

etherisc.com



Etherisc

Decentralized insurance

Ethereum Meetup Vienna
20 March 2017



Our solution: Flight delay, **fdd.etherisc.com**

We launched the **first operational insurance application** on the Ethereum blockchain in September 2016 for devcon2.

Fully automated insurance process with a **great user experience**.

One airline ~100M passengers per year, \$3-5 premium, 10% fee

how it works

apply for policy

watch your policy

meet the team

contact

Morden Testnet

Block: 1791792

Contract: 0xceb83...

Account: 0xf11da...

20.15Ξ

Apply for Policy

Choose your flight by selecting origin and destination airports and a date, then hit the search button and select your flight from the list. Note that only direct flights are shown.

JFK - New York, NY, USA John F Kennedy Intl ...

JFK - New York, NY, USA John F Kennedy Intl Airport

Search



how it works
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Ropsten Testnet
Block: 37913
Contract: 0xde5aa...
Account: 0xf11da...
202.48Ξ

Our solution: Crop insurance, **crop.etherisc.com**

Same model of **parametric insurance**, easy to apply to other verticals


One insurer ~100k farms, ~1M acres, \$2.50 premium/acre, 10% fee

Apply for Policy

Choose your product by selecting crop type, seed grade, acreage and location. You can search for a specific location via the "Search location" box, or just click in the map. After entering the product selection criteria, select the desired product from the drop-down-list below.

<input type="text" value="select crop"/>	<input type="text" value="select seed grade"/>
<input type="text" value="acreage"/>	<input type="text" value="search location"/>

Map Satellite



Google

Map data ©2016 INEGI Imagery ©2016 NASA, TerraMetrics Terms of Use

Decentralized insurance market

- **<https://etherisc.com/whitepaper>**
- **Token model** for investors to provide capital for risk pools
- Whitepaper, simulation, testing now

ETHERISC

A decentralized insurance and reinsurance marketplace

v0.4

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Reviewers:

Etherisc Social Insurance

A decentralized model for social security by etherisc for the UAE govhack

[Live demonstrator](#) – [Source code](#) – [Demo Video](#)

[Read more](#)

- **<https://govhack.etherisc.com>**
- Simple social security, affordable and accessible for anyone
- Mutual pools using local social structures
- Peer assessment to check for claims

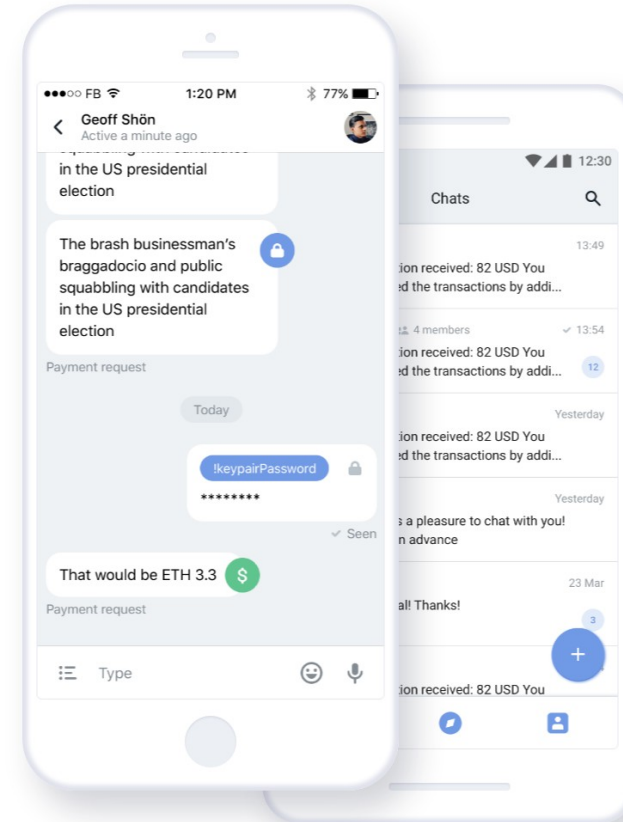
Successes so far ...

