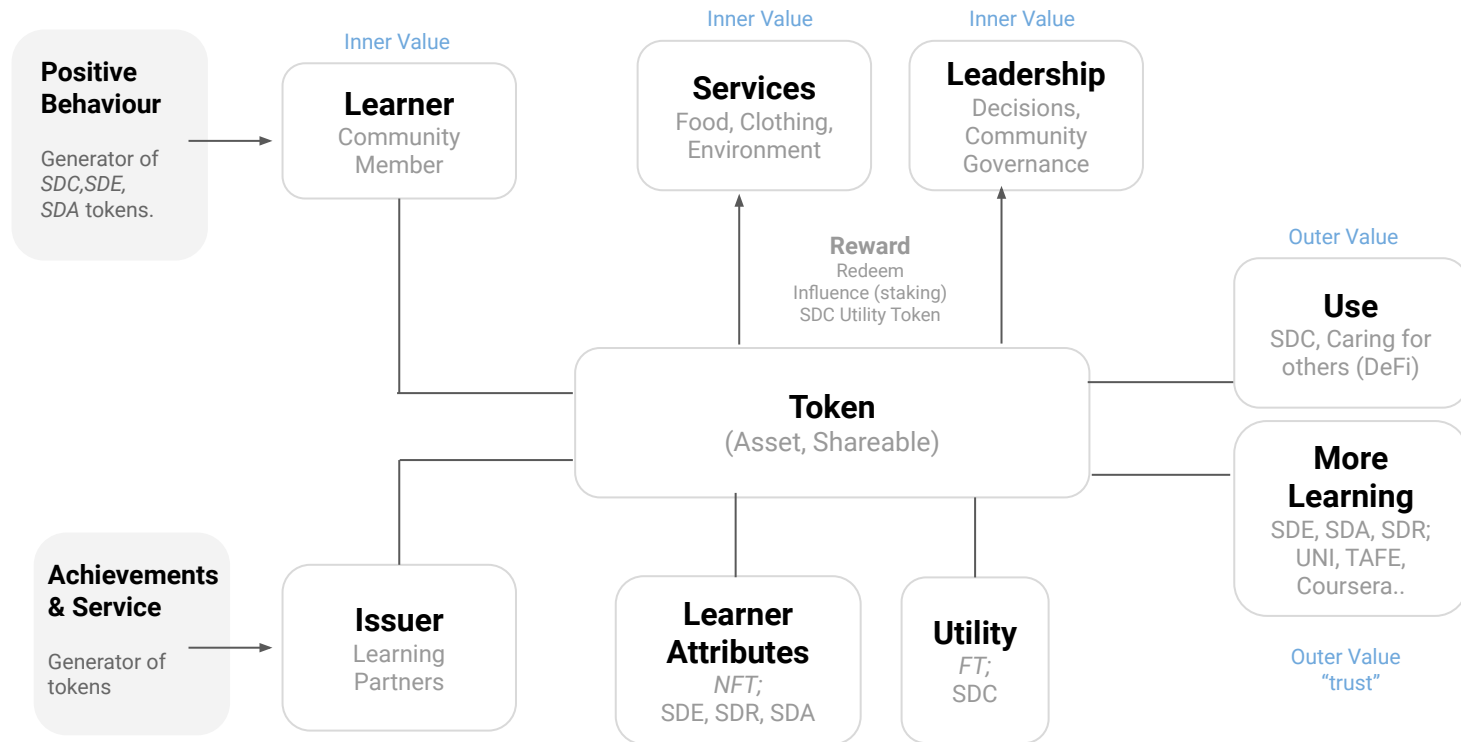# selfdrivenOS Tokens as Assets within a learning community

Facilitating a community

sdlf

Accountability
Food
Environment
Reflection
Growth Recognition

Positive Behaviour

Generator of *SDC,SDE, SDA* tokens.

Inner Value

Learner
Community Member

Inner Value

Services
Food, Clothing, Environment

Inner Value

Leadership
Decisions, Community Governance

Outer Value

Use
SDC, Caring for others (DeFi)

Reward
Redeem
Influence (staking)
SDC Utility Token

Token
(Asset, Shareable)

More Learning
SDE, SDA, SDR; UNI, TAFE, Coursera..

