MEMORANDUM

To: Crypto Task Force Meeting Log
From: Crypto Task Force Staff
Re: Meeting with Representatives of Syracuse University, SIMBA Chain, and Alfred Lee
               Loomis Innovation Council

On May 30, 2025, Crypto Task Force Staff met with representatives from Syracuse University, SIMBA Chain, and Alfred Lee Loomis Innovation Council.

The topic discussed was approaches to addressing issues related to regulation of crypto assets. Syracuse University, SIMBA Chain, and Alfred Lee Loomis Innovation Council representatives provided the attached documents, which were discussed during the meeting.

Securities and Exchange Commission Crypto Task Force Proposed Meeting Agenda for Meeting with:

Prof. Lee W. McKnight and IST 408/608 Blockchain Management Students

I. Introduction

    a. Why should the SEC consider student perspectives?

II. Background on IST 408/608 Blockchain Management

III. Demonstrating Investor Protection Automation for SEC Crypto Task Force Awareness and Information

    a. RugPullShield

    b. Vovere (shareholder governance automation)

    c. Lerna (automating trust in used car markets)

    d. Forge Coin (enabling digital twins of Challenge Coins for armed forces morale and camaraderie purposes)

IV. Open Discussion

Suggested Meeting Time/Date:

Friday May 2, 2025,
between 9-9:30am; or in any half hour block thereafter until 4:30 – 5:00 pm ET.

Syracuse University can provide a Zoom link if helpful.

(If meeting should be in person, Prof. McKnight can meet in Washington DC the following week May 5-7.)

SEC Crypto Task Force – Syracuse University 5.30 1pm Meeting Attendees Submitted 5.2.2025

Proposed Attendees:

Lee W. McKnight   Associate Professor, School of Information Studies, Syracuse University

University Senate Agenda Committee; Senior Research Associate, Autonomous Systems Policy Institute; Affiliate, Institute for Security Policy and Law; Dynamic Sustainability Laboratory; and Smart Cities and Civic Technologies Center

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&

Syracuse University Blockchain Management Students:

Ethan Brown ebrown03@syr.edu

Jonah Komosoinski jjkomosi@syr.edu

Arsen Khanin akhanin@syr.edu

&

Friends/supporters/mentors of Syracuse University Blockchain research and education:

Dr. Ian Taylor, CEO, SIMBA Chain (previously U. Notre Dame) ian@simbchain.com

Dave Ackerman, Esq., Alfred Lee Loomis Innovation Council, Stimson Center dave.ackerman17@gmail.com

