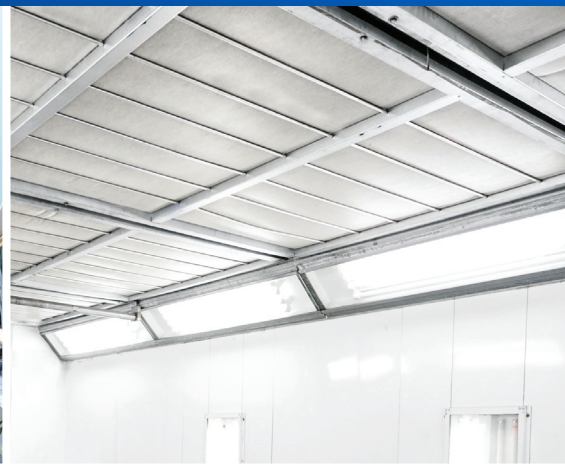


PAINT BOOTH EXCELLENCE

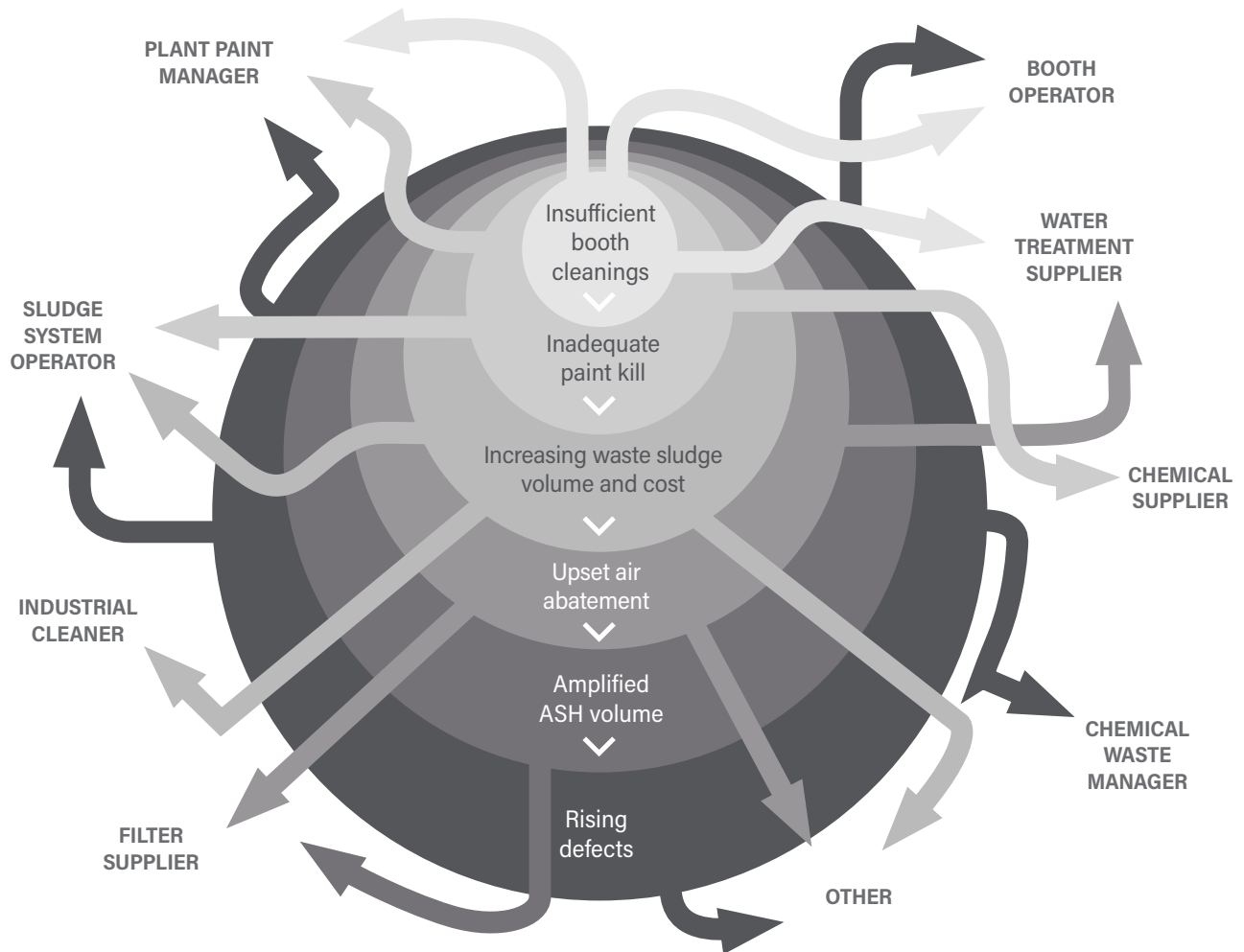
First-time quality | Accountability | Optimized cost



Managing your paint booth is complex, leaving no room for error.