Achievements & Service

Generator of tokens

Issuer
Learning Partners

Learner Attributes
NFT;
SDE, SDR, SDA
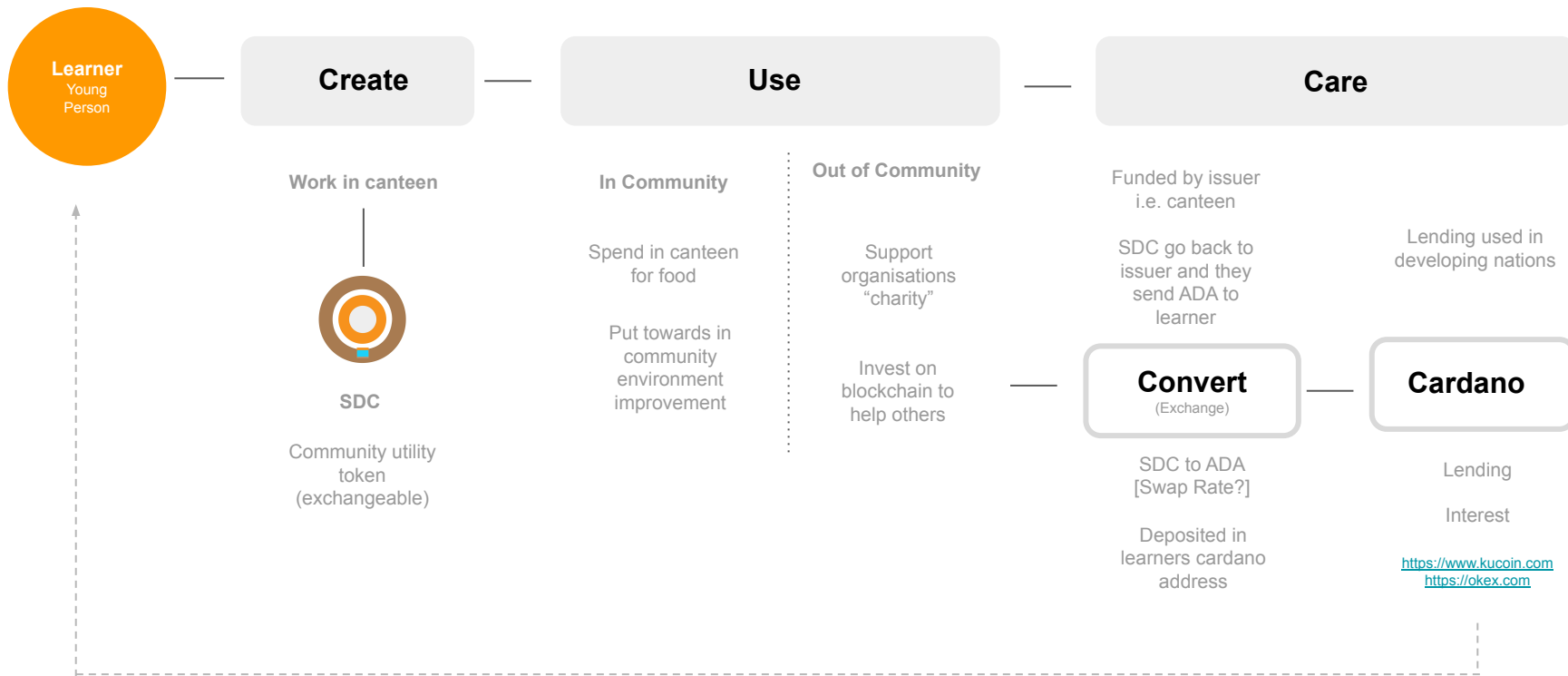
Utility
FT;
SDC

Outer Value
"trust"

Tokens Auto-Staked into learning community

Tokens can only be traded as *outer value*.

