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Data A	Data Analysis				S ASTON Business School		
VRS	VRS efficiencies for each year:						
	1999-00	2000-01	2001-02	2002-03	2003-04	2004-05	
Mean:	85.23	84.33	82.24	80.64	84.11	82.70	
Median:	86.57	88.25	82.79	79.26	84.89	82.83	
Stdev:	13.42	14.86	14.79	14.66	13.24	13.92	
Min:	37.32	31.79	27.12	40.76	42.17	42.20	
Q1:	76.57	71.25	71.23	70.14	73.88	71.87	
Q3:	98.70	100	98.85	94.65	97.76	95.94	
-Efficiencies not comparable across years;							
- Wide range in efficiencies in each year;							
	-Stal stab	ble media le spread	an and sta of perfor	andard de mance o	eviation s ver time	uggests	











Bottom produc	Bottom two HEIs on productivity				S ASTON Business School		
Data for 2	2004/5 – co	onstant	prices, No	ormalised so	that 1999/00	= 1	
Prod Index	Admin staff cost	OPEX	Student income	Non Admin staff	Res'arch grants	QR	
0.7	1.93	0.98	1.23	0.9	1.23	0.81	
0.74	1.41	1.42	1.04	0.98	1.05	10.8	
In both un admin sta	iversities ff costs a	the nori gainst r	malised c nodest ris	lata show s se or even d	ubstantial ris rop in activit	se in ies.	
	clar clation IAs						

Top thr	Top three HEIs on productivity					S ASTON Business School		
Data for 200)4/5 – COI	nstant p	rices, No	rmalised so	that 1999/	00 = 1		
Prod Index	Admin staff cost	OPEX	Student income	Non Admin staff	Res'arch grants	QR		
1.59	0.82	0.62	1.07	1.30	1.59	1.14		
1.35	0.89	0.92	1.26	1.28	0.9	0.41		
1.34	0.98	0.94	1.23	1.30	1.96	1.12		
In these thre costs fall ove income.	In these three universities that gain the most in admin productivity, admin costs fall over time while outputs rise, with only two exceptions on research income.							
	sounded for (ssociation / MEAs							









Old v	/s. New l	es	S ASTON BUSINESS SCHOOL		
	VRS catch up	Scale Eff. Catch up	Boundary Shift	Malmquist Index	
Old	1.0118	1.0034	0.9711	0.9610	
New	0.9295	0.9913	1.1258	1.0354	
 The picture of New is the reverse of Old HEIs. Where Old HEIs gain New HEIs regress and vice versa The difference is greatest on boundary shift where New HEIs clearly reflect on an improving boundary (but that boundary is not necessarily defined by New HEIs) 					
EQUIS					







	S ASTON Business School
Þ	What is significantly different between administrative staff on the one hand and OPEX or the two joint inputs on the other is that benchmark performance improves on average by about 8% between 1999/00 and 2004/5.
Þ	Unfortunately non benchmark units cannot quite keep up with this higher productivity. Also there is a slight deterioration again in scale size efficiency and the net effect is that despite the improved benchmark productivity, productivity on average is stable to slightly down between 1999/00 and 2004/5.
•	As with cost efficient practices here too our analysis has identified a small set of units which register significant productivity gains and others which register significant productivity losses between 1999/00 and 2004/5. An investigation of the causes in each case would be instrumental for offering advice to other units on how to gain in productivity over time and avoid losses.
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