



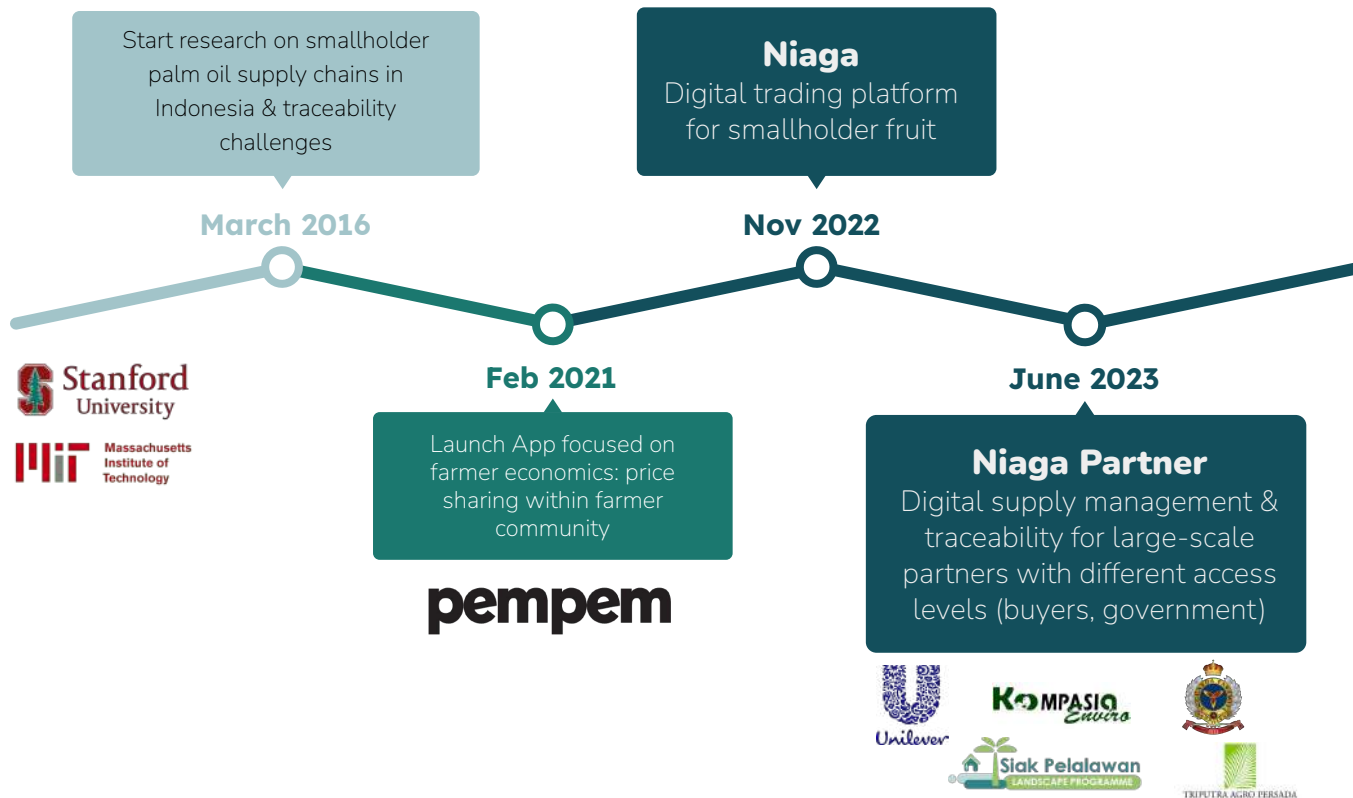
pempem

Digital Infrastructure for Smallholder Commodities

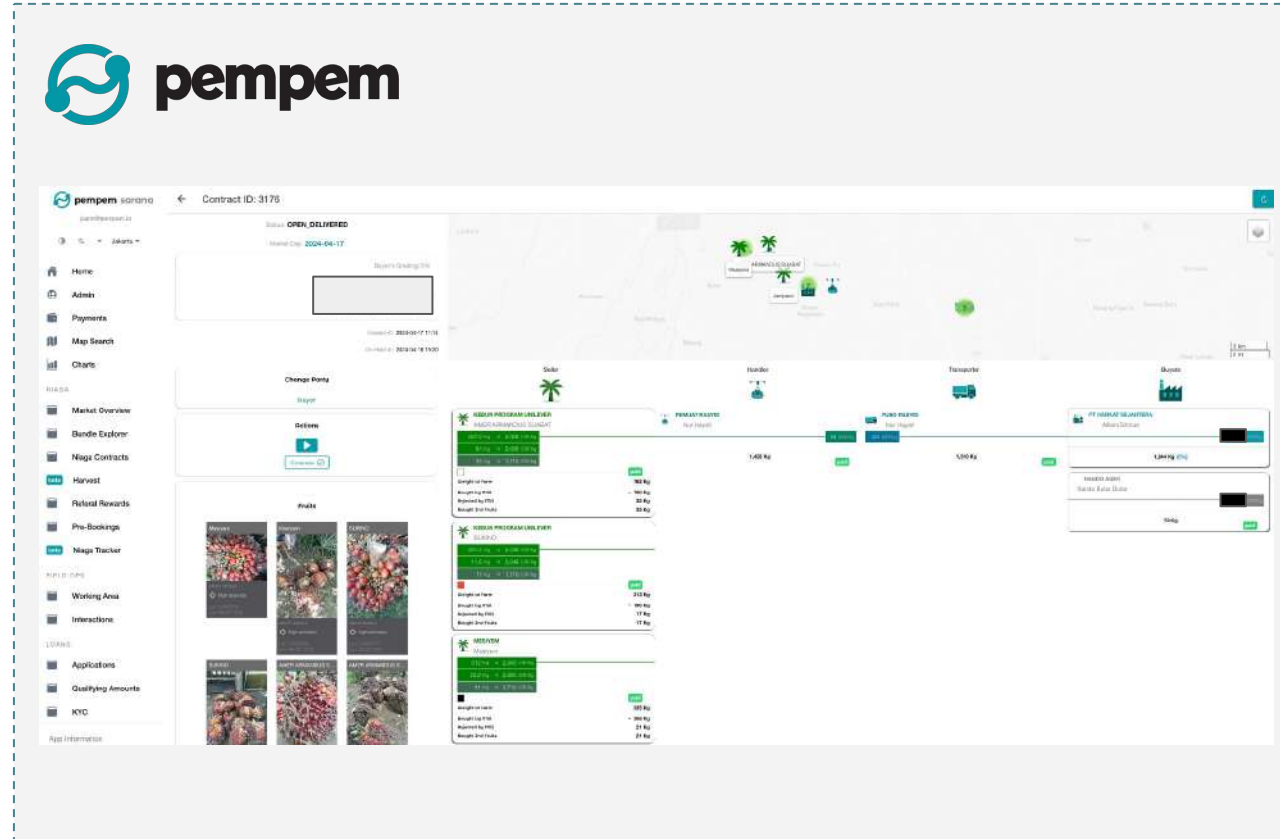
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About PemPem

Digital Trade and Traceability for Smallholder Farmer Supply Chains



Traceability: Mapping + Transactions





PemPem Niaga

Farm-to-Factory Digital Trading Platform



**Solves traceability
through digitization**

Automated tracking of each
transaction

Easily shareable data

Buyers & farmers maintain market
