



Blockchain for Impact Summit, Zurich, April 28th 2022
SAMBA - Swiss Association of MBAs

Etherisc “Impact Use Case”

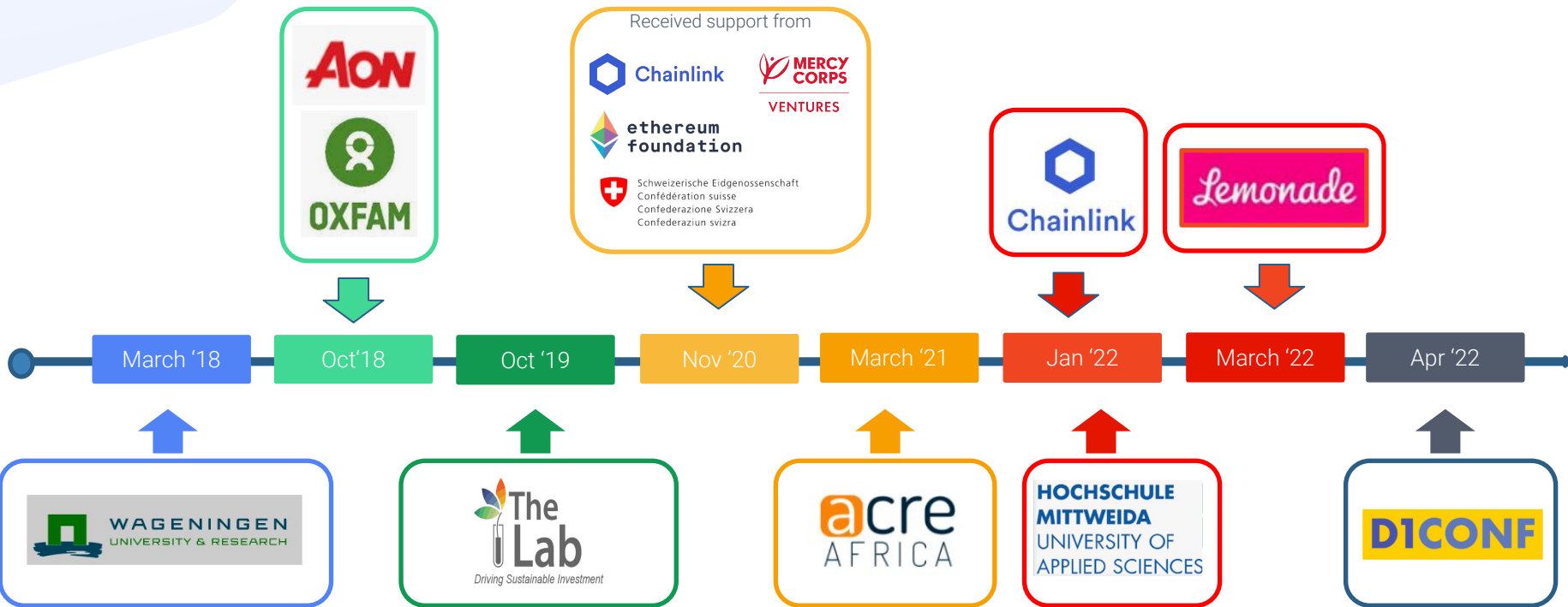
- Etherisc Platform
- Poverty, Climate Risks and Insurance
- Crop Insurance for Kenya

