

STATISTICAL ANNEX

THE COMMUNITY INNOVATION SURVEY AND THE INNOVATION PERFORMANCE OF ENTERPRISES FUNDED BY EU'S FRAMEWORK PROGRAMMES

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ANNEX 1: SAMPLE SIZE AND GEOGRAPHICAL COVERAGE OF CIS 2008, 2010 AND 2012

CIS edition	Countries available	Sample size	Of which: innovative enterprises funded by FP
CIS 2008	BG, CZ, DE, EE, IE, ES, FR, IT, CY, LV, LT, LU, HU, MT, NL, PT, RO, SI, SK, FI, SE, NO	168,875	1,783
CIS 2010	BG, CZ, DE, EE, IE, ES, FR, HR, IT, CY, LV, LT, LU, HU, NL, PT, RO, SI, SK, FI, SE, NO	162,015	1,629
CIS 2012	BG, CZ, DE, EE, ES, FR, HR, IT, CY, LV, LT, LU, HU, PT, RO, SI, SK, FI, SE, NO	143,669	1,807

ANNEX 2: INNOVATION PERFORMANCE, BY FP7 FUNDING AND SIZE OF ENTERPRISE

CIS 2008

Table 2.1 of NEWMKT by Size enterprise

Controlling for FUNRTD=0

NEWMKT by Size enterprise

Frequency Percent Row Pct. Col Pct.	Large	Micro	Small	Medium	Total
No new to the market innovations (NEWMKT)	2804	1220	8445	5500	17969
	8.95	3.89	26.94	17.55	57.33
	15.60	6.79	47.00	30.61	
	48.44	59.92	60.86	57.03	
Yes new to the market innovations (NEWMKT)	2985	816	5431	4144	13376
	9.52	2.60	17.33	13.22	42.67
	22.32	6.10	40.60	30.98	
	51.56	40.08	39.14	42.97	
Total	5789	2036	13876	9644	31345
	18.47	6.50	44.27	30.77	100.00

Frequency Missing = 33835

Statistics for Table 2.1 of NEWMKT by Size enterprise

Controlling for FUNRTD=0

Statistics	DF	Value	Prob
Chi-Square	3	263.8044	<.0001
Likelihood Ratio Chi-Square	3	262.1271	<.0001
Mantel-Haenszel Chi-Square	1	106.9670	<.0001
Phi Coefficient			0.0917
Contingency Coefficient			0.0914
Cramer's V			0.0917

Effective Sample Size = 31345

Frequency Missing = 33835

Table 2.2 of NEWMKT by SME2006

Controlling for FUNRTD=1

NEWMKT by Size enterprise

Frequency Percent Row Pct. Col Pct.	Large	Micro	Small	Medium	Total
No new to the market innovations (NEWMKT)	120	41	111	139	411
	7.78	2.66	7.19	9.01	26.64
	29.20	9.98	27.01	33.82	
	20.94	30.15	29.60	30.28	
Yes new to the market innovations (NEWMKT)	453	95	264	320	1132
	29.36	6.16	17.11	20.74	73.36
	40.02	8.39	23.32	28.27	
	79.06	69.85	70.40	69.72	
Total	573	136	375	459	1543
	37.14	8.81	24.30	29.75	100.00

Frequency Missing = 240

Statistics for Table 2.2 of NEWMKT by Size enterprise
Controlling for FUNRTD=1

Statistics	DF	Value	Prob
Chi-Square	3	15.1738	0.0017
Likelihood Ratio Chi-Square	3	15.5254	0.0014
Mantel-Haenszel Chi-Square	1	12.4560	0.0004
Phi Coefficient			0.0992
Contingency Coefficient			0.0987
Cramer's V			0.0992

Effective Sample Size = 1543
Frequency Missing = 240

Table 2.3 of NEWFRM by Size enterprise
Controlling for FUNRTD=0

NEWFRM by Size enterprise

Frequency Percent Row Pct. Col Pct.	Large	Micro	Small	Medium	Total
No new to the firm innovations (NEWFRM)	2287 7.30 16.60 39.82	785 2.51 5.70 38.54	6393 20.40 46.40 46.03	4314 13.77 31.31 44.64	13779 43.98
Yes new to the firm innovations (NEWFRM)	3457 11.03 19.69 60.18	1252 4.00 7.13 61.46	7496 23.92 42.70 53.97	5349 17.07 30.47 55.36	17554 56.02
Total	5744 18.33	2037 6.50	13889 44.33	9663 30.84	31333 100.00

