BUGMARK

A Blockchain Market for Software Issues

September 21, 2017

AGENDA

- Introducing BugMark
- Demo
- Our Blockchain Methodology

BUGMARK TEAM

- Don Marti: the Visionary
- Rich Bodo: the Evangalist
- Malvika Rao: the Economist
- Andy Leak: the Rails Dev
- Zvi Boshernitzan: the Solidity Dev

Plus: our **design team** and emerging **community**

OUR HISTORY

- 20 years of open-source
- July: research starts
- Aug: first prototype
- Sep: first presentation
- Oct: first show
- Nov: public launch

OUR PRODUCT

BugMark is a Blockchain Market for Software Issues

OUR VALUE

BugMark provides price signals that direct resources to areas of greatest value.

No other method is more effective or efficient.

BUGMARK TRADES FUTURES CONTRACTS

Reward Contracts for fixes

Forecast Contract for information

EXAMPLE: DOCUMENTATION FIXES

Workflow and Diagram TBD

EXAMPLE: PKI VULNERABILITY

Workflow and Diagram TBD

OPENSOURCE PROBLEMS

- Developer Burnout
- Abandonware
- Security Holes

Users, Developers/Managers, Security Staff

FOR USERS

to communicate needs and priorities

FOR DEVELOPERS AND MANAGERS

to identify highest-value fixes

FOR SECURITY PROFESSIONALS

to get advanced warning of vulnerabilities

A NEW APPROACH

Unlike **bug bounty systems** : tradable contracts at market price

Unlike **kickstarter campaigns** : fine-grained contracts attached to GitHub issues

Unlike **social signals** : a positive outlet for priorities and develoer support

THE BUGMARK ECOSYSTEM

A core market that supports many domains

HOW IT WORKS

- Pull issues from trackers
- GitHub first, others later
- Trade execution on blockchain

ANATOMY OF A TRADE

- asdf
- qwer

WHY BLOCKCHAIN?

- a neutral trusted platform
- transact in real currency
- extensible

A NEW ECONOMIC MODEL

Theory of the Firm

- Command and Control
- Markets
- Open Source
- **>> Peer Production with Price Signals <<**

A BETTER ECOSYSTEM

- outlet for users
- compensation for
- open-source health metrics

OUR INTENTION

- world's best issues futures market
- a stable company to maintain the core
- a large supportive ecosystem

WE NEED YOUR HELP!

- funding
- contributors
- development partners
- leadership roles

PART 2

OUR BLOCKCHAIN METHODOLOGY

BACKGROUND

- Blockchain is new and hard
- The developer community is small
- We want to build a developer community
- We have an opinion on best practice

INCREMENTALISM

- Leverage existing skills
- Prototype with tools you already know
- Extend into the blockchain world bit by bit

EVENT SOURCING / CQRS

- Use traditional tools - with one tweak
- All database writes are done with **commands**
- Commands emit events
- Events are the **source of truth**

DIAGRAM

TBD

WAT??

Out of time :-)