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2015

1. 2011-2012 2013.04
2. 2012-2013 2013.12
3. 2013-2014 2014.12
4. 2014-2015 2015.12
5. 2012 2012
6. 2013 2013
7. 2014 2014
8. 2015 2015
9. 2015 2015
10. “ ” 55 -78 2012-2015
11. 2012.09
12. (2010-2020) 2010.06
13. (2010-2020) 2010.10
14. · 2016.10
15. 2006.07

2016 10

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2016 6 25

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2016 6 19 20

79 42

174 13 19

67 8

2015 13407 1800 (

599) 10251 4810

1560 35 440 23

28.21% 2.15

222

25 197 24

171 2559

13097 710

681.4 6%

“985 ” “211 ”

2016 16943 2884

4384 505 3751

630 4.50:1

2016 270

442 75 4384 15.8%

13407 1226
1800 118 10251 4810

15 40 1590 13
2310 2227 3.70%
1000
1895 2015 433
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2016 10 “ ” 376
23 TED 10 60

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“FALL IN
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2916 566 81.23% 80.70%

2015 9 2015 99.04% 2014
97.89%

18.02% 0.93% 14.89% 0.93%

5 4
1 25 18 7

409 55
79 1
330

2016 7 415
190 191 9
6 19
2016 6 1471 861

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Ö 7 پ 1 שׁ ĩ 509 ɼ

93 پ Ū 119 Ö 215 ɼ

س ˉ ⁵ پ

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41.7% ɼ “985” ɼ “211” 448 2015 175 ɼ

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020200		11.03-		080100		00.12-	
020201	1	11.03-		080101	45	00.12-	
020202	2	11.03-		080102	46	84.01-	
020203	3	11.03-		080103	47	93.12-	
020204	4	11.03-		080104	48	00.12-	
020205	5	11.03-		080500		11.03-	
020206	6	11.03-		080501	49	11.03-	
020207	7	11.03-		080502	50	98.06-	
020208	8	11.03-		080503	51	11.03-	
020209	9	11.03-		080600		11.03-	
020210	10	11.03-		080601	52	11.03-	
030300		11.03-		080602	53	93.12-	
030301	11	00.12-		080603	54	11.03-	
030302	12	11.03-		080904	55	81.11-	
030303	13	06.01-		081000		03.09-	
030304	14	11.03-		081001	56	98.06-	
050100		11.03-		081002	57	03.09-	
050101	15	11.03-		081203	58	06.01-	
050102	16	11.03-		080200		03.09-	

050103	17	11.03-		080201	59	00.12-	
050104	18	11.03-		080202	60	98.06-	
050105	19	06.01-		080203	61	90.11-	
050106	20	03.09-		080204	62	03.09-	
050107	21	11.03-		080804	63	03.09-	

020101	9	06.01-		080103	106	84.01-	
020102	10	11.03-		080104	107	00.12-	
020103	11	11.03-		080200		03.09-	
020104	12	11.03-		080201	108	81.11-	
020105	13	03.09-		080202	109	93.12-	
020106	[14]	11.03-		080203	110	81.11-	
020200		06.01-		080204	111	03.09-	
020201	15	06.01-		080400		06.01-	
020202	16	06.01-		080401	112	84.01-	
020203	17	06.01-		080402	113	81.11-	
020204	18	98.06-		080500		06.01-	
020205	19	96.06-		080501	114	90.11-	
020206	20	96.06-		080502	115	86.07-	
020207	21	06.01-		080503	116	86.07-	
020209	22	06.01-		080600		11.03-	
020210	23	06.01-		080601	117	11.03-	
030100		11.03-		080602	118	84.01-	
030101	24	03.09-		080603	119	86.07-	
030102	25	11.03-		080800		11.03-	
030103	26	98.06-		080801	120	81.11-	
030104	27	99.12-		080802	121	11.03-	
030105	28	06.01-		080803	122	11.03-	
030106	29	11.03-		080804	123	86.07-	
030107	30	11.03-		080805	124	86.07-	
030108	31	11.03-		080900		11.03-	
030109	32	11.03-		080901	125	11.03-	
030110	33	11.03-		080902	126	84.01-	
030300		06.01-		080903	[127]	93.12-	
030301	34	96.06-		080904	128	81.11-	
030302	35	06.01-		081000		03.09-	
030303	36	03.09-		081001	129	81.11-	
030304	37	03.09-		081002	130	96.06-	
030500		06.01-		081100		06.01-	
030501	38	00.12-		081101	131	81.11-	
030502	39	06.01-		081102	[132]	96.06-	
030503	[40]	06.01-		081103	133	06.01-	
030504	[41]	06.01-		081104	134	06.01-	
030505	42	00.12-		081105	135	06.01-	
030506	[43]	2008		081200		06.01-	
050100		06.01-		081201	136	96.06-	
050101	44	03.09-		081202	137	86.07-	
050102	[45]	06.01-		081400		06.01-	
050103	46	00.12-		081401	138	03.09-	
050104	47	06.01-		081402	139	00.12-	
050105	48	00.12-		081403	140	06.01-	
050106	49	98.06-		081404	[141]	06.01-	
050107	[50]	06.01-		081405	[142]	06.01-	
050108	[51]	06.01-		081406	143	06.01-	
050200		11.03-		081700		06.01-	
050201	52	00.12-		081701	144	06.01-	
050202	53	11.03-		081702	145	03.09-	
050203	54	11.03-		081703	146	96.06-	
050204	55	11.03-		081704	147	81.11-	
050205	56	11.03-		081705	148	06.01-	

050206	57	11.03-		082700		11.03-	
050207	[58]	11.03-		082701	149	11.03-	
050208	[59]	11.03-		082702	150	11.03-	
050209	60	11.03-		082703	151	06.01-	
050210	61	11.03-		082704	152	11.03-	
050211	[62]	99.12-		083000		06.01-	
050300		06.01-		083001	153	03.09-	
050301	63	03.09-		083002	154	93.12-	
050302	64	00.12-		083100		06.01-	
060200		11.08-		083100	155	86.07-	
060201	[65]	06.01-		083201	156	00.12-	
060202	66	06.01-		083500		11.08-	
060203	67	06.01-		083500	157	11.08-	
060204	68	98.06-		120100		06.01-	
060205	69	03.09-		120100	158	90.11-	
060206	70	03.09-		120200		06.01-	
060300		11.08-		120201	159	96.06-	
060300	71	06.01-		120202	160	03.09-	

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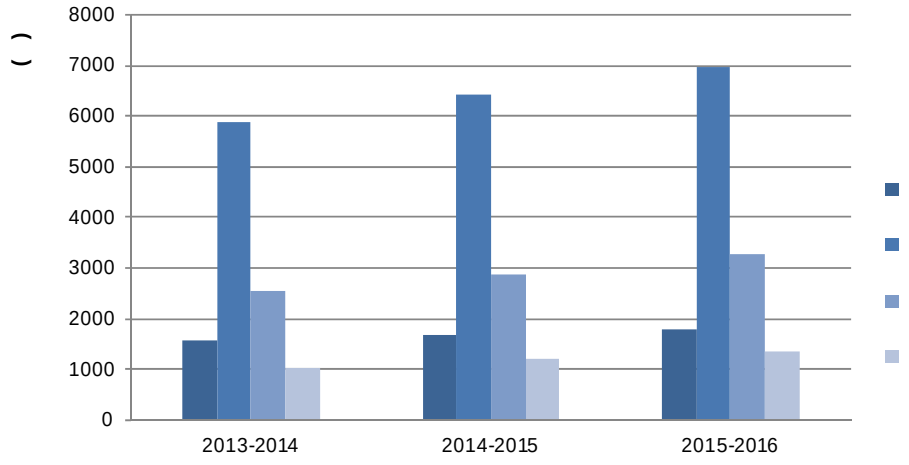

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2-6 2015 ↕ ‴ ɾ

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	5130	5956	40		3	286	9
	3998	5672	2		1	237	7
	1132	284	38		2	49	2

2015 2015 9

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		5000 10000	10	10
		20000 219 30000 53	272	597
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		20000 1000	2	2
4			**517**	**637.5**

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SANDVIK		15000 10000	4	4.5
		8000	3	2.4
SSAB		5000 4 1	5	2.5
		3000 1500 1000	11	1.5
		2000	5	1
		1500 1000	13	1.45
		6000 3000	5	2.1
		500—1000	10	1
		800 500	13	0.8
		1000	5	0.5
		5000 3000 1000	8	1.6
		3000 2000 1000	9	1.5
		2000 1000	9	1
		3000 2000	11	2.4
		10000 6000	6	4
		1500 3000	13	2.1
		3000 2000	10	2.2
		2000 1000 500	22	1.8
		5000 3500 2000	13	3.5
		2000	2	0.4
		2000	5	1
17			**182**	**39.25**

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		/		
“ ”		7000	5	3.5
		1500	1	0.15
		2000	5	1
3			**11**	**4.65**

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		1500-1900/	746	1342.76
		500/	12351	4837.94
		300-480/	4163	138.5541
		300-500/	1263	37.23
5			**18523**	**6356.484**

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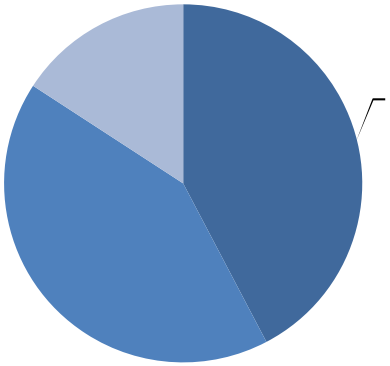

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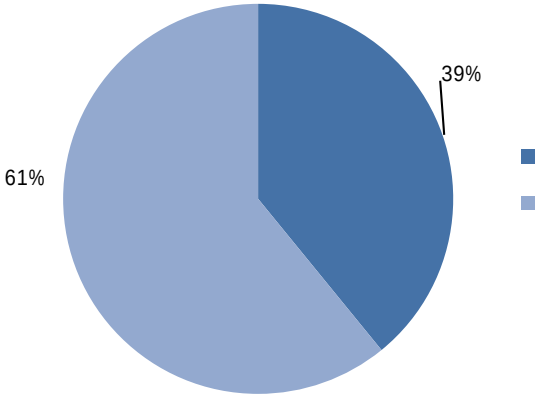

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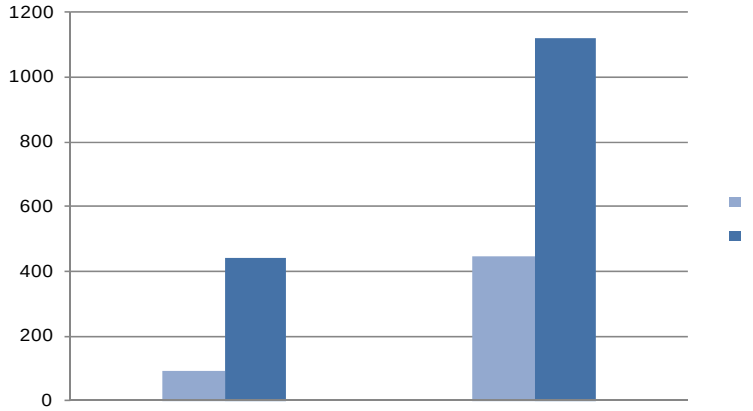
ϐ ʅ I 28.21% ɾ 2-4 ɾ