Frequency Missing = 33847

Statistics for Table 2.3 of NEWFRM by Size enterprise
Controlling for FUNRTD=0

Statistics	DF	Value	Prob
Chi-Square	3	90.3349	<.0001
Likelihood Ratio Chi-Square	3	90.8562	<.0001
Mantel-Haenszel Chi-Square	1	50.6601	<.0001
Phi Coefficient			0.0537
Contingency Coefficient			0.0536
Cramer's V			0.0537

Effective Sample Size = 31333
Frequency Missing = 33847

Table 2.4 of NEWFRM by Size enterprise
Controlling for FUNRTD=1

NEWFRM by Size enterprise

Frequency Percent Row Pct. Col Pct.	Large	Micro	Small	Medium	Total
No new to the firm innovations (NEWFRM)	147	37	111	144	439
	9.66	2.43	7.30	9.47	28.86
	33.49	8.43	25.28	32.80	
	26.63	27.61	29.52	31.37	
Yes new to the firm innovations (NEWFRM)	405	97	265	315	1082
	26.63	6.38	17.42	20.71	71.14
	37.43	8.96	24.49	29.11	
	73.37	72.39	70.48	68.63	
Total	552	134	376	459	1521
	36.29	8.81	24.72	30.18	100.00

Frequency Missing = 262

Statistics for Table 2.4 of NEWFRM by Size enterprise
Controlling for FUNRTD=1

Statistics	DF	Value	Prob
Chi-Square	3	2.9294	0.4026
Likelihood Ratio Chi-Square	3	2.9286	0.4028
Mantel-Haenszel Chi-Square	1	2.9013	0.0885
Phi Coefficient			0.0439
Contingency Coefficient			0.0438
Cramer's V			0.0439

Effective Sample Size = 1521
Frequency Missing = 262

CIS 2010

Table 2.5 of NEWMKT by Size enterprise
Controlling for FUNRTD=0

NEWMKT by Size enterprise

Frequency Percent Row Pct. Col Pct.	Large	Micro	Small	Medium	Total
No new to the market innovations (NEWMKT)	3147	1415	14023	6482	25067
	8.59	3.86	38.27	17.69	68.41
	12.55	5.64	55.94	25.86	
	53.59	69.43	75.07	64.48	
Yes new to the market innovations (NEWMKT)	2725	623	4656	3571	11575
	7.44	1.70	12.71	9.75	31.59
	23.54	5.38	40.22	30.85	
	46.41	30.57	24.93	35.52	
Total	5872	2038	18679	10053	36642
	16.03	5.56	50.98	27.44	100.00

Frequency Missing = 28681

Statistics for Table 2.5 of NEWMKT by Size enterprise
Controlling for FUNRTD=0

Statistics	DF	Value	Prob
Chi-Square	3	1053.2137	
Likelihood Ratio Chi-Square	3	1031.9182	
Mantel-Haenszel Chi-Square	1	230.4529	
Phi Coefficient			0.1695
Contingency Coefficient			0.1672
Cramer's V			0.1695

Effective Sample Size = 36642
Frequency Missing = 28681

Table 2.6 of NEWMKT by Size enterprise
Controlling for FUNRTD=1

NEWMKT by Size enterprise

Frequency Percent Row Pct. Col Pct.	Large	Micro	Small	Medium	Total
No new to the market innovations (NEWMKT)	100 7.39 34.84 18.59	18 1.33 6.27 18.37	90 6.65 31.36 23.87	79 5.84 27.53 23.24	287 21.21
Yes new to the market innovations (NEWMKT)	438 32.37 41.09 81.41	80 5.91 7.50 81.63	287 21.21 26.92 76.13	261 19.29 24.48 76.76	1066 78.79
Total	538 39.76	98 7.24	377 27.86	340 25.13	1353 100.00

Frequency Missing = 276

Statistics for Table 2.6 of NEWMKT by SME2008
Controlling for FUNRTD=1

Statistics	DF	Value	Prob
Chi-Square	3	5.1218	0.1631
Likelihood Ratio Chi-Square	3	5.1463	0.1614
Mantel-Haenszel Chi-Square	1	4.1392	0.0419
Phi Coefficient			0.0615
Contingency Coefficient			0.0614
Cramer's V			0.0615

Effective Sample Size = 1353
Frequency Missing = 276

Table 2.7 of NEWFRM by Size enterprise
Controlling for FUNRTD=0

NEWFRM by Size enterprise

Frequency Percent Row Pct. Col Pct.	Large	Micro	Small	Medium	Total
No new to the market innovations (NEWMKT)	2606	1226	12209	5329	21370
	7.11	3.34	33.30	14.53	58.28
	12.19	5.74	57.13	24.94	
	44.65	59.92	65.23	52.92	
Yes new to the market innovations (NEWMKT)	3231	820	6508	4740	15299
	8.81	2.24	17.75	12.93	41.72
	21.12	5.36	42.54	30.98	
	55.35	40.08	34.77	47.08	
Total	5837	2046	18717	10069	36669
	15.92	5.58	51.04	27.46	100.00

