

A DISASTER

WAITING TO HAPPEN:



	A	B	C	D	E
1	Why Risk Your Most Important Calculations to Spreadsheets?				
2					

KPMG

PRICE WATERHOUSE COOPERS

OLSON & NILSEN



	A	B	C
1	A study taken by KPMG found	91%	of 22 spreadsheets taken from an industry sample contained errors ¹

KPMG

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	A	B	C
2	Similarly, Price Waterhouse Coopers found	90%	of all spreadsheets comprised of more than 150 rows contained errors ²



KPMG

PRICE WATERHOUSE COOPERS

OLSON & NILSEN

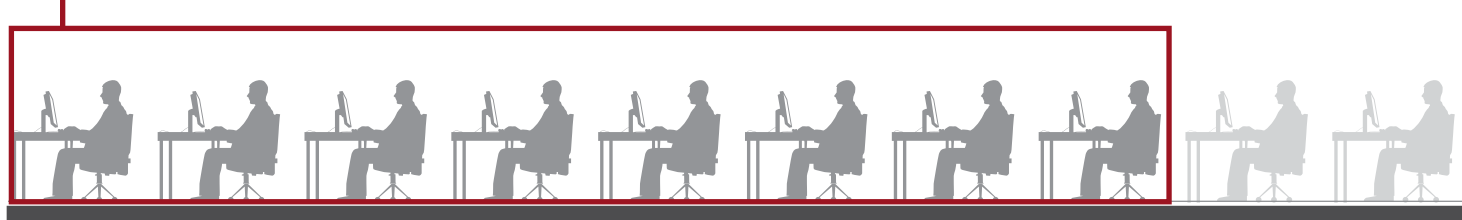


	A	B	C
3	A study by Olson & Nilsen found a	21%	cell error rate (the ratio of cells with errors to all cells) among experienced spreadsheet users ³

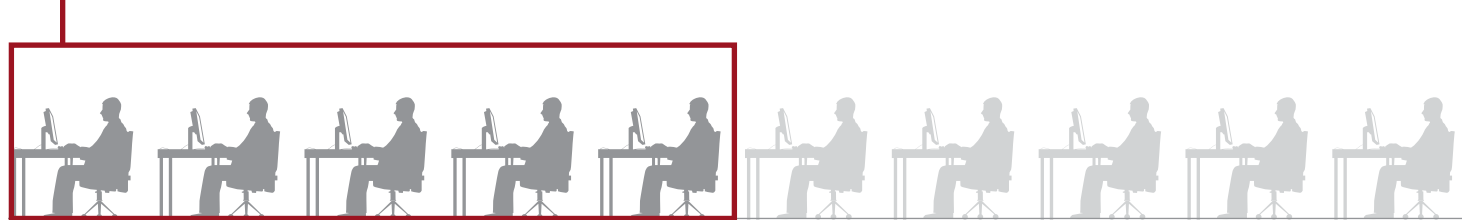
But don't expect that being **careful** will prevent **all errors!**



	A	B	C	D
4	Spreadsheet developers miss more than	80%	of their own errors ,	



	A	B	C	D
4	and outside testers miss over	50%	of design logic errors and	



	A	B	C
4	34%	of application errors . ³	

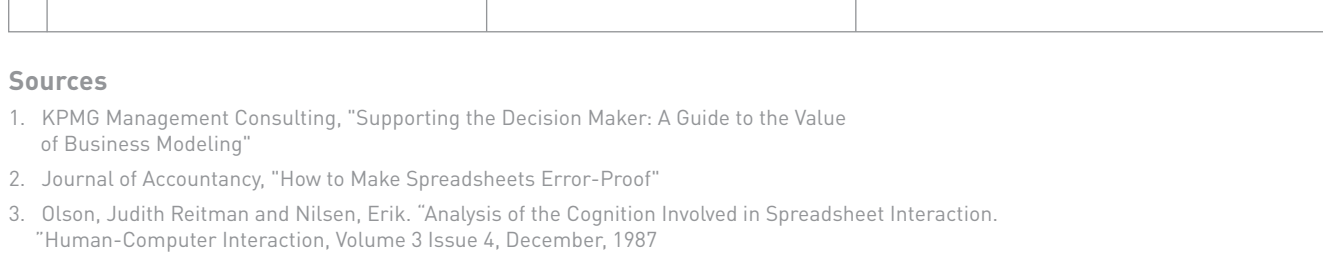


	A	B	C
5	Engineers who use a spreadsheet-based approach spend	15-25%	of their time just manipulating data

And this **costs** the company **money!**



	A	B	C
6	Out of 25 operational spreadsheets studied by S.G. Powell ,	10 had an error impact ranging from	\$216,806 to \$110,543,305 ²



Out of **25** operational spreadsheets studied by **S.G. Powell**, **10** had an **error impact** ranging from **\$216,806 to \$110,543,305**²

Sources
 1. KPMG Management Consulting, "Supporting the Decision Maker: A Guide to the Value of Business Modeling"
 2. Journal of Accountancy, "How to Make Spreadsheets Error-Proof"
 3. Olson, Judith Reitman and Nilsen, Erik. "Analysis of the Cognition Involved in Spreadsheet Interaction." "Human-Computer Interaction, Volume 3 Issue 4, December, 1987"

To learn more about the solutions that can help you work more efficiently with engineering calculations, visit PTC.com/product/mathcad



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