Syracuse University
School of Information Studies

STIMSON

SIMBA

Distinguishing Jokers from Thieves

Recommendations for the SEC Crypto Task Force

on Digital Asset Policy, Regulation, and Innovation

May 30, 2025
Prof. Lee W. McKnight, Ethan Brown, Kai Tun Hsu, Eda Imer, Jack Kester, Arsen Khanin, Jonah Komosinski, with Dave Ackerman, Esq., Stimson Center, Dr. Ian Taylor and Jaser Akuly, SIMBA Chain
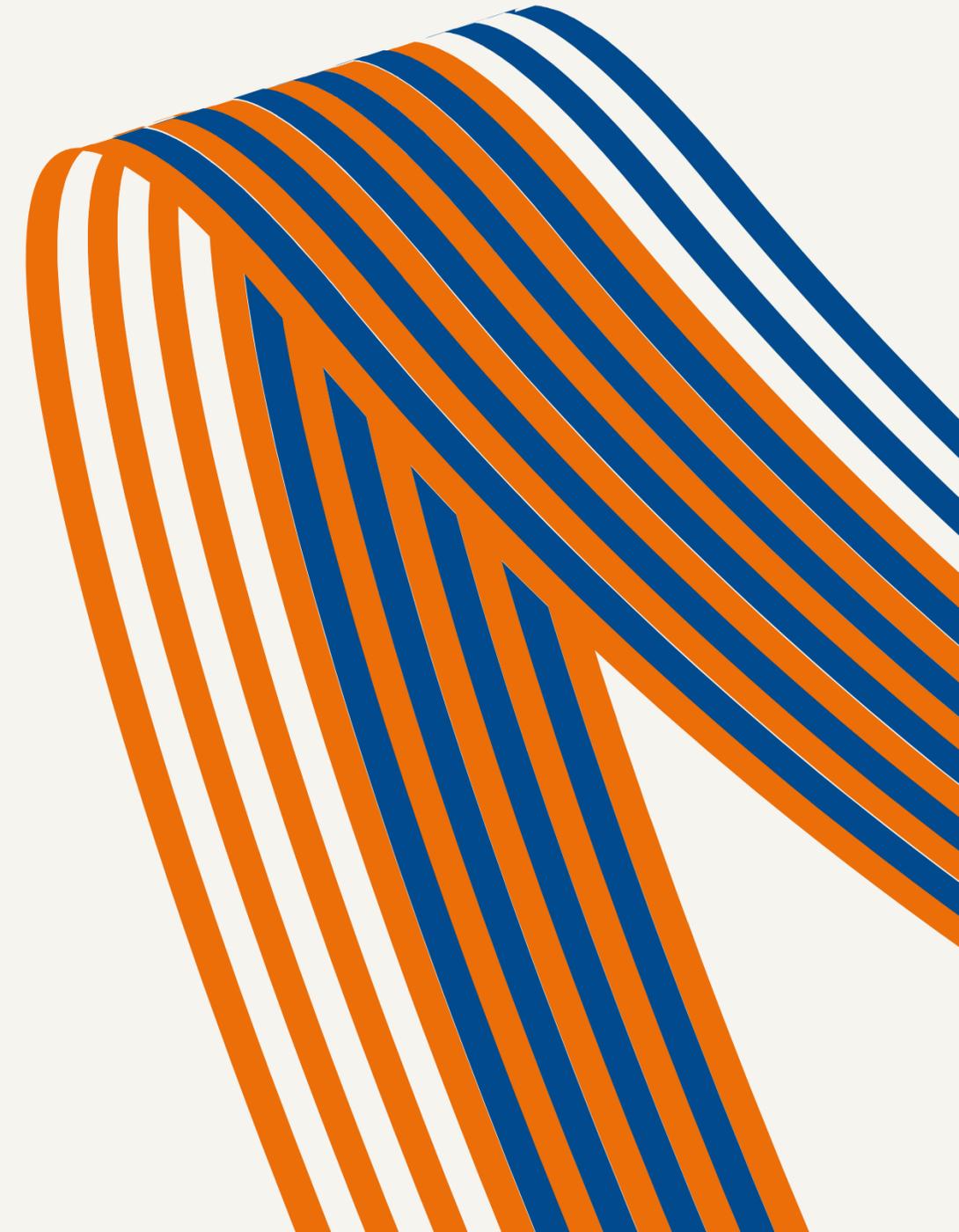
Introductions

Prof. Lee W. McKnight, Syracuse University School of Information Studies

Dave Ackerman, Esq., Stimson Center Loomis Innovation Council

Dr. Ian Taylor and Jaser Akuly, SIMBA Chain

WiTec (Worldwide innovation Technology and entrepreneurship club) Arsen Khanin, Rohan Yadav, Jedidiah Koubiessi, Dominick Miceli

IST 408/608 Blockchain Management students Jonah Komosinski, Eda Imer, Ethan Brown, Jack Kester, Kai Tun Hsu

Agenda

Views expressed are those of the presenters and may not be shared by any institution with which they are affiliated.

- Blockchain is more than Crypto: Dave Ackerman Loomis Innovation Council Anecdote
- Why simplify (automate) blockchain: SIMBA Chain/Syracuse University Research and Education Partnership
- WiTec (Worldwide innovation Technology and entrepreneurship club) & Forestry Chain Verification /Rural Markets Matter Too Arsen Khanin (Rohan Yadav, Jedidiah Koubiessi, Dominick Micelli)
- IST 408/608 Blockchain Management students Jonah Komosinski, Eda Imer, Ethan Brown, Jack Kester, Kai Tun Hsu present:
  - Rug Pull Shield
  - Vovere
  - Lerna
  - Forge Coin
- Recommendations
- Open Discussion

SU iSchool Welcomes You to Our World!
(1st, SEC Should Consider Eating its Own Dog Food :)