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	440	1800	4.09
	1120	10251	9.15
	1560	12051	7.73

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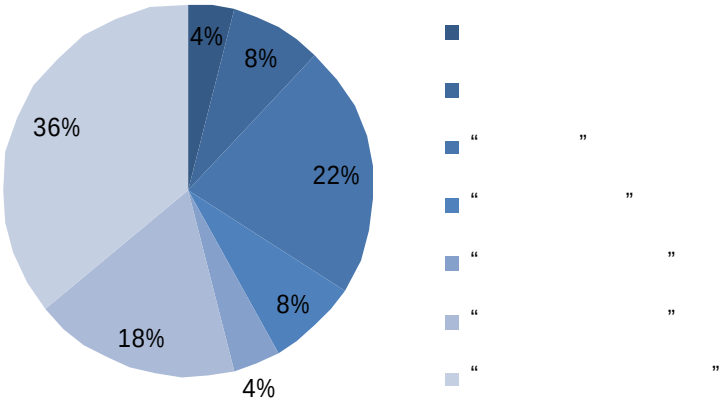

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	2015	2014	2004
	18.47	↓	18
˜ u Ն ʒ	88.9%	↑	30
	15.78	↑	14
	24229.26	↑	5000
	66.48	↓	100
˜ Т Ն ʒ	54%	↑	30
Ն	47.82	↑	54
	9.78	↑	6.5
ᵾ ҷ	48.11	↓	10
Ն	7.6%	↓	10
	0.8	↑	4

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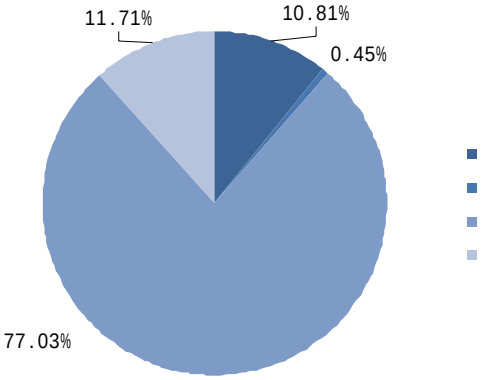

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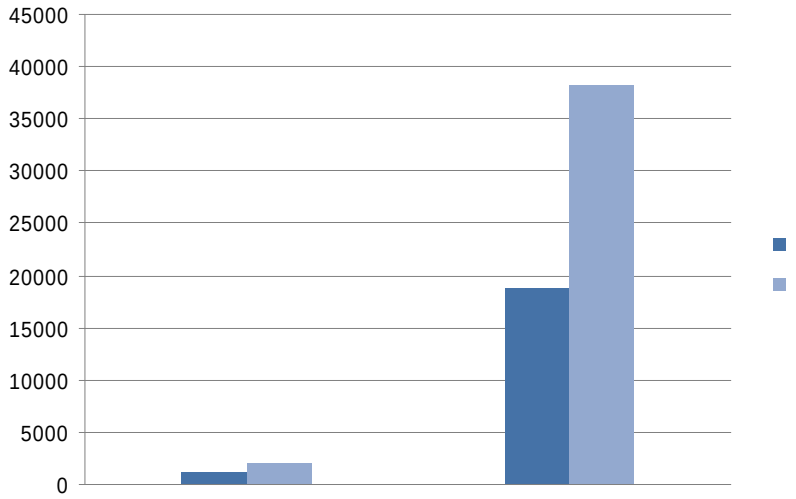

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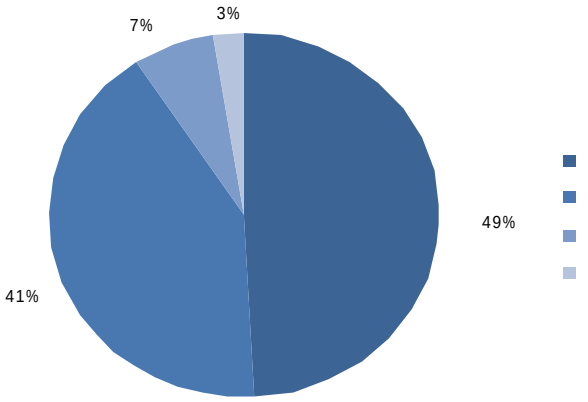
2015 ų 270,252.60 ˜ 2-8 ɾ



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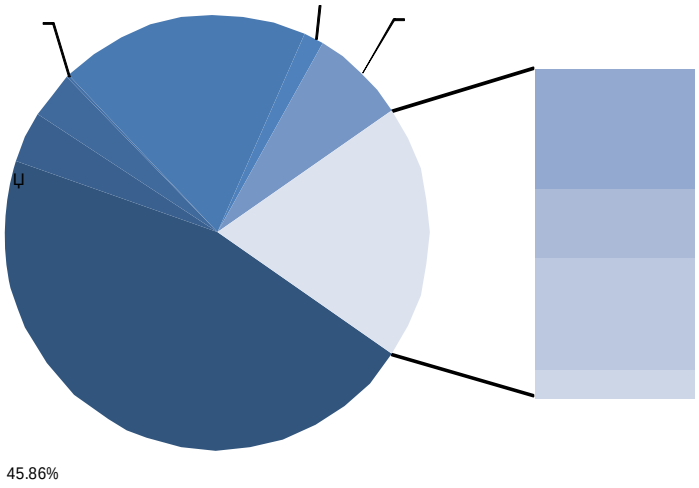

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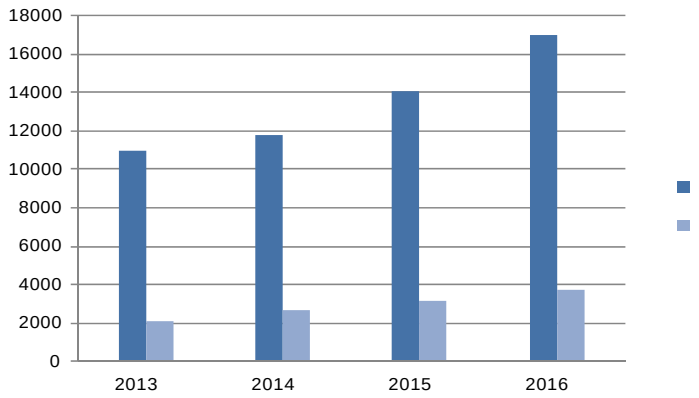

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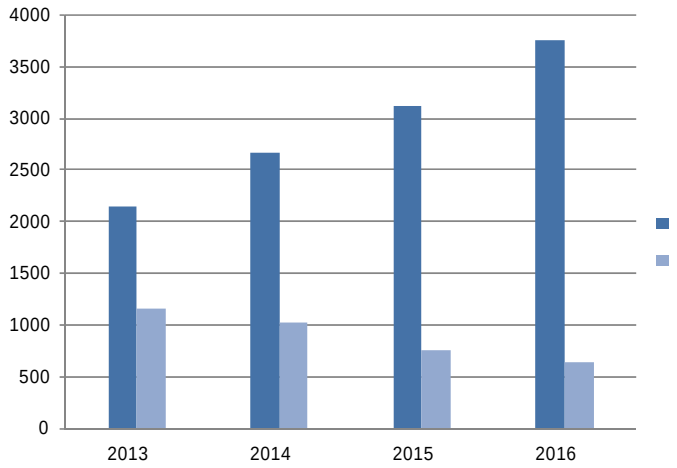

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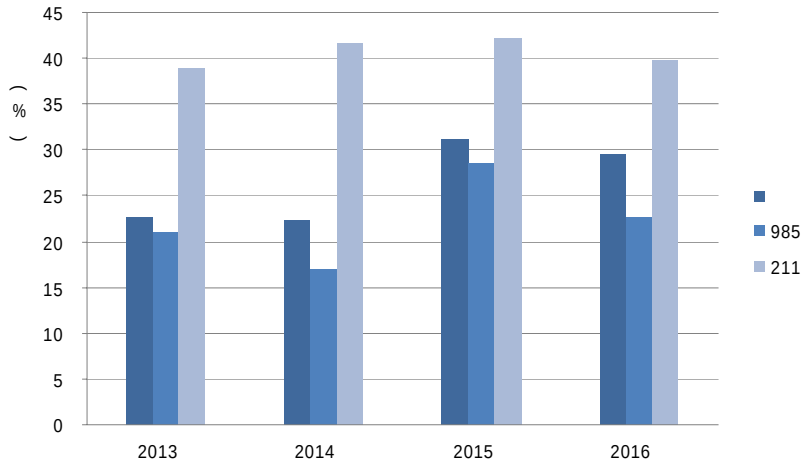

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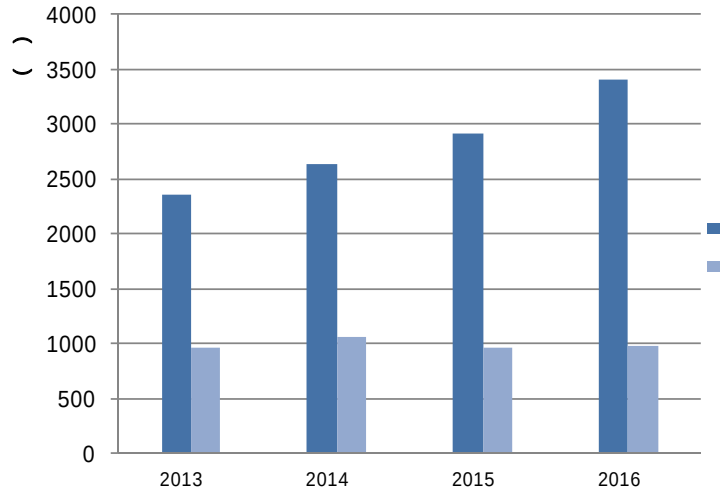

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I 422 ʟ Є 4384 S I 15.8% ɾ

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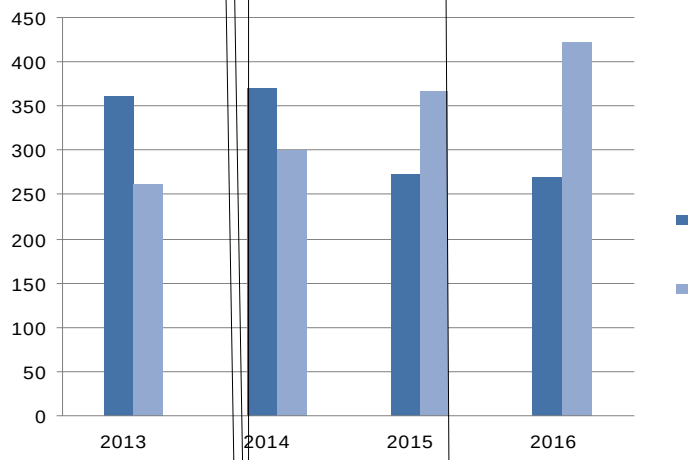
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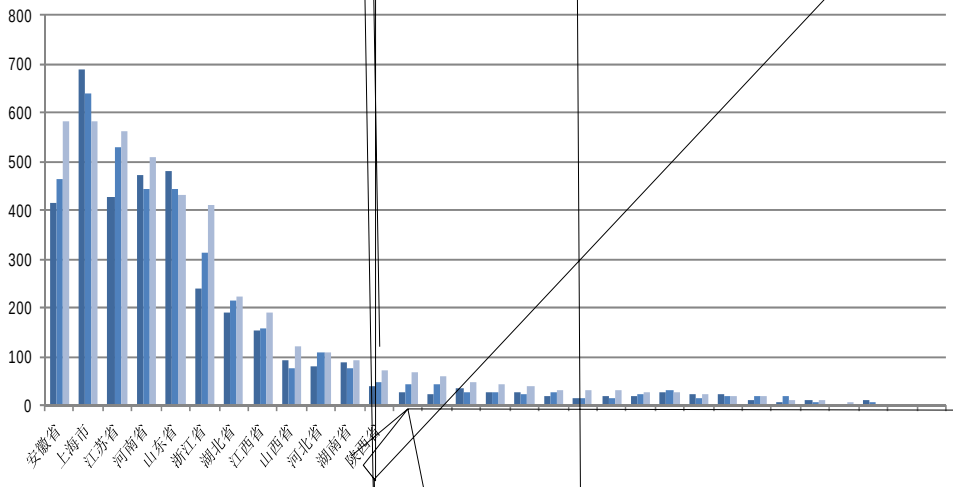
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江西省
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河北省
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陕西省