Dr. Matthias Zimmermann – CTO Etherisc

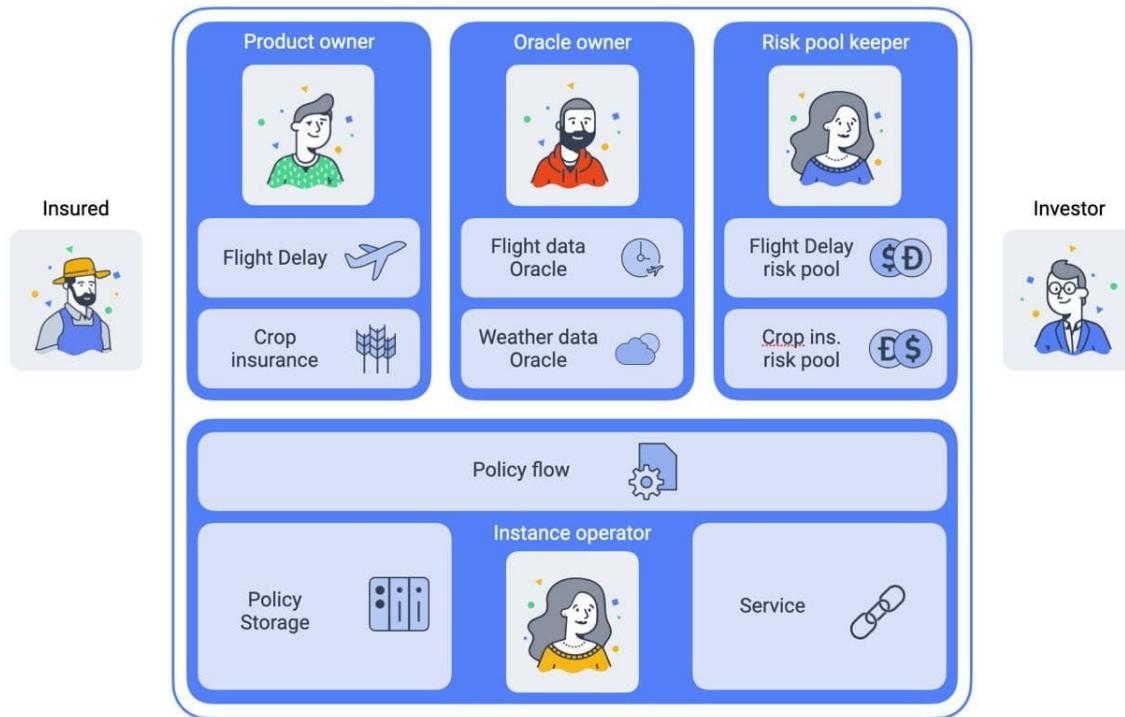
Etherisc Platform

- Partnerships
- Platform Overview
- Premiums, Policies and Risk Pools

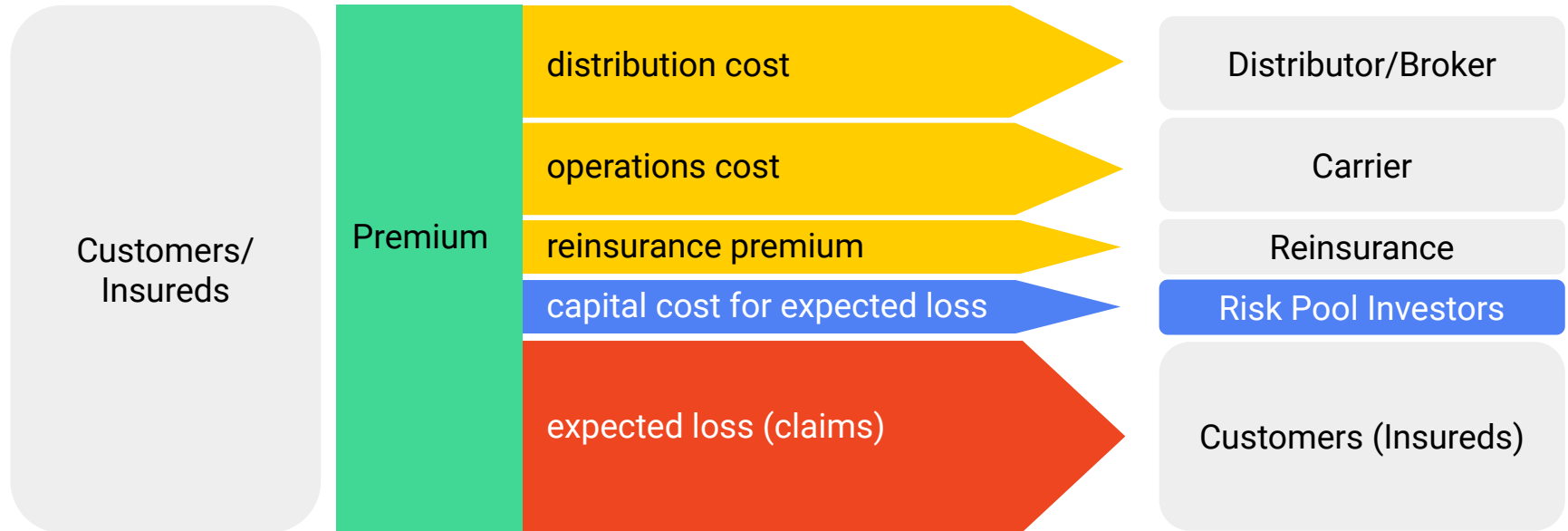
Etherisc Partnerships



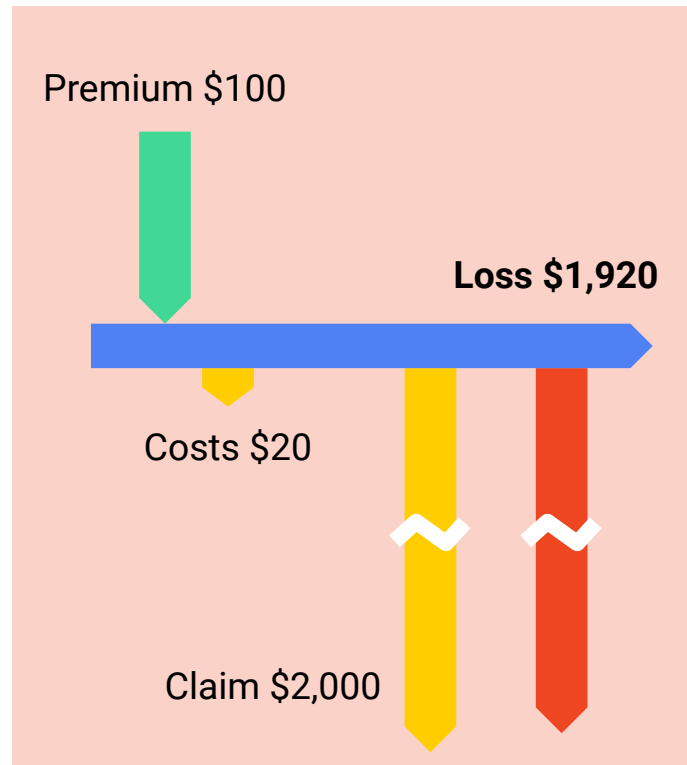
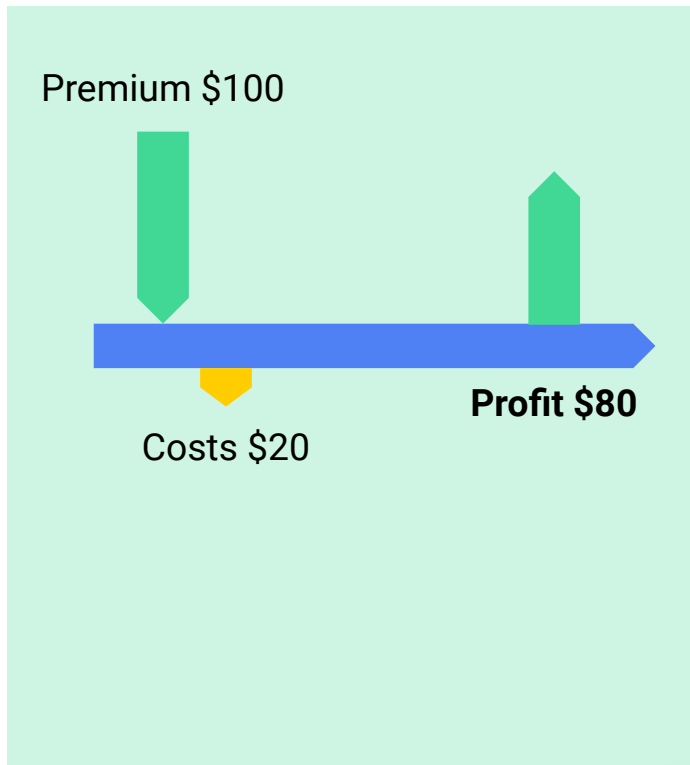
Etherisc Platform – Overview