By Automating Reporting
Automatically pull data from a blockchain and assemble into reportable legal documents.
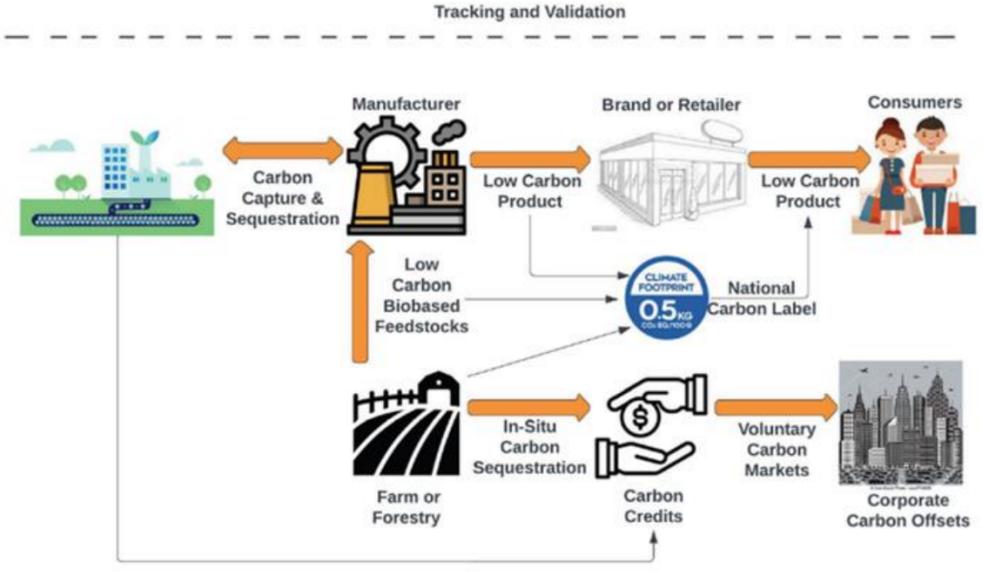
To Automate Regulatory Compliance
Blockchain streamlines monitoring, verification, and reporting processes, enhancing transparency and trust.

Syracuse University

TRANSPARENCY & TRACEABILITY
Key Drivers to Advance Markets for Producers

VALIDATION

Tracking and Validation

VERIFICATION AND VALIDATION PRACTICES ARE IMPORTANT ACROSS VALUE CHAINS IN PROVIDING REASSURANCE TO CONSUMERS AND IMPROVE CONSISTENCY WITHIN THE INDUSTRY.

A systematized process of checking, validating, and tracking data to guarantee it meets the standards and expectations of the users and stakeholders is imperative to ensuring the immutability of records, attracting market pull, safeguarding certainty, and promoting scalability.
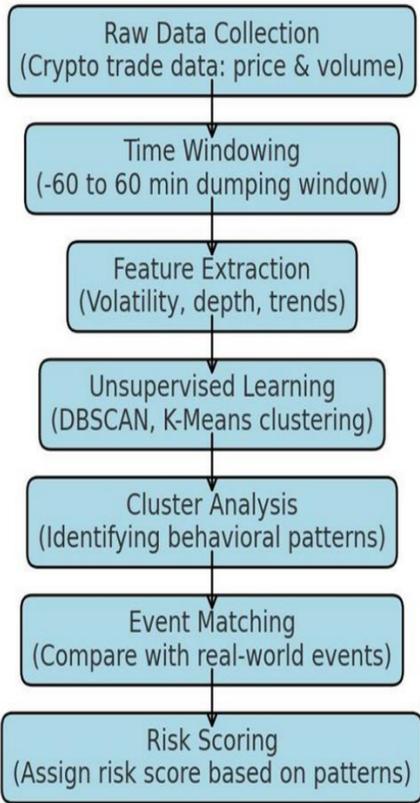
DYNAMIC SUSTAINABILITY LAB™ AT SYRACUSE UNIVERSITY
Blockchain for Supply Chains

