

## Trends In Fab Development

### Fab Conversion to 300mm

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For the year 2003 and 2004 (to date), the construction value of 300mm factories represents more than 85% of all fab construction world wide. The construction of factories of  $\leq 150$ mm is near zero dollar value. This rapid transition to 300mm is bringing significant interest in the possibility of remodeling existing, older technology, facilities and converting them to 300mm.

This paper will review business and economic conditions under which the conversion to 300mm become attractive and the technical issues associated with the conversion.

Consideration will be given to such business and economic requirements as product market, fab size and the impact on product cost, schedule, operation during conversion and project cost.

Technical issues related to cleanroom technology, utility requirements, ceiling height, vibration and AMHS requirements will be reviewed and related to conversion strategies.