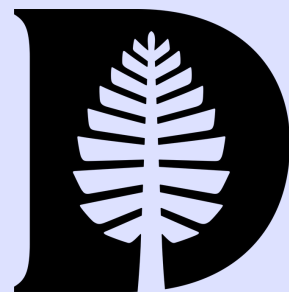


# PREFIT



Predictive Readiness Evaluation for Fit in Emerging Technologies

A framework to validate PMF before building — and before bias breaks it.



TEAM: SIDDHI, SAI & SIA



# ***The Problem Isn't the Lack of Frameworks — It's the Space Between Them.***

## The Core Problem:

Every year, product teams spend billions building features, tools, and platforms they think people want.

**63% of teams use NPS or “How likely are you to recommend?” as their main signal of success**  
(UserTesting Report, 2022)

**57% of PMs admit stakeholder pressure distorts product decisions**  
(State of Product Leadership Report, 2023)

**Only 20% of PMs validate with real behavioral data**  
(Forrester, 2022)

## The Gaps:

Frameworks are born everyday but the gaps they miss are:



Immature User understanding



Misread signals that look like demand



Stakeholder pressure that distorts user truth



Confirmation bias and “validation theater”

## Why it matters?

### **Lululemon sees product flop, analyst downgrade; stock hits four-year low**

Clothing retailer's share price down nearly 52-per-cent year-to-date at its low this morning

**When Microsoft missed: 8 products that failed to succeed**

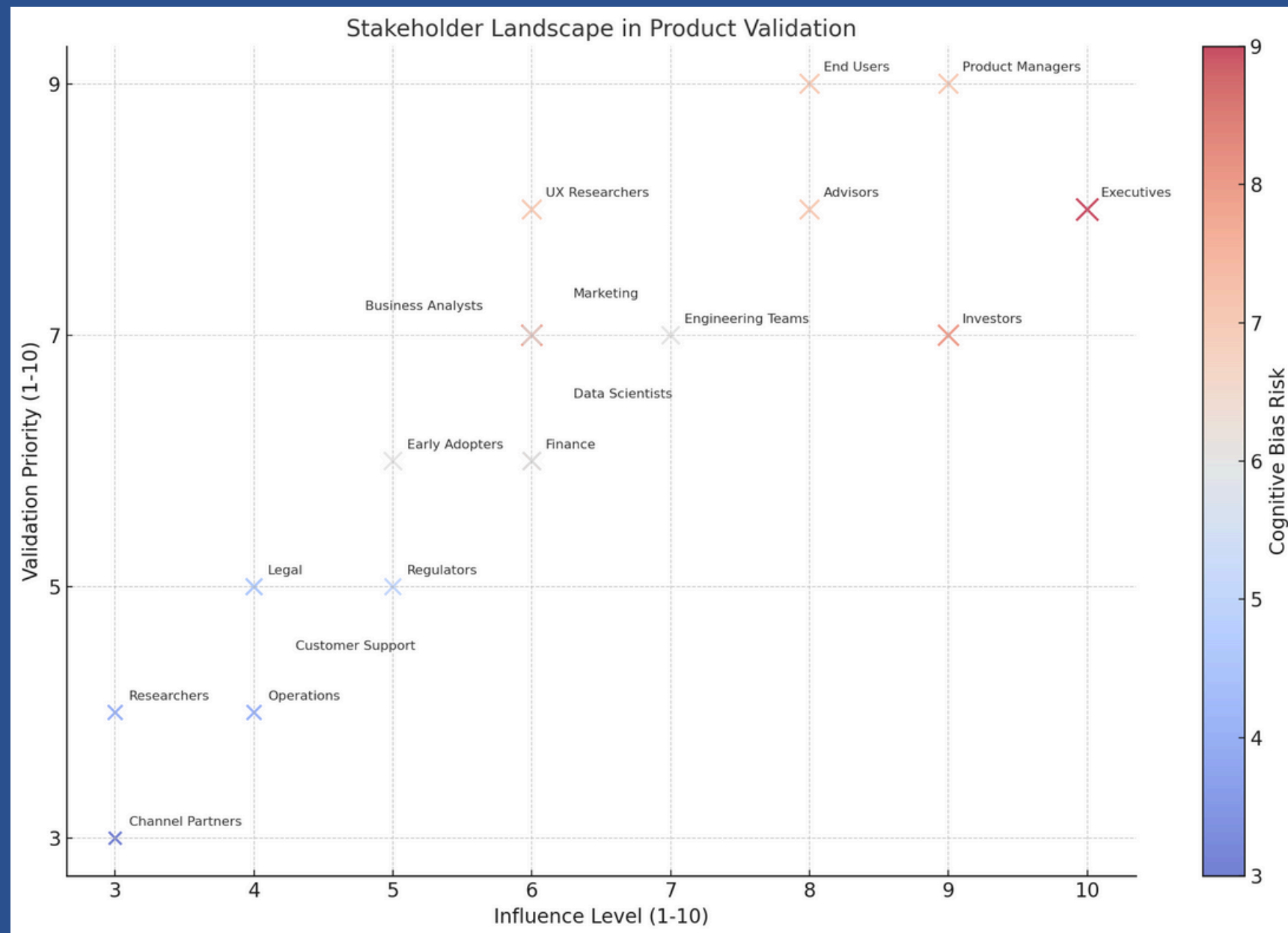
**Apple's Vision Pro \$1.4bn failure shows importance of market orientation**