Frequency Missing = 28654

Statistics for Table 2.7 of NEWFRM by Size enterprise
Controlling for FUNRTD=0

Statistics	DF	Value	Prob
Chi-Square	3	939.0170	<.0001
Likelihood Ratio Chi-Square	3	937.2191	<.0001
Mantel-Haenszel Chi-Square	1	121.6016	<.0001
Phi Coefficient			0.1600
Contingency Coefficient			0.1580
Cramer's V			0.1600

Effective Sample Size = 36669

Frequency Missing = 28654

Table 2.8 of NEWFRM by Size enterprise
Controlling for FUNRTD=1

NEWFRM by Size enterprise

Frequency Percent Row Pct. Col Pct.	Large	Micro	Small	Medium	Total
No new to the market innovations (NEWMKT)	122	22	136	106	386
	9.36	1.69	10.44	8.14	29.62
	31.61	5.7	35.23	27.46	
	25.05	22.45	36.17	30.99	
Yes new to the market innovations (NEWMKT)	365	76	240	236	917
	28.01	5.83	18.42	18.11	70.38
	39.8	8.29	26.17	25.74	
	74.95	77.55	69.83	69.01	
Total	487	98	376	342	1303
	37.38	7.52	28.86	26.25	100.00

Frequency Missing = 326

Statistics for Table 2.8 of NEWFRM by Size enterprise
Controlling for FUNRTD=1

Statistics	DF	Value	Prob
Chi-Square	3	15.3408	0.0015
Likelihood Ratio Chi-Square	3	15.3465	0.0015
Mantel-Haenszel Chi-Square	1	7.6642	0.0056
Phi Coefficient			0.1085
Contingency Coefficient			0.1079
Cramer's V			0.1085

Effective Sample Size = 1303
Frequency Missing = 326

CIS 2012

Table 2.9 of NEWMKT by Size enterprise
Controlling for FUNRTD=0

NEWMKT by Size enterprise

Frequency Percent Row Pct. Col Pct.	Large	Micro	Small	Medium	Total
No new to the market innovations (NEWMKT)	2394	777	6127	3941	13239
	10.24	3.32	26.20	16.85	56.62
	18.08	5.87	46.28	29.77	
	48.38	56.59	60.55	56.76	
Yes new to the market innovations (NEWMKT)	2554	596	3992	3002	10144
	10.92	2.55	17.07	12.84	43.38
	25.18	5.88	39.35	29.59	
	51.62	43.41	39.45	43.24	
Total	4948	1373	10119	6943	23383
	21.16	5.87	43.28	29.69	100.00

Frequency Missing = 28222

Statistics for Table 2.9 of NEWMKT by Size enterprise
Controlling for FUNRTD=0

Statistics	DF	Value	Prob
Chi-Square	3	200.3432	<.0001
Likelihood Ratio Chi-Square	3	199.4923	<.0001
Mantel-Haenszel Chi-Square	1	101.5438	<.0001
Phi Coefficient			0.0926
Contingency Coefficient			0.0922
Cramer's V			0.0926

Effective Sample Size = 23383
Frequency Missing = 28222

Table 2.10 of NEWMKT by Size enterprise

Controlling for FUNRTD=1

NEWMKT by Size enterprise

Frequency Percent Row Pct. Col Pct.	Large	Micro	Small	Medium	Total
No new to the market innovations (NEWMKT)	111	20	98	97	326
	7.32	1.32	6.46	6.39	21.49
	34.05	6.13	30.06	29.75	
	17.59	20.41	23.22	26.50	
Yes new to the market innovations (NEWMKT)	520	78	324	269	1191
	34.28	5.14	21.36	17.73	78.51
	43.66	6.55	27.20	22.59	
	82.41	79.59	76.78	73.50	
Total	631	98	422	366	1517
	41.60	6.46	27.82	24.13	100.00

Frequency Missing = 290

Statistics for Table 2.10 of NEWMKT by Size enterprise

Controlling for FUNRTD=1

Statistics	DF	Value	Prob
Chi-Square	3	11.9552	0.0075
Likelihood Ratio Chi-Square	3	11.9467	0.0076
Mantel-Haenszel Chi-Square	1	11.9319	0.0006
Phi Coefficient			0.0888
Contingency Coefficient			0.0884
Cramer's V			0.0888

