

# MantlePay

A merchant liquidity  
protocol built on  
Mantle.

Tokenize sales into Receipt NFTs (R-NFTs) for  
immediate cash flow and real-world DeFi yield on the  
efficient, scalable Mantle Network

Team:  
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# Merchant Cashflow & Financing Challenges

Working capital gaps, slow settlements, and costly or unavailable financing



Settlement cycles of **T+15 to T+30 days** create cashflow delays



Working capital gaps that **restrict merchant growth**



Many small merchants **denied bank financing**



High borrowing costs: **15–30% APR** for alternative credit



No transparent way to leverage **daily sales receivables** for liquidity



Critical need: **instant liquidity** tied to actual merchant sales

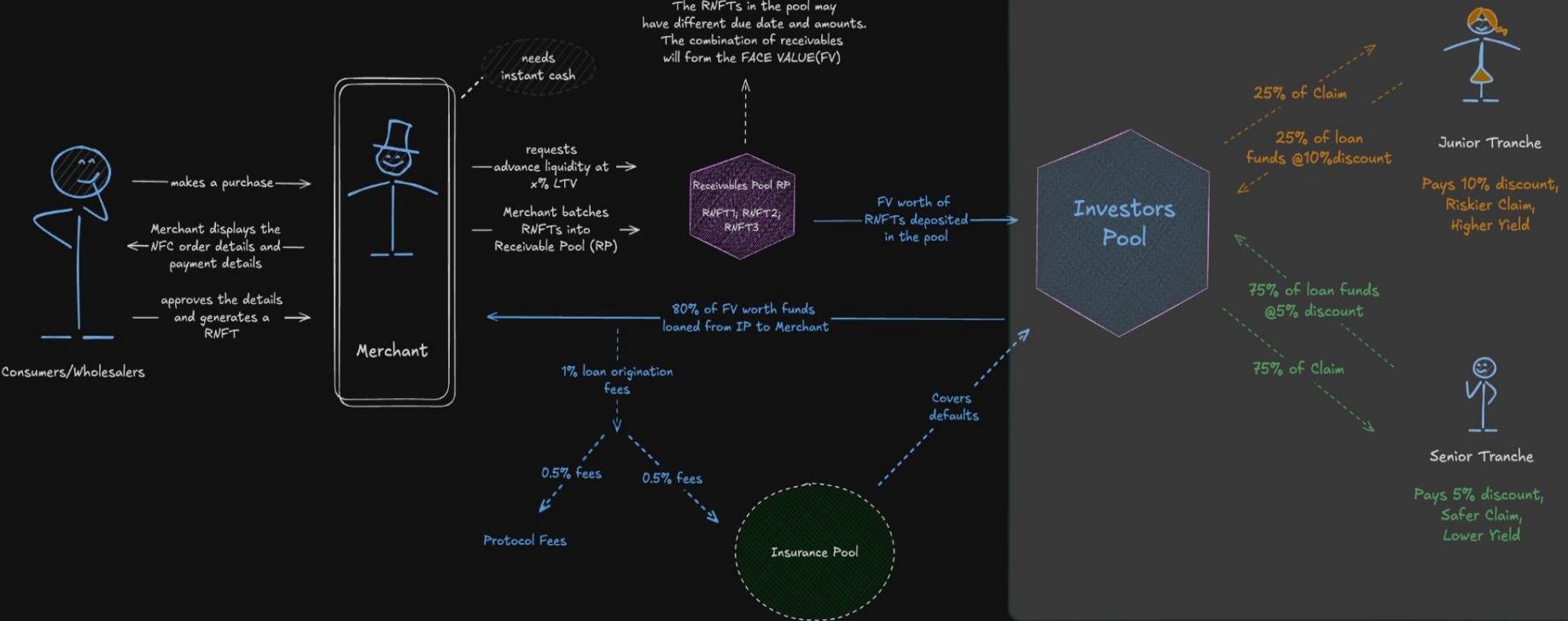
# MantlePay User Journey

Turn every merchant sale into immediate liquidity with tokenized receipts, tranche financing, automated repayments, and insurance-backed yields