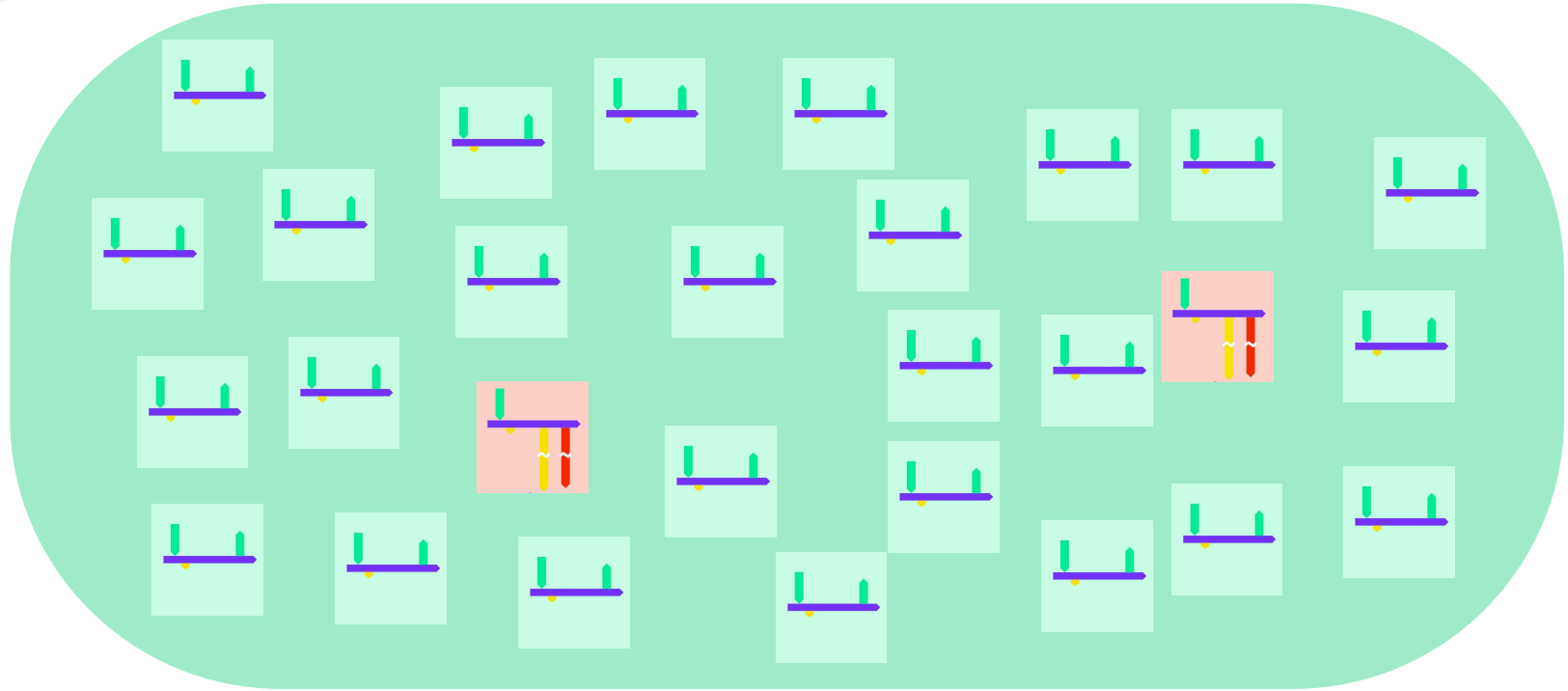
Premiums and Risk Pools



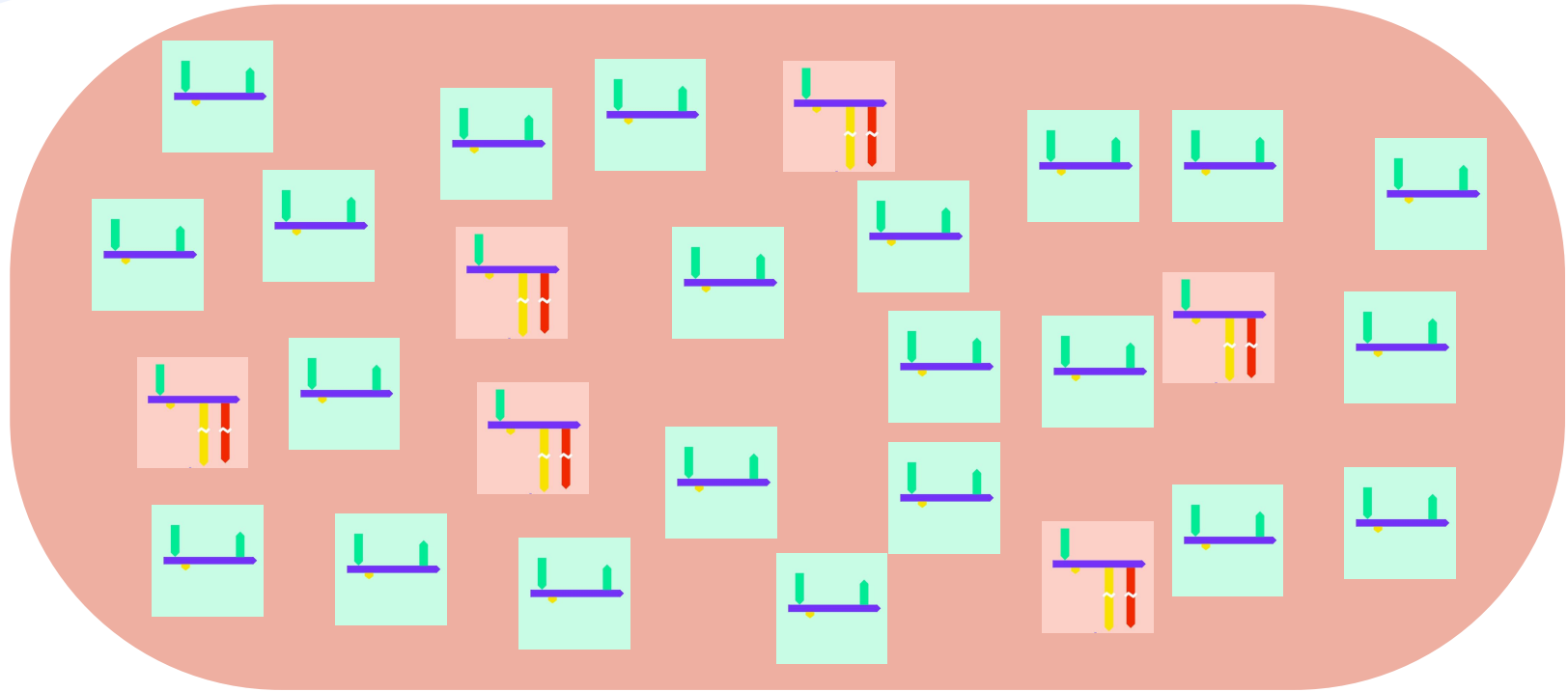