Effective Sample Size = 1517

Frequency Missing = 290

Table 2.11 of NEWFRM by Size enterprise

Controlling for FUNRTD=0

NEWFRM by Size enterprise

Frequency Percent Row Pct. Col Pct.	Large	Micro	Small	Medium	Total
No new to the market innovations (NEWMKT)	1689	613	4486	2666	9454
	7.26	2.63	19.27	11.45	40.62
	17.87	6.48	47.45	28.20	
	35.14	44.55	44.21	38.39	
Yes new to the market innovations (NEWMKT)	3118	763	5662	4278	13821
	13.40	3.28	24.33	18.38	59.38
	22.56	5.52	40.97	30.95	
	64.86	55.45	55.79	61.61	
Total	4807	1376	10148	6944	23275
	20.65	5.91	43.60	29.83	100.00

Frequency Missing = 28330

Statistics for Table 2.11 of NEWFRM by Size enterprise
Controlling for FUNRTD=0

Statistics	DF	Value	Prob
Chi-Square	3	137.1157	<.0001
Likelihood Ratio Chi-Square	3	137.6763	<.0001
Mantel-Haenszel Chi-Square	1	15.6596	<.0001
Phi Coefficient			0.0768
Contingency Coefficient			0.0765
Cramer's V			0.0768

Effective Sample Size = 23275
Frequency Missing = 28330

Table 2.12 of NEWFRM by Size enterprise
Controlling for FUNRTD=1

NEWFRM by Size enterprise

Frequency Percent Row Pct. Col Pct.	Large	Micro	Small	Medium	Total
No new to the market innovations (NEWMKT)	151 10.69 32.13 28.98	26 1.84 5.53 26.80	179 12.67 38.09 41.92	114 8.07 24.26 30.98	470 33.26
Yes new to the market innovations (NEWMKT)	370 16.19 39.24 71.02	71 5.02 7.53 73.20	248 17.55 26.30 28.08	254 17.98 26.94 29.02	943 66.74
Total	521 26.87	97 6.86	427 30.22	368 26.04	1413 100.00

Frequency Missing = 394

Statistics for Table 2.12 of NEWFRM by Size enterprise
Controlling for FUNRTD=1

Statistics	DF	Value	Prob
Chi-Square	3	21.4051	<.0001
Likelihood Ratio Chi-Square	3	21.0676	0.0001
Mantel-Haenszel Chi-Square	1	3.8122	0.0509
Phi Coefficient			0.1231
Contingency Coefficient			0.1222
Cramer's V			0.1231

Effective Sample Size = 1413
Frequency Missing = 394

ANNEX 3: SIZE OF ENTERPRISE, FP7 FUNDING AND TURNOVER (ANOVAS)

CIS 2008

DEPENDENT VARIABLE: TURNMAREUR

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	1.8941903E19	2.7059861E18	302.96	<.0001
Error	63170	5.6422998E20	8.9319293E15		
Corrected Total	63177	5.8317188E20			

R-Square	Coeff Var	Root MSE	TURNMAREUR Mean
0.032481	2048.310	94508885	4613992

Source	DF	Anova SS	Mean Square	F Value	Pr > F
FUNRTD	1	6.4069986E18	6.4069986E18	717.31	<.0001
Size enterprise	3	5.6202819E18	1.8734273E18	209.74	<.0001
Size enterprise*FUNRTD	3	6.9146223E18	2.3048741E18	258.05	<.0001

DEPENDENT VARIABLE: TURNINEUR

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	2.8763863E19	4.1091232E18	225.89	<.0001
Error	63160	1.1489497E21	1.8191098E16		
Corrected Total	63167	1.1777136E21			

R-Square	Coeff Var	Root MSE	TURNINEUR Mean
0.024423	2205.897	134874378	6114266

Source	DF	Anova SS	Mean Square	F Value	Pr > F
FUNRTD	1	9.8077852E18	9.8077852E18	539.15	<.0001
Size enterprise	3	9.3100012E18	3.1033337E18	170.60	<.0001
Size enterprise*FUNRTD	3	9.6460764E18	3.2153588E18	176.75	<.0001

DEPENDENT VARIABLE: TOTTURNEUR

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	9.5819488E19	3.688498E19	322.11	<.0001
Error	62979	2.6763398E21	4.249575E16		
Corrected Total	62986	2.7721593E21			

