### Comparison of Sketch Engine and Collterm for Scientific Texts

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# Monolingual terminology base



30%

## Automatic extraction tools



Terms written down manually

#### **PURPOSE**

- The KAS Corpus of Academic Slovene
- Terminology and automatic term extraction
- Comparison of Sketch Engine and CollTerm

#### CORPUS OF ACADEMIC SLOVENE

- Action Plan for Language Infrastructure & Action Plan for Language Education
- 50.000 scientific texts
- 1 billion words

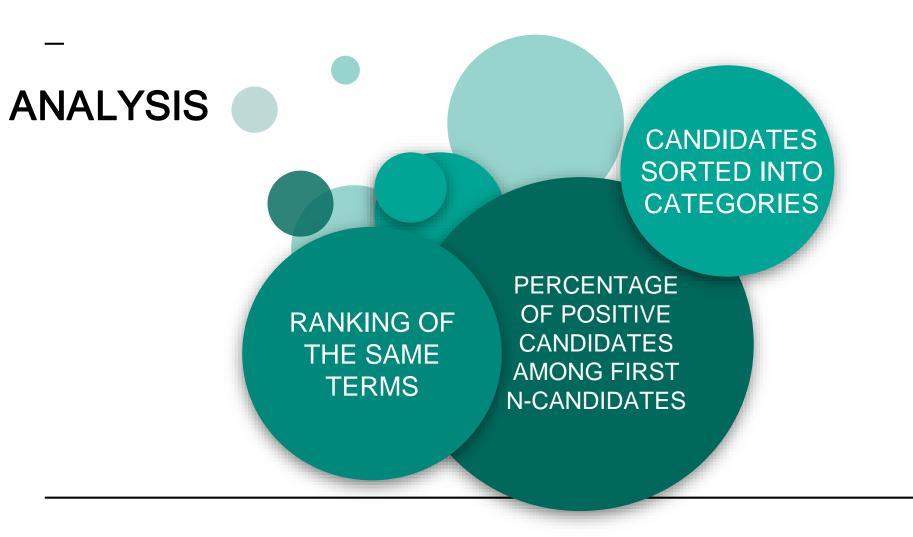
#### **ANALYSED CANDIDATES**

- Multi-word extraction
- Bi-, tri-, four-grams
- 100 candidates from each list
- 300 candidates CollTerm
- 300 candidates Sketch Engine

600 candidates

### **CATEGORIES**

- 1. Term
- 2. Term from other field
- 3. Scientific writing
- 4. Irrelevant

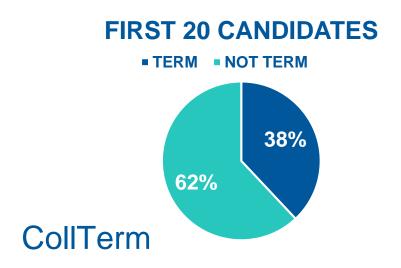


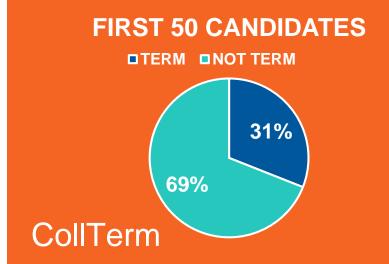
### CANDIDATES IN CATEGORIES

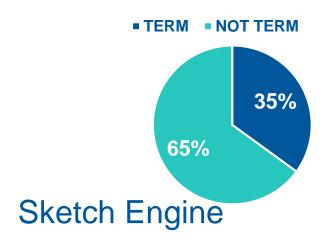
	Category	CollTerm	Sketch Engine
1	Term	68	54
2	Other field	13	3
3	Scientific writing	106	130
4	Irrelevant	113	113

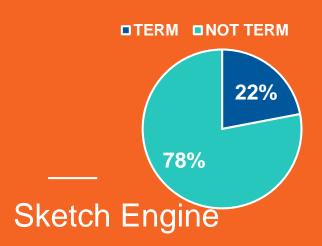
### PERCENTAGE OF POSITIVE CANDIDATES

		CollTerm	Sketch Engine
1	Term	81 (27 %)	57 (19 %)
2	Not term	219 (73 %)	243 (81 %)









### CollTerm



### Sketch Engine

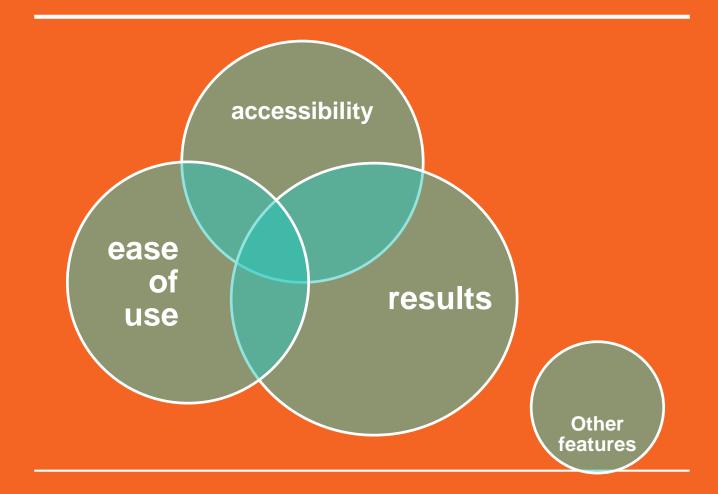


Ranking no. in CollT	Ranking no. inv Sk E	Ranking no. in CollT	Ranking no. in Sk E
2	30	32	546
5	21	36	4727
7	9	39	40
13	205	40	4440
16	67	44	4422
17	0	50	4681
18	135	59	7
19	10	63	201
21	4541	70	4669
22	0	71	454
24	54	72	4106
88	0	83	4594
88	0		4004

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(21)	(4541)	70	4669
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Ranking no. in Sk E	Ranking no. CollT
2	185
7	59
9	7
10	19
11	192
20	195
21	5
29	194
33	2
34	0
40	39
54	24

Ranking no. In Sk E	Ranking no. in CollT
66	0
67	16
70	219
96	215



### Assessing the recall

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# THANK YOU FOR YOUR ATTENTION