

SIXTEENTH ANNUAL

BiTS

TM

Burn-in & Test Strategies Workshop

March 15 - 18, 2015

Hilton Phoenix / Mesa Hotel
Mesa, Arizona



Archive – Session 7

Session 7

Valts Treibergs
Session Chair

BiTS Workshop 2015 Schedule

Solutions Day

Wednesday March 18 8:00 am

All That Glitters Is Or Is Not Gold

"One piece spring probes in one piece house socket (The best cost socket solution)"

AJ Park & JD Cho - IWIN Co. Ltd.

"MEMS rubber contact for TEST socket"

Justin Yun & BoHyun Kim - TSE Co., Ltd.

Do You Believe In Leprechauns?

"Marketplace Report"

Ira Feldman - Feldman Engineering Corp.

"A Testing Time for Test Socket Suppliers"

John West - VLSI Research

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A Testing Time for Test Socket Suppliers

John West
VLSI Research



2015 BiTS Workshop
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VLSIresearch

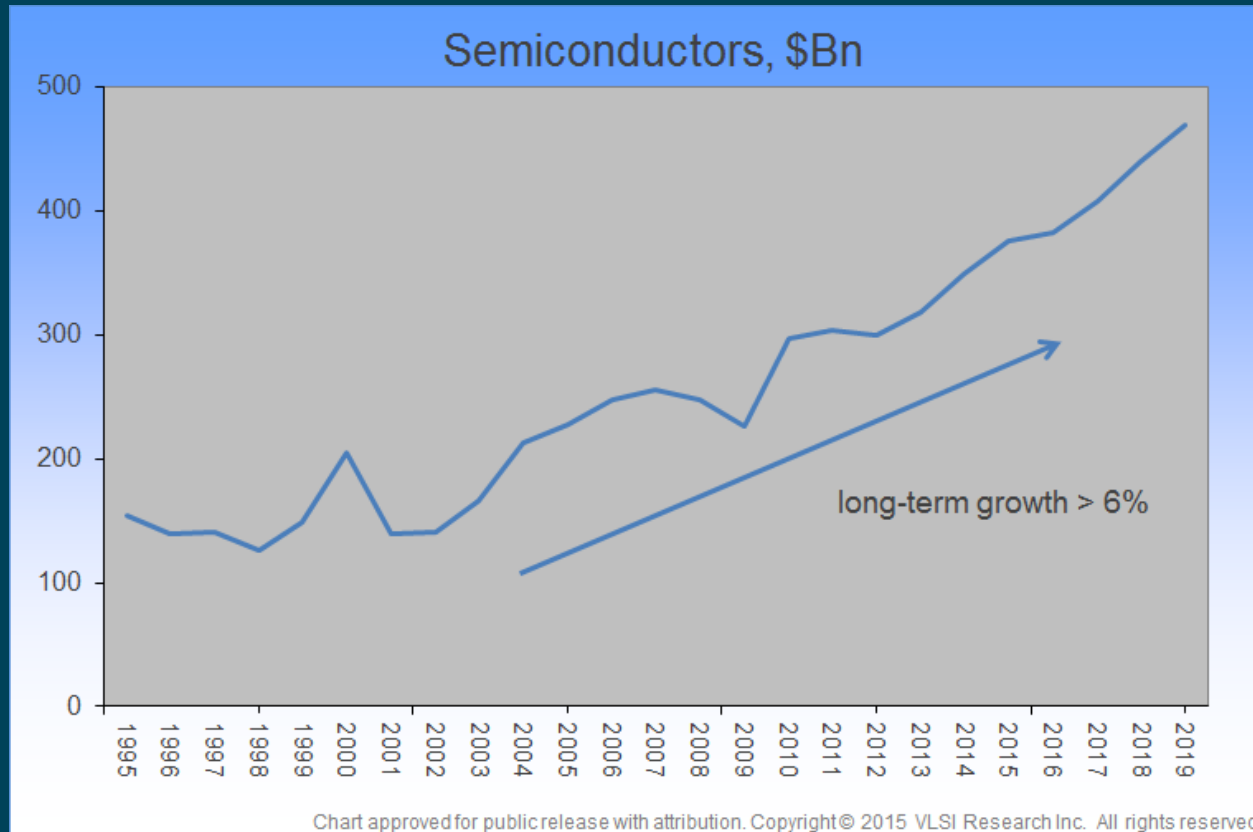
Contents

- Perspective
- Semiconductors
- Cost of Test
- Key Issues
- Challenges and Opportunities
- Outlook 2015

