Building materials / QM-08

Digitising construction materials procurement

Bringing purchase orders, delivery confirmation and invoice matching into a single chain: European practice and electronic documents in Uzbekistan.

Delivered, confirmed, paid: in one chain.

In Europe, construction companies are digitising materials procurement from purchase order to invoice matching. In Uzbekistan, ESF (electronic invoice), ETTN (electronic consignment note) and the «Shaffof qurilish» (Transparent Construction) system provide the infrastructure for this.

Conceptual architecture. No operating results are shown.

01 Order	Material, quantity · Supplier · Price
02 Receiving	Mobile confirmation · Photo · Actual quantity
03 Matching	ESF · ETTN · Order
04 Payment	Discrepancies · Approval · 1C

At a glance

800 — Materials suppliers connected to the platform in two years, according to Comstruct. [1]

4 — Comstruct modules: ordering, digital delivery confirmation, invoice matching, ESG reporting. [1]

339.3 trn — Construction work completed in January–September 2026, UZS. [4]

November 2026

01 Evidence and context

Who it is for

Supply Director	Procurement and suppliers.
Site manager	Receiving on site.
Chief accountant	ESF and matching.
Finance	Payment terms.

Facts and global practice

TechCrunch

Comstruct (Munich) is a construction materials procurement platform; it connected 800 suppliers in two years using ML. [1]

TechCrunch

The platform includes ordering, digital delivery confirmation, invoice matching and ESG reporting modules; pricing is per document. [1]

GlobalBIM (on «Shaffof qurilish»)

In Uzbekistan, construction contracts have been digitised since July 2024; contractors are financed only through electronic invoices. [2]

Norma (buxgalter.uz)

The combined ESF and ETTN document is issued through electronic document operators. [3]

National Statistics Committee

Construction work in January–September 2026 totalled UZS 339.3 trn, growth of 12.3%. [4]

Electronic documents are mandatory, but on-site receiving and matching often remain manual.

02 Where the losses occur

Orders via messenger

Quantities and prices stay in chat threads.

Paper-based receiving

Waybills signed on site reach the office late.

Manual matching

ESF, waybill and purchase order are matched by hand.

Discrepancies get lost

Short-delivered quantities remain on the invoice.

How the loss is calculated

Short delivery	shortfall quantity × unit price
Matching time	documents per period × minutes per document ÷ 60 × hourly labour cost
Late payment	days late × daily penalty or lost discount per day
Duplicate payment	number of cases × amount per case

Illustrative calculations; establish the baseline, units and rates during the site assessment. Avoid counting the same loss twice.

03 Solution architecture

From order to payment

Orders are placed in the system, receipt on site is confirmed in a mobile app, ESF and ETTN are matched automatically, and discrepancies are flagged.

01 Order

Material, quantity · Supplier · Price

02 Receiving

Mobile confirmation · Photo · Actual quantity

03 Matching

ESF · ETTN · Order

04 Payment

Discrepancies · Approval · 1C

Modules

Orders and suppliers	Single list	Engineering capability
On-site receiving (mobile)	With quantity and photo	Engineering capability
ESF + ETTN matching	Automatic discrepancy detection	Commercially available
1C integration	Payments and accounting	Commercially available

Each module has a readiness status. Third-party results are not a forecast for your site.

04 Implementation and measurement

01 Procurement audit

Order, receiving and document process.

Output: map of breaks in the chain.

02 Pilot on one site

30 days.

Output: discrepancy statistics.

03 Scale-up

All sites.

Output: complete chain.

04 Subscription

Monthly report.

Output: trend.

What is measured

Confirmed receipts	Share	Mobile app
Document discrepancies	Cases and amount	System
Matching time	Per document	System
Payment term	Days	1C

What is needed to start

- Head of Supply
- Supplier list
- Site list
- Access to 1C and the EDO (electronic document exchange) operator

05 Readiness checklist and next step

01 Are all orders kept in one system?	Yes / No / Unknown
02 Is on-site receipt confirmed with the actual quantity?	Yes / No / Unknown
03 Are ESF and ETTN matched against the purchase order?	Yes / No / Unknown
04 Are short-delivery cases visible?	Yes / No / Unknown
05 Is the time taken to complete matching, in days, recorded?	Yes / No / Unknown
06 Is there a supplier rating?	Yes / No / Unknown
07 Are payments made only after confirmed receipt?	Yes / No / Unknown
08 Have any paper waybills been lost?	Yes / No / Unknown
09 Are documents posted to 1C automatically?	Yes / No / Unknown
10 Is there a designated person responsible?	Yes / No / Unknown

What we do not promise

- Firm timeline and price without an audit
- Exchange rules and government decisions
- Plant equipment repair
- Unmeasured results or savings
- Replicating results claimed by vendors

Procurement audit

We review the chain from order to payment and show where discrepancies are being lost.

- Map of breaks in the chain
- Pilot on one site
- Implementation fee and monthly subscription

Scope, price and schedule are agreed after reviewing the site and its data.

06 Sources and scope

[1] «Comstruct, a platform to digitize the construction industry, raises $13.5 million». TechCrunch, 06.02.2025.

[2] «Corruption-free construction – Shaffof Qurilish system». globalbim.org.

globalbim.org

[3] «ESF va ETTN birlashtirilgan hujjatini rasmiylashtirish» (in Uzbek: Issuing the combined ESF and ETTN document). buxgalter.uz (Norma), 11.08.2026.

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[4] National Statistics Committee: construction work, January–September 2026. stat.uz.

stat.uz

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