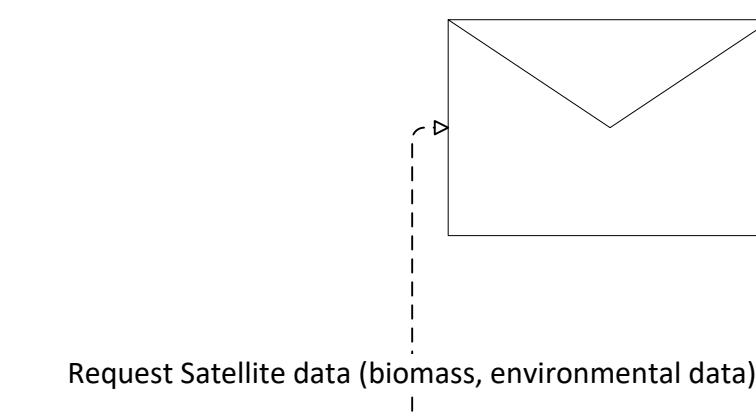
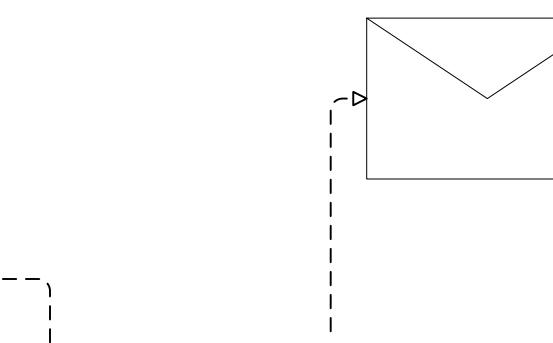
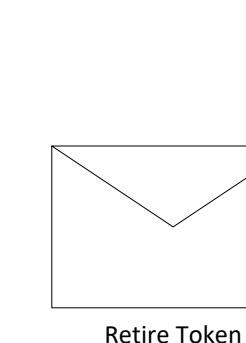


Chainlink Oracle



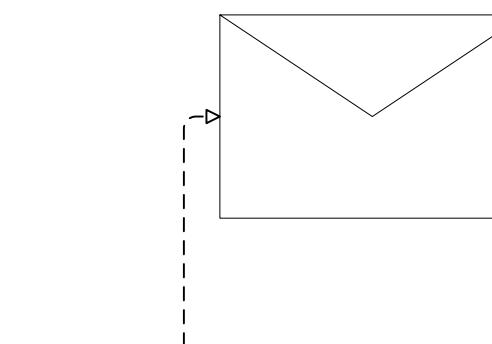
Request Satellite data (biomass, environmental data)



Retire Token

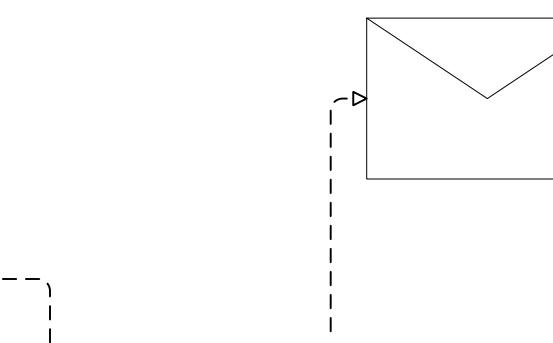
Publish Data to FileCoin

Filecoin Storage



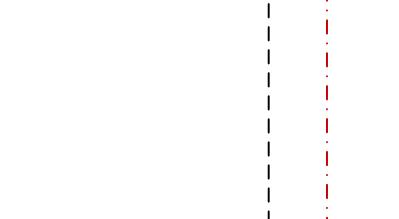
Registry() API Call

Binding Time: Runtime Registry contract address is bound at deployment. When validation is complete, project key is generated.

