FOR APPAREL & LUXURY BRANDS

Know the true cost of every garment before you make it.

Farm-to-cradle carbon and cost modeling, built into your design and sourcing workflow — not a report you order once a season.

Life Cycle Assessment · Cost Modeling · LP-Based Optimization

THE PROBLEM

Sustainability data arrives too late to change anything

Weeks, not minutes

A single-collection LCA from a consultancy typically takes 3–6 weeks to turn around — long after fabric and factory decisions are locked.

Disconnected from decisions

Designers and sourcing teams pick fibers, mills, and freight without knowing the carbon or cost consequence of the choice in front of them.

Regulation is closing the gap

The EU's Digital Product Passport (phasing in for textiles 2027–2029) and CSRD reporting require verifiable, SKU-level data — spreadsheets won't hold up to audit.

944 million tonnes of CO_2e a year — apparel is nearly 2% of global emissions, and **55%** of that is locked in before a garment is even cut.

Source: Apparel Impact Institute, Taking Stock of Progress Against the Roadmap to Net Zero, 2025

THE STATUS QUO

How most teams assess a collection today

1	**Design finalizes fiber blend, mill, and factory**	*No visibility into footprint until months later*
2	**Sustainability team commissions an outside LCA**	*3–6 week turnaround, $8–$25K per collection*
3	**Report comes back after the collection has shipped**	*Findings can't change decisions already made*
4	**Numbers live in a PDF, not the PLM or sourcing system**	*Nothing compounds — next season starts from zero*

INTRODUCING

ThreadPrint

Farm-to-cradle LCA and cost modeling, live inside your sourcing workflow.

Assess

Score any SKU across 6 lifecycle stages — farm, mill, cut & sew, distribution, use, end of life — in seconds, aligned to TRACI 2.1.

Optimize

A real linear-programming solver finds the best-achievable fiber blend and sourcing recipe — for carbon or for cost — not a rule-of-thumb tip.

Report

Portfolio-level dashboards and an audit-ready data trail, built for CSRD and the EU Digital Product Passport.

HOW IT WORKS

One assessment, six lifecycle stages

Farm

Fiber production

Mill

Textile production

Cut & Sew

Garment + packaging

Ship

Distribution

Wear

Use phase

End of Life

Disposal / recycling

33

fibers in the base library, each tagged by data-quality tier

9

grid regions, freight modes, and 4 end-of-life routes modeled

TRACI 2.1

aligned methodology for GWP, acidification, eutrophication — plus ISO 14040/14044/14067 framework alignment

WHAT MAKES IT DIFFERENT

It doesn't just measure — it solves

Most tools stop at a scorecard, or offer a rule-of-thumb tip (“try a lower-carbon fiber”). ThreadPrint's optimizer is a genuine solver: fiber-blend selection is treated as a linear program, and every other lever — mill region, process intensity, freight mode, care instructions, end-of-life routing — is searched exactly.

- Respects real constraints — lock a supplier contract, cap a fiber category, require a minimum recycled content
- Optimizes for carbon OR cost — the two don't always move together, and now you can see both
- Finds the actual best answer across every combination, not the first improvement it notices

A LINEAR PROGRAM,
NOT A GUESS

```
minimize:
Σ blend% × impact_factor

subject to:
Σ blend% = 100
locked fibers, category caps
```

+ exact enumeration across mill region, freight mode, care cycle, and end-of-life routing

SEE IT IN ACTION

One SKU, before and after optimization

60/40 cotton-poly tee · heavy wet-processing in India · air freight · hot wash & tumble dry · landfill

BEFORE

10.97

kg CO_2e per garment

$6.85

landed cost of goods

Air freight alone: $5.00 of that $6.85

AFTER — OPTIMIZED FOR CARBON

0.98

kg CO_2e — 91% lower

$2.00

landed cost — 71% lower

Recycled cotton · UK grid · sea freight · cold wash, line dry · resale

Same SKU, solved for cost instead: net −$0.03 landed cost with jute + Bangladesh production — the two objectives don't always agree, which is exactly why teams need to see both.

COMPLIANCE-READY

Built for where regulation is headed

EU Digital Product Passport

Textile delegated act expected 2027, phasing to mandatory compliance 2028–2029. SKU-level fiber composition, origin, and carbon data — structured and ready to export from day one.

CSRD & investor reporting

Portfolio-level rollups aligned to ISO 14025 (Type III declarations) and ISO 14021 (self-declared claims) — substantiated numbers your sustainability team can hand straight to reporting, not a spreadsheet someone has to rebuild every quarter.

Bring your own supplier data

House and Maison tiers let you layer verified supplier-specific factors over the base library — your audit trail, your numbers, our engine.

PLANS

Scales from a single studio to a global maison

Studio

$490/month

25 SKU assessments / mo

- Full 6-stage LCA engine
- LP-based optimizer
- Recommendations & cost model

MOST POPULAR

House

$2,400/month

400 SKU assessments / mo

- Everything in Studio
- Brand supplier overrides
- Portfolio dashboard

Maison

Custom

Unlimited assessments

- Everything in House
- Dedicated onboarding
- Custom data integrations

HOW WE START

A 90-day pilot, not a year-long rollout

30

DAYS 1–30

Onboard 10–15 SKUs from your current collection. Validate ThreadPrint's output against your last commissioned LCA.

60

DAYS 31–60

Design and sourcing teams run live what-if comparisons on an upcoming collection — fiber, mill, freight, care.

90

DAYS 61–90

Expand to the full collection. Portfolio dashboard ready for your sustainability and compliance reporting.

No migration project. No new PLM. Your team is running real assessments in week one.

Let's run your first assessment.

Bring one SKU. We'll show you its full farm-to-cradle footprint — and what the optimizer finds — in the room.

SCHEDULE A PILOT

ThreadPrint

Life Cycle Assessment · Cost Modeling · LP-Based Optimization

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