## Our Solution:

Our solution is “PRE//FIT” — a predictive validation framework that helps teams detect failure signals before building. Unlike traditional methods that assume clean data and rational actors, PRE//FIT tackles the real challenges of product teams — bias, misread signals, and internal pressure. It combines behavioral insights with structured experiments to test true problem urgency, validate intent through actions (not opinions), and filter out noise.

The result? Clear confidence on whether to build, pivot, or pause—long before time or resources are wasted.

# *Validation fails from bias, not effort. Decode people, not just data*



## Product Team Challenges

We went beyond clichés to identify the real reasons validation breaks down:

- Over-indexing on early adopters
- Feature creep during testing
- False signal amplification (vanity metrics ≠ validation)
- No falsifiable hypotheses → results always look “good”
- Validation debt: delayed or diluted efforts under delivery pressure

## Stakeholder Analysis

We mapped 19 stakeholders by influence, priorities, and bias risk. Product decisions fail when:

- Execs chase vision, PMs chase speed
- Engineers optimize for buildability
- Investors push for scale before proof
- So we designed a bias-aware, incentive-aligned system to unify them.

## Market Dynamics

Validation is context-specific — not every product lives on a landing page. We studied:

- B2B vs B2C (sales cycles, gatekeepers)
- Hardware vs software (feedback lag, cost of iteration)
- Regulated vs emerging markets (legal blockers, trust dynamics)

The Problem Truth Test ensures teams validate real, high-intensity user pain not surface-level signals

# 1

# PROBLEM TRUTH TEST

Are we solving a real, frequent, painful problem?

**Components:**

- **Signal Strength Scorecard** = *Pain Frequency* × *Intensity* × *Urgency*
- **Minimum threshold:** 60% of users experience the problem weekly
- **Problem Pull Indicator:** Do users chase the solution, or just agree it sounds nice?

**Supported by Cognitive Science:**

- **Peak-End Rule:** Ask for specific pain stories, not vague opinions
- **Serial Position Effect:** Position your strongest discovery questions first and last

**Why it matters:** Prevents solving “meh” problems. Filters out shallow, low-priority use cases.

 ***By focusing on behavioral signals, the Intent Reality Test brings clarity to early-stage validation efforts.***

# INTENT REALITY TEST

**Do people show intent beyond words?**

*Validation threshold: **≥20% progress beyond Step 1***













**Supported by UX Laws:**

- **Jakob’s Law:** Don’t test unfamiliar UX — validate the problem, not the UI
- **Fitts’s Law:** More effort = stronger signal of intent
- **Hick’s Law:** Too many options reduce clarity in early-stage tests

