

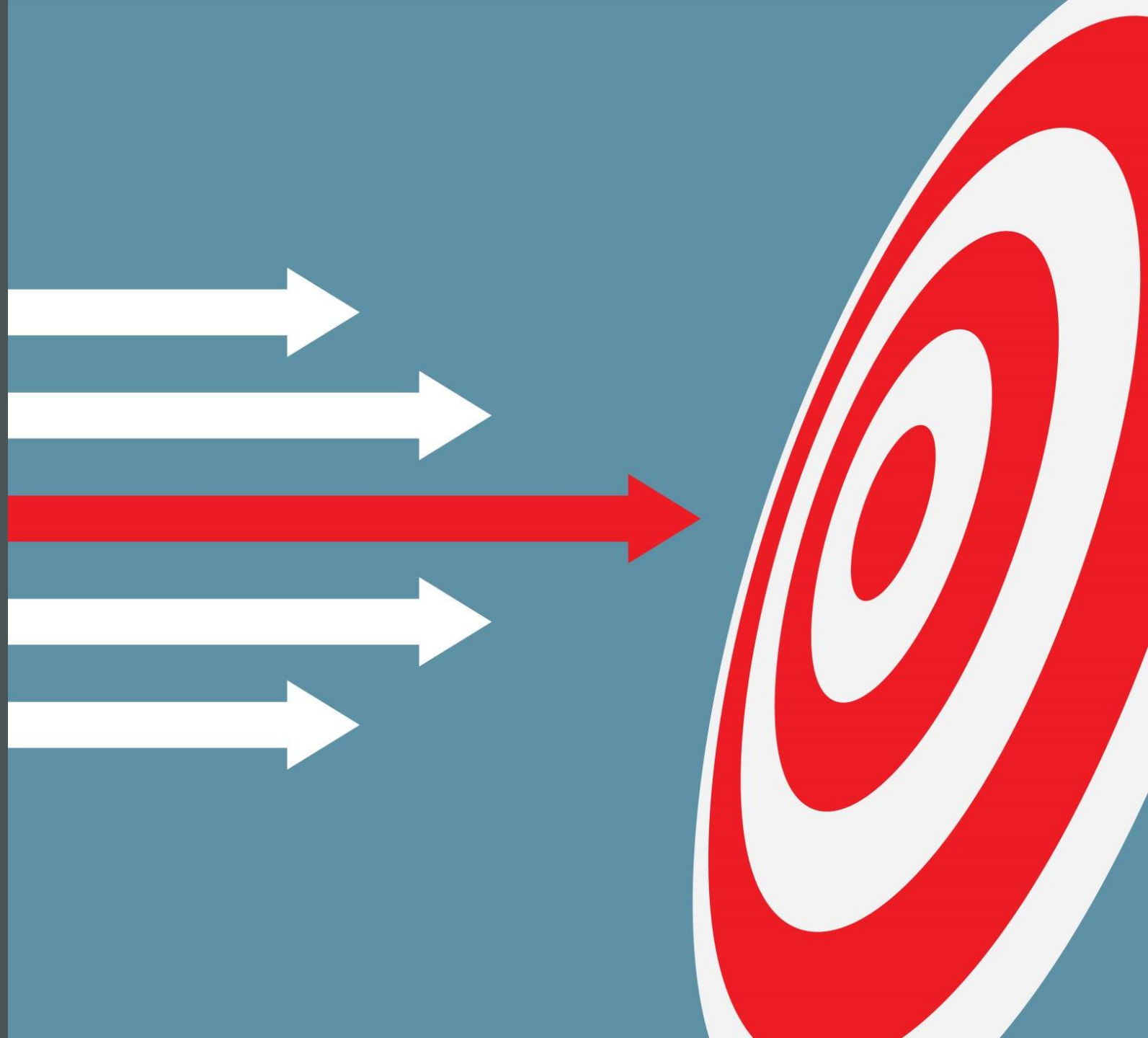
KLASTERYZACJA

	ID	Title	VendorID	ClusterID	ClusterLabel	CategoryID	CategoryLabel
0	2	apple iphone 8 plus 64 gb spacegrau	2	1	Apple iPhone 8 Plus 64GB	2612	Mobile Phones
1	3	apple mq8n2b/a iphone 8 plus 64gb 5.5 12mp sim...	3	1	Apple iPhone 8 Plus 64GB	2612	Mobile Phones
2	4	apple iphone 8 plus 64gb space grey	4	1	Apple iPhone 8 Plus 64GB	2612	Mobile Phones
3	5	apple iphone 8 plus gold 5.5 64gb 4g unlocked ...	5	1	Apple iPhone 8 Plus 64GB	2612	Mobile Phones
4	6	apple iphone 8 plus gold 5.5 64gb 4g unlocked ...	6	1	Apple iPhone 8 Plus 64GB	2612	Mobile Phones
5	7	apple iphone 8 plus 64 gb space grey	7	1	Apple iPhone 8 Plus 64GB	2612	Mobile Phones
6	8	apple iphone 8 plus 64gb space grey	8	1	Apple iPhone 8 Plus 64GB	2612	Mobile Phones
7	9	apple iphone 8 plus 64gb space grey	9	1	Apple iPhone 8 Plus 64GB	2612	Mobile Phones
8	10	apple iphone 8 plus 64gb space grey	10	1	Apple iPhone 8 Plus 64GB	2612	Mobile Phones