FT; Fungible Token

NFT; Non-Fungible Token (Unique to Learner)

SDC Community / Caring Token (Utility)

e.g. Work in canteen = caring for self, caring for others

selfdriven

Learner
Young Person

Create	Use	Care

Work in canteen

SDC

Community utility token (exchangeable)

In Community

Spend in canteen for food

Put towards in community environment improvement

Out of Community

Support organisations "charity"

Invest on blockchain to help others

Funded by issuer i.e. canteen

SDC go back to issuer and they send ADA to learner

Lending used in developing nations

Convert (Exchange)	Cardano

SDC to ADA [Swap Rate?]

Deposited in learners cardano address

Lending

Interest

https://www.kucoin.com
https://okex.com

selfdrivenOS Tokens

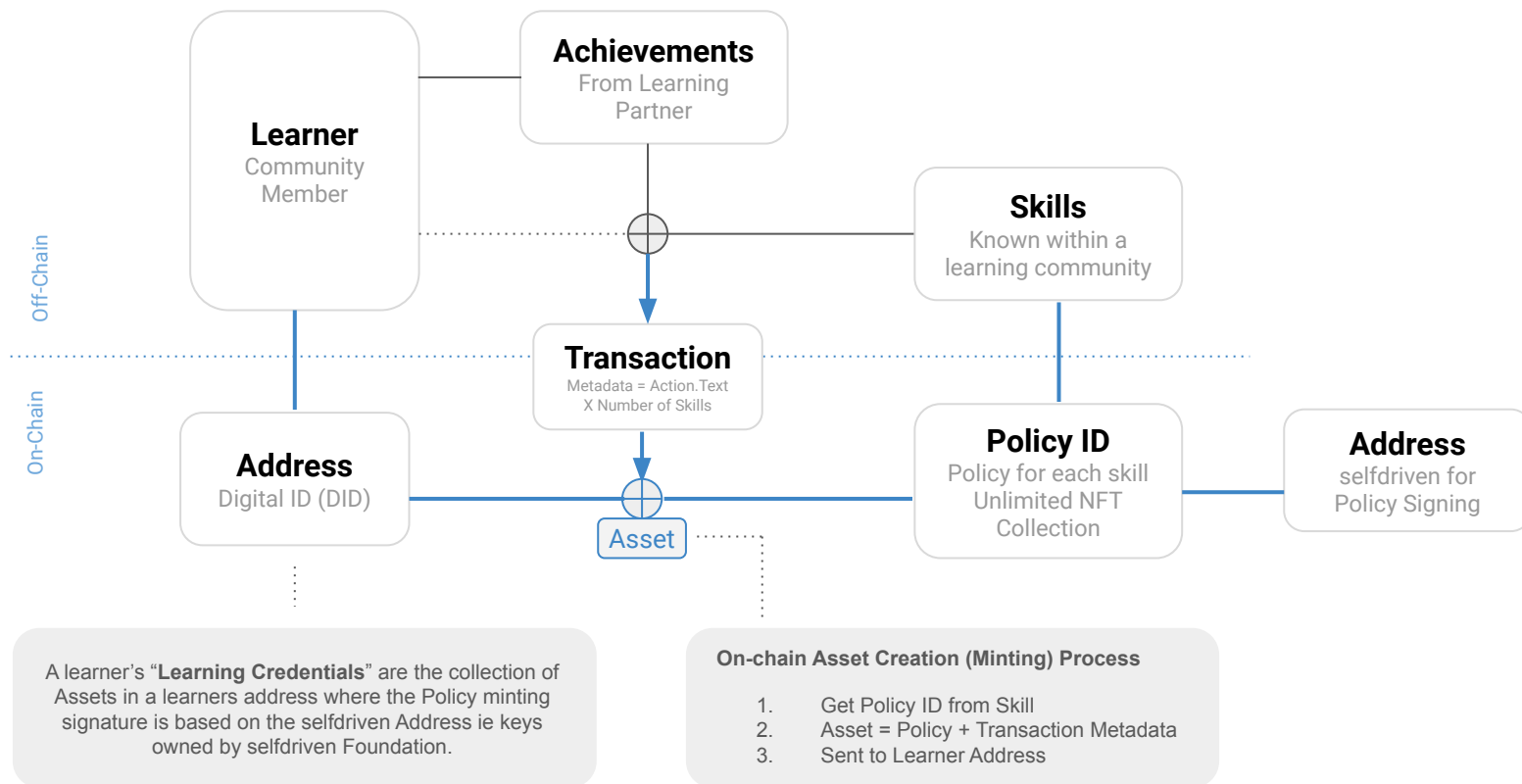|	Token Name	Use Case	Policy
Foundation	**SDF**	For the **SSDLF Foundation**, governance, utility to power development and platform. [On chain interactions / fees / rewards*]	Fungible Token (FT)
Community	**SDI**	Community **identity** (member, community, skill) token for SDE, SDR & SDA.	Non-Fungible Token (NFT*)
	SDC	Community utility token for governance, reward for effort, caring for self/others.	Fungible Token (FT)
	SDE	For **Endorsements**, for positive behaviour, use as utility for services, stake for governance.	Non-Fungible Token (NFT*)
	SDR	For **Reflections**, Learning reflections in the form of public endorsements etc.	Non-Fungible Token (NFT*)
	SDA	For **Achievements**, skills, course completions / credentials etc.	Non-Fungible Token (NFT*)