**Why it matters:** Distinguishes real user motivation from passive interest.

Step	Signal	B2C	B2B	Hardware	Software
1	Email sign-up	✓	✓	✓	✓
2	Waitlist w/ info	✓	✓	✓	✓
3	Pre-order / commitment	✓	LOI / Pilot	Deposit	Beta buy-in
4	Workaround behavior	Manual hacks	Legacy tool use	DIY builds	Notion/scripts/ API


***When product signals get filtered through internal agendas, truth gets distorted. This stage ensures validation stays rooted in user data — not organizational bias*** 

Signal	From User 	From PM 	From Exec 
Pain Statement			
Market Sizing			
Feature Ask			

3

Are we misreading signals to satisfy internal narratives?

Supported by Cognitive Science:

- **Motivated Reasoning:** Internal stakeholders distort truth to align with goals
  - **Groupthink:** Teams suppress dissenting insights to maintain alignment
  - **Law of Common Region (UX):** Keep user data visually distinct from internal opinions
  - **Von Restorff Effect (UX):** Don't ignore outlier feedback — it might reveal a hidden trend
-  Why it matters: Prevents biased decision-making. Keeps validation user-first, not politics-first.

STAKEHOLDER  
DISTORTION  
FILTER





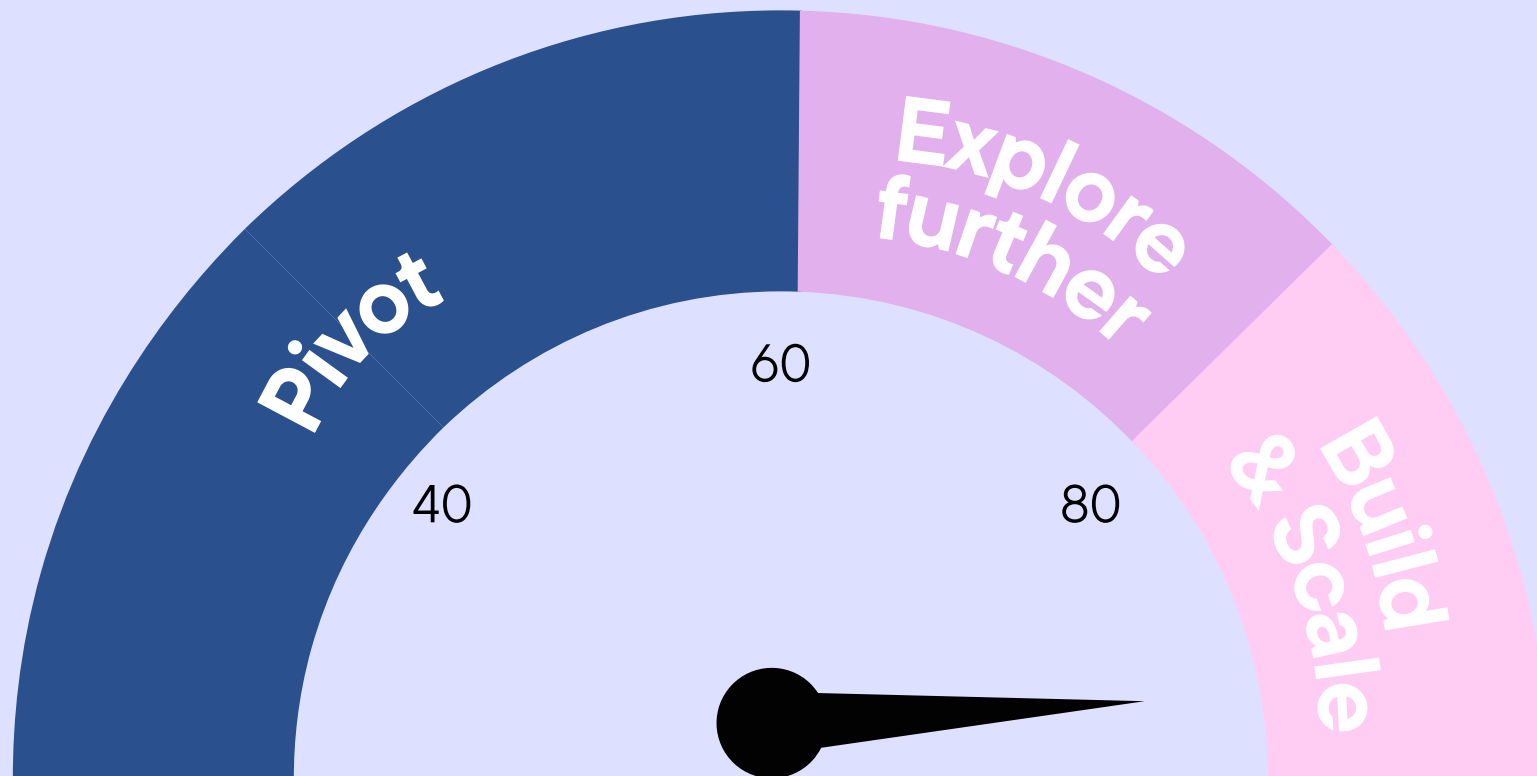
***This score integrates key behavioral and stakeholder signals to support confident, data-informed decisions***

