

# Rapid Development of the SEMI Equipment Data Acquisition Specification Suite on the Microsoft .Net Platform

## Executive Summary

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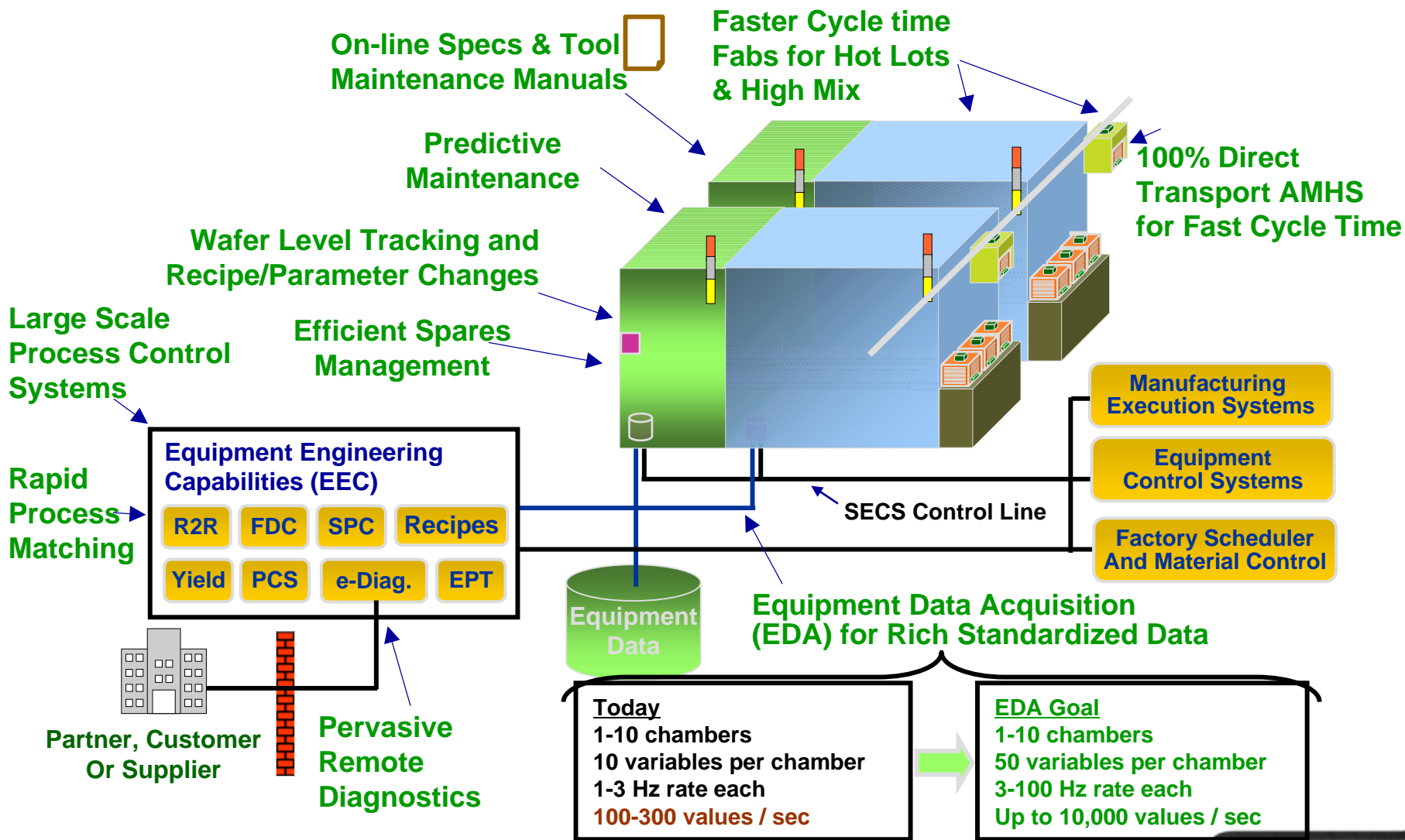
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INTERNATIONAL SEMATECH



# “e” Attributes of Future Fabs - ITRS



Semiconductor Industry Association. The International Technology Roadmap for Semiconductors, 2003 edition. International SEMATECH: Austin, TX, 2003.

# This Case Study

## Approach

- **Open, pre-competitive prototyping / integration effort between Applied Materials (equipment simulator), Intel (data consumer), and Microsoft (performance testing lab facilities, platform expertise)**

## Accomplishments

- **Integrated independently-developed Equipment and Consumer Interface A software**
- **Expanded Interface A implementation coverage to >70% within 4 months**
- **Beat high-end industry data throughput targets**
- **Characterized performance and document methodology, lessons learned**
- **Sharing development experience**

# ISMI Messages

- **Interface A, like APC, will prove to be a differentiating competitive advantage**
  - For Suppliers (enables e-Diagnostics, accelerates equipment maturity, reduces time to money)
  - For IC Makers (improves yield and manufacturing performance)
- **Interface A is here now**
  - Specifications published, commercial products in current release
  - IC Maker requirement
  - Cost-effective entry and integration through modern, open multi-platform IT-standard technologies
  - Properly architected systems can significantly exceed performance requirements