

# Some notes from 'Advanced Planning Techniques' module

Part of BSc (hons) Customer Contact Planning & Management



#### BSc (Hons) Customer Contact Planning & Management

- First global degree for those in Contact Centre Industry
- Has a dedicated pathway for Resource Planners
- Delivered by The Forum & Ulster Business School
- Can be completed in 2 years for less experienced in industry or 15-18 months for those with extensive experience
  - Contact john.casey@theforum.social for more info





Raising Standards in Customer Operations

### **Forecast Accuracy**

Ulster

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<b>Measuring Fore</b>	ecast Accura	acy				
	For	ecast Actua	l Dif	ference Pei	rcent	Accuracy of
08:30	09:00	342	291	-51	-14.9%	Forecasting m
09:00	09:30	399	343	-56	-14.0%	be measured h
09:30	10:00	461	499	38	8.2%	/
10:00	10:30	511	582	71	13.9%	
10:30	11:00	576	649	73	12.7%	
11:00	11:30	605	578	-27	-4.5%	
11:30	12:00	572	513	-59	-10.3%	
12:00	12:30	505	412	-93	-18.4%	
12:30	13:00	456	540	84	18.4%	
		4427	4407	-20	-0.5%	NOT HERE!

/ of ing must ured here







### **Forecast Accuracy – DO THIS**

Measuring Forecast Accuracy					
	For	ecast Act	ual Di	fference Pe	rcent
08:30	09:00	342	291	51	14.9%
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12:00	12:30	505	412	93	18.4%
12:30	13:00	456	540	84	18.4%
		4427	4407	552	

Make all differences positive

This shows that positive and negative are equally inefficient





## **Forecast Accuracy – DO THIS**

Measuring Forecast Accuracy						
	For	ecast Act	ual D	oifference	Percent	
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12:30	13:00	456	540	84	18.4%	
		4427	4407	552	12.46%	

Divide the total of the differences by the forecast total.

This figure gives you weighted average of the differences across day





### **Targets**

- 5% accuracy is urban myth
- Poisson distribution shows the effect of noise / randomness
- Need 1600 calls per interval to be consistently 2.5% over or under – and this only 2/3 of the time. Will hit double that (5% over or under) 95% of time
- Assumes all other factors and call reasons do not change

AVERAGE CALL VOLUME PER INTERVAL	POISSON LIMIT √(call volume)	% SPREAD v(call volume) / call volume
10	3.16	33%
25	5	20%
64	8	13%
100	10	10%
400	20	5%
1600	40	2.5%



Raising Standards in Customer Operations



# The best target is to try and make your next forecast accuracy better than the previous!





### **Understand scale**

Calls/day	5% inaccuracy	Extra Agents	Cost (UK) / yr
100	+/- 5	0	Nil
500	+/- 25	0.5 - 1	£20,000
1000	+/- 50	1 - 3	£50,000
5000	+/- 250	5 - 10	£250,000

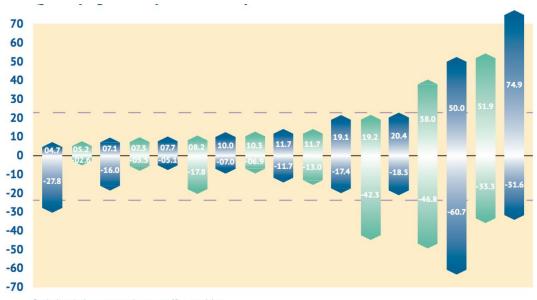
### Can a 5000 calls per day centre live with always being 5% inaccurate?

Assuming agent takes 20 – 30 calls per day. Total loaded cost of agent £25,000 per year.





## **Don't ignore volatility**



Scale is relative to your chosen staffing position

Shows volume variation for several centres from the average volume.

e.g.One company can be 75% above average or 31% below across period of time.







### **Student Thoughts**

A lot of forecast inaccuracy is caused by colleagues in the business doing 'dumb things'.

It's the intraday which unstable and of course that is what our key customer (Schedulers) need to be accurate

I have just realised what a difference I can make – 1% forecast accuracy equals 20FTE or £500,000 per annum





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