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		4	5	2-4	5
		4-8	8-12	24	≥12+5 [2]
		X [1]	24	≥9	≥20
		5	2	5	3
		≥15-19	≥42	≥41	≥46

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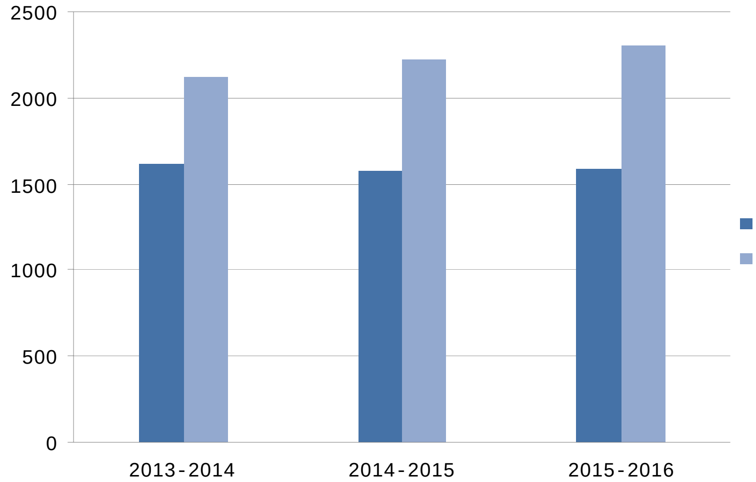

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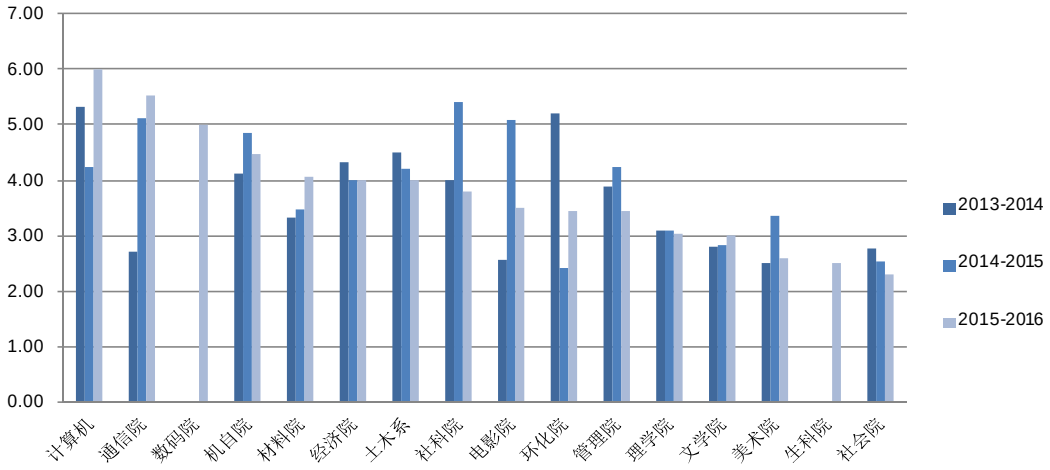

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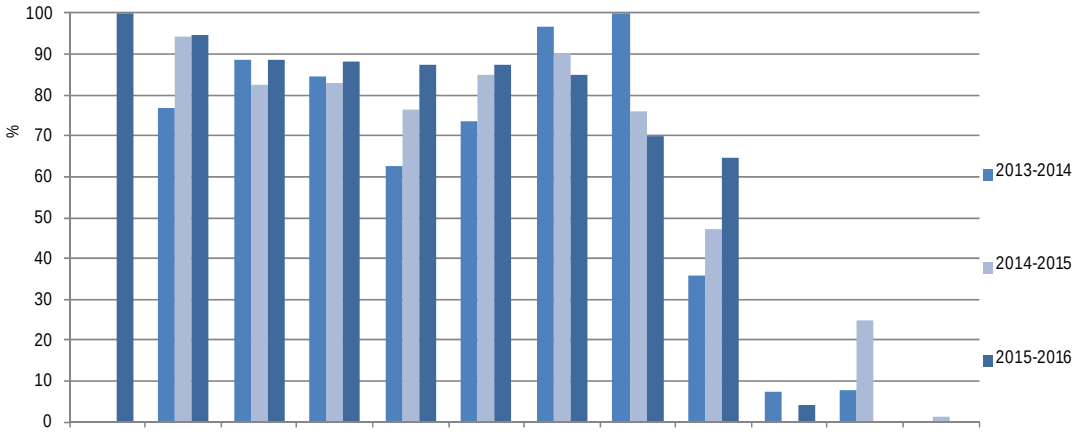

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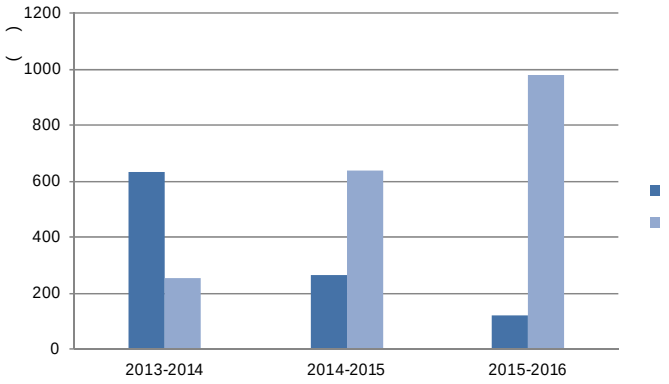
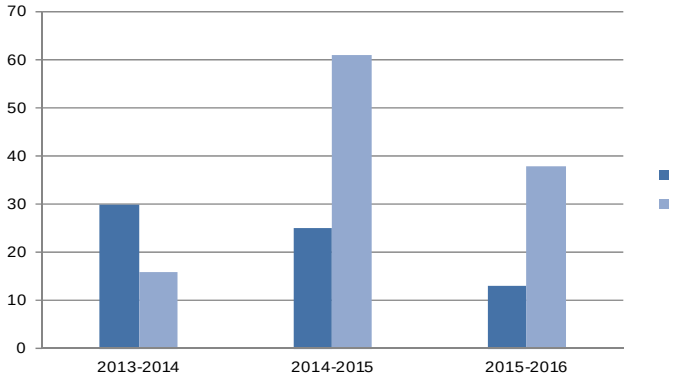


4-7



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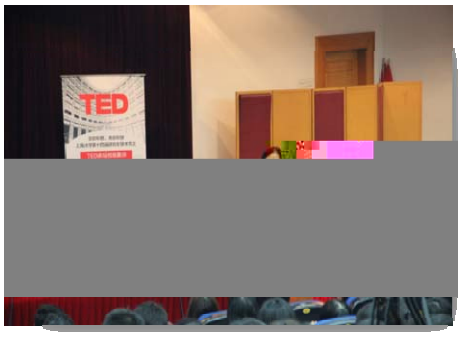

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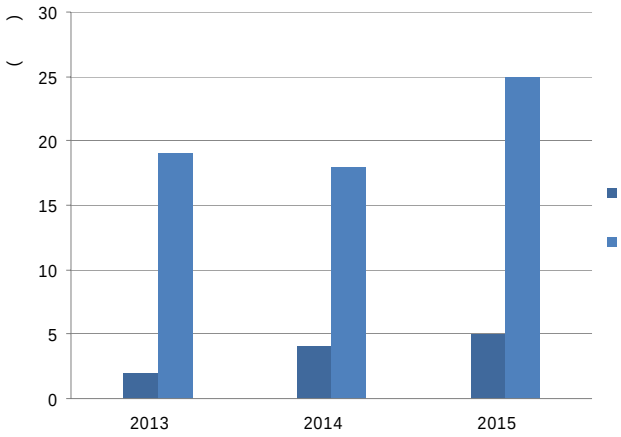
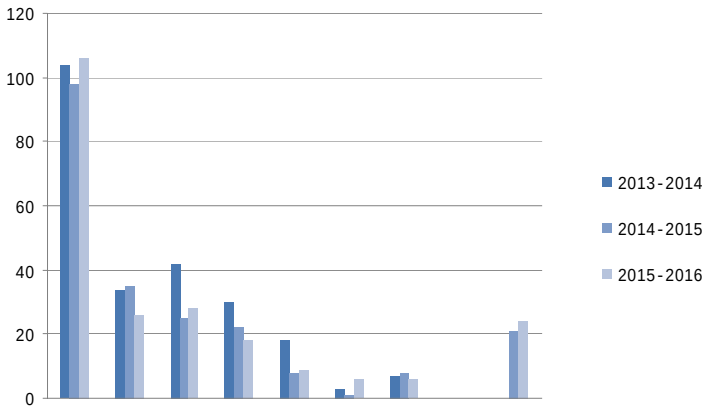
6-1 ɒ ɾ ≺ ‴ ɾ



6-1

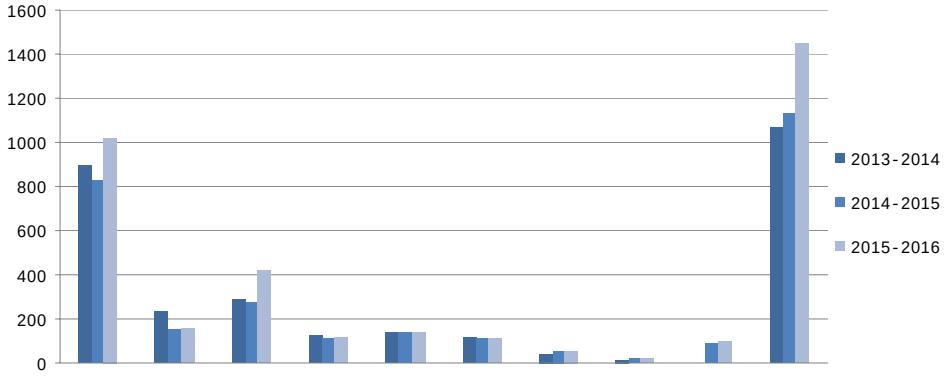
1.

