

CLEAN V THE ROOM V SUBFAB

5 KEY REASONS TO ALIGN



Equipment

1. A holistic view of equipment to uncover improvements



Multi-vendor environments

Highly automated environments with tools grouped by processes. This can mean there are equipment silos across the cleanroom.

Fleet management

Equipment appears similar in design and operation, but there is a huge variation in the fleet according to the process supported.



2. Better use of SubFab data to improve system effectiveness



Data intensive

Constantly monitoring vacuum levels. Most of these vacuum sensors are add-ons, typically not natively integrated with the process tools.

Integrated sensors

Hundreds of parameters measured and available to optimize performance.



Maintenance

3. Prescriptive or predictive approach to reduce downtime



65% addition time for corrective maintenance

Condition or time based

Available data analytics supports a condition based predictive maintenance approach.

Mostly corrective

Technology advancements mean longer service intervals but unplanned downtime remains a risk for state-of-the-art processes.

Service schedule



4. Synchronize servicing to optimize tool uptime



Proactive

Intensive servicing, well scheduled and completed on-site. Optimized for lowest risk and uncertainty, not highest uptime.

Often run-to-fail

Optimized for maintenance spend, not lowest risk and uncertainty. Downtime impacts wafer throughput, yield and profitability.

Skills



5. More accessible vacuum system domain knowledge

Mainly Onsite

Highly skilled resources on process and yield are mostly available to access onsite.

Onsite and Offsite

Hands-on problem solving onsite and vast amounts of expertise behind the scenes in the application and service sites.

Source: edwardsinnovation.com/operationalexcellence