

The 4 decisions a board needs before it is built

Most late problems are not a bad design. **They are a decision no one made early.**

HOW LATE PROBLEMS START

A late surprise is almost always an early decision that no one made.

The 4 decisions

Each one is easy to settle early, and expensive to find late — and each one is a step in APQP.

APQP · DESIGN FMEA

01 A single board with no backup

DECIDED EARLY

The partner decides whether one fault can stop the whole machine, and adds a backup where it is needed.

LEFT FOR LATER

The design is already set, and the first fault in the field stops the whole unit.

APQP · CHANGE CONTROL

03 A controlled change

DECIDED EARLY

Every change after design freeze is recorded and checked again, so an approved unit stays approved.

LEFT FOR LATER

A component or a process changes, nothing warns you, and the new units no longer match the ones you approved.

APQP · DESIGN VERIFICATION

02 A requirement that is a number, not a word

DECIDED EARLY

“Low noise” becomes a value with a pass/fail limit, agreed before anyone builds.

LEFT FOR LATER

Without a number, two engineers build to different targets. It passes one test and fails another at validation.

APQP · CONTROL PLAN

04 A board the line can test on every unit

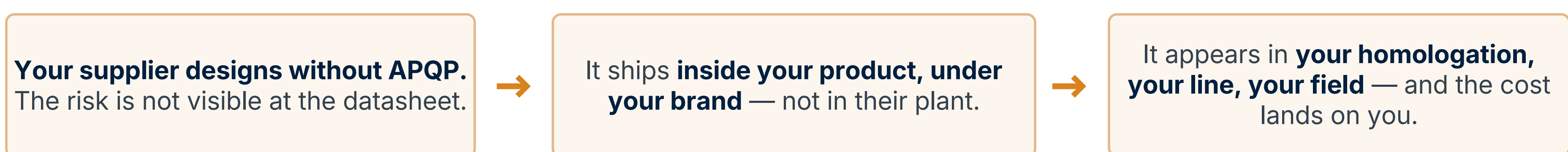
DECIDED EARLY

The layout lets the line measure every critical function on every unit.

LEFT FOR LATER

The line ships what it cannot fully confirm, and the fault appears one unit at a time.

You don't just buy a component. You inherit a design discipline.



APQP

Advanced Product Quality Planning comes from the automotive industry. It plans quality **during the design**, not after. Each decision above is one of its checks — settled early, with you.

Have your current suppliers ever shown you how they plan quality — or only told you?

None of these questions is about distrust. They are about proof. **APQP is not extra paperwork. It is the difference between a part you hope is right and a part you know is right.**



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