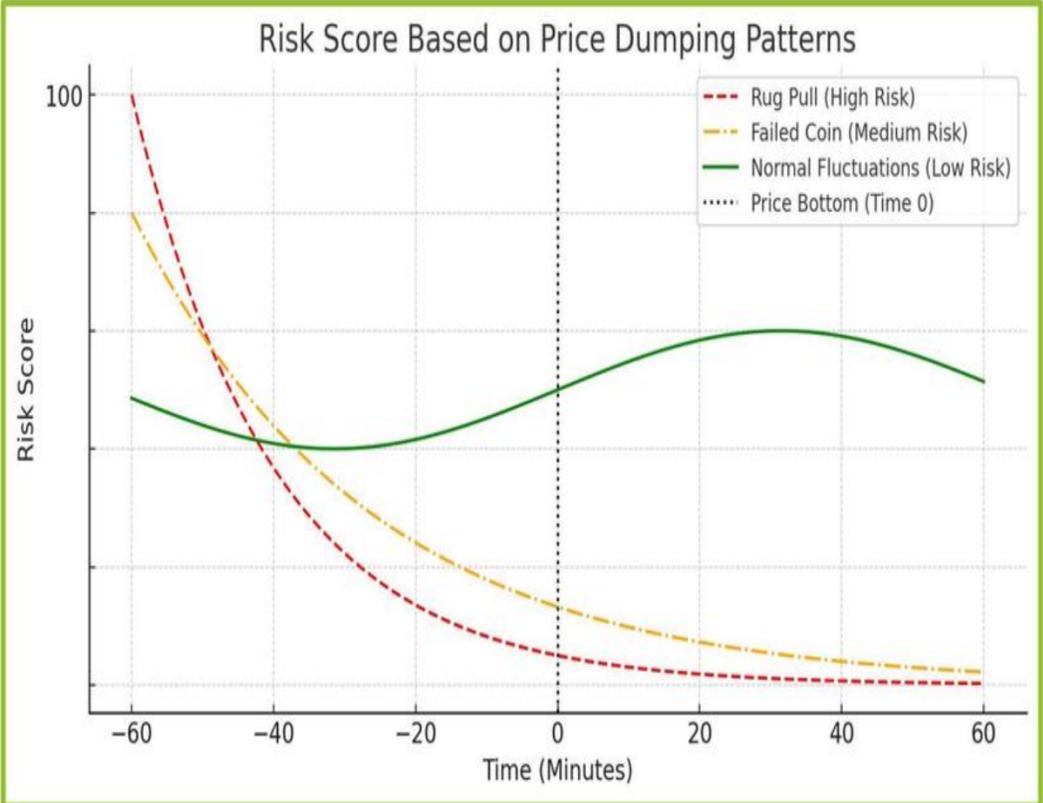| Companies	Why Blockchain?	Outcomes
THE HOME DEPOT / IBM	Home Depot needed an accurate way to track along supply chain: • Product quality/quantity • Time of arrival • Transaction dispute causes	• Improved vendor relation • Less disputes, quicker conflict resolution • Quicker payment times
U.S. AIR FORCE / SIMBA	U.S. Air Force needed to track parts with assured security and accuracy for: • Microelectronics supply chain provenance • Counterfeit parts/code identification • Identification of Critical Sub-Tier Suppliers	• Smart contracts automat access and change management • Reduced non-conforman tracking by 99%, from 2000 to 20 labor hours.
LVMH MOËT HENNESSY . LOUIS VUITTON / CONSENSYS Quorum	LVMH (Louis Vuitton) needed unique product digital identities to: • authenticate luxury goods • combat counterfeiting • enhance consumer trust	• LVMH co-founds Aura Blockchain Consortium w other leading luxury bran (Christian Dior, Cartier, Prada)

Blockchain for Agricultural Commodity Tracing Use Cases

Companies	Why Blockchain?
Walmart / IBM	**IBM Food Trust** enables organizations to view and take action on your supply chain data, such as products, facilities, events, and transactions. Integrated supply chain data, data that is shared by two or more organizations, is traceable by those organizations when they upload data referencing a shared product instance.
SEAFOODCHAIN powered by UNISOT	**SeafoodChain Asset Traceability Platform** complies with the EU Sustainable Product Regulation including the 'EU **Digital Product Passport**' requirements
FSC	**FSC Trace** (formerly FSC Blockchain) is an with a secure record of transactions and sourcing data designed to ensure seamless compliance and verification of materials at every stage of supply chains.