Non-fungible as the token transaction ("asset") is linked a person (learner) - so unique.

Cardano Blockchain, using multi-asset functionality for tokens

selfdrivenOS Achievements as On-Chain Assets

Learner
Community Member

Achievements
From Learning Partner

Skills
Known within a learning community

Off-Chain

On-Chain

Transaction
Metadata = Action.Text X Number of Skills

Address
Digital ID (DID)

Asset

Policy ID
Policy for each skill Unlimited NFT Collection

Address
selfdriven for Policy Signing

A learner's "**Learning Credentials**" are the collection of Assets in a learners address where the Policy minting signature is based on the selfdriven Address ie keys owned by selfdriven Foundation.

On-chain Asset Creation (Minting) Process

1. Get Policy ID from Skill
2. Asset = Policy + Transaction Metadata
3. Sent to Learner Address

Move to "On-Chain"

Learner

Community Approved Issuer (e.g.. Canteen)

Directly rewardable community service
e.g. Work in canteen

Rewardable activity (Hours)

Activity Record ("SD Token")

Fiat
e.g. $AU

matched

CEX
`$/ADA`

`hour /SDC`

Community Approved Issuer Address
ADA

Selfdriven Foundation Address
ADA

Learner Address

ADA

Move as wish

SDC

SDC moved daily out of SD Treasury into this address based on activity.

Monthly SDC moved back to treasury when converted to ADA based on meta-data..

SDC/ADA Pool 1

Market Rate "SDMR"

Community

In-directly rewardable
e.g. Positive behaviour recognised by learning partners

Endorsement (if rewardable)

Activity Record ("SD Token")

`count /SDC`
Using "SDMR"

SDC

SDC/ADA Pool 2

Community Address

ADA

Managed by learning community in collaboration with SD foundation for contribution to environment projects.

Community fees for use of selfdriven.cloud service

X% of fee

Fiat
e.g. $AU

X is tuned to ensure selfdriven foundation services profit returned to communities..

