

# The €3.8M Yield Impact Model

In high-volume fabs, sampling-based review introduces uncertainty. And uncertainty drives conservative scrap. The result: a structural, multimillion-euro yield gap.

## TODAY

### In a Representative High-Volume Fab Scenario

- ± 730,000 wafer starts/year
- 25 wafers/lot
- 4 wafers reviewed/lot (±16%)

#### Where Yield Is Lost

- 1 over-contained lot/day
- 21 good wafers lost per lot/day
- 365 days/year

#### Financial Impact

- ±€3.3M avoidable yield loss/fab/year

## WITH ROBOVISION

### With Full-Coverage, Automated Wafer Review

Decisions move from inference to evidence, improving classification accuracy that leads to yield recovery.

#### Yield Recovery Impact

- ±90% classification accuracy
- Majority of over-containment avoided
- ±7,600 wafers recovered/year
- ±7M dies recovered/year

#### + Additional Value

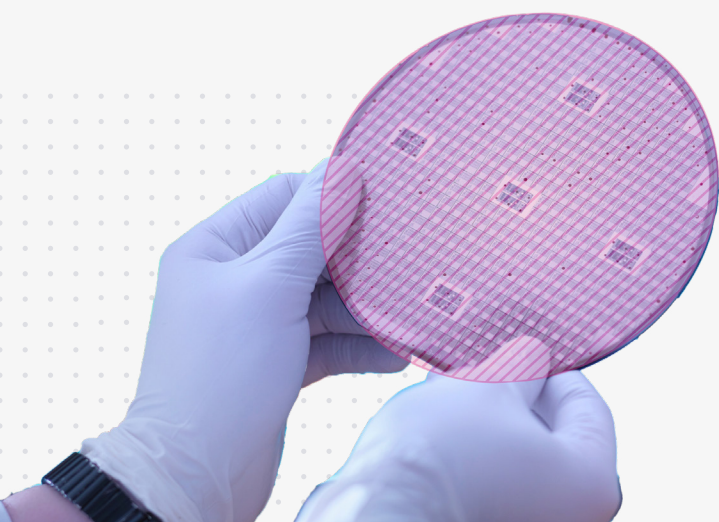
##### Nuisance Signal Reduction

- Separate real defects from noise
- More consistent decisions
- ±€197,000

##### Operational Efficiency

- Less manual review
- Faster decisions
- Reduced workload (34%)
- ±€570,000

**TOTAL RECOVERABLE VALUE**  
**± €3.8M/fab/year**



# Recovering Yield with a Production-Grade Decision Layer

Achieving full-coverage evaluation requires more than a single capability.

It depends on a set of complementary applications within a unified inspection and decision layer, bringing together:



## Automated Defect Classification

Consistent decisions at scale



## Drift Monitoring

Sustained performance over time



## Segmentation & Measurement

Precise defect sizing and localisation



## Lightweight Deployment

Works with existing AOI and MES



## Spatial Signature Analysis

Pattern detection across wafers and lots

## Designed for Existing Fab Environments

Better decisions can be made at scale, without changing infrastructure or inspection setup.

- **No changes to AOI systems**
- **MES authority remains unchanged**
- **Human validation preserved**

Value comes from improving how inspection data is interpreted, making inspection outputs more actionable and consistent.



This €3.8M scenario is one example based on a specific production profile. To quantify your own yield opportunity, use our **interactive ROI calculator**.

[LAUNCH CALCULATOR](#)

And to learn more about the financial and operational impact of a more scalable review approach, **head to our blog**.

[READ BLOG](#)