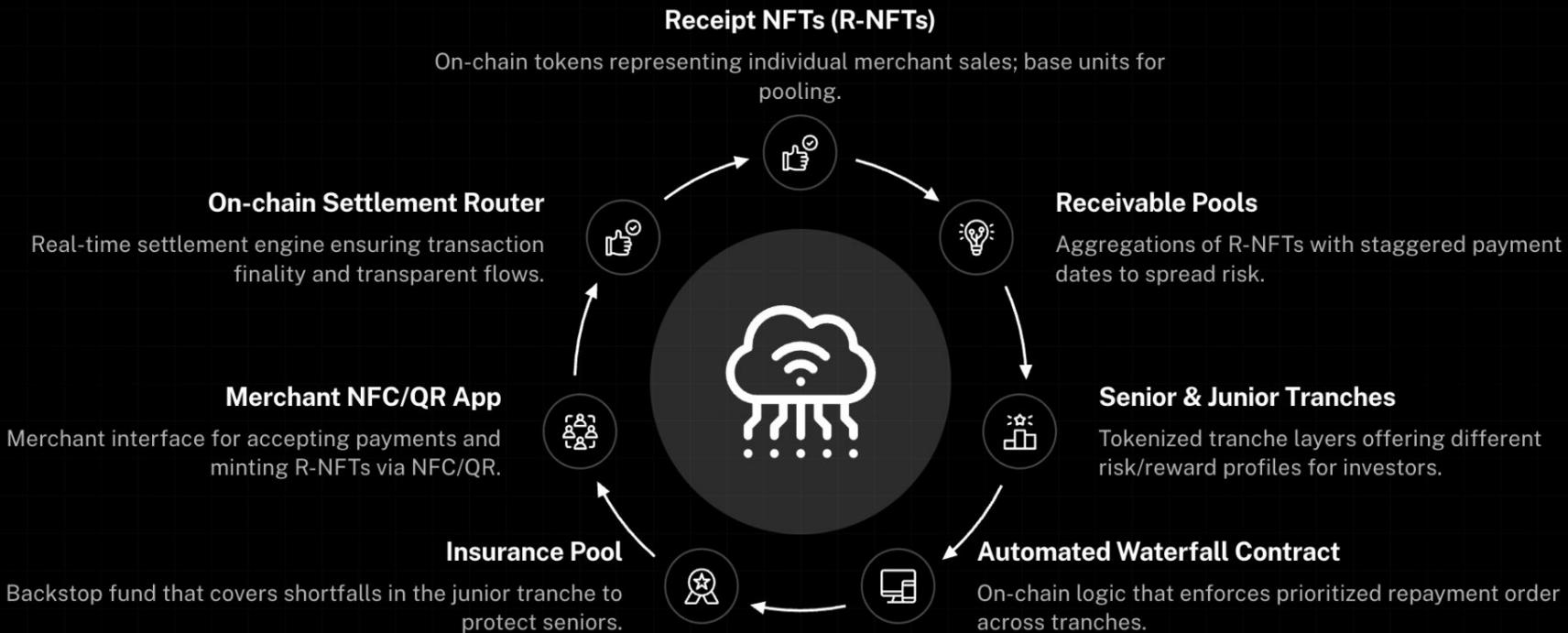
- Record Sale
  - Merchant logs a sale on **MantlePay**; data anchored on-chain for transparency.
- Customer Verify & Mint
  - Customer scans QR/NFC to verify the sale and mints a **Receipt NFT (R-NFT)**.
  - Customer approves order details
- Pool Receivables
  - R-NFTs pool receivables with staggered payment schedules to diversify timing risk.
- Advance Liquidity
  - Merchant receives **80%** advance upfront funded by investors in tranches.
- Tranche Financing
  - Investors buy **senior** and **junior** tranches; risk/return split across tranches.
  - Automated Waterfall
    - Consumer repayments trigger an on-chain waterfall contract distributing payments by tranche.
  - Insurance Buffer
    - An insurance pool covers junior tranche shortfalls to stabilize investor yields.

# MantlePay User Journey

## Securitization & Tranching



# Core Architecture: Components of MantlePay



# Receivable Pools & Tranching

Diversify payment timing, balance protection and yield for investors

## Senior Tranche

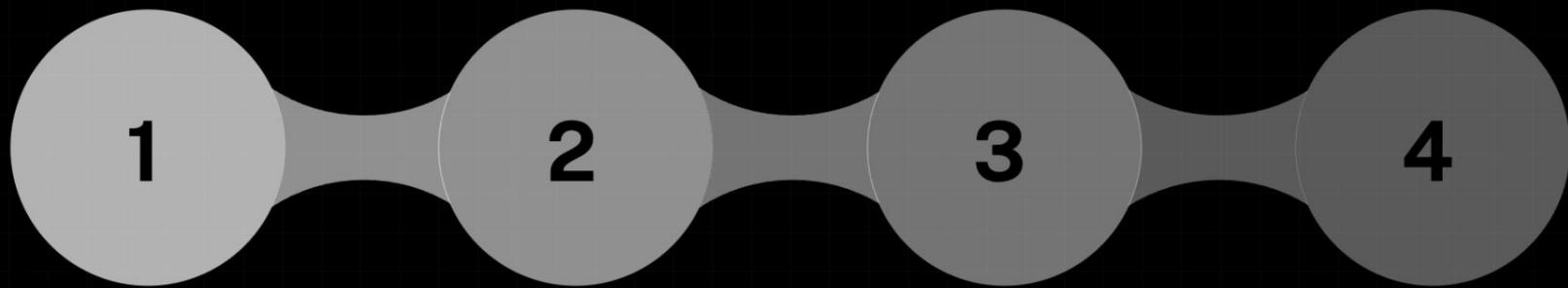
1. Priority repayment over junior tranche
2. Lower risk; capital protected first
3. 5% discount example (lower yield, higher safety)
4. Attracts risk-averse investors seeking stability