6-2 ɾ 6-3 ɒ u ʊ ‴ ɾ



6-2

2014-2015



6-3

2014-2015

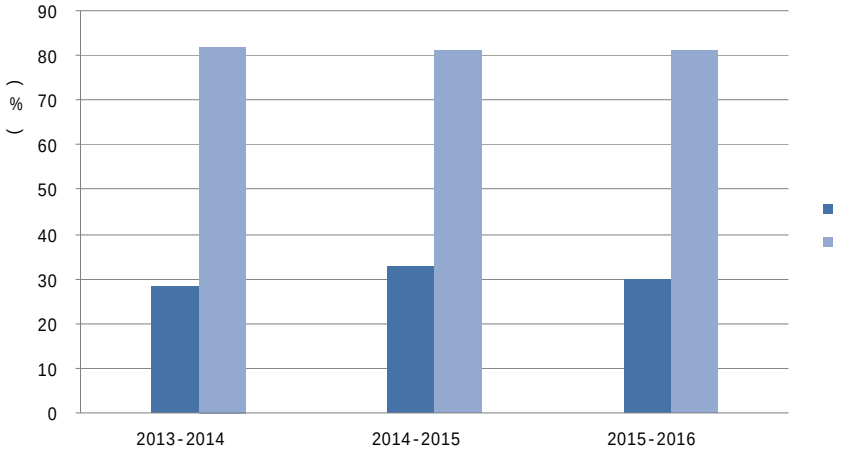
2.

2015-2016 ĩ Ʊ ≺ u 223 Ɪ Ʊ ≺

u ≺ I 68 Ն I 30.49% Ɜ Ʊ u 3590

Ʊ u I 2916 Ն I 81.23% ɾ

6-4 u u Ʊ ‴ ɾ



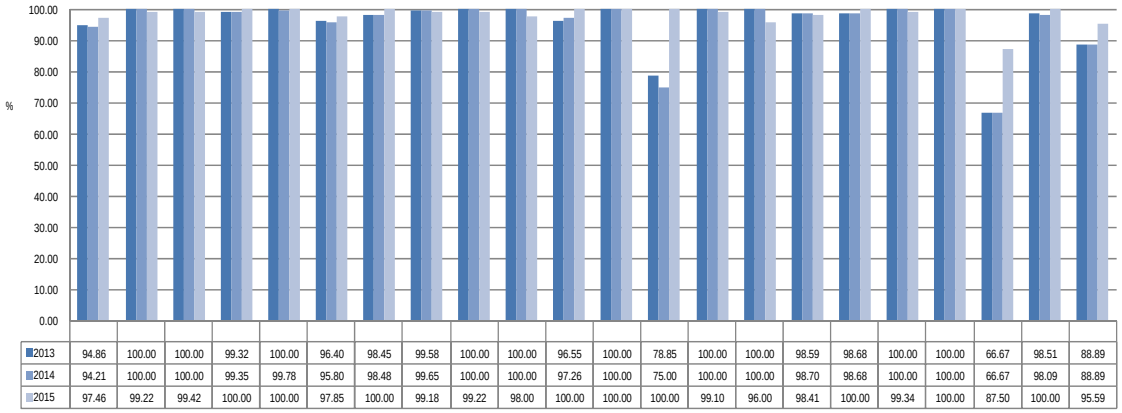
6-4

1. 2012-2014

2015 9 2015 I 99.04% ϧ 2014

ɯ ې Є 97.89% S ґ o ɾ

6-5 ϐ ‴ ɾ

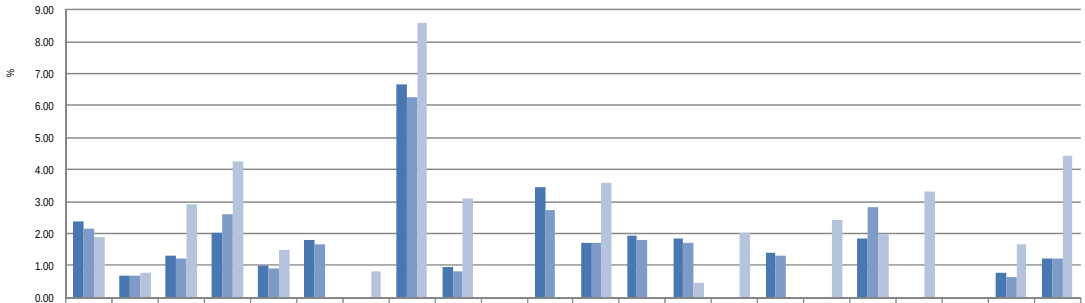


2013	94.86	100.00	100.00	99.32	100.00	96.40	98.45	99.58	100.00	100.00	96.55	100.00	78.85	100.00	100.00	98.59	98.68	100.00	100.00	66.67	98.51	88.89
2014	94.21	100.00	100.00	99.35	99.78	95.80	98.48	99.65	100.00	100.00	97.26	100.00	75.00	100.00	100.00	98.70	98.68	100.00	100.00	66.67	98.09	88.89
2015	97.46	99.22	99.42	100.00	100.00	97.85	100.00	99.18	99.22	98.00	100.00	100.00	100.00	99.10	96.00	98.41	100.00	99.34	100.00	87.50	100.00	95.59

6-5

2.

6-6 ɒ ‴ ɾ

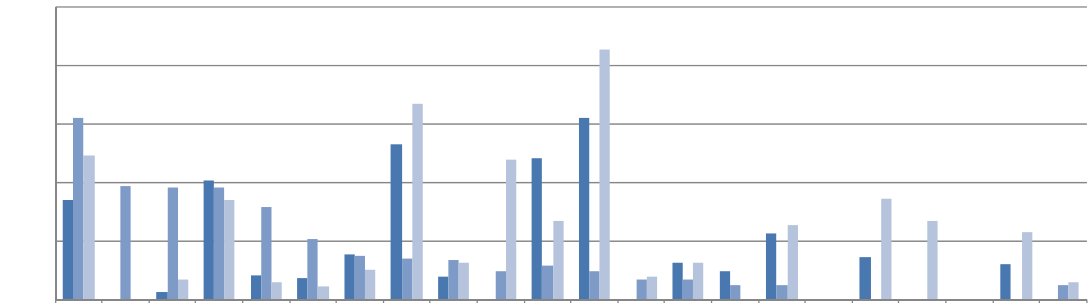


2013	2.40	0.70	1.28	2.04	1.01	1.80	0.00	6.67	0.96	0.00	3.45	1.72	1.92	1.83	0.00	1.41	0.00	1.83	0.00	0.00	0.75	1.23
2014	2.13	0.70	1.20	2.60	0.90	1.68	0.00	6.25	0.83	0.00	2.74	1.72	1.79	1.69	0.00	1.30	0.00	2.82	0.00	0.00	0.64	1.23
2015	1.90	0.78	2.89	4.24	1.50	0.00	0.83	8.57	3.10	0.00	0.00	3.57	0.00	0.45	2.00	0.00	2.44	1.99	3.33	0.00	1.65	4.41

6-6

3.

6-7 ɒ ≺ u ‴ ɾ



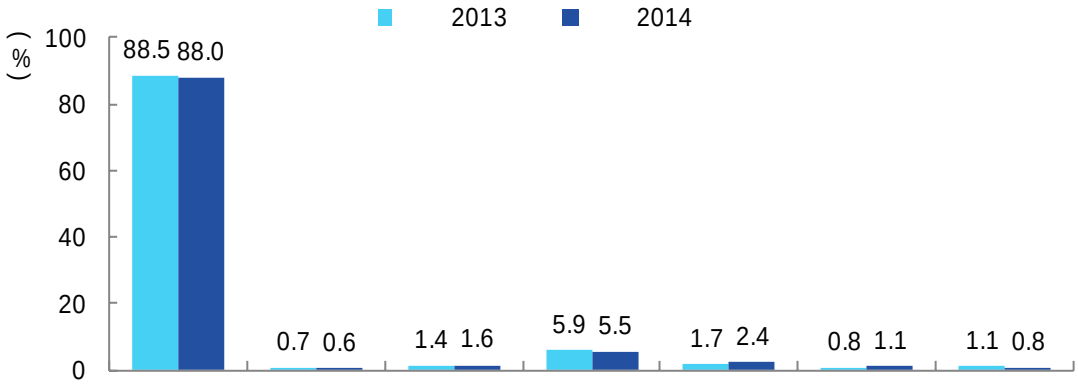
2013	8.56	0.00	0.64	10.20	2.02	1.80	3.88	13.33	1.92	0.00	12.07	15.52	0.00	3.20	2.44	5.63	0.00	3.67	0.00	0.00	2.99	0.00
2014	15.52	9.74	9.59	9.59	7.93	5.19	3.79	3.52	3.33	2.44												

2013
2014

1.

1

2014 “ ”[1] 88.0% 2013
88.5% “ ” 5.5% 2013
5.9%



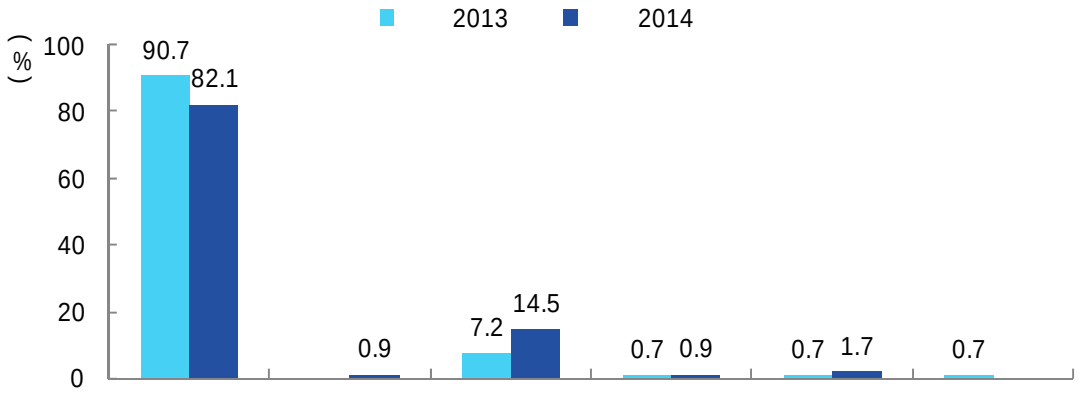
6-8 2014

100%

2

2014 “ ” 82.1% 2013
90.7% 8.6 “ ” 14.5% 2013
7.2% 7.3

[1] 32
20 31



6-9 2014

100%

2.