$$\text{PMF Confidence Score} = (\text{Problem Truth} \times 0.4) + (\text{Intent Reality} \times 0.3) + (\text{Repeat Usage Signal} \times 0.2) + (\text{Stakeholder Alignment} \times 0.1)$$

**Score Interpretation:**

- < 60 → Pivot
- 60–80 → Explore Further
- 80+ → Build and Scale

**Why it matters:** Brings structure and objectivity to go/no-go decisions.



4

**PMF  
CONFIDENCE  
CALCULATOR**



***PREFIT isn't just about structure — it's about shielding teams from the psychological traps that lead to product failure:***

**Differentiators**

**Designed tests using 6 UX laws to reduce bias, lower friction, and shift validation from opinions to observable behavior.**

**It doesn't assume mature users or markets exist yet**

**It accounts for signal noise, internal bias, and premature scaling pressure**

**It's built to be lightweight, so teams don't need to overbuild to validate**

**It replaces "launch and see" with staged behavioral tests, which is critical when historical data is limited**





***PREFIT is built for breadth — enabling structured validation across industries, user types, and tech stages***

**PREFIT** adapts to your product type, maturity, and market. Whether you're building AI hardware, launching a B2B SaaS feature, or testing a consumer mobile app — PREFIT flexes with you.

**PREFIT** doesn't assume your product is mature. It meets teams where they are — whether you're running lean, scaling fast, or inventing something no one's ever seen.

PREFIT Stage	B2C Product (Mobile App)	B2B Product (SaaS Tool)	Hardware (Wearable / IoT)	Emerging Tech (Neurotech / AI)
Problem Truth Test	Ask users about recurring friction (e.g., sleep, finance, wellness)	Interview orgs about inefficiencies, current tooling gaps	Map high-friction workflows (e.g., fitness tracking, vitals)	Understand patient/caregiver frustration or unmet needs
Intent Reality Test	Waitlist sign-ups, pre-orders, DIY workarounds (e.g., spreadsheets)	Sign-up for pilot, LOIs, team-level demand signals	Deposit for device, tech community hacks, prototype demos	Sign up for research trials, or fund early development
Distortion Filter	Keep validation grounded in user stories, not marketing hype	Weigh signals from users vs. internal exec narratives	Remove founder bias from early evangelist feedback	Filter out hype noise from investors and media
PMF Confidence Score	Track usage frequency, retention, referrals post-launch	Analyze conversion & feedback across teams and use cases	Look for repeat use, referrals, or usage intent	Create a signal heatmap from research/test loops

# ***In three simple steps, PREFIT turns early ideas into confident decisions***



Start with clear templates that guide your team through early-stage research.