Policies are Financial Assets



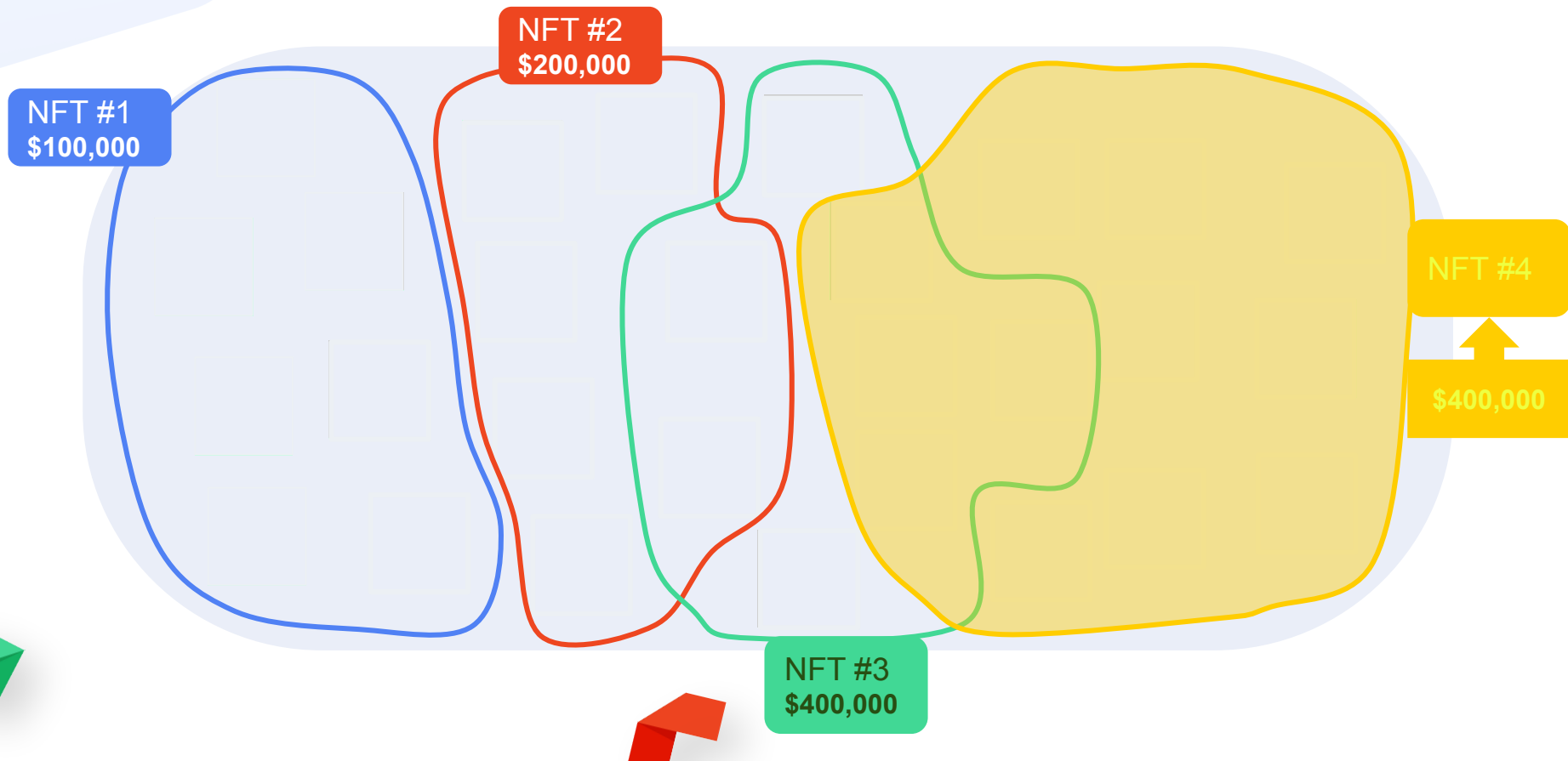
Risk Pools – Net Profit “The Good”