2

1 **9**

2014 “ / ” “ / / / / / ” 8.9% 8.3% 7898 7515

6-1 2014 9

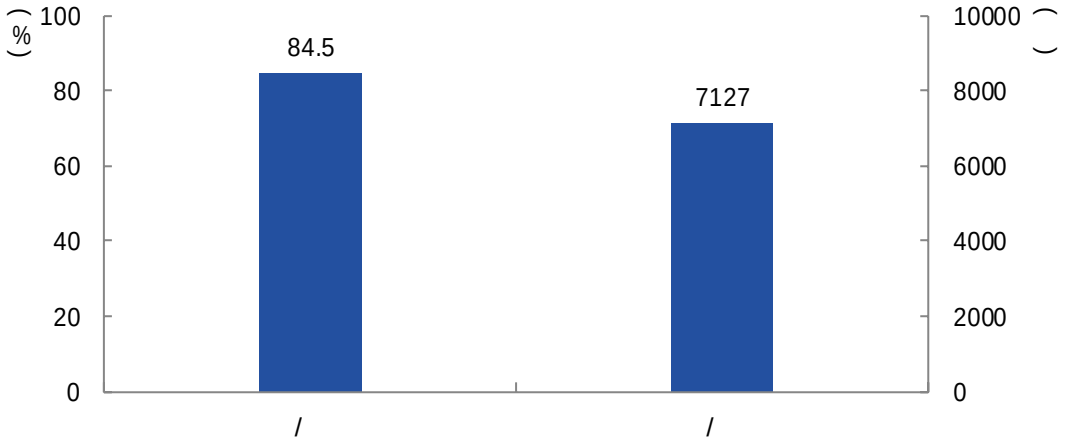
	%	
/	8.9	7898
/ / / /	8.3	7515
/	7.8	5527
	6.5	10460
/	5.3	7163
/ / /	5.1	7278
	5.1	5154
/	4.3	5310
	4.2	7015

2

2 “ ”

“ ”

2014 84.5% “ / ” 7127



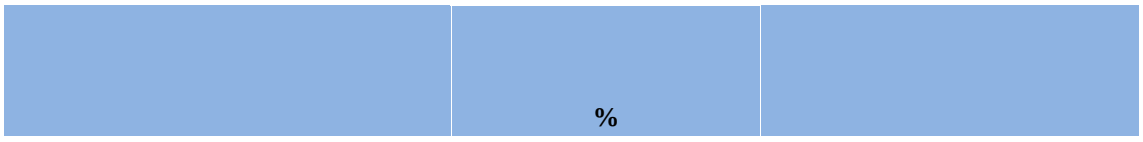
6-10 2014 /

3. 3

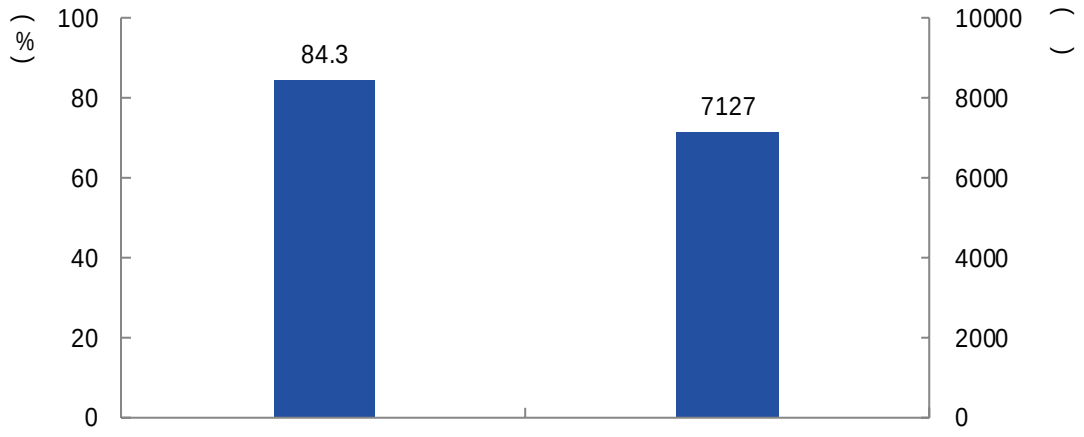
1 **7**

2014 “ ” 15.0% 5458
“ ” 10.0% 8767

6-2 2014 7



2014 84.3% “ ” 7127



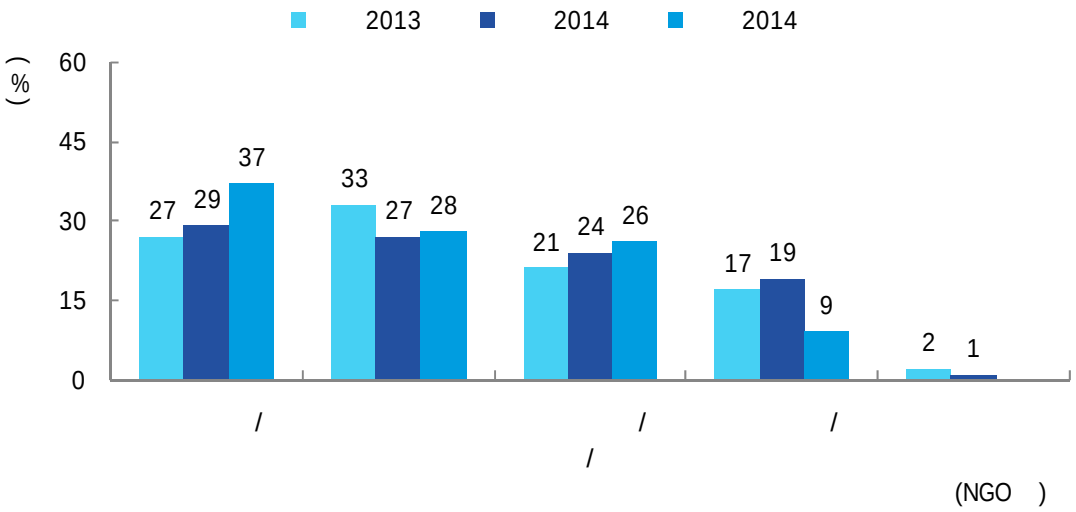
6-11 2014

4. 4

1

2014 / 29%
7101 / / 24% 8561

4



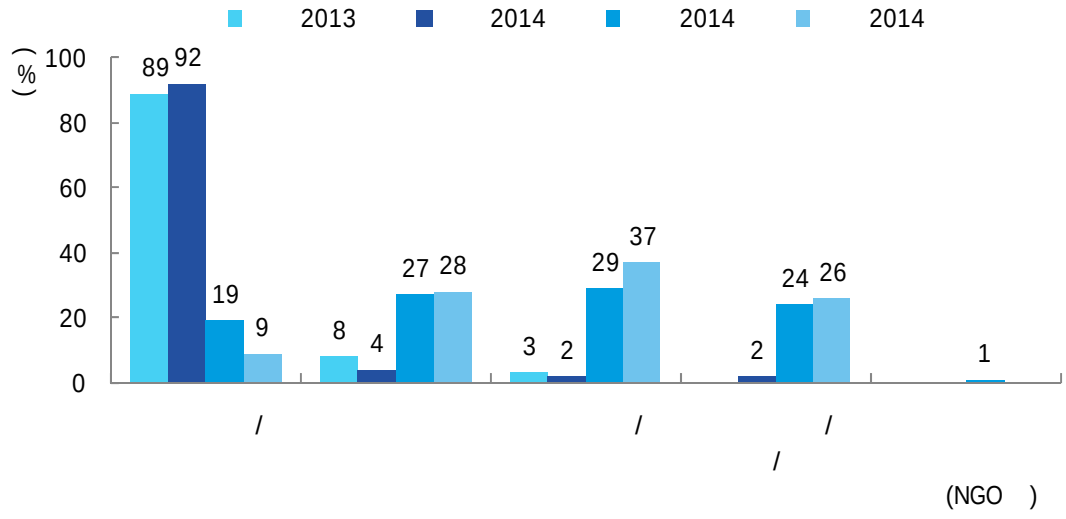
6-12 2014

2

2014 /

92% 2013 89% 3 2014 19%

73 2014 9% 83



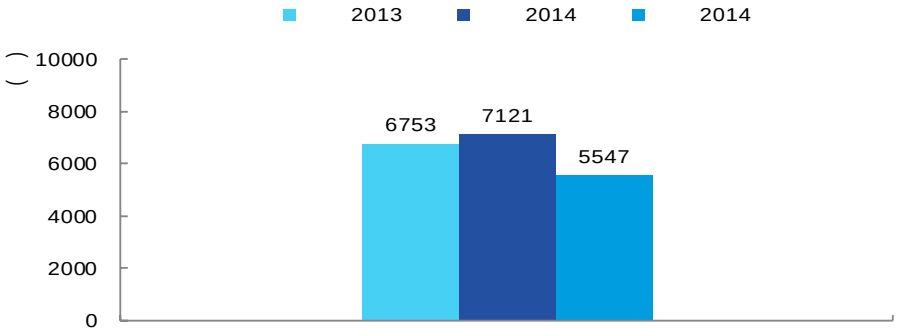
6-13 2014

5

1. **6**

1

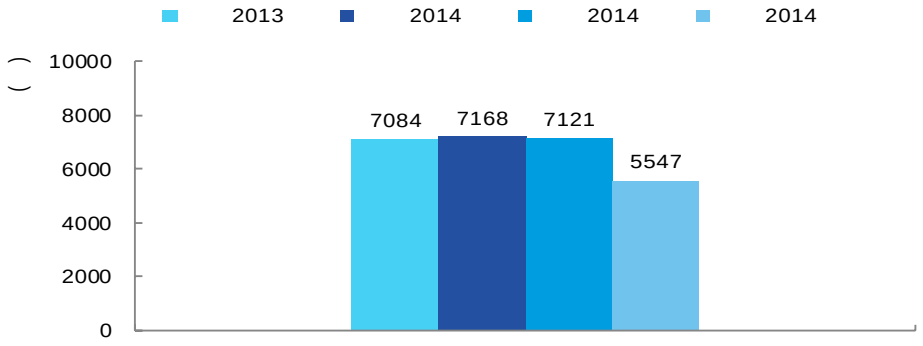
2014 7121 2013 6753
368 2014 5547 1574



6-14 2014

2

2014 7168 2013 7084
2014 7121 2014 5547
1621



6-15 2014

5

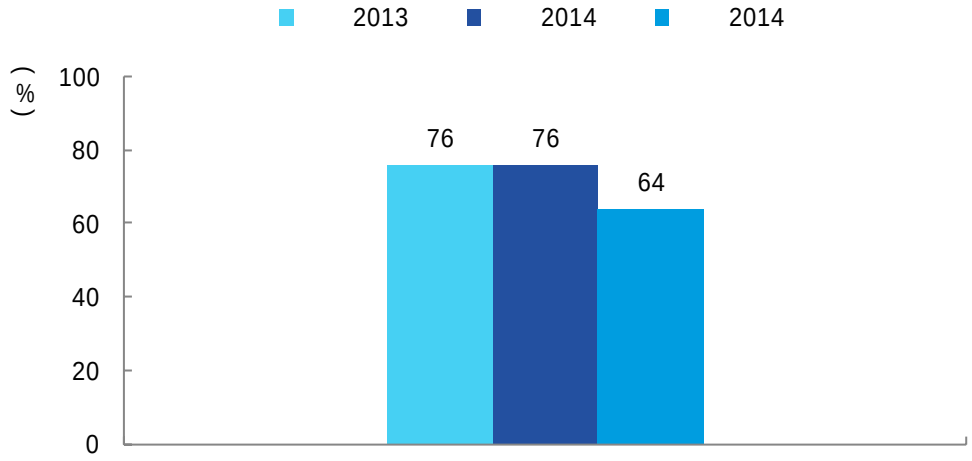
6

2. [7]

1

2014 76% 2013 76%

2014 64% 12



6-16 2014 %

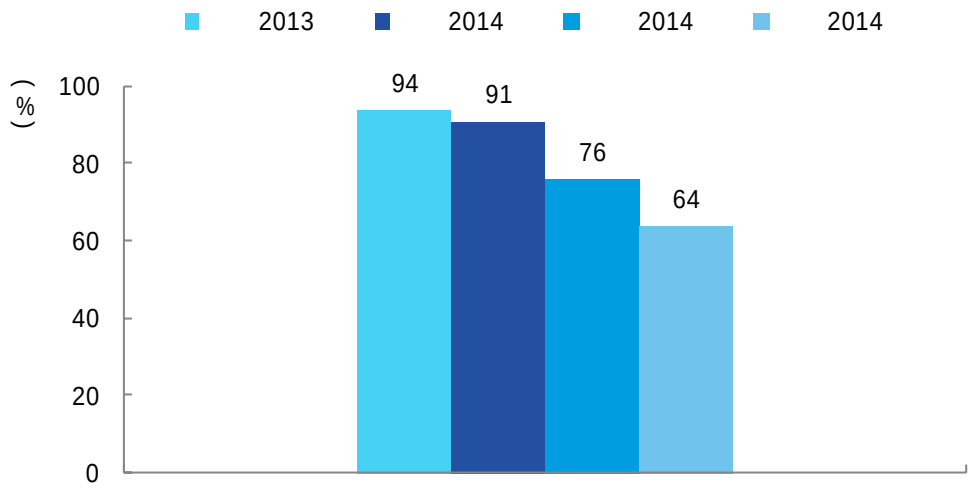
2

2014 91% 2013 94%

3 2014 76% 15 2014

64% 27

[7]

