

Cost Effectiveness of 3D Integration Options

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The available manufacturing options for 3D integration have different impact on the cost of a 3D-stacked system. Using the 3D cost model developed at IMEC, the cost of different integration options is analyzed and the cost effectiveness of different technology solutions is compared. Furthermore, the effect of different TSV geometries on system manufacturability and cost is investigated. The effectiveness of different TSV redundancy and repair approaches is also evaluated. Finally, the impact of 3D testing strategies on system cost is also investigated.