access under new regulations



**High prices to farmers,
more supply to buyers**

Leverage economies of scale

Eliminate hidden fees

Enable loyalty programs &
sustainability programs

How It Works - Niaga



1 DEMAND TURN

Buyers provide Bid Prices to PemPem



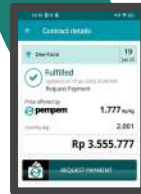
2 SUPPLY TURN

Farmers receive best possible price in market from PemPem



4 FULFILLMENT TURN

Fulfillment from farm(s) to buyer
Payments



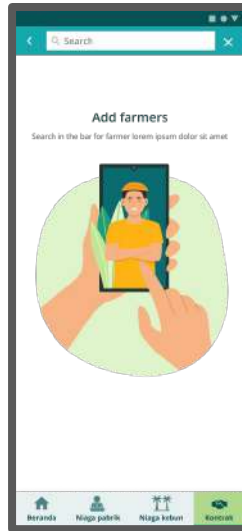
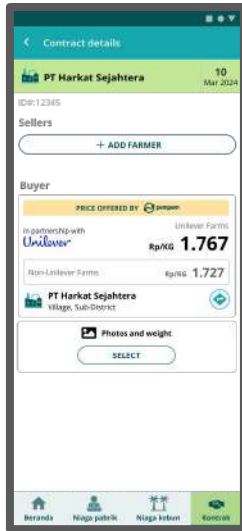
3 WORKER TURN