CEX
`$/ADA`

Move on chain

ADA

Selfdriven Foundation Address

Cardano Staking Pool

Managed by foundation
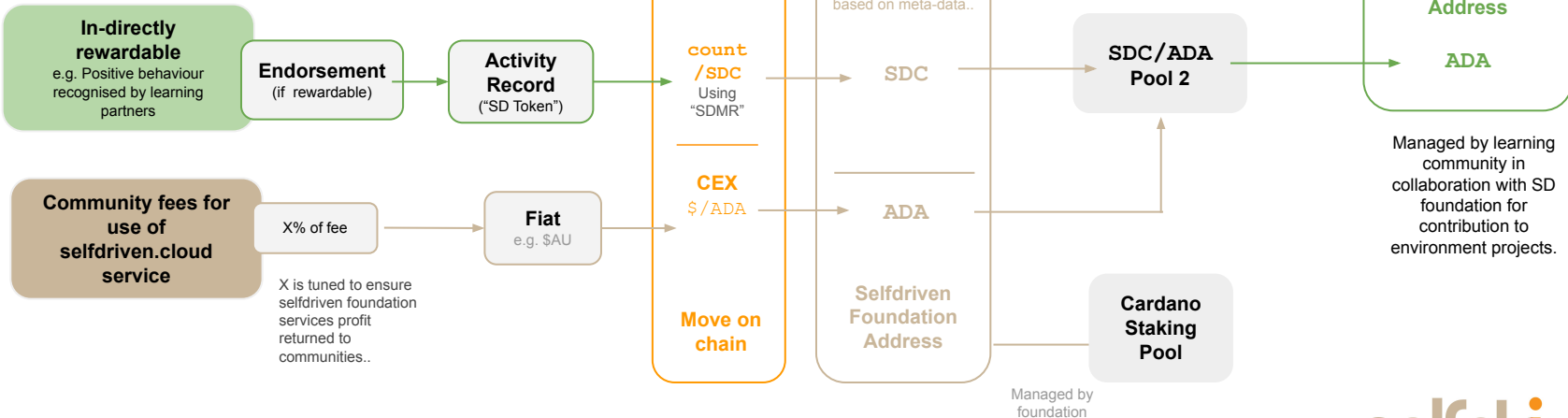
CEX = Central Exchange   Pool 1 = Learner Managed   Pool 2 = SD Foundation

selfdriven

selfdrivenOS On-Chain Policies

Foundation
For minting Foundation Tokens
Once off, 200,000 tokens.

Identity
For minting Identity Non-Fungible-Tokens

Community
For minting Community Fungible-Tokens
For use on-chain for projects and exchanging; Sundae Swap Pool

Recognition
For minting Recognition Non-Fungible-Tokens
I.e. Achievements, Endorsements & Reflections

Metadata

Policies can be used to mint tokens using the different metadata IDs - ie formats.

selfdrivenOS On-Chain Metadata IDs

```
"type": "community-member",
"type": "skill"
"type": "community-organisation"
```

SDF (sdf)
115100102

SDA (sda)
11510097

SDI (sdi)
115100105

SDR (sdr)
115100114

SDC (sdc)
11510099

SDE (sde)
115100101

e.g.

Community Member

```
{ "115100105":
        {
                "type": "community-member",
                "sdi": "3a22327d-eff6-4875-88ba-bd024709c295",
                "firstname": "Harry",
                "lastname": "Jones"
    }     }
```

Achievement

```
{ "11510097":
      {
              "sdi": "3a22327d-eff6-4875-88ba-bd024709c295",
              "issueddate": "01 JAN 2022",
              "skills"
              [
                      {
                              "sdi": "4ba22327d-eff6-4875-88ba-bd024709c295",
                              "notes": "This is an optional note"
                      }
              ]
      }
 }
```

selfdrivenOS On-Chain Identity

Metadata Format ID: "115100105" ie like "721",
SDI as ASCII

Key is the selfdriven "UUID"
i.e.3a22327d-eff6-4875-88ba-bd024709c295

```
{ "115100105":
    {
        "sdi": "3a22327d-eff6-4875-88ba-bd024709c295",
        "firstname": "Harry",
        "lastname": "Jones"
    }
}
```

Minted using the selfdriven Identity Policy ID

selfdrivenOS On-Chain Recognition Metadata

Achievement

Metadata ID: "11510097"

This has been issued by selfdriven Foundation is a combination of the policy ID ie "Recognition Policy" that minted it and the Metadata ID i.e. the format

```
{ "11510097":
    {
            "sdi": "3a22327d-eff6-4875-88ba-bd024709c295",
            "issueddate": "01 JAN 2022",
            "skills"
            [
                {
                    "sdi": "4ba22327d-eff6-4875-88ba-bd024709c295",
                    "notes": "This is an optional note"
                }
            ]
    }
}
```