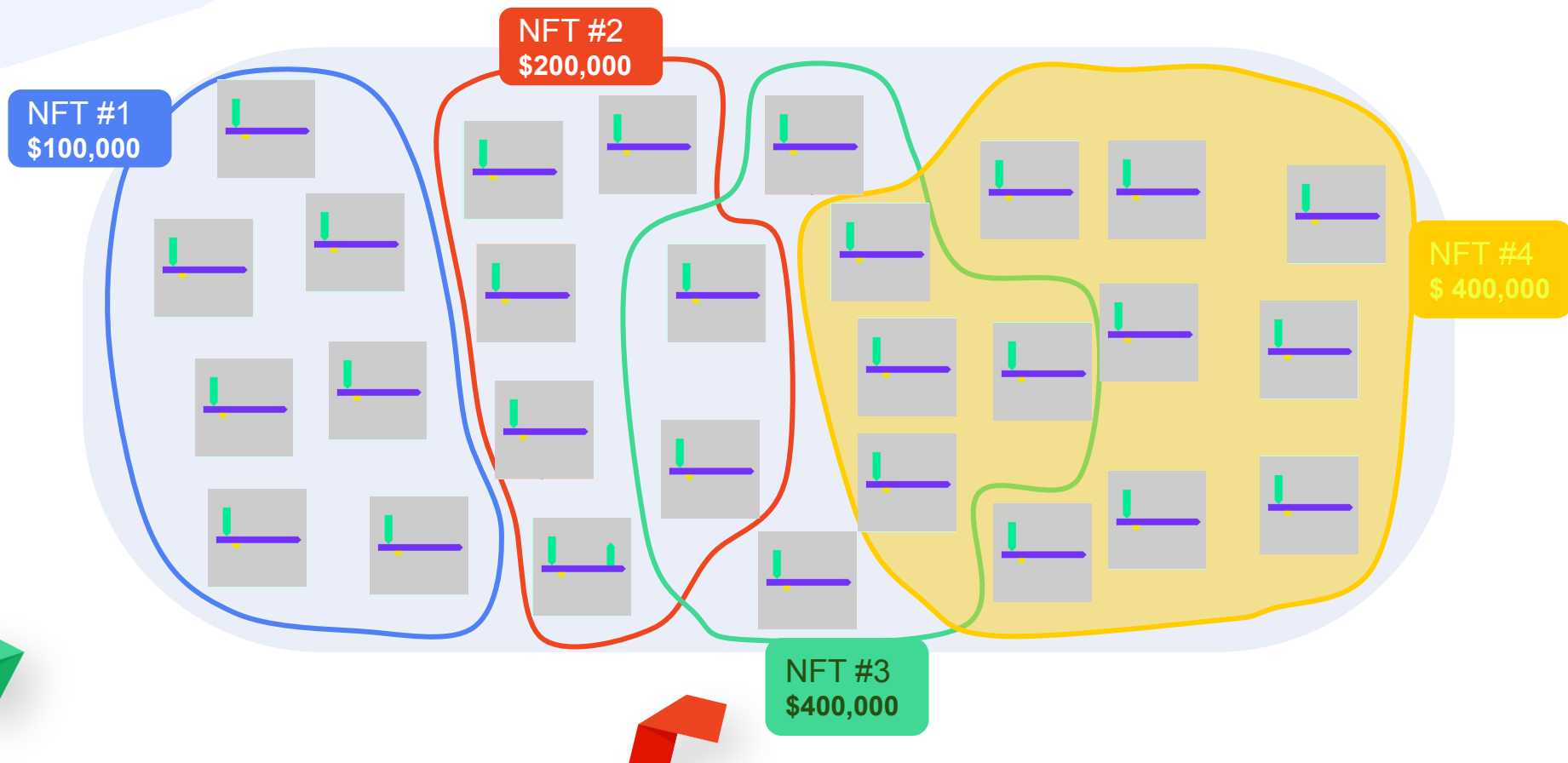
Risk Pool – Drained or Default “The Bad or Ugly”