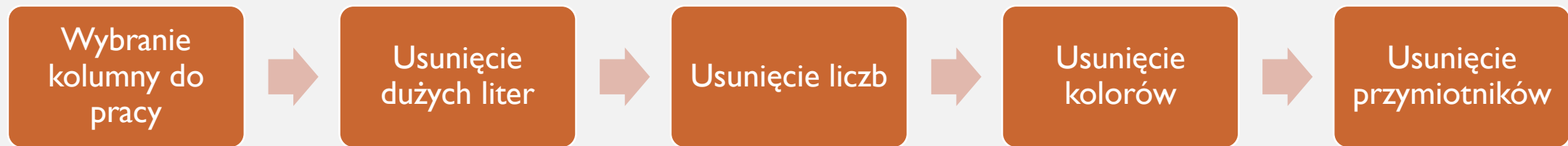
DANE

CEL

Klasteryzacja
produktów po
nazwach firm



PREPROCESSING



	aa	ac	aces	access	ace	acer	action	adapter	adelberg	adg	...	yota	yotaphone	you	zanker	zanussi	zenfone	zero	zoom	zte	zylo
0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

ZWEKTORYZOWANIE DANYCH

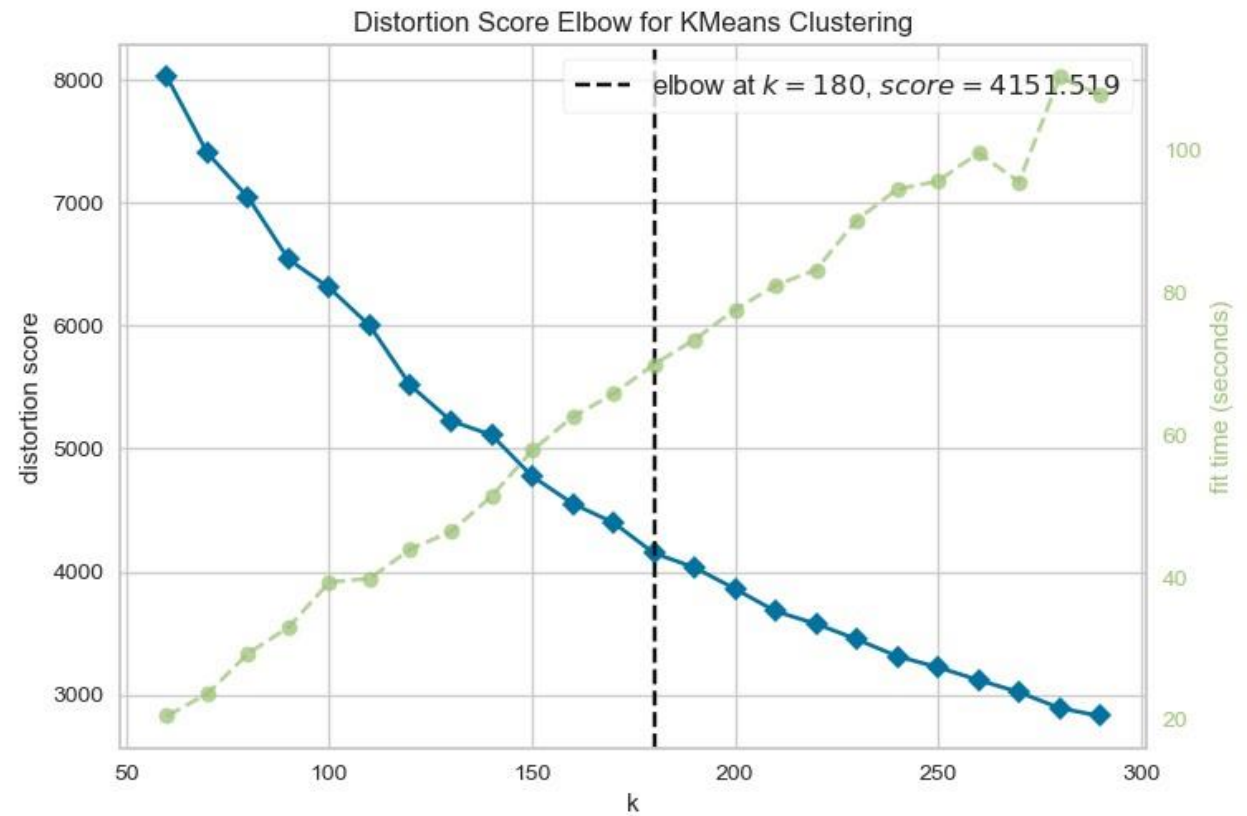
SPRAWDZENIE KORELACJI

'asus' : 'zenfone' Korelacja: 0.9804701358002206

'hobbs' : 'russell' Korelacja: 1.0

```
to_drop = ['powertel', 'iphone', 'aquaris', 'rb', 'is', 'sim', 'dual', 'tm', 'cpa', 'porsche', 'design', 'explore',  
           'hfo', 'hio', 'hip', 'rsg', 'neffos', 'mg', 'mic', 'xwde', 'ftz', 'kit', 'rpd',  
           'eos', 'quattro', 'pixpro', 'sempron', 'opteron', 'plus', 'galaxy', 'honor', 'xs', 'aw', 'pc', 'cpa', 'halo',
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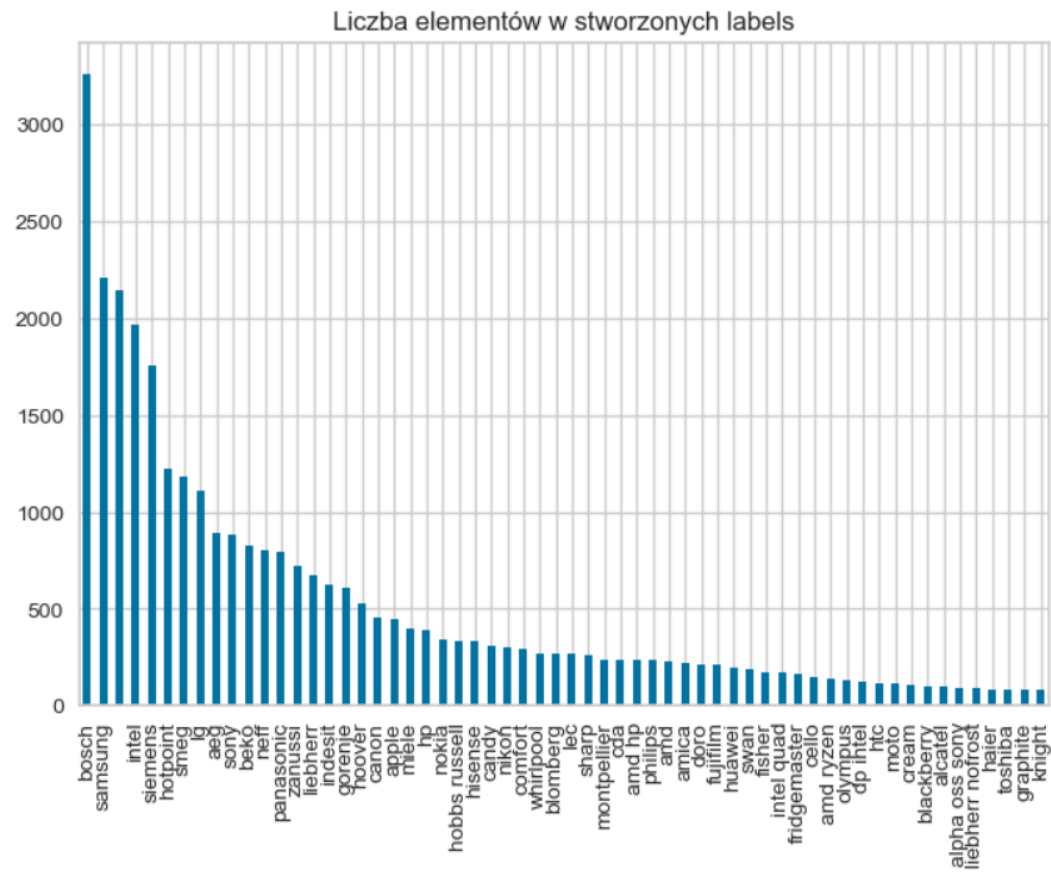
ELBOW METHOD



	ClusterLabel	aa	ac	aces	access	ace	acer	action	adapter	adelberg	...	you	zanker	zanussi	zenfone	zero	zoom	zte	zylo	cluster	label
0	apple iphone 8 plus 64gb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.000000	0.0	0.0	0.0	0.0	18	apple
1	apple iphone 8 plus 64gb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.000000	0.0	0.0	0.0	0.0	18	apple
2	apple iphone 8 plus 64gb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.000000	0.0	0.0	0.0	0.0	18	apple
3	apple iphone 8 plus 64gb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.000000	0.0	0.0	0.0	0.0	18	apple
4	apple iphone 8 plus 64gb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.000000	0.0	0.0	0.0	0.0	18	apple
5	apple iphone 8 plus 64gb	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	...	0.0	0.0	0.0	0.000000	0.0	0.0	0.0	0.0	18	apple

KMEANS - 180

BADANIE STWORZONYCH LABELS





BADANIE STWORZONYCH LABELS

WSPÓŁCZYNNIK SILHOUETTE

Współczynnik silhouette: 0.8142936735267928