- Winner **blockchain startup contest** 2016, Graz, Vienna.
- Most funded project at **hack.ether.camp**
- One of top 5 companies selected for **AIA blockchain challenge**
- Project with **big 4 accounting firm** to explore regulatory conditions
- Project to offer **insurance for electric vehicle charging stations**

Roadmap for Q2 2017



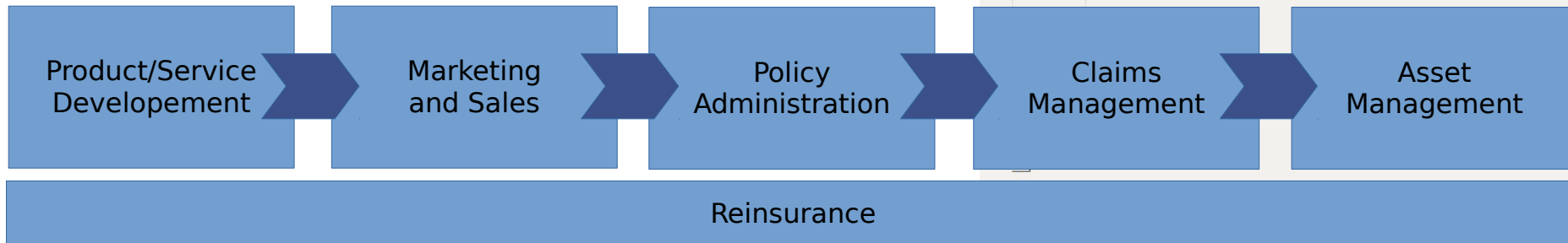
- Testing **token market**
- **Security audits** and bug bounties
- Develop **regulatory and legal framework**
- Ramp up **team** & funding



Our vision

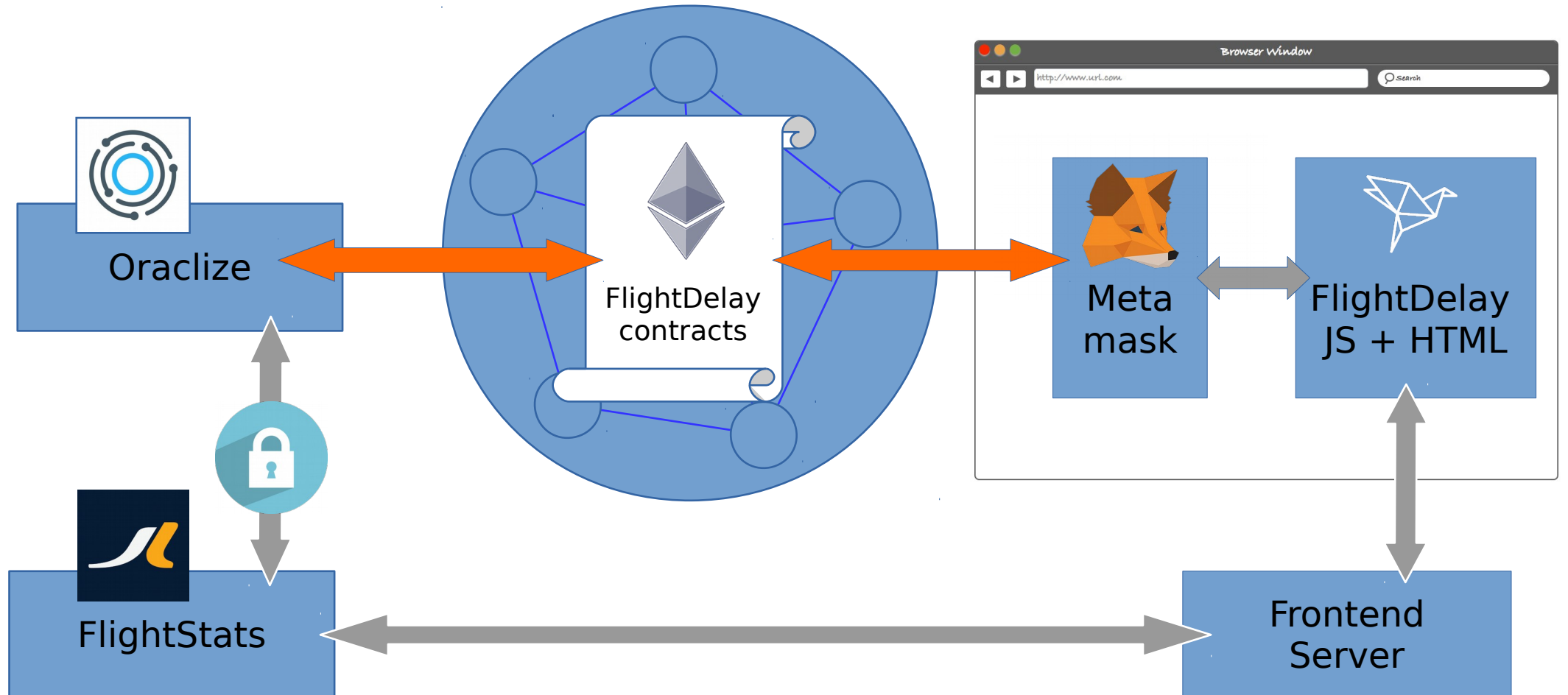
import “standard_insurance.sol”