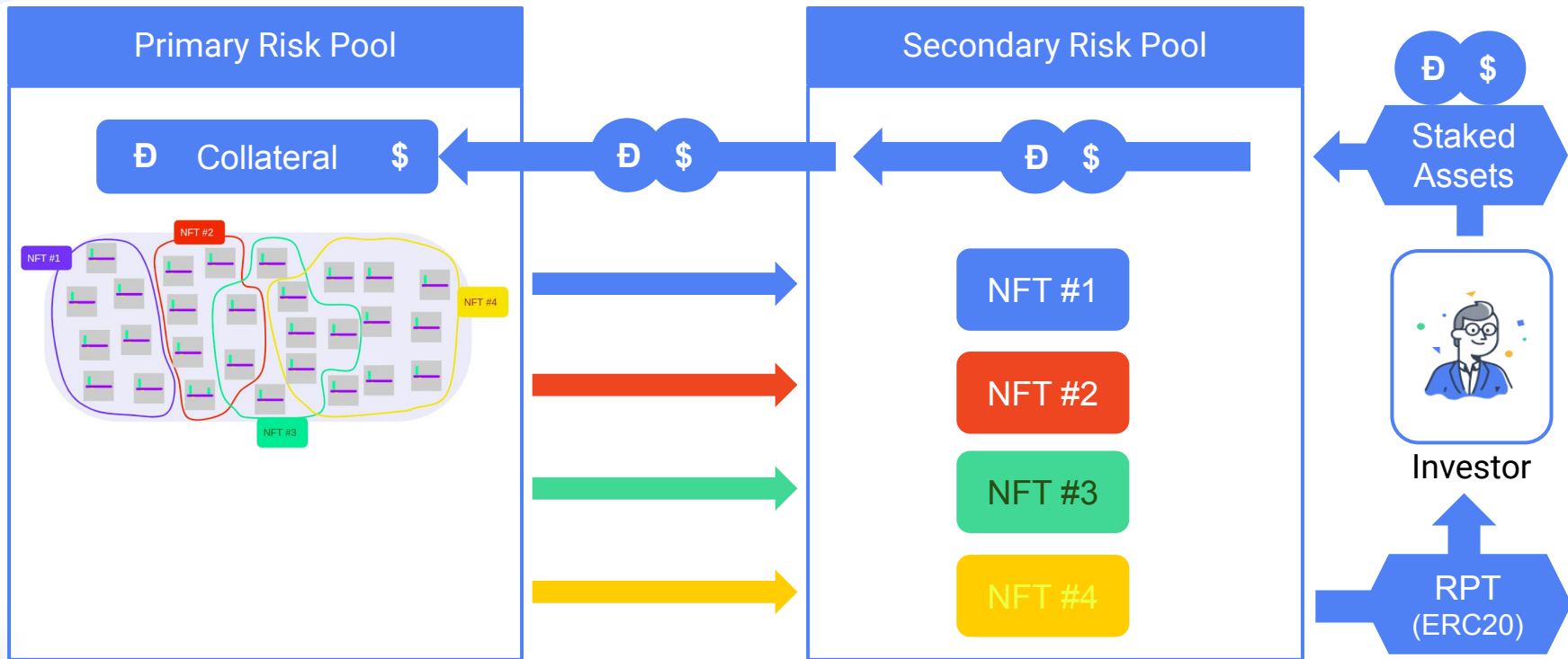
Add Capacity to cover Rare Events – Risk Pool NFT



After providing collateral / capacity, we can sell policies!



Risk Pool Tokens (RPT) – Creating Liquidity for Risk Pool NFTs



Poverty, Climate Risks and Insurance

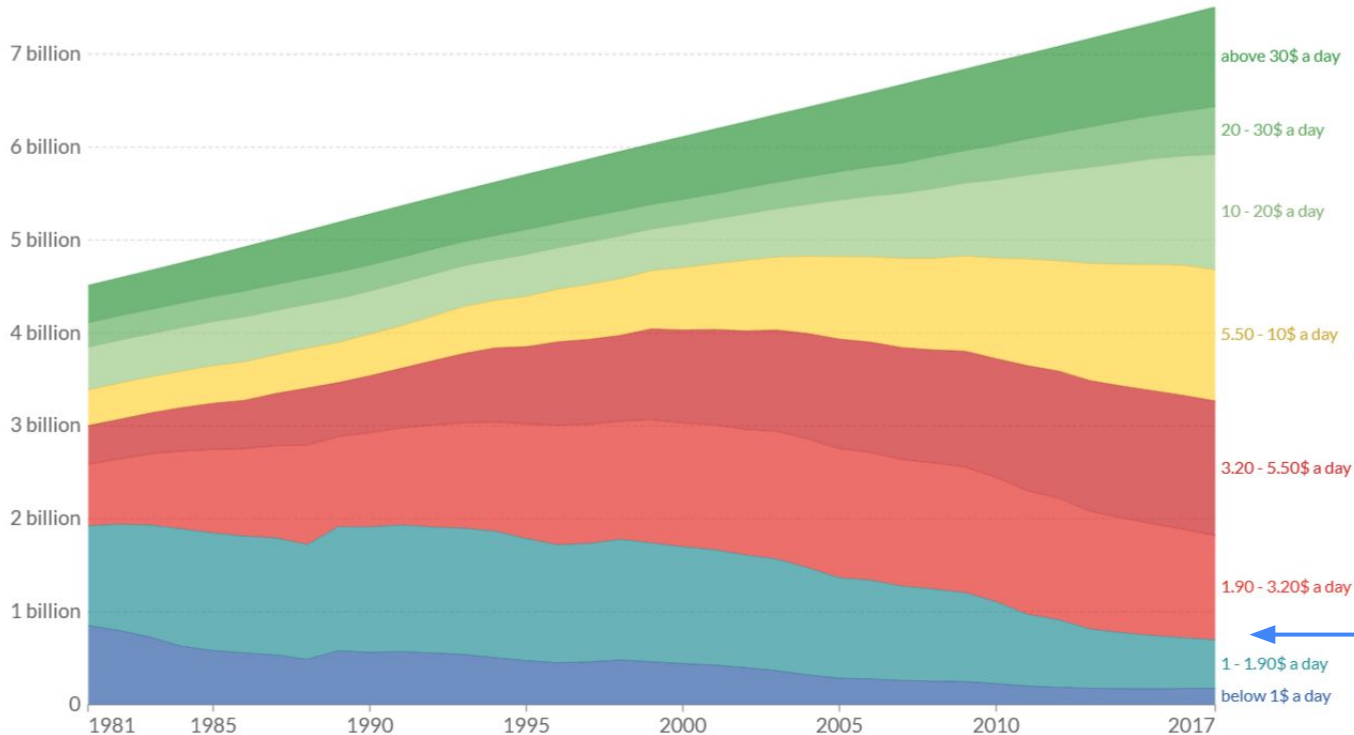
- Income and Poverty Distribution
- Poverty and Climate Risks
- Traditional Insurance and “DeIns”

Distribution of population between different poverty thresholds, World, 1981 to 2017

All figures are adjusted to account for inflation and price differences across countries, and are expressed in international dollars at 2011 prices.



