TOTREP

Idea In Short

TOTREP means Trade-off Talking Rational Economic Person, a stylized model of an agent who compares choices through explicit trade-offs. It is a theoretical character, not a decision-process acronym. 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. TOTREP means Trade-off Talking Rational Economic Person, a stylized model of an agent who compares choices through explicit trade-offs. It is a theoretical character, not a decision-process acronym. This article turns TOTREP into a working management discipline: define the choice, inspect the model, and connect analysis to an accountable action.

How the model works

TOTREP means Trade-off Talking Rational Economic Person, a stylized decision-maker who can articulate and compare trade-offs. It is a character in economic reasoning, not a standardized operational framework. The construct is useful because it makes the assumptions of conventional choice models visible: the agent has stable preferences, can compare alternatives, and can explain a ranking. In real organizations, decision-makers face limited attention, contested values, ambiguity, and social obligations. Treating TOTREP as a literal description of a founder, customer, or public beneficiary would erase precisely the frictions that an executive needs to understand.

Use TOTREP as a benchmark question: what would the choice look like if the actor could compare all relevant consequences consistently? Then identify where the benchmark fails because of information gaps, time, emotion, institutional incentives, or non-comparable values. That gap can guide interviews, process design, or a more realistic behavioral model. Avoid using the label as a synonym for rationality or as a claim that people merely need better spreadsheets. The model's value is diagnostic: it helps reveal what an idealized account leaves out. 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. TOTREP is valuable when it forces the group to expose this boundary and agree on what the method can and cannot settle.

An analyst models a customer as someone who can articulate and consistently trade off price, quality, and convenience. Interviews then reveal customers who cannot compare every feature or who prioritize trust over the modeled attributes. The difference between the

idealized TOTREP and observed behavior identifies assumptions the model should not hide.

For TOTREP, 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 TOTREP 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.

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.

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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 TOTREP 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.

- 1Buridanic competition
- 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

TOTREP 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.