Paint booths can consume up to 70 percent of the energy and water used in an automotive assembly plant.

A failure in one area can have a ripple effect on the entire process.



Managing multiple suppliers further compounds your risk.

Determining the source of a problem - as well as which supplier (or suppliers) can resolve it - can be difficult and time-consuming.

One failed job can cost up to

\$750

to rerun.

Poor chemical treatment may result in up to

40 Tons

of paint sludge buildup each year.

Streamline your process with Nalco Water.

Achieve paint booth excellence with a single point of contact to help you increase first-time quality rates, simplify supplier accountability and optimize your costs.

Simplified supplier and process accountability:

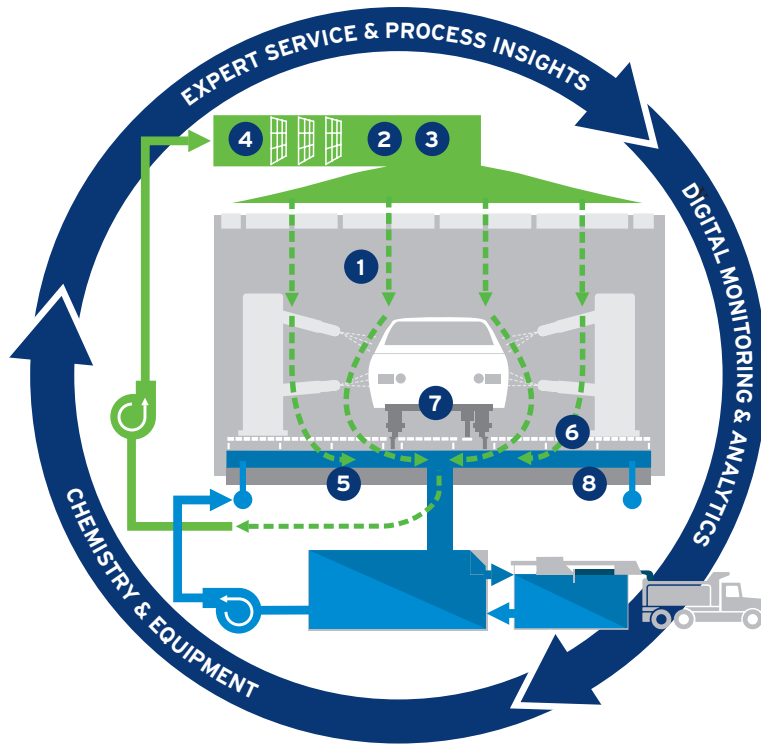
- 1**

Air flow and balance:
Comprehensive downdraft, cross-draft air management
Up to **20%** reduction in defects per unit*
- 2**

Air supply house and VOC abatement:
Operational control of RTO performance and air scrubber balancing
VOC and GHG compliance
- 3**

Humidification system:
Management of water systems that feed air supply houses
100% RO water availability
- 4**

Filtration management:
Dry and wet filtration performance, monitoring and replacement
Up to **25%** cost savings potential in filter life optimization*



- 5**

Water flow and balance:
Optimized flood sheet flow and water reduction
Up to **25%** water consumption savings*
- 6**

Paint overspray and sludge management:
Maximized sludge solids with APEX™ paint kill
Up to **8%** waste reduction*
- 7**

Dirt in paint:
Comprehensive paint defect and root cause analysis
Up to **65%** reduction of defects per unit (DPU)*
- 8**

Dry booth management:
Booth balance, dry hopper filtration and waste management
Up to **25%** cost savings potential in hopper operations*

Source: Ecolab internal studies

*Results may vary due to factors outside of Ecolab's control, such as water conditions, operational procedures and any other factors. Results to be obtained including, but not limited to, cost and water savings cannot be predicted or guaranteed by Ecolab.



Setting high standards for paint booth excellence

Project overview:

A major North American automotive OEM needed to quickly ramp up production in an assembly plant. After months of installation and operational challenges with numerous contractors, they partnered with Nalco Water to streamline their process, help alleviate their production concerns and mitigate persistent risks, while achieving sustainable CO₂ and VOC compliance.

Results:



5%
improvement in
first-time quality



49%
reduction in category
defects per unit



23%
cost savings in filter
management



20%
cost savings in
waste disposal

Dedicated to partnering with the automotive industry worldwide:

50
OEM assembly plants
with paint booth expertise

21,750
system checkpoints
tracked annually per site

Up to
10%
reduction in
paint rework
with defect consultation*

6-8%
improvement in first-
time quality
on average*

Streamline your operations today.

To request a plant survey, please contact your Nalco Water representative.

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