

FEASIBILITY STUDY

RFID and RTLS feasibility study checklist

Will this work here, at this scale, for a cost that makes sense? What a feasibility study should contain, what it does not need, and the questions that reveal a weak one. Terms are explained on page 3.

PURPOSE

Three questions the study must answer

- ☐ **Is it physically possible in this building?** Steel, concrete, racking, liquids, ceiling height and what the product is made of.
- ☐ **Does the operation change if it works?** Data that nobody acts on is a failure.
- ☐ **Is the cost in proportion to the benefit?** Tags, infrastructure, integration, and the years after year one.
- ☐ **The study is able to conclude "no",** or "yes, but not the way we planned", before capital is committed.

CONTENTS

What the study should contain

- ☐ **Physical assessment:** construction, racking material and density, ceiling height, obstructions, liquids and metal near tagged items, hazardous area classification, temperature range and electrical noise.
- ☐ **The requirement, stated as a decision:** not "track assets" but "know within a set time that a pallet has left staging, so that the next step can happen". The location detail needed follows from that decision.
- ☐ **Item and volume analysis:** how many items, how often they move, how long they stay and what they are made of.
- ☐ **Technology shortlist with reasons:** every family considered, with a stated reason each is in or out.
- ☐ **Integration assessment:** which systems must change, who owns them, what ID the tag carries, and what happens when systems disagree.
- ☐ **Cost range:** by option, the inputs that move it, and what cannot be costed yet.
- ☐ **Baseline measurement plan:** what to measure now, before anything changes.
- ☐ **A recommendation,** including the option of not going ahead.

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SCOPE CONTROL

What it does not need

- ☐ **A full RF site survey:** that is design work and comes after the technology decision.
- ☐ **A hardware pilot:** "does this product work" is a later question than "is this approach right".
- ☐ **Technology provider demonstrations as evidence:** they usually show the best case, often in a setting the provider chose.
- ☐ **If a technology provider must run the study,** define the success criteria yourself, in writing, before they start.

REVIEW

Questions that reveal a weak study

- ☐ **What would have to be true** for the recommendation to be "do not go ahead"?
- ☐ **Which technologies were excluded,** and on what evidence?
- ☐ **What is the location detail requirement based on,** rather than simply stated?
- ☐ **What is the cost per tagged item** at full roll-out, not at pilot scale?
- ☐ **What are we measuring today** so we can prove the change?
- ☐ **Who is paid more** if this goes ahead?

Sign-off

ROLE	NAME AND SIGNATURE	DATE
Operations sponsor		
IT/OT owner		
Procurement		

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A second pair of eyes, before you commit

We are independent advisers on RTLS, RFID and IoT. We do not sell hardware, so we can review a survey, a study, a pilot plan or a design on its merits, and tell you plainly what is missing.

How a TRACIO project works: five stages

1 Discovery

Your pain points, site, process and KPIs.

2 Assess and shortlist

Site survey, then the options that fit compared.

3 Pilot with KPI baseline

KPIs measured first. Pass marks agreed in writing before set-up.

4 Integrate

If useful, one agreed link into your business systems, under your change control.

5 Multi-site roll-out

Only after a go decision, one area at a time.

How a pilot runs: set-up, then live weeks in normal use, then a short written report with a go or no-go.

Questions we hear

"We already have a system."

We give a free second opinion and check how it performs against your KPIs, using your live data and a site visit.

"How do we know it will work here?"

Judge us on method: a pilot, KPIs measured before and during it, and a written go or no-go.

"Can you bid with us, or for us?"

Yes. We team with integrators, or act as the buyer's independent adviser, but never both on the same bid.

"Do you sell or resell hardware?"

No. We don't sell hardware, so our advice stays independent. We rent pilot equipment and offer survey and installation support.

Free second opinion

Send us your technology provider's quote or spec for a free second opinion. What to send: the quote or spec, a floor plan or site photos, item counts and your current process. Bring it to the call or send it via tracio.com/contact.

TRACIO consultancy fees

- **UK:** £3k to £30k per project, £1,200 a day
- **Europe:** €3.5k to €35k per project, €1,400 a day
- **US and Canada:** \$4k to \$40k per project, \$1,600 a day
- **Middle East and Australia:** \$4k to \$40k per project, \$1,600 a day
- **Rest of the world:** \$3.5k to \$35k per project, \$1,400 a day

Scoped per project, no packages. Fees cover our work only; hardware, software licences and other supplier costs are separate. \$ = US dollars. Travel extra.

Why TRACIO: we work for you, not for the technology providers. We compare the options across the market that fit your site, provide site surveys and installation support, and work worldwide under your change control.

Plain-language glossary

Feasibility study: a short study that decides whether an approach is worth pursuing, before design or a pilot.

RFID: radio-frequency identification, tags read by radio.

RTLS: real-time location system, showing where tagged items are.

RF site survey: on-site radio measurements used to design a system.

Baseline: how the KPIs look today, before any change.

Hazardous area classification: zones where equipment must meet explosion protection rules.

Capital: money committed to buying equipment.

IoT: internet of things, connected sensors and devices.

IT/OT: office IT and operational technology, the systems that run the site.

KPI: key performance indicator, a number you track.

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