## **Problem Truth Discovery Sheet**

- Ask real users about pain frequency, urgency, and workarounds

## **Stakeholder Signal Map**

- Track where each insight came from (user vs. internal)
- Format: Google Docs / Notion — no special tools needed

- Validate **user motivation** with minimal build.
- Use landing pages, waitlists, pre-order forms, or test payment flows
- **Track action** over opinion — let **users show you what they care** about
- Works even if you don't have a product yet
- **Output:** Real signals from real behavior in <7 days

**Use the PMF Confidence Calculator to guide next steps.**

**Output:** Quantified, bias-resistant Go/No-Go decision



## **Step 1**

Plug in Lightweight Templates



## **Step 2**

Run Behavior-First Experiments



## **Step 3**

Score and Decide with Confidence

## **Why This Matters:**

- No overbuilding. No gut decisions. No wasted sprints.
- Just clarity, speed, and validation that holds up.

# Sample Customer Journey: Early-Stage Startup Team

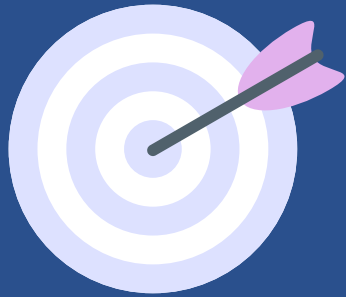
## Team Nova

A 3 person startup exploring a tool to help remote teams stay focused using AI-generated micro-breaks. They’ve built landing pages before but often jump straight to MVPs and get stuck in endless pivot cycles. This time, they want to avoid wasted dev time by validating before they code. They’ve seen traction with productivity apps before, but can’t tell if this is a novelty feature or a real, painful problem. They want proof, not hype.

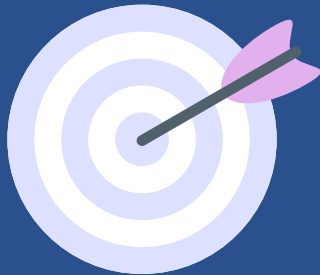
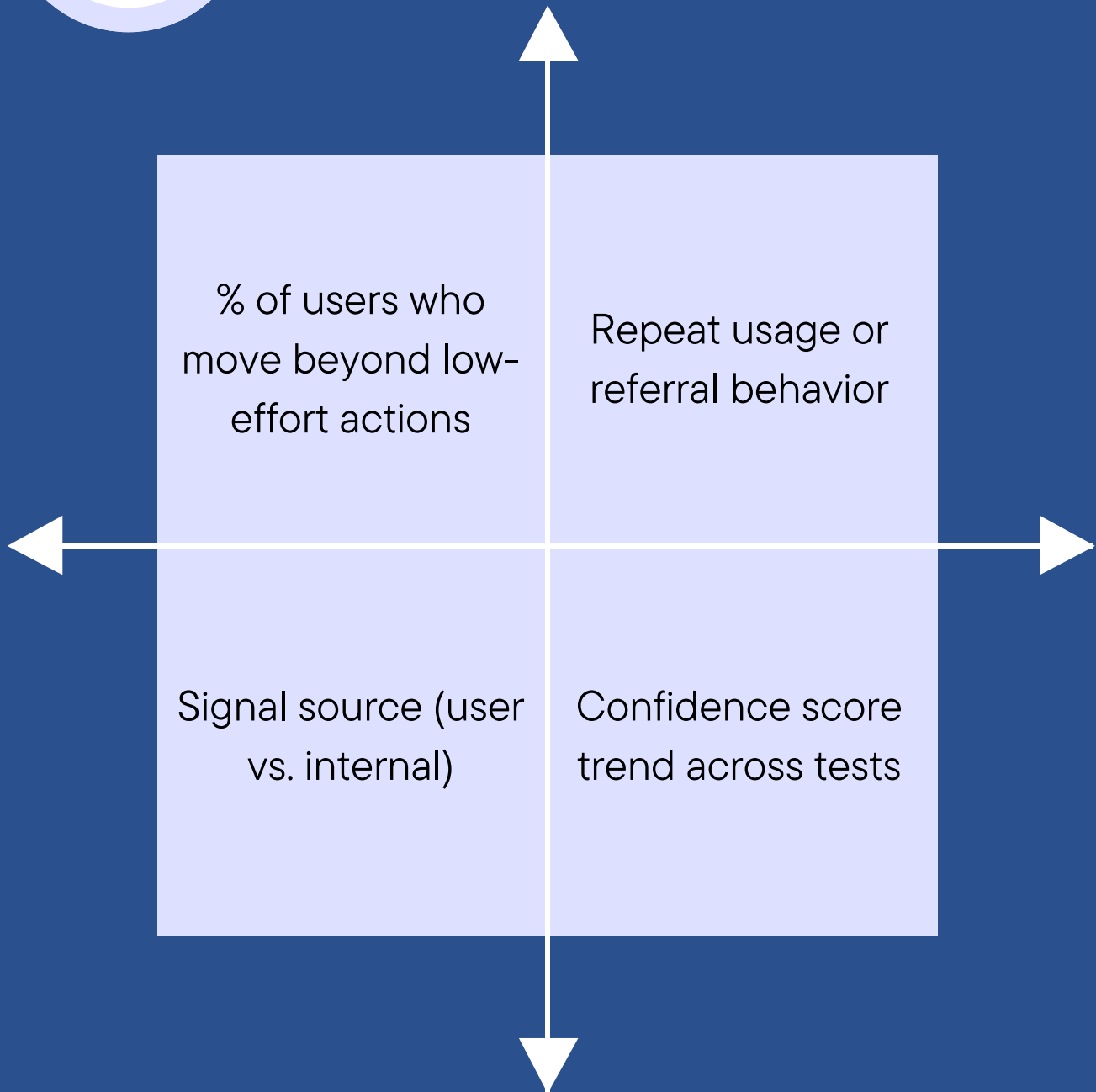


