

Overview

- Cost, Price, & Cost Drivers
- Serial Processing Drilling Example
- NRE
- Advanced Process Technology
- Profitless Prosperity
- Cost Savings
- Summary

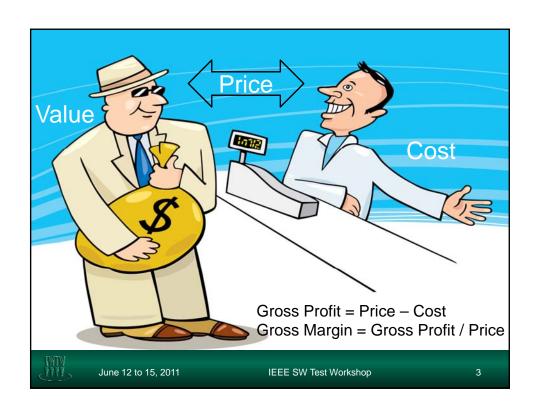
Note: price/cost examples are approximate and from multiple vendors not necessarily those identified or shown.

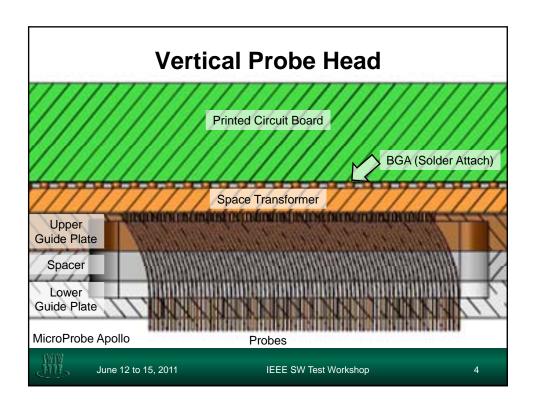


June 12 to 15, 2011

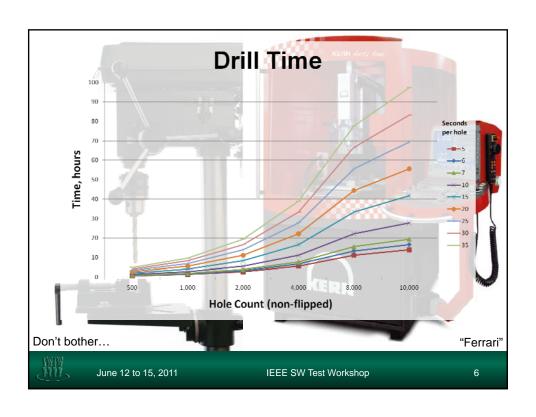
IEEE SW Test Workshop

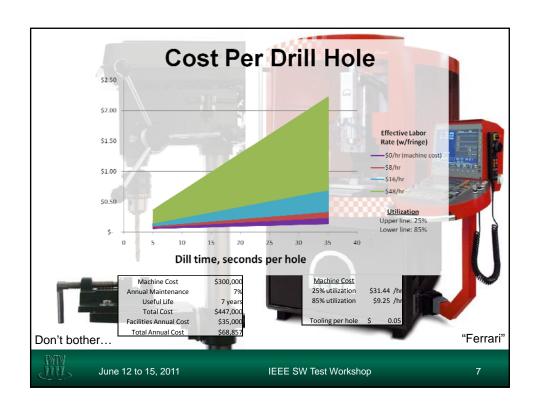
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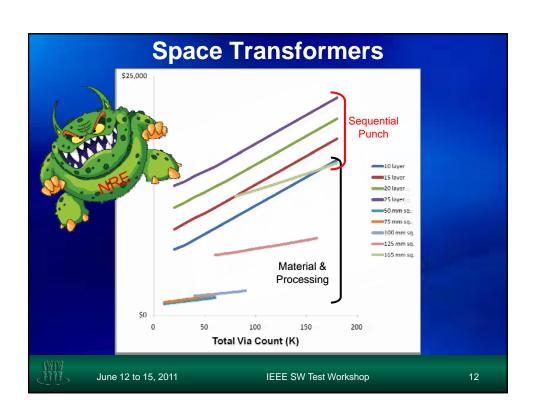