## Junior Tranche

1. First-loss buffer absorbing defaults
2. Higher risk; absorbs variability in receivables
3. 10% discount example (higher yield, higher risk)
4. Appeals to yield-seeking investors

# Repayment Waterfall & Insurance — Investor Protection

Senior paid first → Insurance covers junior shortfalls → Junior paid → Merchant residuals. 1% origination fee funds Insurance and protocol



## Senior Investors

Receive payments first — designed to be nearly risk-free due to insurance coverage

## Insurance Pool Coverage

Covers junior tranche shortfalls; funded by 1% origination fee split equally between insurance and protocol

## Junior Investors

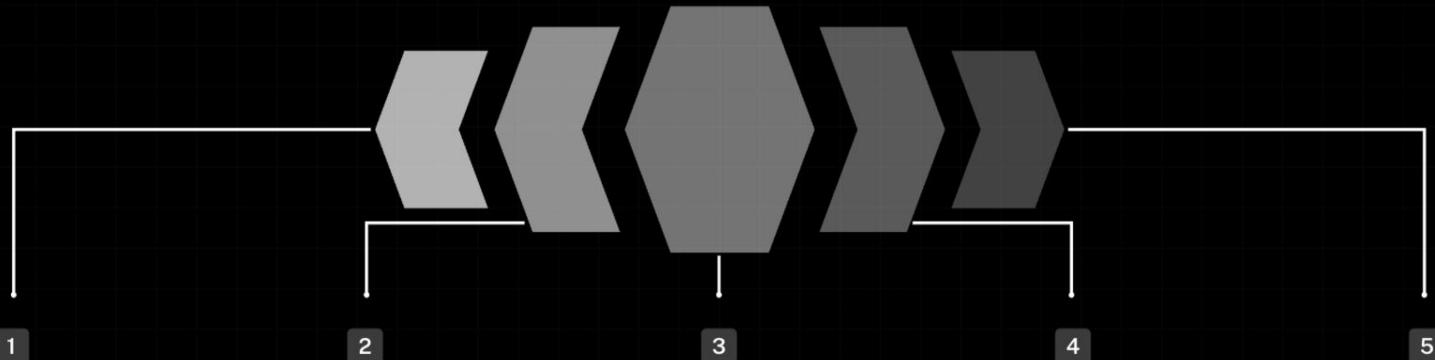
Paid after insurance covers shortfalls; exposure partially protected

## Merchant Residuals

Any remaining funds after investor payments and insurance allocations go to the merchant

# Future Scope-Dynamic Credit Scoring & Adaptive Loan-to-Value

On-chain underwriting to personalize LTV (60%–90%) and scale safe merchant liquidity



## 1 Data Inputs

Analyze merchant repayment, **R-NFT** history, sales volatility, default patterns, insurance usage, plus optional POS/invoice feeds.

## 2 On-chain Underwriting Engine

Smart contracts aggregate signals into a transparent credit score driving automated decisions.

## 3 Adaptive LTV

Personalized Loan-to-Value from **60% to 90%**, replacing flat 80% advance.

## 4 Liquidity Allocation

Higher LTV for top performers increases accessible liquidity; conservative terms for higher-risk profiles.

## 5 Pool Safety & Scaling

Optimizes pool risk exposure while enabling protocol credit infrastructure growth.

# Impact: Benefits for Merchants, Investors, and the Mantle Ecosystem

Instant capital for merchants, real-world yield for investors, and growth for **MantlePay**

**Merchants:** Instant working capital without collateral; transparent financing terms for smoother growth and operational efficiency

**Investors:** Access to real-world yields with flexible risk exposure via tranche protection and insurance mechanisms

**Mantle Ecosystem:** **MantlePay** as flagship RWA protocol driving genuine transaction volume, merchant adoption, and new decentralized credit markets

**Collective Impact:** Promotes financial inclusion and innovation using blockchain technology

# Thank You — MantlePay

Join us in enabling instant merchant liquidity, tokenized receivables, and real-world yield



**Invitation:** Join the [MantlePay](#) community to pioneer decentralized merchant financing



**Value:** Instant merchant liquidity, tokenized receivables, access to real-world yield



**Impact:** Empower merchants, investors, and the broader [Mantle](#) ecosystem



**Core qualities:** Transparency, efficiency, innovation



**Team:** Abhiraj, Advait, Pranav



**Event:** Mantle Global Hackathon 2025 — Tracks: RWA / RealFi and DeFi & Composability