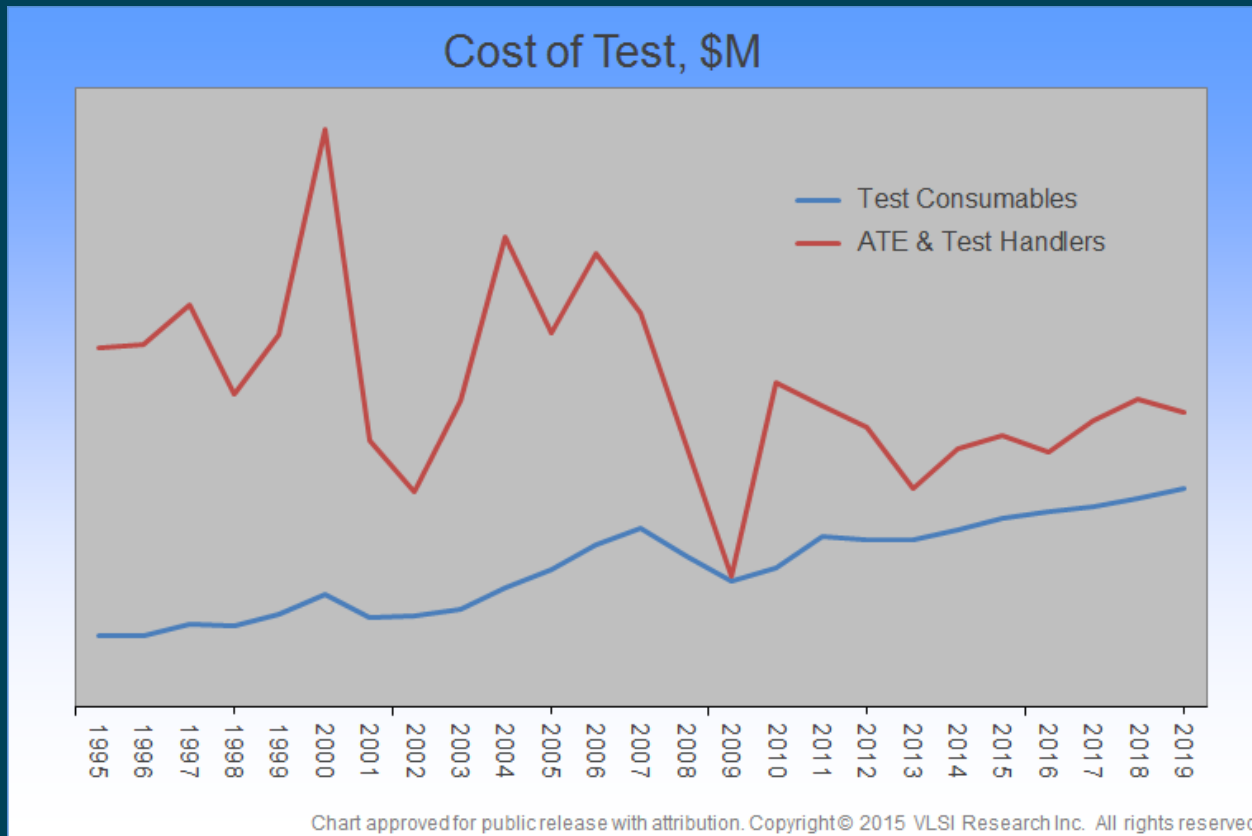
A Billion Dollar Industry

- Test and Burn-In Socket Market
 - Around \$1Bn Annual Revenues
 - Highly Fragmented - Over 70 Suppliers
 - Revenues Growing
 - Technology Continues to Evolve

Semiconductors keep on growing...