An **open standard** for
the **insurance value chain**

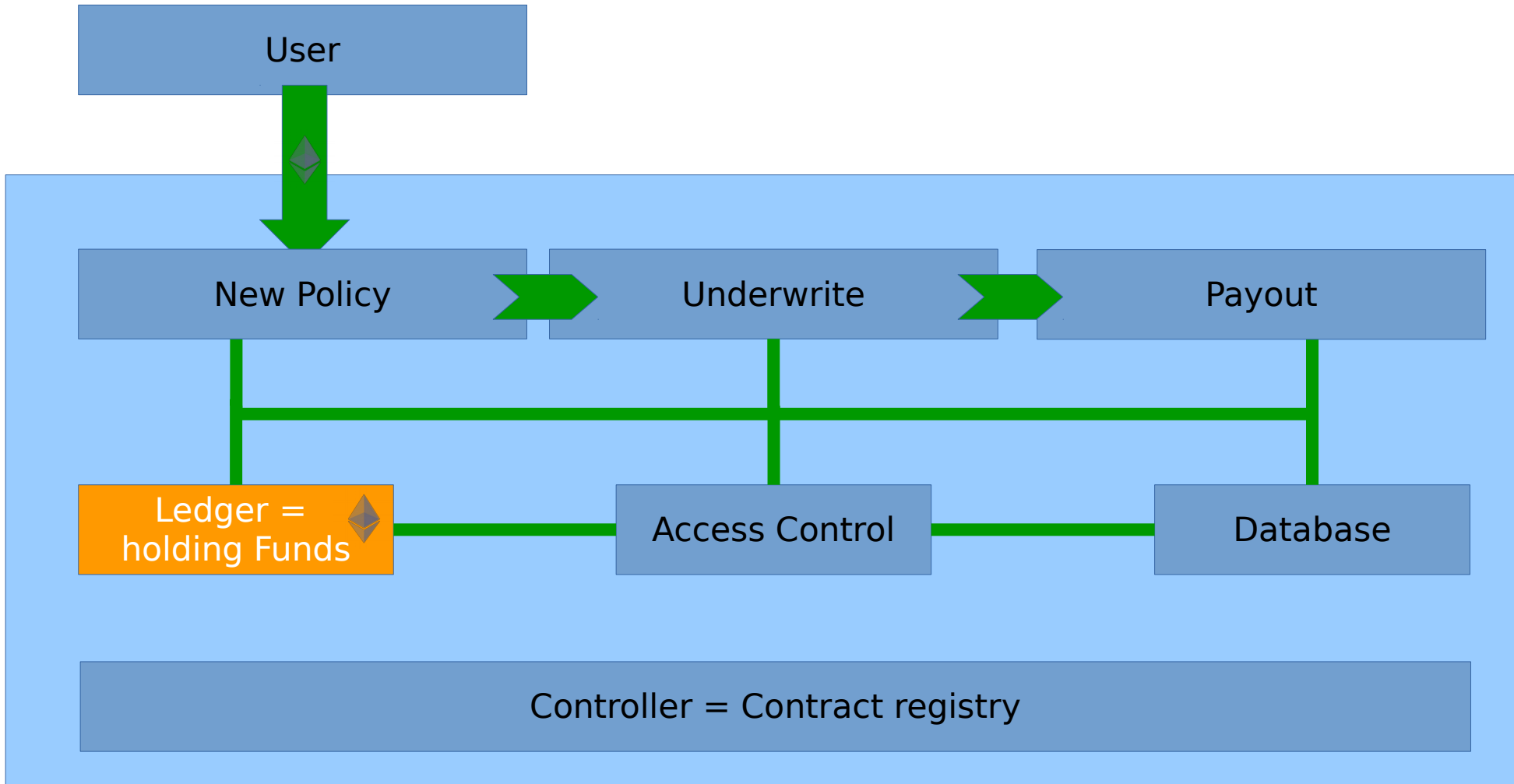


```
pragma solidity ^0.4.7;  
  
import "standard_insurance.sol";  
  
contract Insurance is standardInsured {  
  
    function NewPolicy() {  
        ...  
    }  
  
    function Underwrite() {  
        ...  
    }  
  
    function Payout() {
```