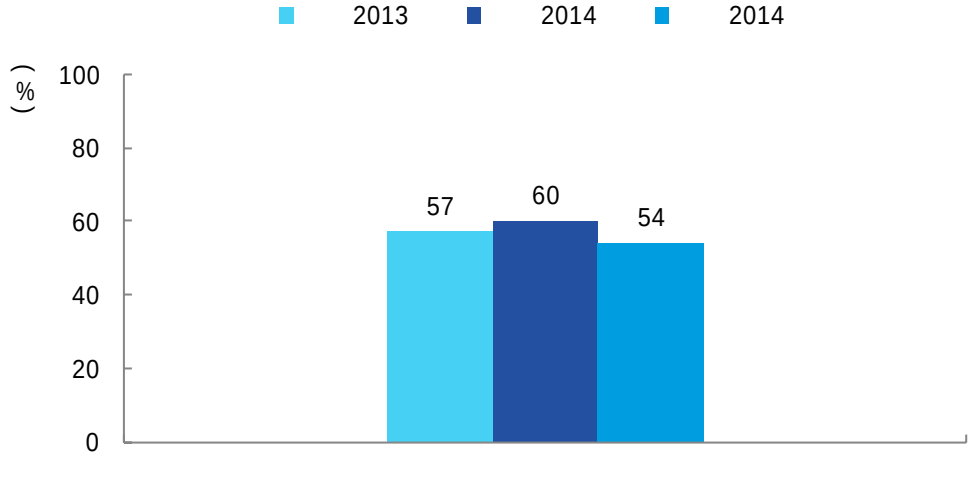


6-17 2014 %

3.

1 **8**

2014 60% 2013
57% 3 2014 54% 6



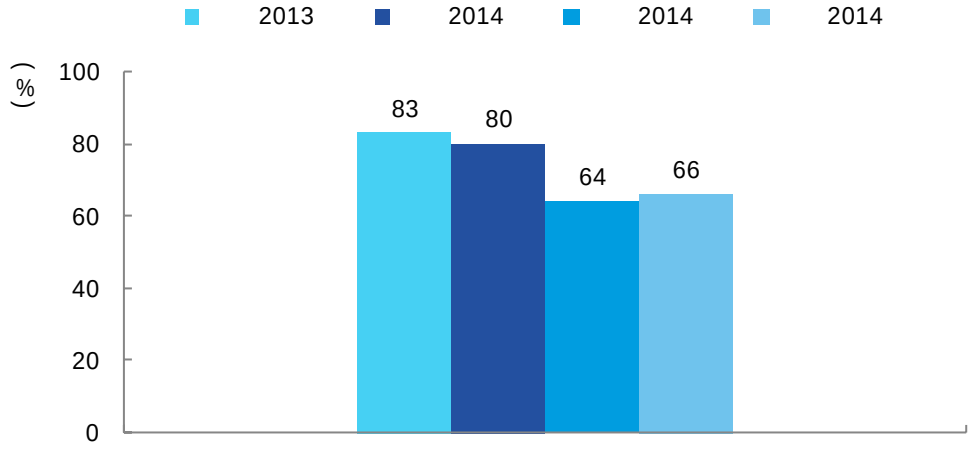
6-18 2014 %

2 **9**

8 “ ” “ ” “ ” “ ” “ ” “ ” “ ” “ ”

9 “ ” “ ”

2014 80% 2013 83%
3 2014 64% 16 2014
66% 14

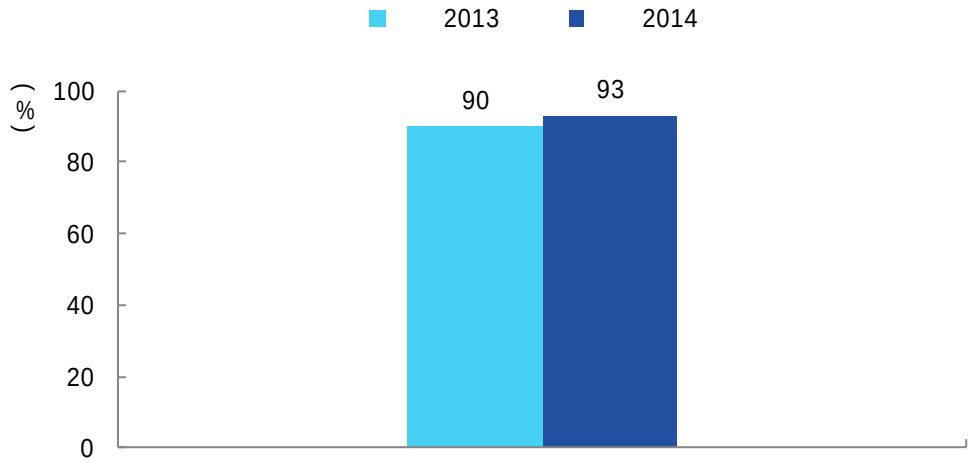


6-19 2014

1.

1 **10**

2014 93% 2013 90%
3



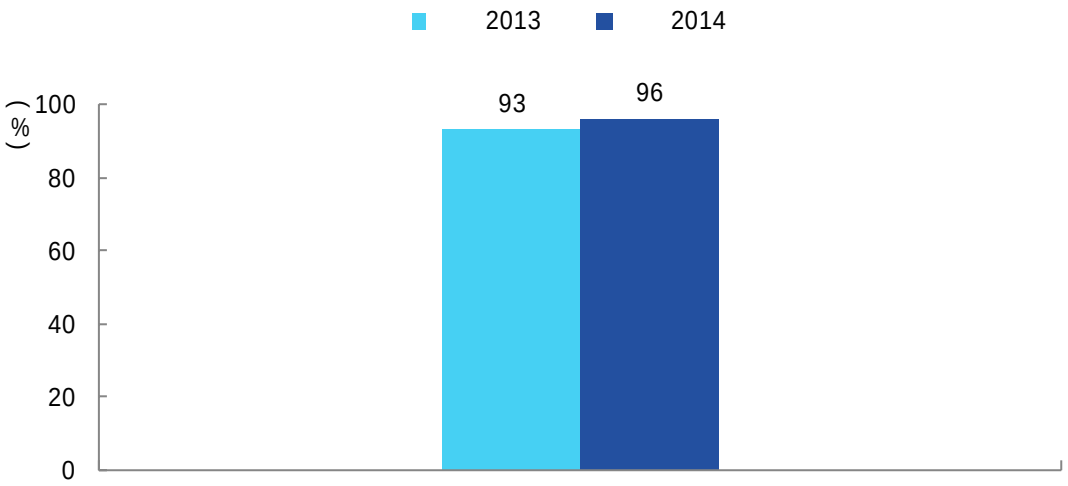
6-20 2014

10 “ ” “ ” “ ” “ ” “ ” “ ” “ ” “ ”

2

2014 96% 2013 93%

3

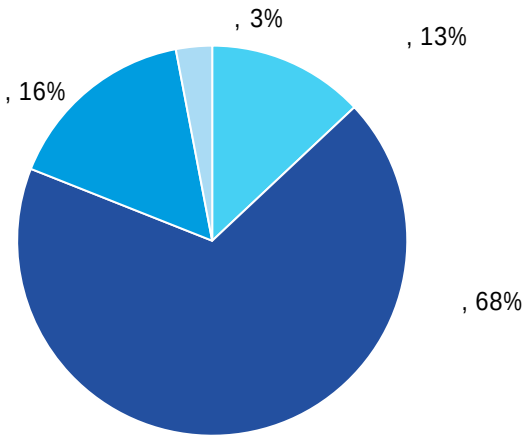


6-21 2014

2.

2014

81%



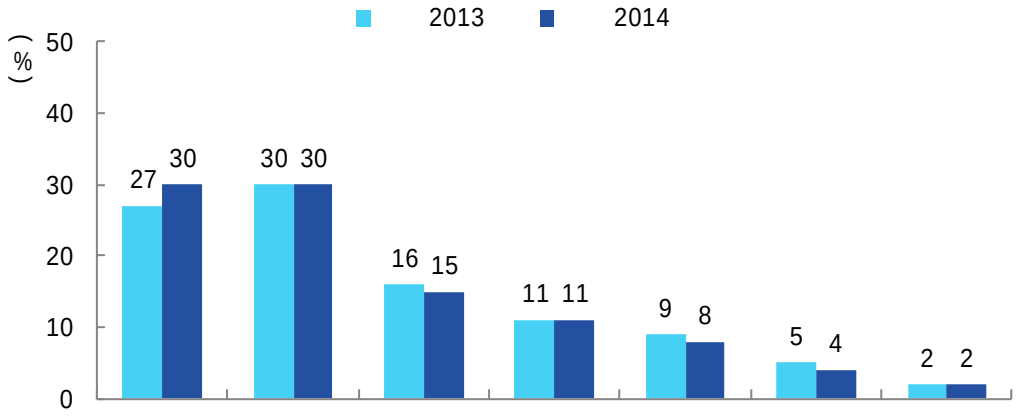
6-22 2014

3.

1

2014 “ ” “ ”

30%

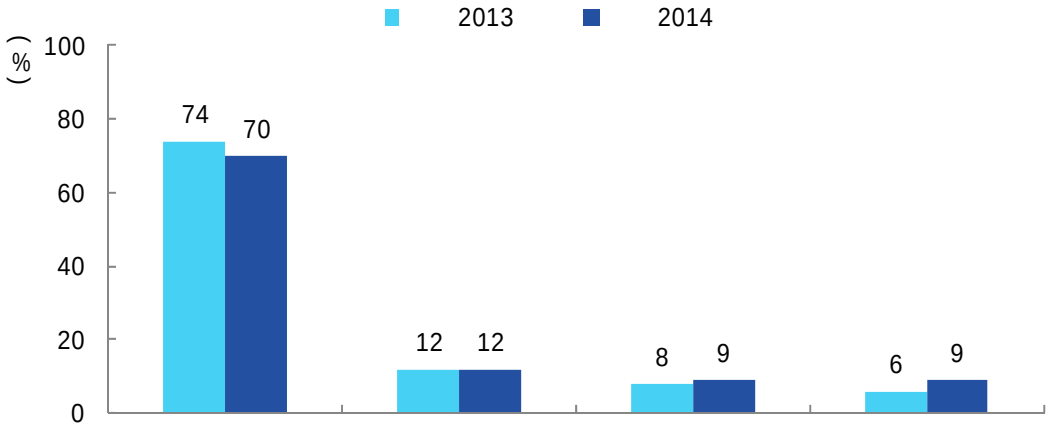


6-23 2014

2

2014 “ ” 70% 2013

74%



6-24 2014

1.