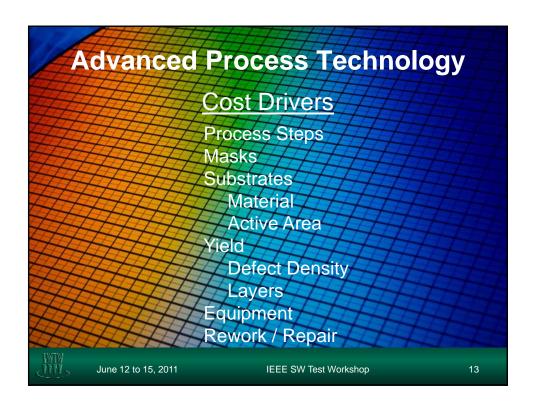


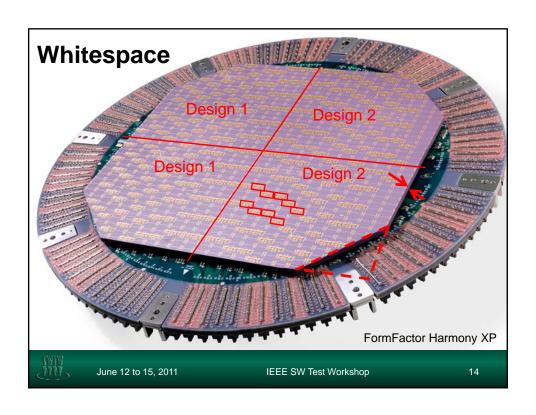
		Engineering Expense	
Architecture	Design	Tester	Customer
R&D	NRE	NRE	NRE
		2	
Design Input	X	Vo n	X
Probes	0	10101	?
Guide Plates	X	7 0/	
Space Transformer	X	100	400
Interposer	? .		MA
PCB Design	X (External?)	X	?
PCB Fab	External	?	?
Mechanical H/W	?	X /3/	?
Electronics	?	- 3	?
Metrology	X	X	?
Packaging		Х	?

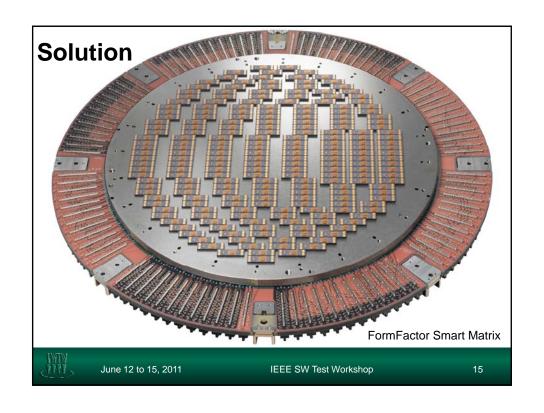


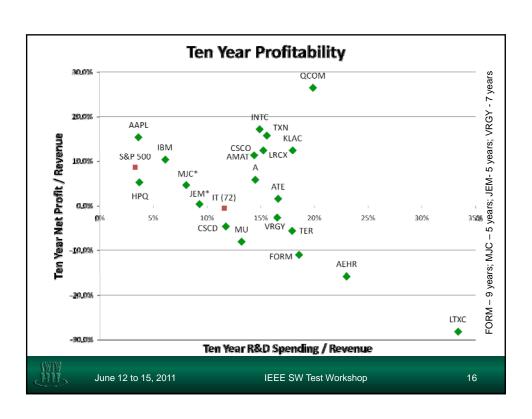
		Spring Pin	Elastomeric	Molded Frame
Small Area	NRE	\$.5 - 1 K	\$2 - 3 K	\$20 - 30 K
	\$ / contact	\$1 - 10	\$.5060	< \$.2040
Large Area (1/4 wafer +)	NRE	EM.	\$10 - 15 K	\$100 - 150 K
	\$ / contact		\$.40 50	< \$.1020
-	4.3		Installed	13
				2525

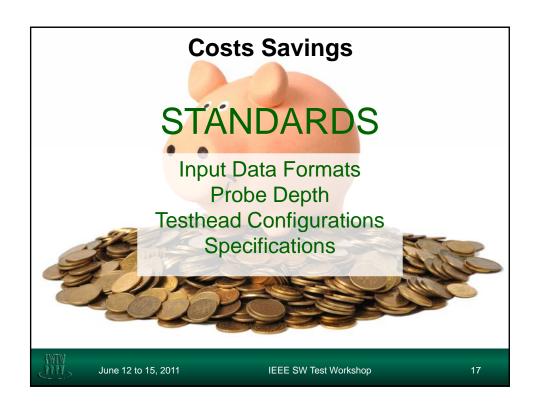














Acknowledgments Amphenol InterCon Systems BucklingBeam FormFactor ISC Kern Robin McAdams MicroProbe Sergio Perez SV Probe Frank Swiatowiec