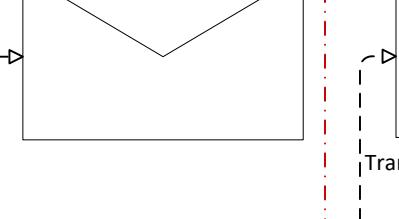


Send Pattern with Binding Time

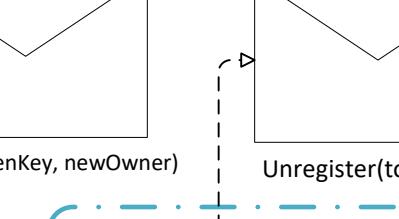
register(tokenKey, owner)



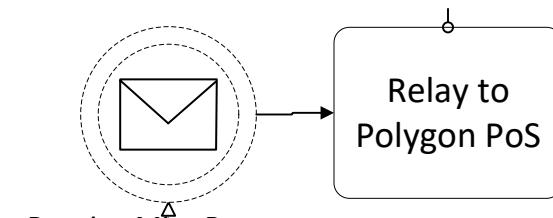
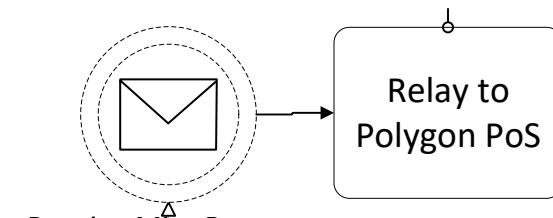
Transfer(tokenKey, newOwner)



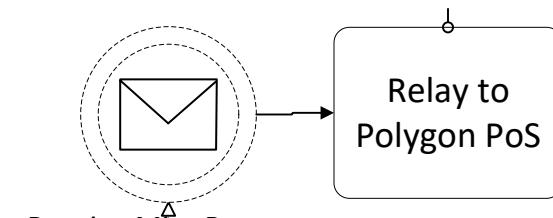
Unregister(tokenKey)



Mint NFT Token



Receive Mint Request

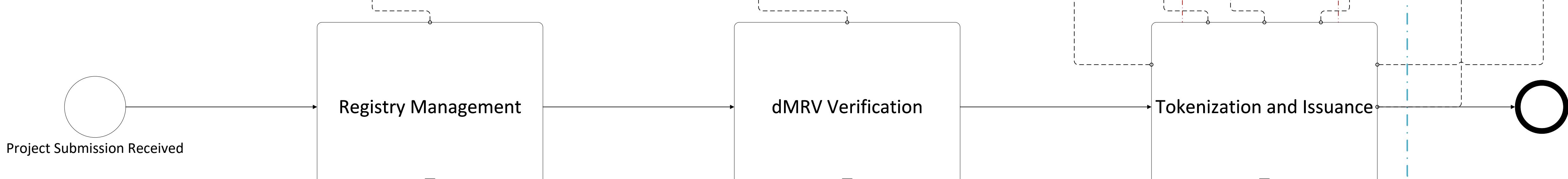


Coorest sends mint request to Registry. Registry validates and relays to Polygon PoS. Response then follows reverse path. Registry acts as gateway.