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3.

4.

2016 SCI 2.23 2015 1.76

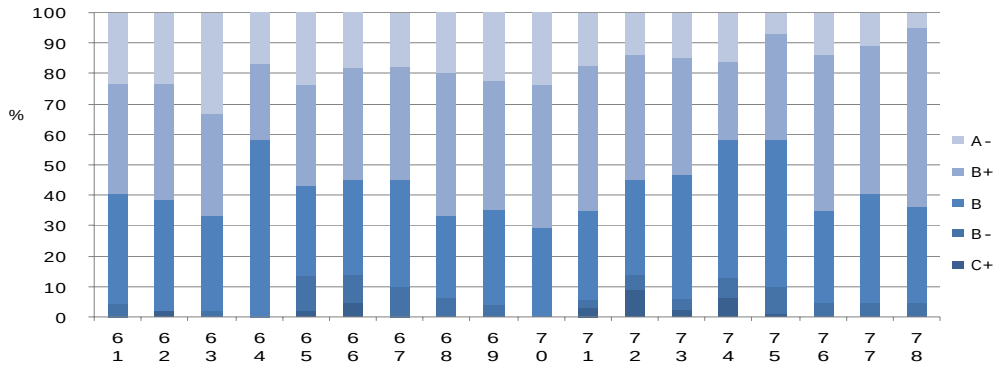
CSSCI 1.12 2015 0.80

SCI 0.41 CSSCI 0.13 2015

5.

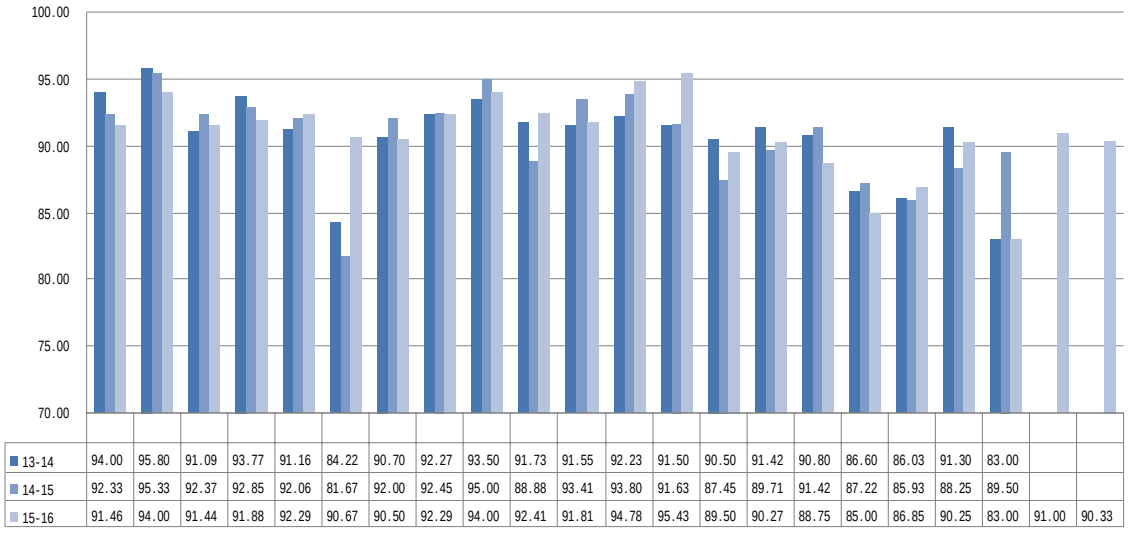
1.

7-1



7-1

2.



13-14	94.00	95.80	91.09	93.77	91.16	84.22	90.70	92.27	93.50	91.73	91.55	92.23	91.50	90.50	91.42	90.80	86.60	86.03	91.30	83.00		
14-15	92.33	95.33	92.37	92.85	92.06	81.67	92.00	92.45	95.00	88.88	93.41	93.80	91.63	87.45	89.71	91.42	87.22	85.93	88.25	89.50		
15-16	91.46	94.00	91.44	91.88	92.29	90.67	90.50	92.29	94.00	92.41	91.81	94.78	95.43	89.50	90.27	88.75	85.00	86.85	90.25	83.00	91.00	90.33

7-2

3.

1

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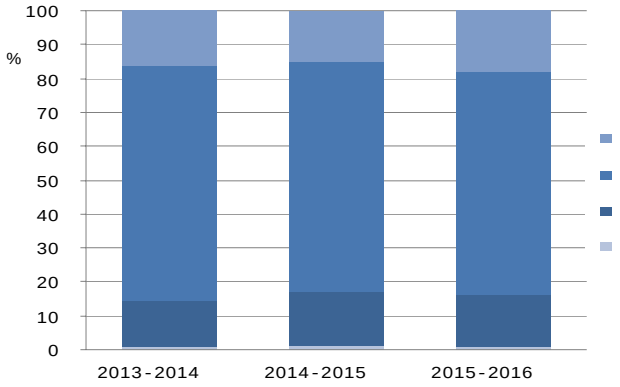
7-1

	2013-2014	**2014-2015**	**2015-2016**	**2013-2014**	**2014-2015**	**2014-2015**
	238	218	223	2934	2902	3590
973 863	9	1	15	78	82	101
	6	2	8	38	38	57
	7	3	2	16	13	12
	81	71	68	572	575	800
	7	9	8	32	23	48

2

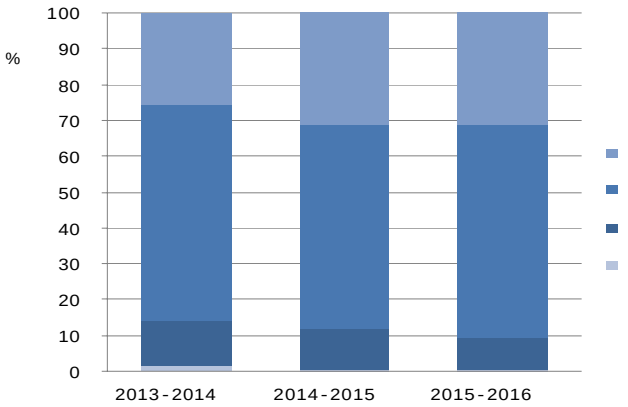
7-3 ƿ ی ‴ ɾ



7-3

3

7-4 ƿ ے ی ‴ ɾ



7-4

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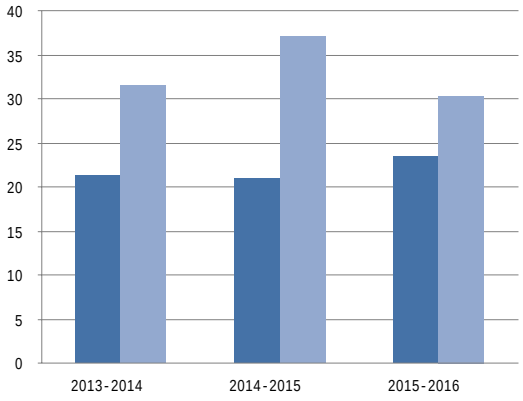
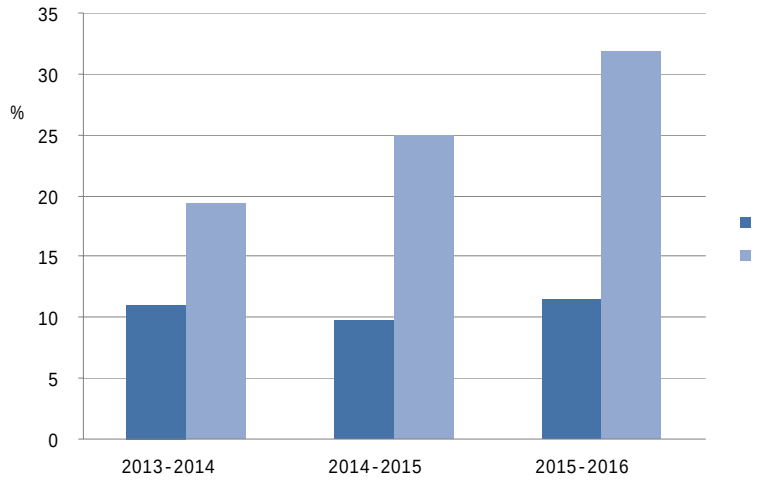
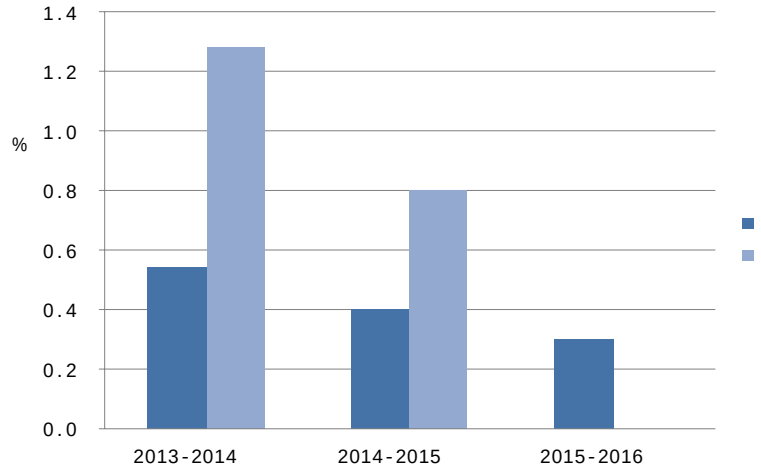
7-5 س 7-6 ی ‴ ɾ



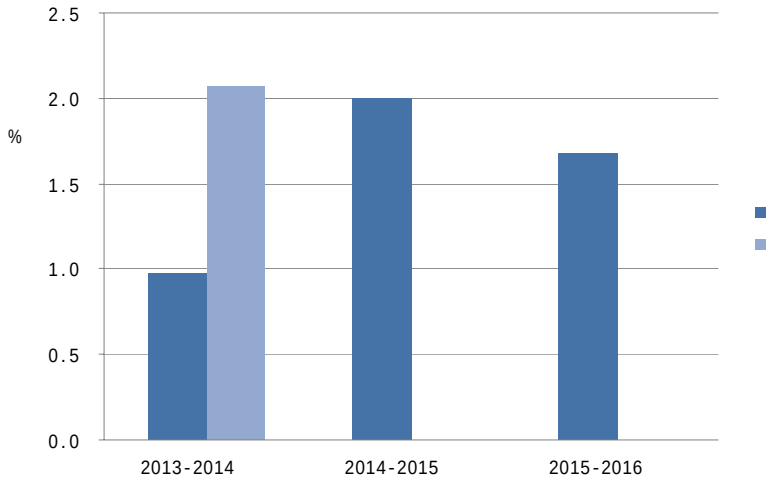


7-6

7-7 س 7-8 ی ↕ ۴ پ ‴ ۲



7-7



7-8

4. [11]