Wants / Desires	Inhibitors / Risks	How PRE//FIT Helps
Build something that solves a real user pain	Past projects failed because the problem wasn’t urgent enough	Problem Truth Scorecard ensures they only build if 60%+ feel weekly pain
See if users are willing to adopt or pay	Users often say “great idea” but never return or engage	Intent Reality Ladder surfaces behavioral intent, not compliments
Avoid building based on founder bias	Team tends to follow internal hunches	Stakeholder Signal Map shows when validation is coming from users vs. team
Know when to pivot or move forward	Decisions often feel fuzzy or political	PMF Confidence Score gives an objective score to guide go/no-go

*Reliable decisions start with reliable signals. The PREFIT quadrant ensures teams measure what matters*



Tracking Quadrant



What Success Looks Like

**Fewer false positives**

→ Teams move from idea to go/no-go in days, not months

**Faster validation cycles**

→ Validates behavior, not opinions — no more hype-based decisions  
Smarter resource allocation

**Smarter resource allocation**

→ Cuts wasted dev time by front-loading clarity  
Higher decision confidence

**Higher decision confidence**

→ Teams stop guessing — they score and act

Evaluation Toolkit Includes:

- 1. **Validation Tracker Template:** Log each hypothesis, target user, and method used (interview, fake door, pre-order, etc.)
- 2. **Signal Source Tags:** Label every insight as coming from user, PM, exec, or investor to separate real from biased input
- 3. **Score Logging Sheet:** Input stage-by-stage scores (e.g., 55 for Problem Truth, 40 for Intent Reality), auto-calculate total PMF Confidence Score
- 4. **Timeline View:** Review validation signals across sprints to see patterns and prevent over-reliance on single tests

***Thank you!***





## ***The Problem Truth Test***

“Take a team building a tool to help students manage procrastination.

They interview 15 students. Most say procrastination is annoying, but:

- Only 3 experience it every week (**low frequency**)
- None say it’s impacting their grades or deadlines (**low urgency**)
- No one has tried other tools or hacks (**low intensity**)

That gives us a low total signal score across all dimensions.