R-Square	Coeff Var	Root MSE	TOTTURNEUR Mean
0.034565	1923.136	206144973	10719209

Source	DF	Anova SS	Mean Square	F Value	Pr > F
FUNRTD	1	3.2758978E19	3.2758978E19	770.88	<.0001
Size enterprise	3	2.9457234E19	9.8190781E18	231.06	<.0001
Size enterprise*FUNRTD	3	3.3603277E19	1.1201092E19	263.58	<.0001

CIS 2010

DEPENDENT VARIABLE: TURNMAREUR

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	1.8307953E19	2.6154218E18	138.14	<.0001
Error	37755	7.1479736E20	1.8932522E16		
Corrected Total	37762	7.3310531E20			

R-Square	Coeff Var	Root MSE	TURNMAREUR Mean
0.024973	1700.053	137595501	8093601

Source	DF	Anova SS	Mean Square	F Value	Pr > F
FUNRTD	1	5.1909781E18	5.1909781E18	274.18	<.0001
Size enterprise	3	9.3319728E18	3.1106576E18	164.30	<.0001
Size enterprise*FUNRTD	3	3.7850018E18	1.2616673E18	66.64	<.0001

DEPENDENT VARIABLE: TURNINEUR

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	5.0134488E19	7.1620697E18	107.30	<.0001
Error	37968	2.5342568E21	6.6747177E16		
Corrected Total	37975	2.5843913E21			

R-Square	Coeff Var	Root MSE	TURNINEUR Mean
0.019399	2438.335	258354750	10595538

Source	DF	Anova SS	Mean Square	F Value	Pr > F
FUNRTD	1	1.7011325E19	1.7011325E19	254.86	<.0001
Size enterprise	3	1.6118361E19	5.372787E18	80.49	<.0001
Size enterprise*FUNRTD	3	1.7004802E19	5.6682673E18	84.92	<.0001

DEPENDENT VARIABLE: TOTTURNEUR

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	1.2961167E20	1.8515953E19	133.68	<.0001
Error	37480	5.1913988E21	1.3851117E17		
Corrected Total	37487	5.3210105E21			

R-Square	Coeff Var	Root MSE	TOTTURNEUR Mean
0.024358	2008.598	372170894	18528889

Source	DF	Anova SS	Mean Square	F Value	Pr > F
FUNRTD	1	4.2257614E19	4.2257614E19	305.08	<.0001
Size enterprise	3	4.8902952E19	1.6300984E19	117.69	<.0001
Size enterprise*FUNRTD	3	3.8451105E19	1.2817035E19	92.53	<.0001

CIS 2012

DEPENDENT VARIABLE: TURNMAREUR

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	2.1578532E19	3.0826474E18	133.71	<.0001
Error	24362	5.6166144E20	2.3054816E16		
Corrected Total	24369	5.8323997E20			

R-Square	Coeff Var	Root MSE	TURNMAREUR Mean
0.036998	1443.158	151838126	10521238

Source	DF	Anova SS	Mean Square	F Value	Pr > F
FUNRTD	1	6.3917048E18	6.3917048E18	277.24	<.0001
Size enterprise	3	8.1592757E18	2.7197586E18	117.97	<.0001
Size enterprise*FUNRTD	3	7.0275511E18	2.342517E18	101.61	<.0001

DEPENDENT VARIABLE: TURNINEUR

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	4.7428265E19	6.7754664E18	81.38	<.0001
Error	24335	2.0260066E21	8.3254843E16		
Corrected Total	24342	2.0734349E21			

R-Square	Coeff Var	Root MSE	TURNINEUR Mean
0.022874	1846.946	28853915	15622500

Source	DF	Anova SS	Mean Square	F Value	Pr > F
FUNRTD	1	1.3581914E19	1.3581914E19	163.14	<.0001
Size enterprise	3	1.8132415E19	6.0441382E18	72.60	<.0001
Size enterprise*FUNRTD	3	1.5713936E19	5.2379788E18	62.92	<.0001

DEPENDENT VARIABLE: TOTTURNEUR

Source	DF	Sum of Squares	Mean Square	F Value	Pr > F
Model	7	1.3523187E20	1.9318838E19	117.03	<.0001
Error	24090	3.9765367E21	1.6507002E17		
Corrected Total	24097	4.1117686E21			

R-Square	Coeff Var	Root MSE	TOTTURNEUR Mean
0.032889	1546.241	406288096	26275861

Source	DF	Anova SS	Mean Square	F Value	Pr > F
FUNRTD	1	3.9526761E19	3.9526761E19	239.45	<.0001
Size enterprise	3	5.1188825E19	1.7062942E19	103.37	<.0001
Size enterprise*FUNRTD	3	4.4516283E19	1.4838761E19	89.89	<.0001