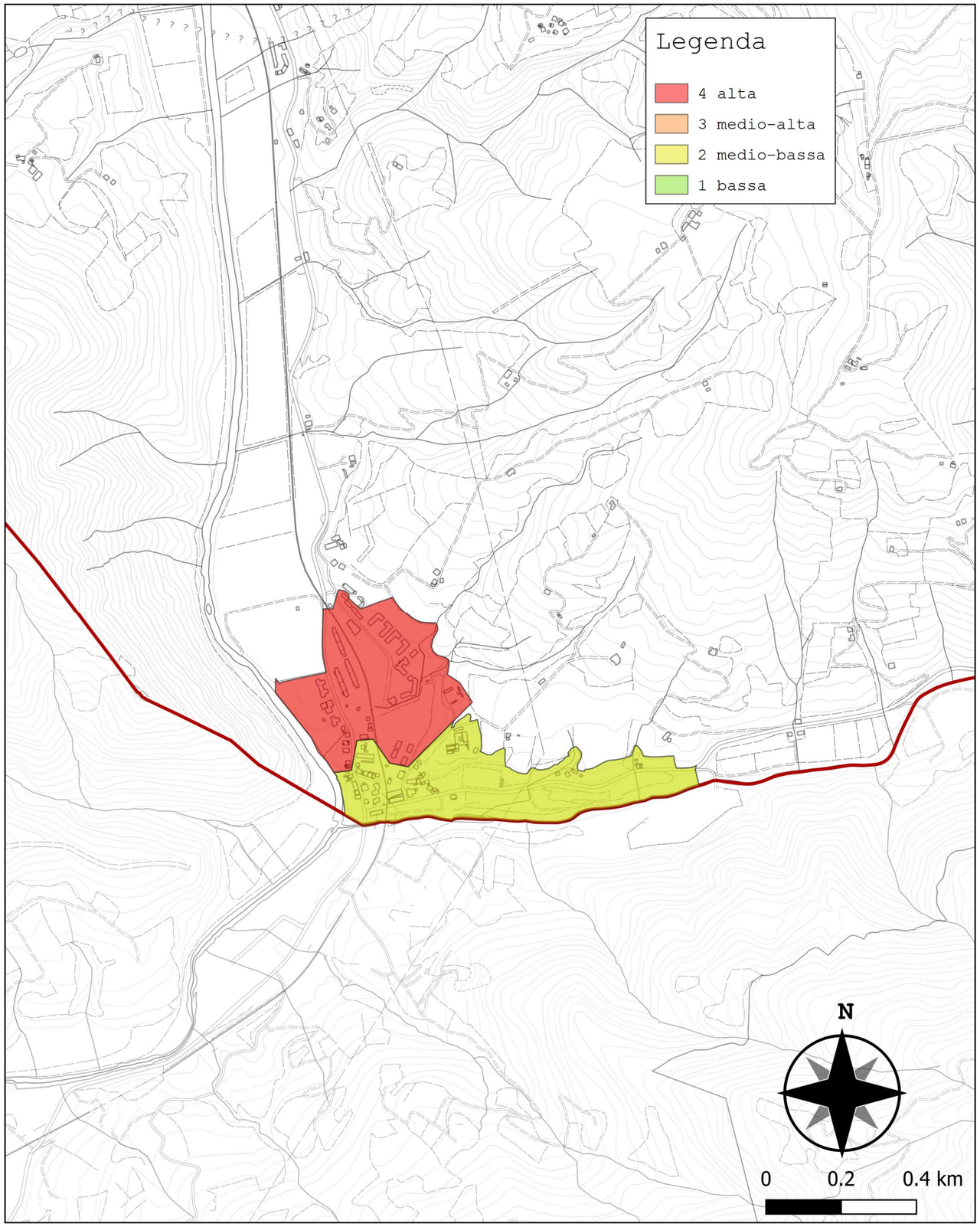
Tip. costruttiva	Numero	Vol. [m³]	Iv min	Iv medio	Iv max
TM1	28	12 290	0.779	0.849	0.905
TM2	8	8 005	0.919	0.932	0.945
TCA16	5	4 118	0.242	0.242	0.242
tot.	**41**	**24 413**			