Transporters select bundles to offer services



Our ecosystem allows others to plug in for mutual benefit.
E.g., we partner with large buyers to implement loyalty programs that leverage our trading data

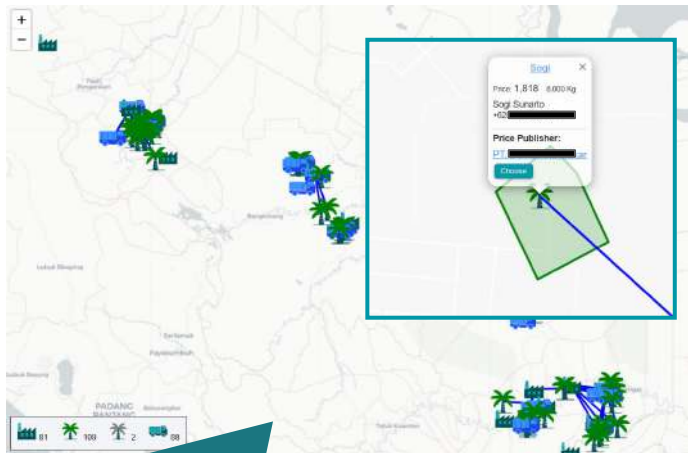
How It Works - Niaga for Farmer Groups



- ✓ Geo-tagged photos of fruit
- ✓ Polygon is within 500m of pickup location
- ✓ Harvest volume is in line with polygon size

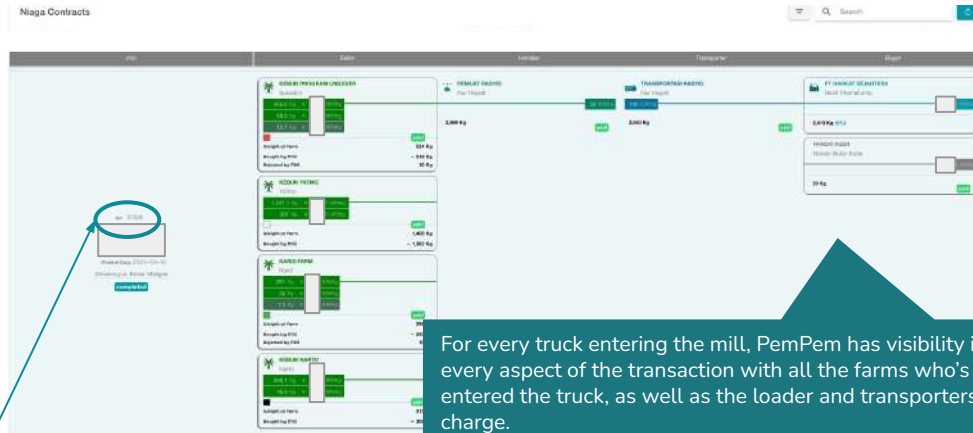
For Cooperatives, Groups, and Agents who already collected polygons for their farmers and need to get transaction traceability

Niaga - Transaction Traceability



For every farm who accepted a PemPem Niaga price, we know their exact location & all necessary details to coordinate the logistics

Each Contract ID links to further details about the farm, the farmer, or the sale (e.g. geo-tagged pictures of the fruit)



For every truck entering the mill, PemPem has visibility into every aspect of the transaction with all the farms who's fruit entered the truck, as well as the loader and transporters in charge.



Sensitive information is covered with a grey box

2023

A map of Riau Province, Indonesia, with its districts labeled: ROKAN HILIR, ROKAN HULU, BENGKALIS, PEKABARU CITY, KAMPAR, KUANTAN SINGINGI, PELALAWAN, SIAK, KEBULAUAN MERANTI, INDRAGIRI HULU, and INDRAGIRI HILIR. Red location pins are placed in ROKAN HILIR, ROKAN HULU, SIAK, KAMPAR, PELALAWAN, INDRAGIRI HULU, and INDRAGIRI HILIR. An inset map of Indonesia shows the location of Riau Province in the north, with an arrow pointing to the main map.

PALM OIL





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