...but so does the cost of testing them

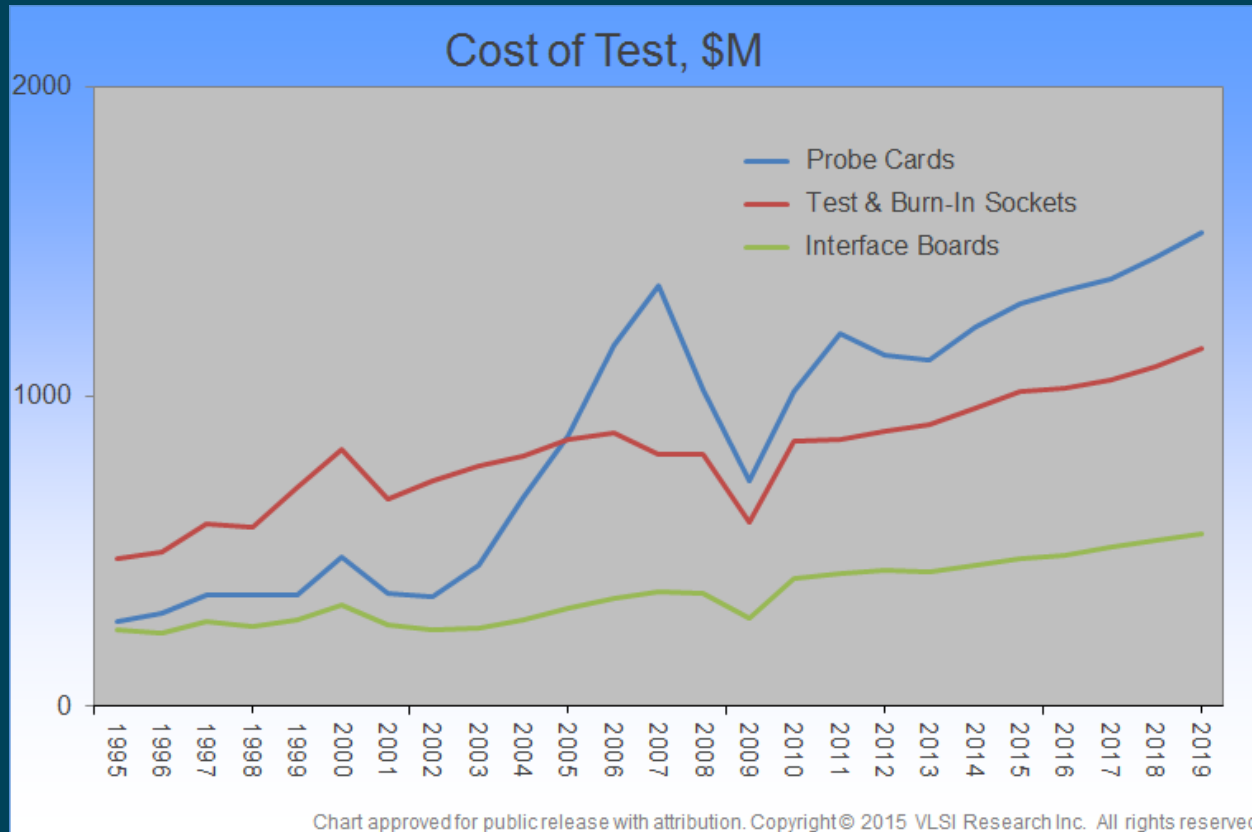


Other Costs are Growing too...

- Service and Support
- Spare Parts
- Systems Test
- Software

Hard to quantify, but evidence suggests these costs are growing faster than semiconductors

Test Consumables Can be Measured so are Easy Target for Cost Reduction



Top Level Data Hides the Key Issues

- Test Consumable Spending for sub 32nm Technology Growing Faster than Semiconductors
- Number of Suppliers Able to Keep up is Likely to Fall

Challenges and Opportunities

- Technology Roadmap Driven by Chipmakers and Designers
- Supply Chain Constraints
- Trusted Partnerships

Outlook for 2015

- Semiconductors up 7.7%
- Test Consumables up 5.9%
- Test and Burn-In Sockets up 6.1%