

WHY THERE ARE SO FEW ERC GRANTS IN "NEW EUROPE"

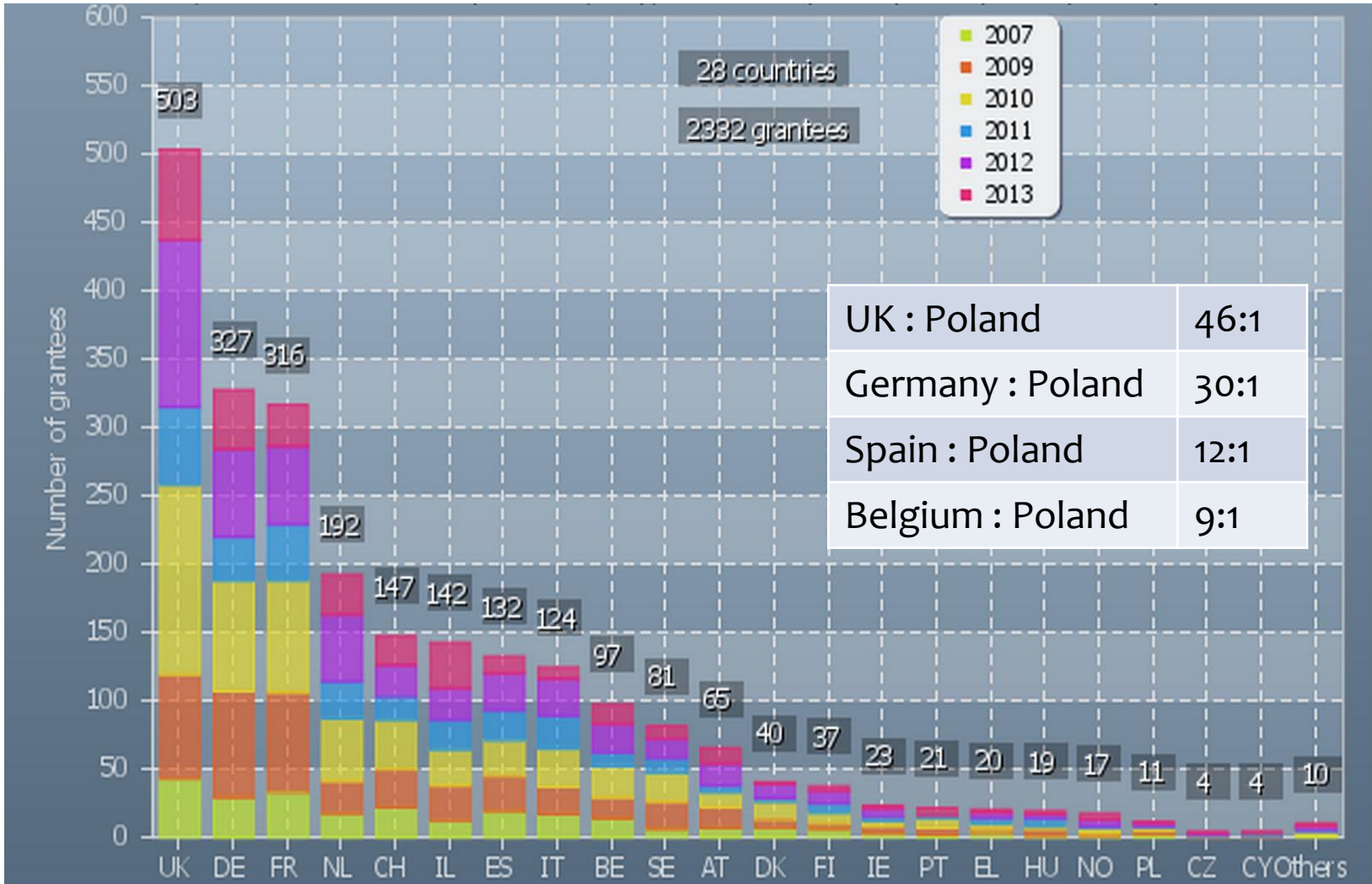
STEFAN
DZIEMBOWSKI



UNIVERSITY
OF WARSAW

The situation

(starting grants)



Not good at **getting grants**, or not good at **doing science**?

		# of papers in Nature in 2012
1	USA	2236
3	UK	667
4	Germany	594
10	Spain	175
20	Belgium	113
22	Poland	20

Number of papers in
Nature in 2012

UK : Poland	112:1
Germany : Poland	30:1
Spain : Poland	9:1
Belgium : Poland	6:1

Reasons?

Possible answers:

1. Historical reasons?
2. Scarce funding?
3. Wrong system?

Scarce funding?

		Expenditures on R&D (billions of US\$, PPP)
1	USA	405.3
2	China	296.8
3	Germany	69.5
7	UK	38.4
14	Spain	17.2
21	Belgium	6.9
23	Poland	6.9

UK : Poland	5.5:1
Germany : Poland	10:1
Spain : Poland	2.5:1
Belgium : Poland	1:1

Polish system



In bibliometrics we trust!

Key ingredient:
the ministerial list of journals

NATURE	50
ACM COMPUTING SURVEYS	50
JOURNAL OF THE ACM	45
INFORMATION AND COMPUTATION	25
Cement Wapno Beton	20
Drewno	15
ZYWNOSC-Nauka Technologia Jakosc	15

STOC	0
FOCS	0
SODA	0
LICS	0
CAV	0
POPL	0
CRYPTO	0

What is Poland good at?

Producing a high **number** of papers!



UK : Poland	5:1
Germany : Poland	4.5:1
Spain : Poland	2.3:1
Belgium : Poland	1:1.2

		# of papers	citations
1	USA	582.655	1.755.731
2	China	404.910	617.982
3	UK	164.705	519.334
4	Germany	153.663	472.875
10	Spain	80.977	223.577
20	Poland	33.991	66.273
22	Belgium	28.638	102.234

Polish system prefers **quantity** over **quality**

Example:

Iuventus Plus grants for young scientists (around 200 grants each year, max 300.000 PLN, duration: 2 years)

First selection based **purely** on a formula:

$$O_i = 60 \frac{(P + M)_i}{(P + M)_{\max} \square}$$

Summary