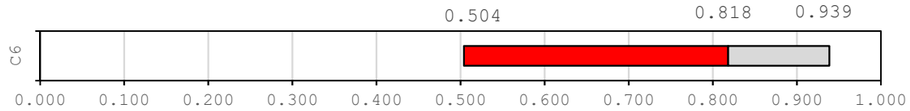




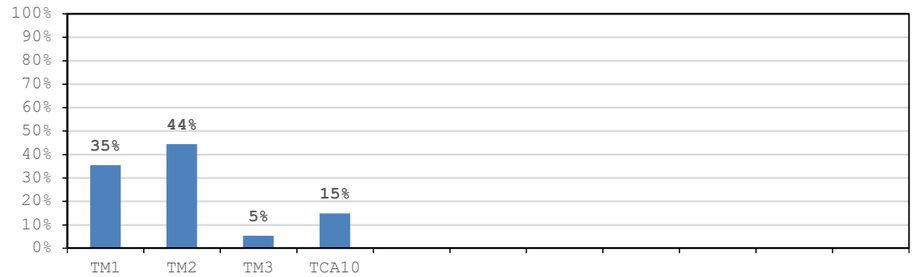
Comparto 6:	*Sandetole centro*

Tip. costruttiva	Numero	Vol. [m^3]	Iv_{min}	Iv_{medio}	Iv_{max}
TM1	34	18 969	0.779	0.833	0.879
TM2	10	23 834	0.859	0.915	0.939
TM3	8	2 865	0.736	0.761	0.776
TCA10	4	7 954	0.504	0.515	0.524
tot.	**56**	**53 623**			