Change country Relative



Source: World Bank, PovcalNet (2021)

Note: Consumption per capita is the preferred welfare indicator for the World Bank's analysis of global poverty. However, for a number of countries poverty is measured in terms of income. An income basis is common amongst high income countries and Latin American countries.

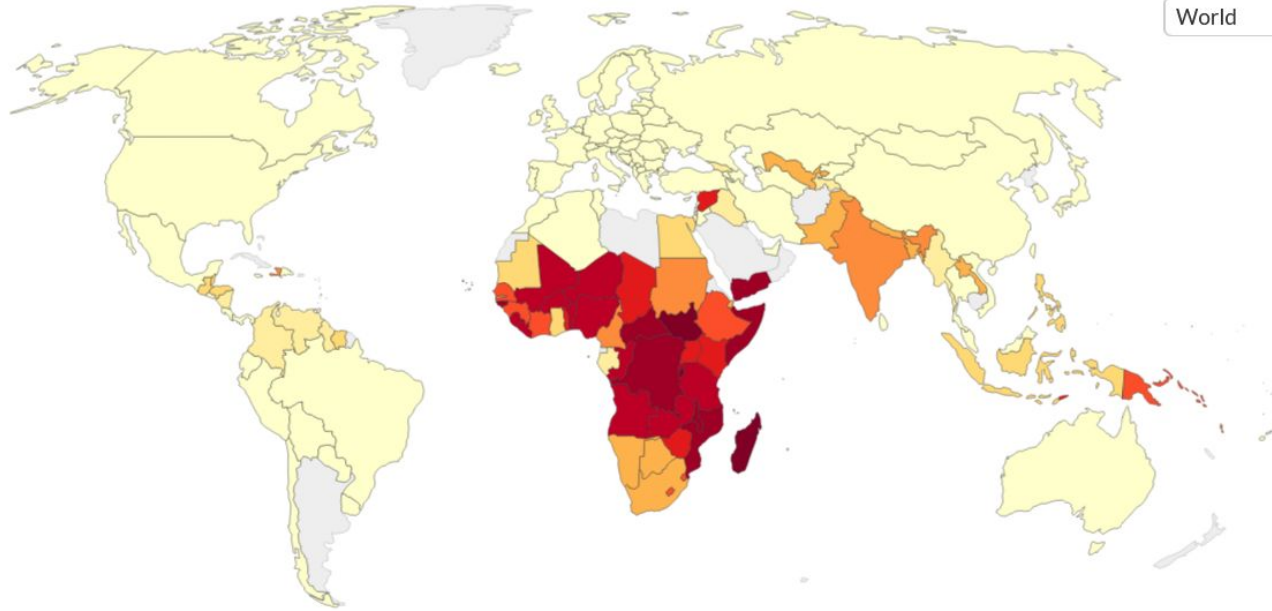
CC BY

Share living on less than 3.20 int.-\$ per day, 2019

Figures relate to household income or consumption per person, measured in international-\$ (in 2011 PPP prices) to account for price differences across countries and inflation over time.



World



Close to 2 billion people live on less than 3.20 \$



Source: World Bank PovcalNet

OurWorldInData.org/extreme-poverty • CC BY

Poverty and Climate Risks

Severe Loss Events

- Increasing flood and drought events that affect crops and livestock
- Heat waves that affect unprotected people
- ...

Consequences for Poor People

- Loss of food security, hunger
- Forced move to cities
- Loss of family savings, debt spiral
- Loss of life or severe health issues
- ...

Traditional Insurance “TradIns” and Poor People

“TradIns” Market

- Substantial premium amounts
- Expensive onboarding and claims handling processes
- Substantial regulatory requirements (KYC/AML/...)

Perspective for Poor People

- Lack of understanding and trust for “insurance”
- Mismatch between average literacy and “fine print” product mentality
- Complicated claim handling, intransparent payout decisions
- Unaffordable premiums

Non- Starter

Decentralized Insurance “Delns”



