# RICE and ICE

## Idea In Short

Reach, Impact, Confidence, and Effort [RICE] and Impact, Confidence, and Ease [ICE] are scoring approaches for ranking initiatives. Their scores are prompts for discussion, not objective measurements; teams should preserve the underlying estimates and revisit them as evidence changes. Start by naming the choice and its owner, then write down the assumptions that could change the answer. Use the framework to expose the trade-offs and missing evidence before committing resources. Review the decision when a stated trigger occurs, not only when results disappoint. Before the meeting, name the decision owner and deadline, then agree on what evidence could change the choice. Put assumptions and consequences in the same view. This gives participants a shared basis for discussion and prevents the method from becoming a score detached from action.

Organizations rarely lack opinions when a consequential choice arrives. They lack a shared account of what is known, what must be assumed, and what would make one option preferable. Reach, Impact, Confidence, and Effort [RICE] and Impact, Confidence, and Ease [ICE] are scoring approaches for ranking initiatives. Their scores are prompts for discussion, not objective measurements; teams should preserve the underlying estimates and revisit them as evidence changes. This article turns RICE/ICE into a working management discipline: define the choice, inspect the model, and connect analysis to an accountable action.

## How the model works

Reach, Impact, Confidence, and Effort [RICE] and Impact, Confidence, and Ease [ICE] are prioritization heuristics, not validated universal scales. RICE commonly multiplies reach, impact, and confidence, then divides by effort; ICE often multiplies or averages impact, confidence, and ease, with implementations varying. A ranking can change when teams define reach, impact, or effort differently, so the score should retain its component estimates and time horizon. Confidence is not the same as evidence quality unless the team

defines it. A large score can reflect optimism multiplied several times rather than a better opportunity.

Calibrate scales on completed initiatives before using the scores to allocate a roadmap. Define the unit of reach, the time window, impact anchors, and whether effort includes opportunity cost and dependencies. Run a sensitivity check: would a reasonable change in one estimate reorder the top choices? Keep mandatory commitments and strategic bets visible outside the queue so the formula does not erase them. Review prediction error after launch and adjust estimators, not just scores. Use RICE or ICE to structure discussion, then let accountable leaders explain exceptions. 1, 2

## Public-sector case or practice

National Aeronautics and Space Administration [NASA]'s systems-engineering guidance provides a concrete public-sector practice: scale the analysis to the decision, document assumptions, and spend effort on uncertainty only when it could change the ranking. The quote is a useful stop rule for an executive team requesting another study. This is institutional guidance, not a published evaluation of a single NASA project. It shows how a public decision authority can make uncertainty and criteria part of the record. A leadership team can borrow that discipline while still testing whether the model's assumptions fit its own choice.

> Uncertainty matters in a particular analysis only if there is a non-zero probability that uncertainty reduction could alter the ranking of alternatives. 3

## Define the question this model answers

A useful starting point is to specify the decision rather than announce a broad ambition. A team choosing whether to expand a service, for example, needs to know the choice date, the available options, the consequences that matter, and who has authority to commit. Without that frame, analysis tends to answer a nearby question that is easier to measure. RICE/ICE is valuable when it forces the group to expose this boundary and agree on what the method can and cannot settle.

A product team scores three roadmap proposals with RICE. It defines reach as eligible users over a quarter, impact on a shared scale, confidence from evidence quality, and effort including dependencies. A sensitivity check then reveals whether a modest change in confidence would reorder the top two initiatives.

For RICE/ICE, the key operational measure is not whether participants completed a form. It is whether the framework changed a choice, improved the information gathered, or clarified the conditions for action. If it did none of these, simplify it. If it did, preserve the reasoning in a format that downstream teams can use without reconstructing the debate from memory. The Local Government Association asks public decision-makers to explain reasonable alternatives and why the selected option serves residents, a useful governance discipline beyond the public sector 4.

## Identify the assumptions that matter

The first management test is whether the inputs represent evidence or convention. Organizations inherit targets, forecasts, and labels that can look factual after repeated use. A decision team should identify how each input was produced, who owns it, and how stale it may be. When uncertainty matters, show a plausible range and explain which part of the recommendation changes across that range. That practice makes RICE/ICE a way to discipline attention rather than a device for laundering assumptions into a confident answer.

A practical safeguard is to run a counterfactual review before the meeting closes. Ask what evidence would make the preferred option look wrong, what the strongest rejected alternative would require, and which stakeholder would detect early signs of failure. Those questions do not create certainty; they reveal where the recommendation depends on a fragile premise. A decision owner can then set a modest pilot, a contingency, or a monitoring threshold in proportion to the exposure.

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## Compare consequences in the model

A second test concerns incentives. People who supply estimates may benefit from a particular outcome, while the people who bear implementation costs may enter too late. The decision owner should ask whose information is missing and whether participants face asymmetric rewards for optimism, caution, or delay. This is not a reason to distrust every estimate. It is a reason to preserve provenance and compare claims against independent signals before they determine a large commitment.

## Use disagreement as evidence

The method also changes the conversation by giving disagreement a shape. Instead of asking whether someone supports a proposal, ask which premise, consequence, or priority they dispute. That distinction often reveals that colleagues share a goal but disagree about the likelihood of a constraint or the acceptable cost of a downside. A structured disagreement can be resolved with targeted analysis; a vague disagreement usually produces another presentation and another meeting.

## Decide whether more evidence is worth its cost

A useful application has an explicit stopping point. Analysis has a cost, and additional information is valuable only if it can change the choice enough to justify its price or delay. Teams should identify the next piece of evidence, its expected timing, and the decision it could alter. If no plausible result would change the action, the request for more data is not decision support. This is where RICE/ICE can help leaders protect attention and maintain a credible pace. The UK Government Analysis Standard calls for uncertainty analysis proportionate to the decision and clear communication of assumptions. The UK Government Analysis Standard calls for uncertainty analysis proportionate to the decision and clear communication of assumptions. The UK Government Analysis Standard calls for uncertainty analysis proportionate to the decision and clear communication of assumptions 5.

## Connect the recommendation to delivery

Implementation belongs inside the reasoning. A recommendation that assumes a capability the organization does not have is not an attractive option with a minor execution issue; it is a different option with different costs and odds of success. Put owners, dependencies, and observable milestones beside the proposed action. Then distinguish a failure of the underlying idea from a failure to deliver the conditions the idea required.

## Review the decision and update the method

The decision record should be short enough to use and specific enough to audit. Capture the question, alternatives considered, evidence relied upon, unresolved assumptions, rationale, owner, and review trigger. Avoid recording only the selected option, since that erases the comparison that made it reasonable at the time. A future team can then learn whether a forecast missed, an objective changed, or execution departed from the plan. The Illinois Institute of Technology’s decision-quality framework offers a complementary pre-commitment review 6.

- 1RICE: simple prioritization for product managers
- 2Decision theory
- 36.8 decision analysis
- 4Good practice guidance on principles of effective decision-making
- 5Government functional standard GovS 010: analysis
- 6Decision quality framework

## Summary

RICE/ICE is most useful when it improves the reasoning available before action. Its contribution is a disciplined way to expose assumptions, identify what matters, and connect evidence to a choice. Leaders should adapt the method to the decision’s stakes, time horizon, and information quality, then preserve enough of the rationale to learn later. The outcome will depend on changing conditions as well as judgment, so review the quality of the process separately from the result. After implementation, compare the expected mechanism with observed behavior and record any material departure. Revisit thresholds when new evidence or a changed environment alters the stakes. Use that review to refine the next decision, while keeping the framework’s limits visible.