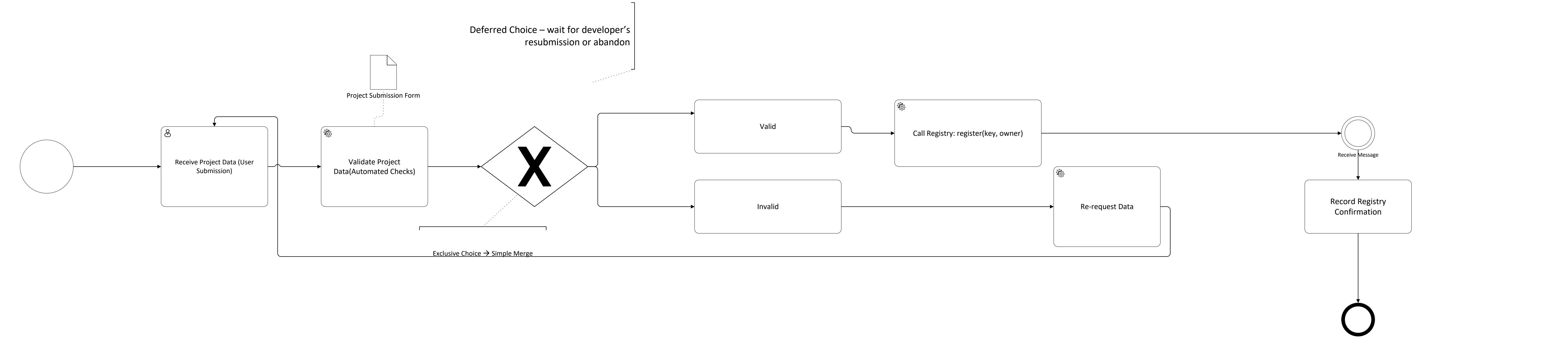
Polygon PoS

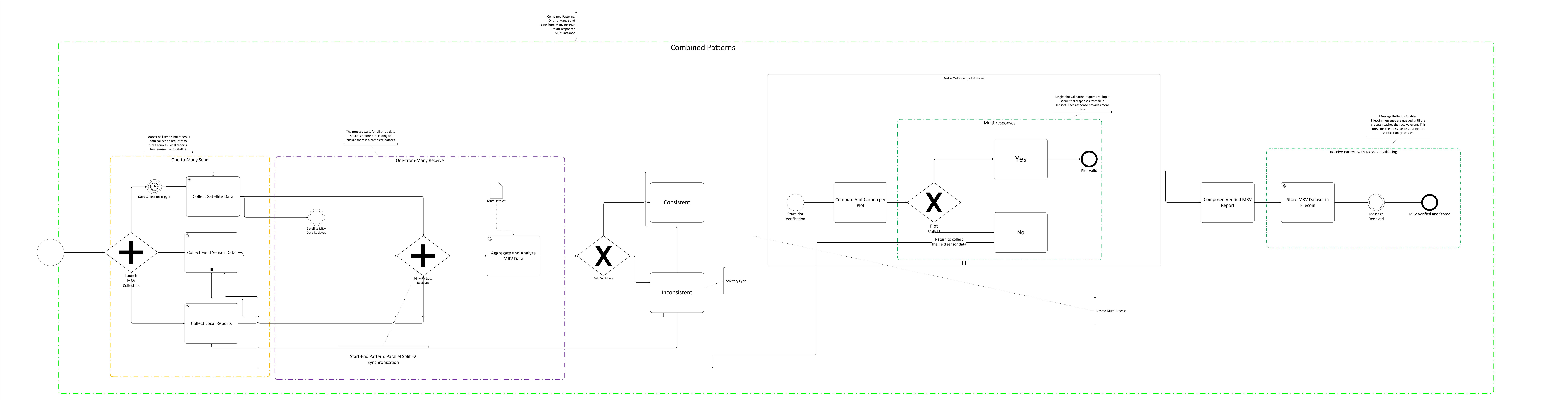
Registry Blockchain Smart Contract

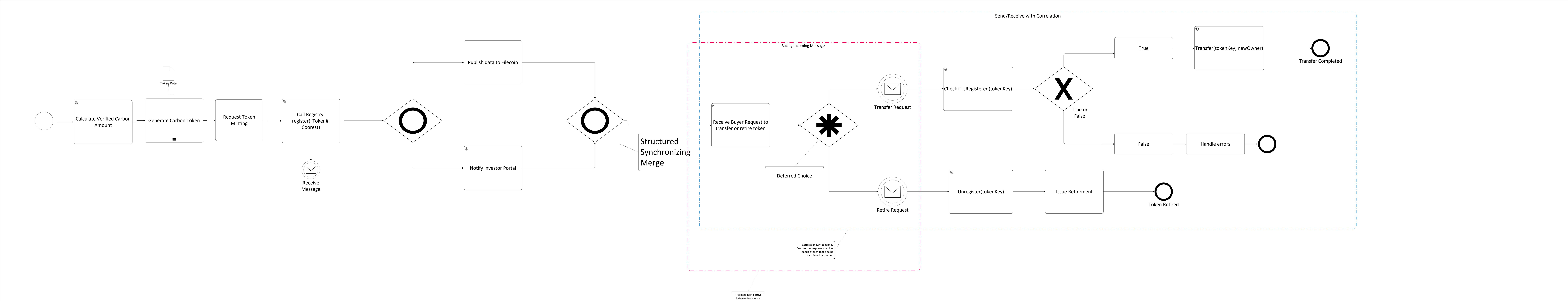
Coorest

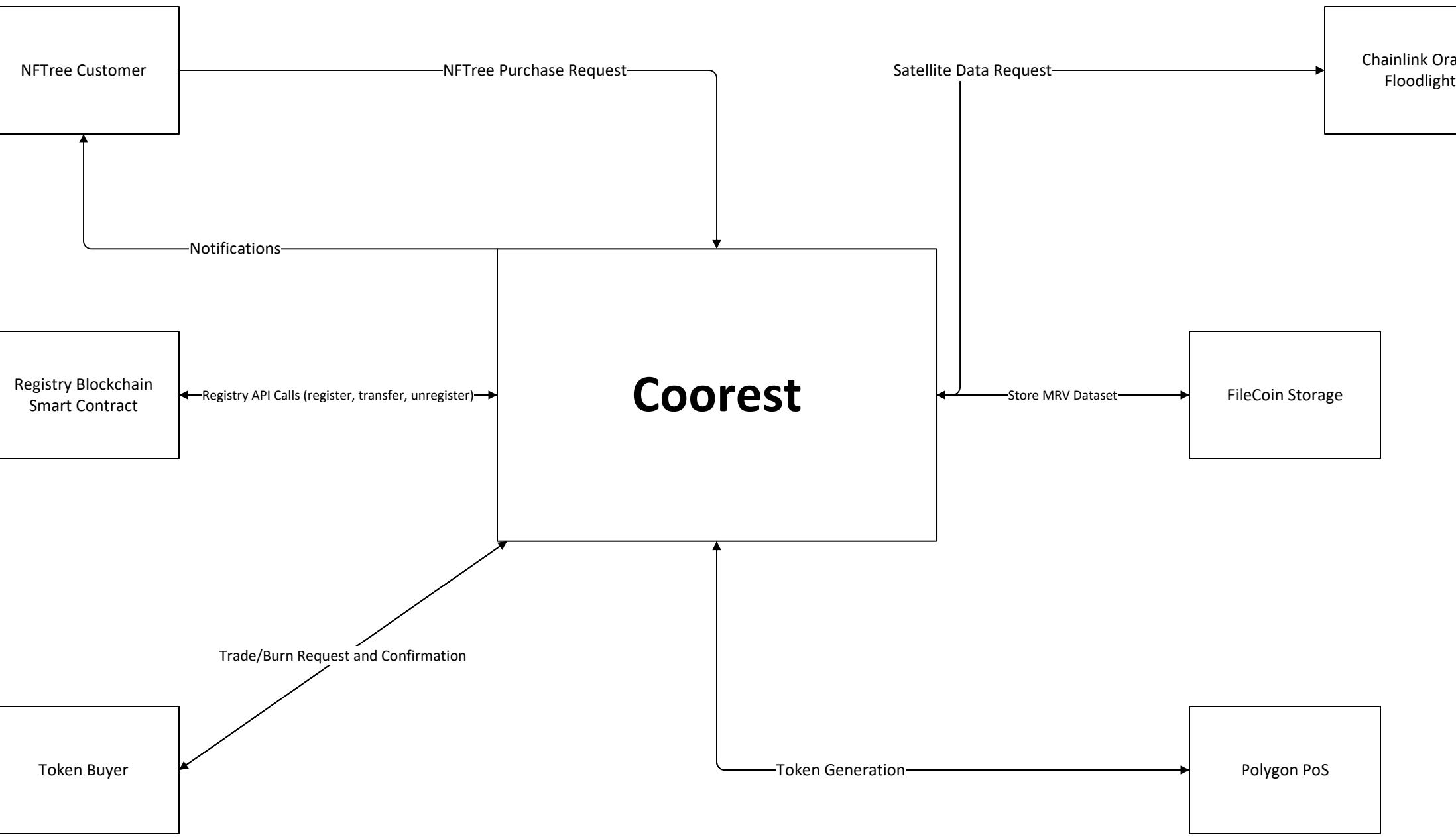


Edited from A1 so each sublane is now a collapsed subprocess in a different page









Legend:

- Coorest: Process Owner
- Registry Blockchain Smart Contract
- Chainlink Oracle: Satellite environmental data
- FileCoin Storage: MRV Dataset Storage
- Polygon PoS: Carbon token blockchain
- NFTree Customer: Purchases trees
- Token Buyer/Trader: Trades and retires carbon credits