Despite sounding like a ‘relatable’ problem, the data shows it’s not painful, urgent, or frequent enough to build for – yet.”

By measuring all three dimensions, we stop teams from chasing shallow problems that feel universal but aren’t strong enough to drive action.



# ***Intent Reality Test***

## ***SOFTWARE Product***

Let's say you're validating a **productivity app for remote freelancers**.

- You create a landing page and get 500 sign-ups- great! But only 45 users fill out your waitlist form explaining their current frustrations, and just 12 offer to test your Notion-based prototype.
- That's just under 10% progressing beyond Step 1- a red flag.
- It tells you the interest might be surface-level, or the problem isn't urgent.

Without this ladder, a team might falsely think they've hit product-market fit- but this test stops them before they overbuild.

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## ***HARDWARE Product (HealthTech)***

Now take a healthtech startup designing a **migraine relief headband**.

- They run a basic ad campaign and get 2,000 clicks and 300 email sign-ups.
- Next, they offer a \$20 refundable deposit to pre-order — 85 people do it.
- That's nearly 30% beyond Step 1.
- They've now validated real intent- not just curiosity.

This is behavior teams can build from with confidence.

# ***Stakeholder Distortion Filter***

Imagine a product team working on a **feature to improve team morale in a workplace app**.

- During interviews, only a few users mention low morale and even then, it's not tied to their productivity or retention. But the VP of Product loves the idea.
- He pushes it forward, saying it aligns with the company's values. The PM, under pressure, starts shaping validation data to support the direction, citing internal feedback and vague survey results.
- The team launches the feature. It flops. No adoption. No retention lift. Just wasted dev time.

If they'd used the **Stakeholder Distortion Filter**, they would've seen:

- That the strongest pain signals came from inside the org, not from users
- That “morale” was a low-frequency, low-urgency problem
- And that the real user signal pointed elsewhere toward tool integration

PREFIT would've caught this. It protects teams from building the wrong thing for the right internal reasons.”

PREFIT makes sure you don't confuse internal enthusiasm with external demand.

# PMF Confidence Calculator

- Now let’s look at how a B2B SaaS team used the PMF Confidence Calculator.
- This team is building an **internal dashboard for mid-sized logistics companies to track fuel efficiency across fleets**. They want to avoid building a complex system no one really adopts so they run through PREFIT to validate.

## Why?

- Strong pain signal from fleet managers
- Initial pilot users showed moderate interest but wanted integrations
- Repeat usage was decent, but intent signals weren’t strong enough yet
- Instead of scaling too early, the team holds off on expansion and runs a second round of deeper intent testing with pricing experiments and tailored demos for procurement officers.

## B2B SaaS Team’s Score Breakdown:

Interpretation:

Score = 67 → falls into the “Explore Further” zone

Why?

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Stage	Weight	Score (0–100)	Weighted Value
Problem Truth	0.4	75	30
Intent Reality	0.3	60	18
Repeat Usage	0.2	70	14
Stakeholder Alignment	0.1	50	5
Total Confidence			67

# Why These Weights? The Logic Behind PREFIT's Scoring

**PMF Confidence Score = (Problem Truth x 0.4) + (Intent Reality x 0.3) + (Repeat Usage Signal x 0.2) + (Stakeholder Alignment x 0.1)**

Component	Weight	Why It Matters
Problem Truth	0.4	The foundation. If the problem isn't real, nothing else matters. 42% of product failures happen due to lack of market need.
Intent Reality	0.3	The clearest signal of real demand. Behavior > opinions.
Repeat Usage	0.2	Shows stickiness and product value, but may not be available early-on.
Stakeholder Alignment	0.1	Helps with internal momentum, but doesn't prove fit on its own.

## Why Not Higher Weights?

The weights are relative and sum to 1.0 — this creates a normalized confidence score that is trackable, comparable, and scalable across teams and products.

## Final Takeaway:

“We weighted each input based on how strongly it predicts true product-market fit. PREFIT isn't just structured — it's intentionally prioritized.”