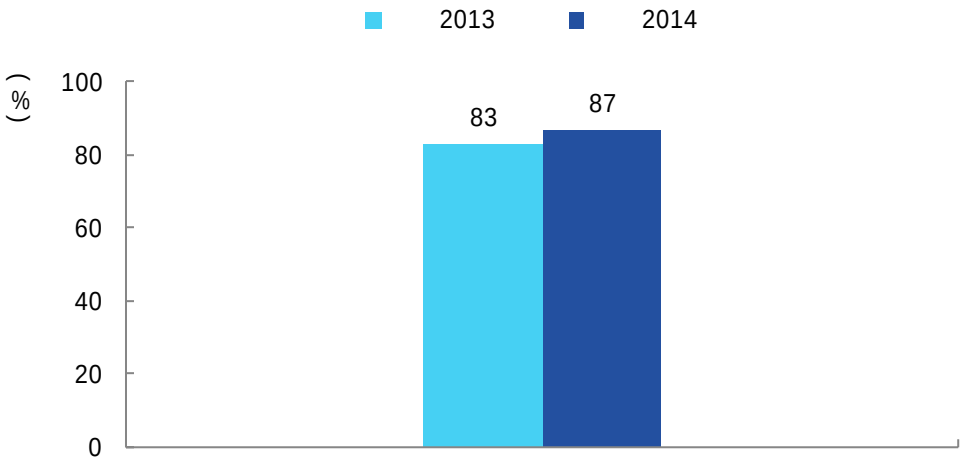
1 [12]

1)

2014 75%

2013 74% 2014

70%



7-10 2014 %

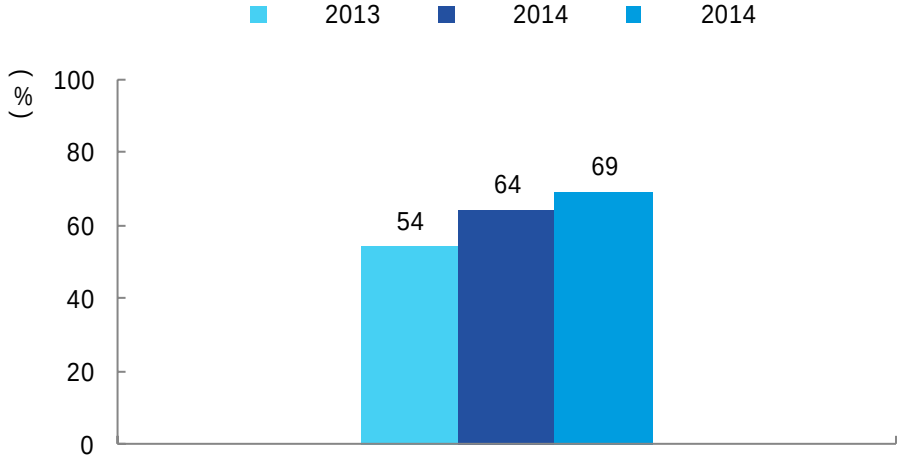
2 [13]

1)

2014 “

” 64% 2013 54% 10

2014 69% 5



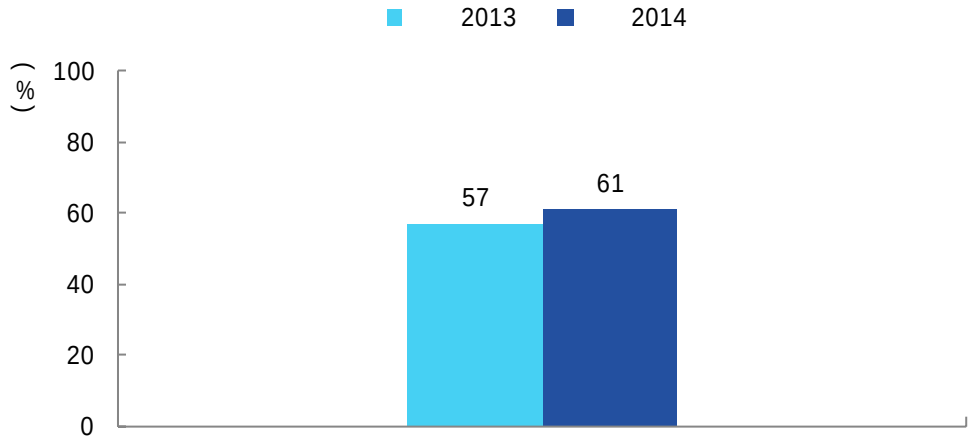
7-11 2014

2)

2014

[13] “ ” “ ”

61% 2013 57% 4



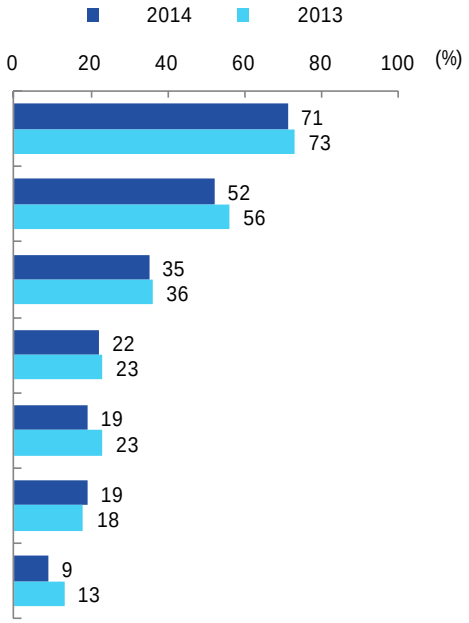
7-12 2014 %

3

1

2014 “

” 71% “ ” 52%



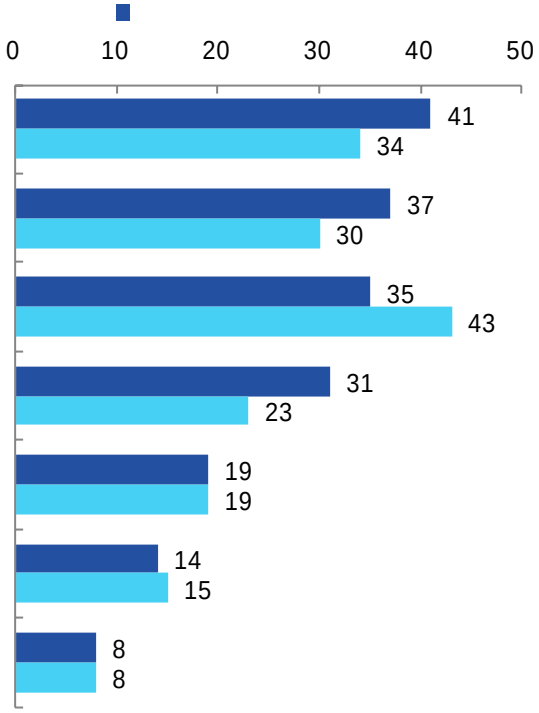
7-13 2014

2

2014 “

” 41% “ ” 37% “ ” 35%

“ ” 31%



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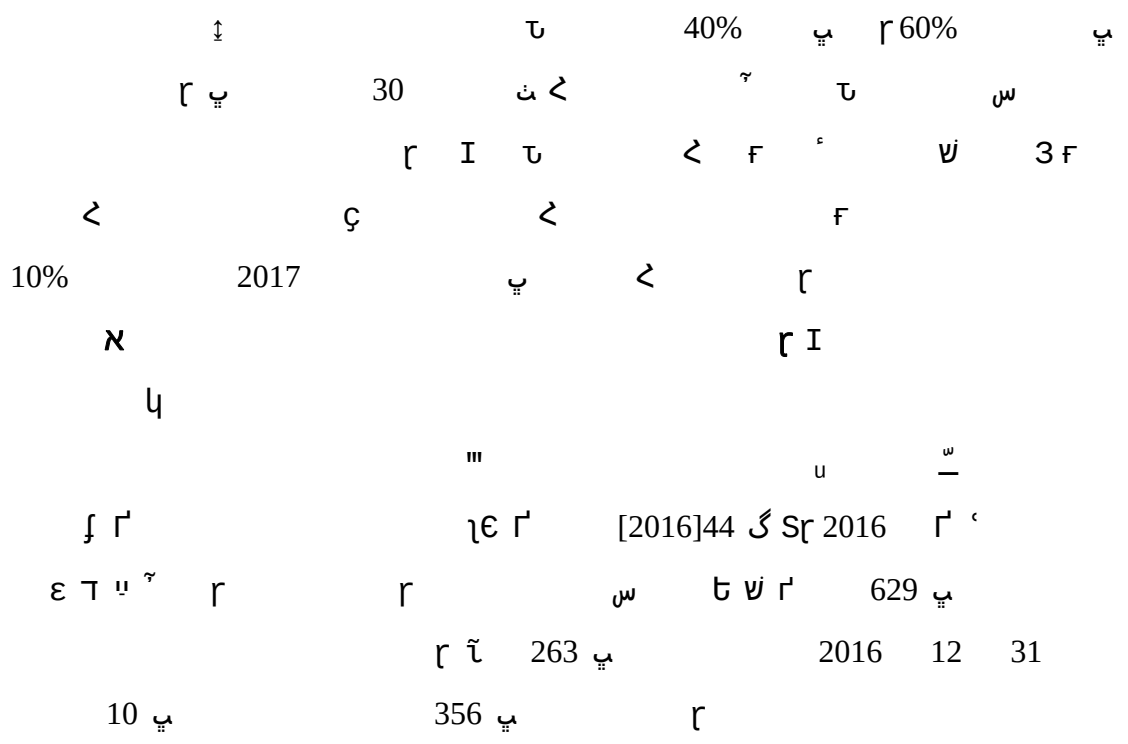

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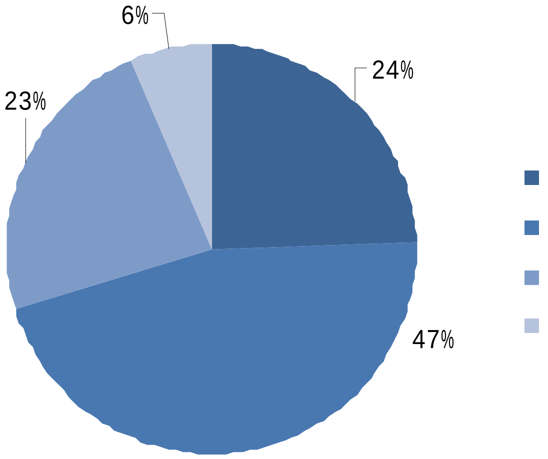

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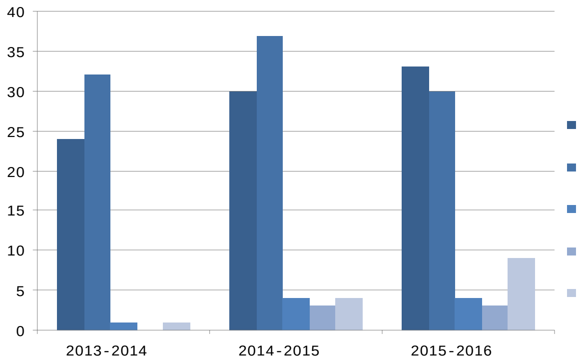

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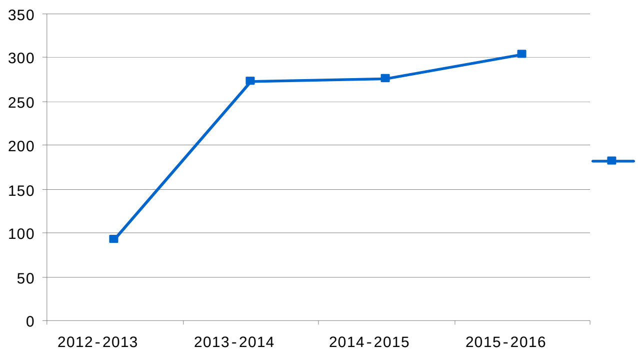

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