General architecture



FlightDelay contracts



← **F** FlightDelayBot 5 members

Flightdelay
Event: LOG_PolicyApplied
Network : morden
TxHash : [0x414cb...](#)
PolicyId : [/show14M](#)
Customer : 0x58f18...
Flight : SK/[1556](#)
Premium : 0.48

[testnet.etherscan.io](#)
Ethereum Transaction
0x414cb1af11dadaf1396b46f86
7b22bab6aea5a302dfc834a3f06
ba3b90a312d2
The Ethereum BlockChain
Explorer, API and Analytics
Platform

Flightdelay
Event: LOG_OraclizeCall
Network : morden
TxHash : [0x414cb...](#)
PolicyId : [/show14M](#)
QueryId : [0x82e17...](#)
URL : URL
json(<https://api.flightstats.com/flex/>)

11:17


← **F** FlightDelayBot 5 members

Reent.Guard : false
Ledger :
Premium : 29.49
RiskFund : 350.35
Payout : -26.05
Balance : -353.06
Reward : 0.70
Oracl.Costs : -1.42
Ext. Balance : 353.06 13:36

Flightdelay
Policy List
[/show0](#) : OS/75 ..09/1
0.97:ACC
[/show1](#) : AF/5200 19.09.2016
2.42:ACC
[/show2](#) : OS/75 17.09.2016
0.97:ACC
[/show3](#) : OS/58 ..09/1
0.97:DEC
[/show4](#) : OS/75 17.09.2016
0.97:ACC
[/show5](#) : OS/75 10.09.2016
0.97:DEC
[/show6](#) : KL/1033 10.09.2016

[/list](#) 13:37 ✓✓

← **F** FlightDelayBot 5 members

 **Christoph Mussenbrock**
[/show3M@flightdelay_bot](#) 07:43

Flightdelay
Network morden
PolicyId 3:
Customer : 0x1159...
Status : Paid Out
Premium : 2.91
Weight : 6320
Calc. PYO : 46.05
Act. PYO : 46.05
State Time :
28.9.2016, 10:15:27
State Msg :
Payout successful!
Carr+Flight : KL/1790
Dep.YMD : /dep/
2016/09/28
Arrival :
28.9.2016, 08:30:00
Delay Min. : 26
Delay Cat. : 1
C.W.P. : 46.05
Pr.Mult. : 15.00 07:43



Message



Message



Message



Founders



Christoph Mussenbrock – Former CEO of parcIT GmbH, providing risk management solutions for cooperative banks, many years of work experience in banking and insurance in Germany.

Christoph has a master's degree in mathematics and wrote his thesis on formal software and hardware verification.

<https://www.linkedin.com/in/christoph-mussenbrock>



Stephan Karpischek – Managing director at disrupt consulting, a digital strategy consulting cooperative. Former business analyst for blockchain innovation at UBS, many years of work experience in IT, consulting and education in Austria, Switzerland and UK.

Stephan has a PhD in Information Management from ETH Zurich and wrote his thesis on mobile applications for the Internet of Things.

<https://www.linkedin.com/in/karpischek>

Media and references 1/2

- **Etherisc whitepaper** <https://www.etherisc.com/whitepaper>
- **Lessons learned** from our Flight Delay Dapp:
<https://medium.com/the-future-requires-more/flight-delay-dapp-lessons-learned-a59e4e39a8d1>
- **Flight delay demo**: <https://www.youtube.com/watch?v=ED1-HaWEnRs>
- Flight delay on **cryptocoinsnews**:
<https://www.cryptocoinsnews.com/blockchain-disrupt-air-travel-insurance-flightdelay/>
- Q&A with **coinfund**: <https://www.youtube.com/watch?v=baRg0iCPrK8>

Media and references 2/2

- **Blockchain startup contest 2016** winning pitch:
<https://www.youtube.com/watch?v=SXCuaNH-zd4>
- **Blockchain startup contest 2016** winners announcement:
<https://www.ethnews.com/winners-of-the-blockchain-startup-contest-announced-etherisc-and-status>
- **hack.ether.camp** winners announcement:
<http://blog.ether.camp/post/155070408688/and-the-winner-is>
- **AIA accelerator** startups:
<http://aia-accelerator.com/startups.html>
- **UAE Govhack** social insurance demo video:
<https://www.youtube.com/watch?v=pMiqYmLEj00>



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