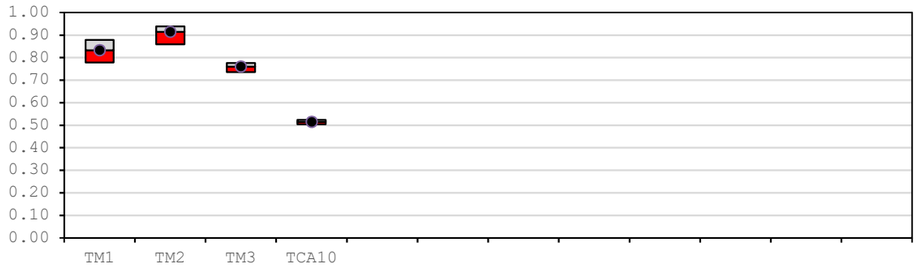
INTERVALLO DI VULNERABILITÀ COMPARTO



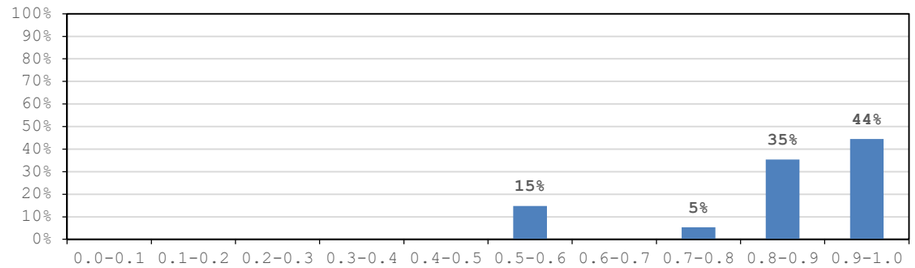
DISTRIBUZIONE TIPOLOGIE EDILIZIE

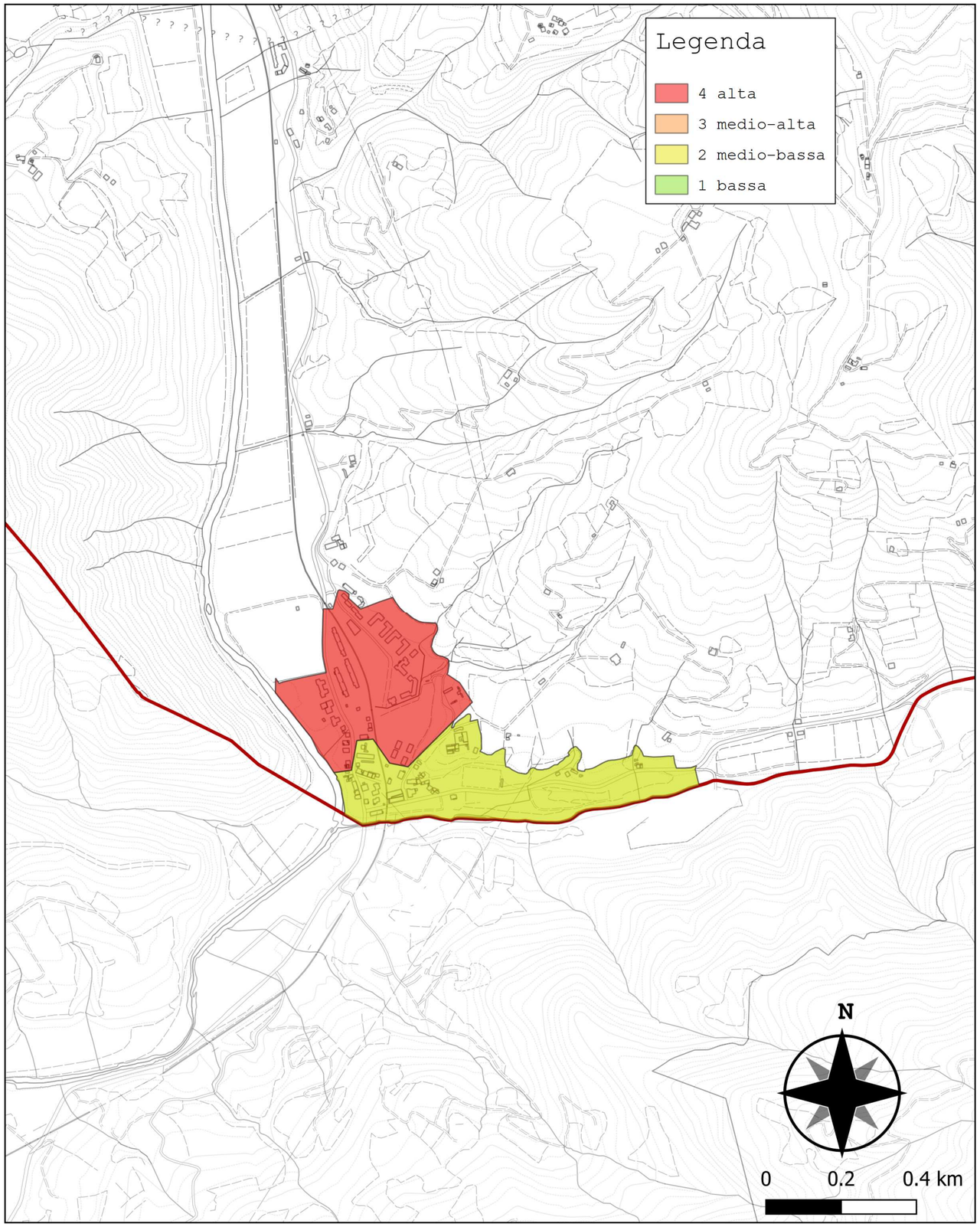


VULNERABILITÀ TIPOLOGIE EDILIZIE-Iv



DISTRIBUZIONE VULNERABILITÀ NEL COMPARTO-Iv

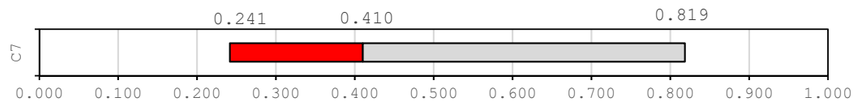




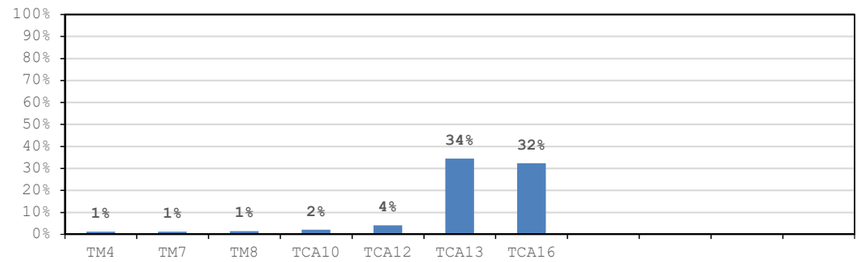
Comparto 7:	*Sandetole esp. 1*

Tip. costruttiva	Numero	Vol. [m^3]	Iv_{min}	Iv_{medio}	Iv_{max}
TM4	1	1 355	0.816	0.816	0.816
TM7	3	1 412	0.561	0.561	0.561
TM8	1	1 658	0.621	0.621	0.621
TCA10	5	2 412	0.504	0.522	0.524
TCA11	4	24 930	0.524	0.542	0.544
TCA12	2	4 581	0.394	0.394	0.394
TCA13	7	38 738	0.414	0.439	0.444
TCA16	11	36 332	0.241	0.241	0.241
tot.	**36**	**112 488**			