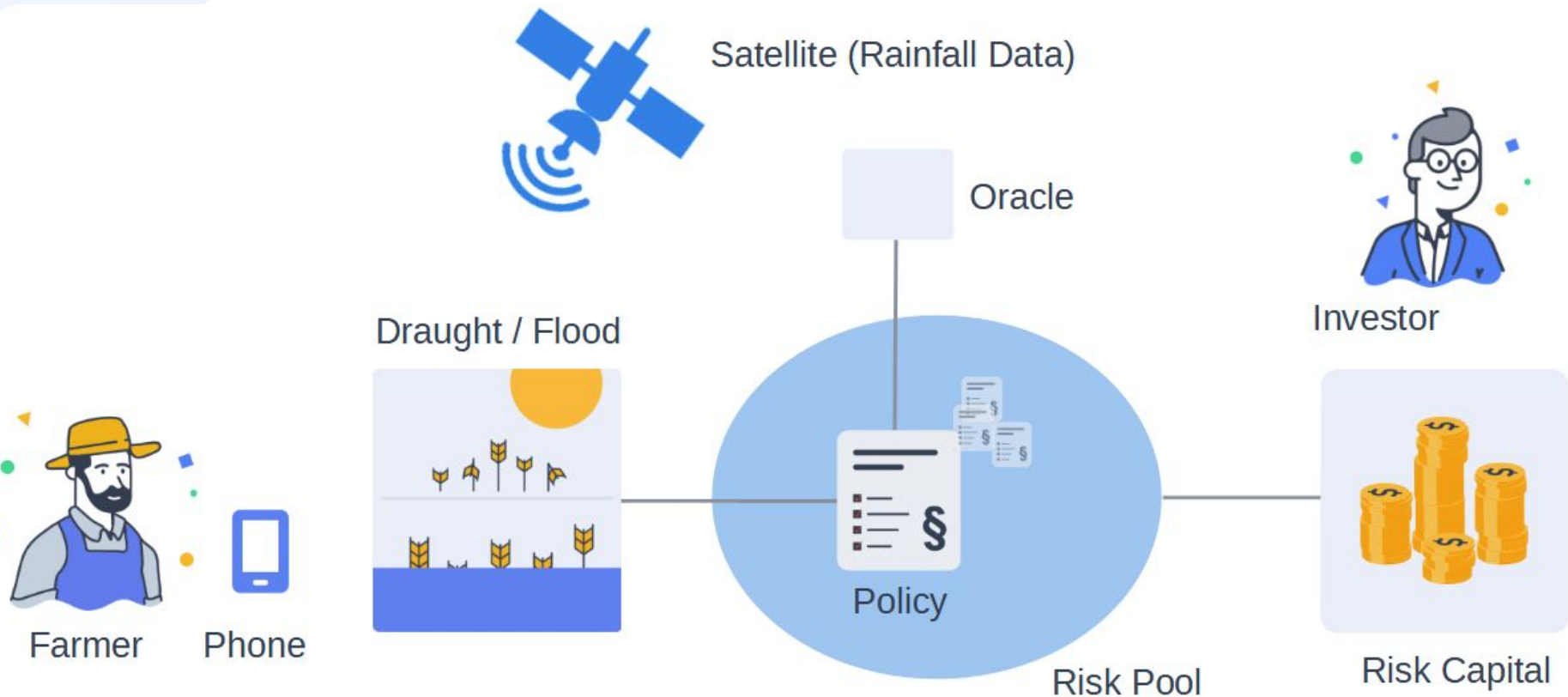
Attractive Properties of “Delns”

- Premium amounts < 5\$ feasible
- Minimal onboarding overhead (via mobile phones / mobile money)
- Parametric insurance allows for fully automated claims processing
- Transparent and tamper proof audit trail
- ...

Crop Insurance for Kenya

- Income and Poverty Distribution
- Poverty and Climate Risks
- Traditional Insurance and “DelIns”

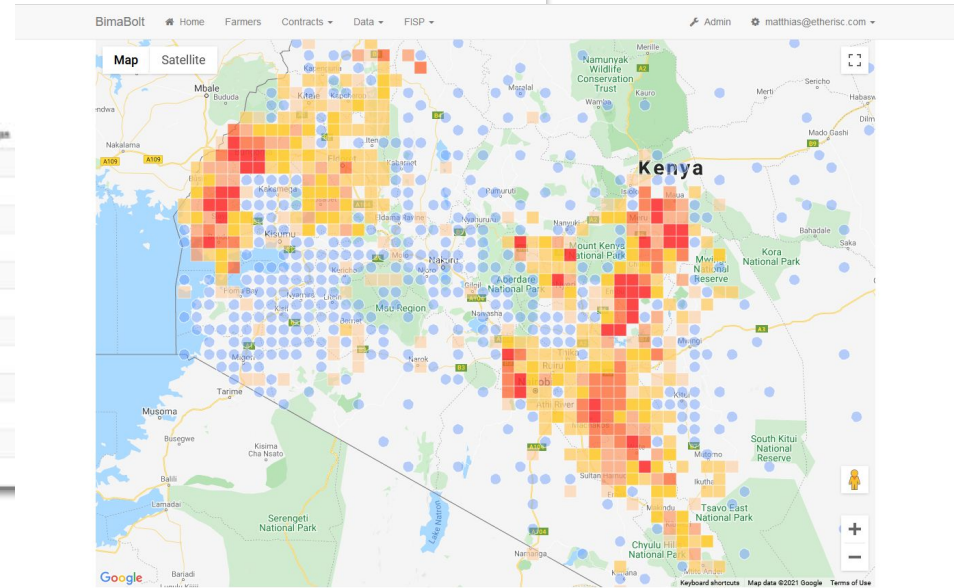
Overall Process



Backend Application (Off Chain)



Group Policy Id	Location	Date Begin
BimaPma.LR2021.Maize.2.Pwei360088	Pwei360088	Mar-23
BimaPma.LR2021.Maize.3.Pwei372576	Pwei372576	Apr-12
BimaPma.LR2021.Maize.1.Pwei374376	Pwei374376	Mar-18
BimaPma.LR2021.Maize.2.Pwei374376	Pwei374376	Mar-28
BimaPma.LR2021.Maize.2.Pwei374381	Pwei374381	Mar-29
BimaPma.LR2021.Maize.2.Pwei374582	Pwei374582	Mar-29
BimaPma.LR2021.Maize.1.Pwei374582	Pwei374582	Mar-15
BimaPma.LR2021.Maize.3.Pwei374382	Pwei374382	Apr-12
BimaPma.LR2021.Maize.3.Pwei374583	Pwei374583	Apr-12
BimaPma.LR2021.Maize.2.Pwei374584	Pwei374584	Mar-29
BimaPma.LR2021.Maize.2.Pwei375069	Pwei375069	Mar-29
BimaPma.LR2021.Maize.2.Pwei375581	Pwei375581	Mar-29





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