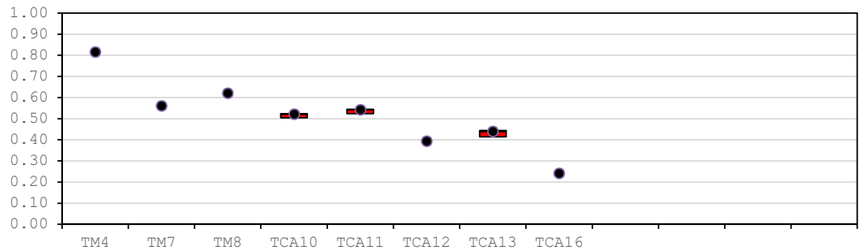
INTERVALLO DI VULNERABILITÀ COMPARTO



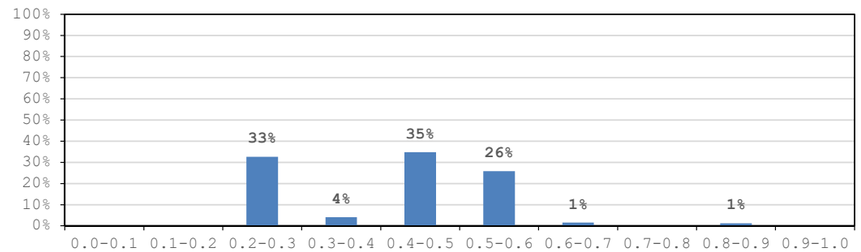
DISTRIBUZIONE TIPOLOGIE EDILIZIE

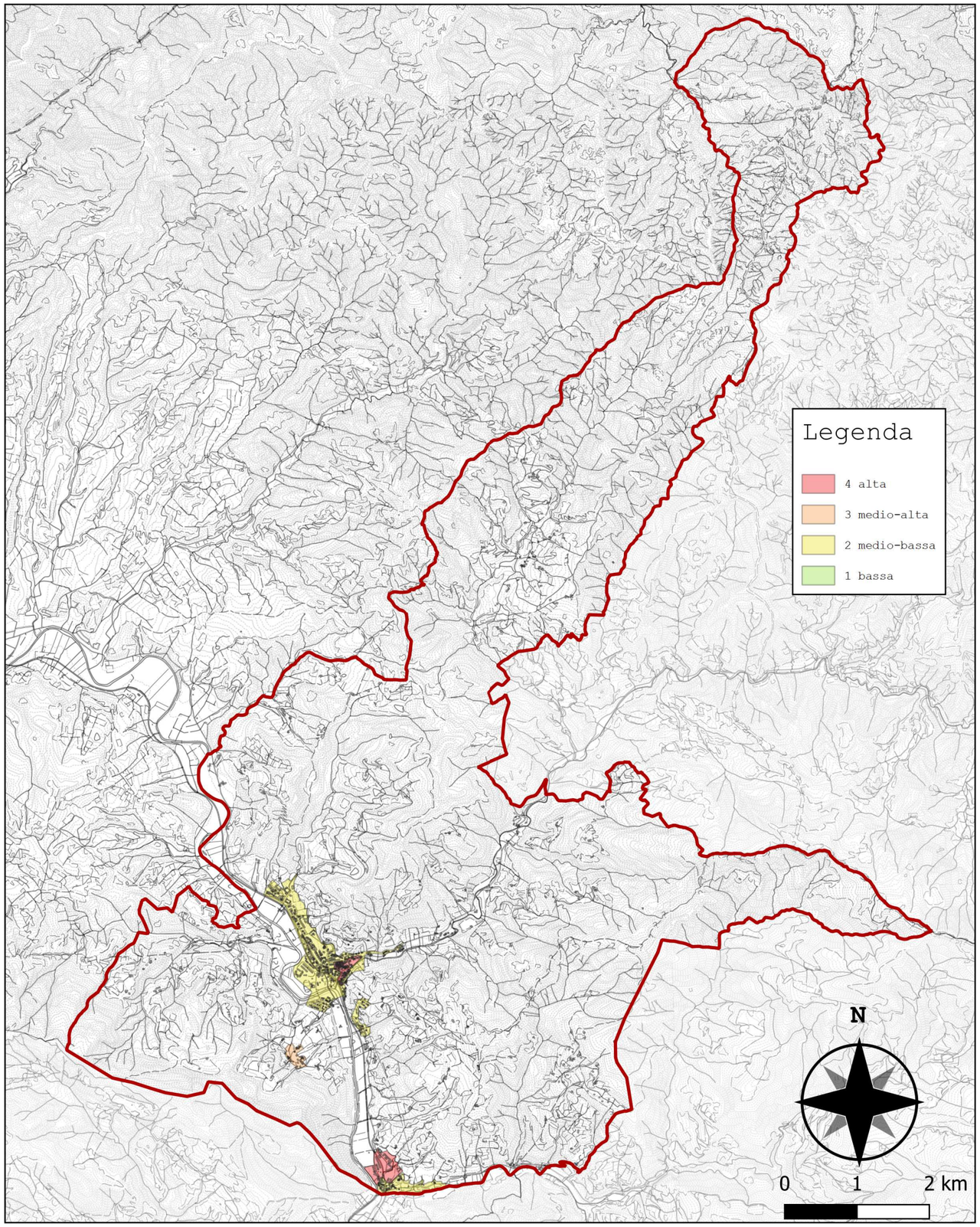


VULNERABILITÀ TIPOLOGIE EDILIZIE-Iv



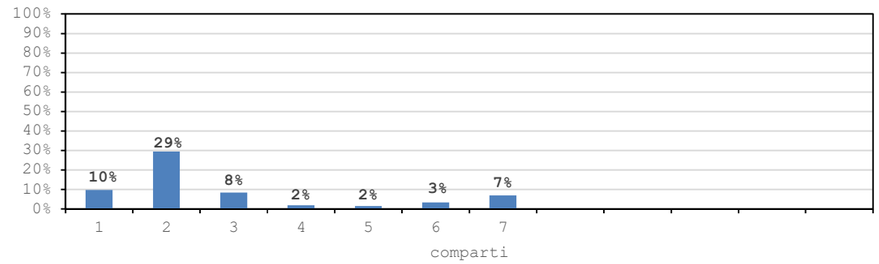
DISTRIBUZIONE VULNERABILITÀ NEL COMPARTO-Iv



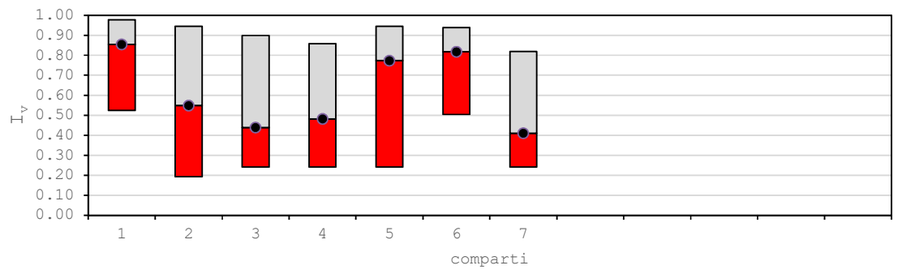


Comparto	Numero	Vol. [m^3]	Iv $_{min}$	Iv $_{medio}$	Iv $_{max}$	stdev	COV
1	149	156 835	0.524	0.854	0.979	0.126	0.147
2	418	476 848	0.194	0.548	0.945	0.173	0.316
3	100	134 955	0.242	0.439	0.899	0.123	0.281
4	42	30 805	0.242	0.482	0.859	0.194	0.402
5	41	24 413	0.242	0.774	0.945	0.214	0.277
6	56	53 623	0.504	0.818	0.939	0.099	0.121
7	36	112 488	0.241	0.410	0.819	0.168	0.409
tot.	**1 601**	**1 621 217**					

INCIDENZA DEI VOLUMI EDILIZI



VARIAZIONE DELLA VULNERABILITA' NEI COMPARTI



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OGGETTO
ANALISI DEL RISCHIO SISMICO A SCALA TERRITORIALE

ELABORATO
Riepilogo vulnerabilità comparti

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DATA:
febbraio 2019