Rug Pull Shield: AI/Machine Learning Automates Risk Scoring

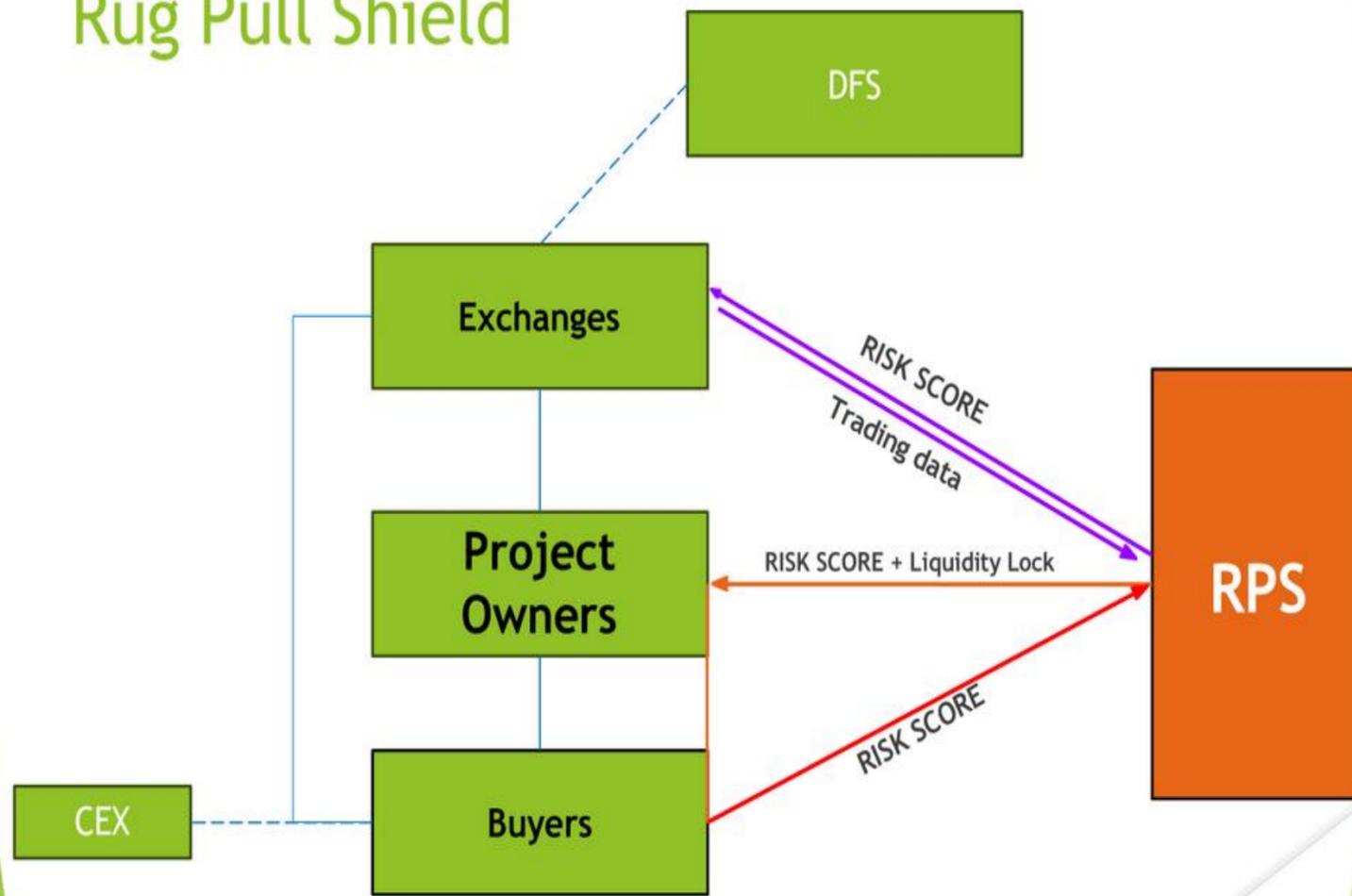Machine Learning Process for Crypto Risk Classification

- Raw Data Collection (Crypto trade data: price & volume)
- Time Windowing (-60 to 60 min dumping window)
- Feature Extraction (Volatility, depth, trends)
- Unsupervised Learning (DBSCAN, K-Means clustering)
- Cluster Analysis (Identifying behavioral patterns)
- Event Matching (Compare with real-world events)
- Risk Scoring (Assign risk score based on patterns)

Risk Scoring

Risk Score Based on Price Dumping Patterns

- Rug Pull (High Risk)
- Failed Coin (Medium Risk)
- Normal Fluctuations (Low Risk)
- Price Bottom (Time 0)

MEME COIN DASHBOARD

Coin		Price (USD)	24h Volume	Liquidity Locked	Risk Score
🐶	MemeDoge	$0.024	$4.2M	0xAb..12F4	95
🦊	ShibaZilla	$0.000015	No	0x9C...E33A	78
😊	PikaCoin	$2.14	Yes	0x4F...B2C9	45
🐱	CatLaugh	$0,87	No	0xD1...F7A8	65
		$2,7M	No	0xD1...F7A8	Trade

Off-Chain AI Scoring via Oracle
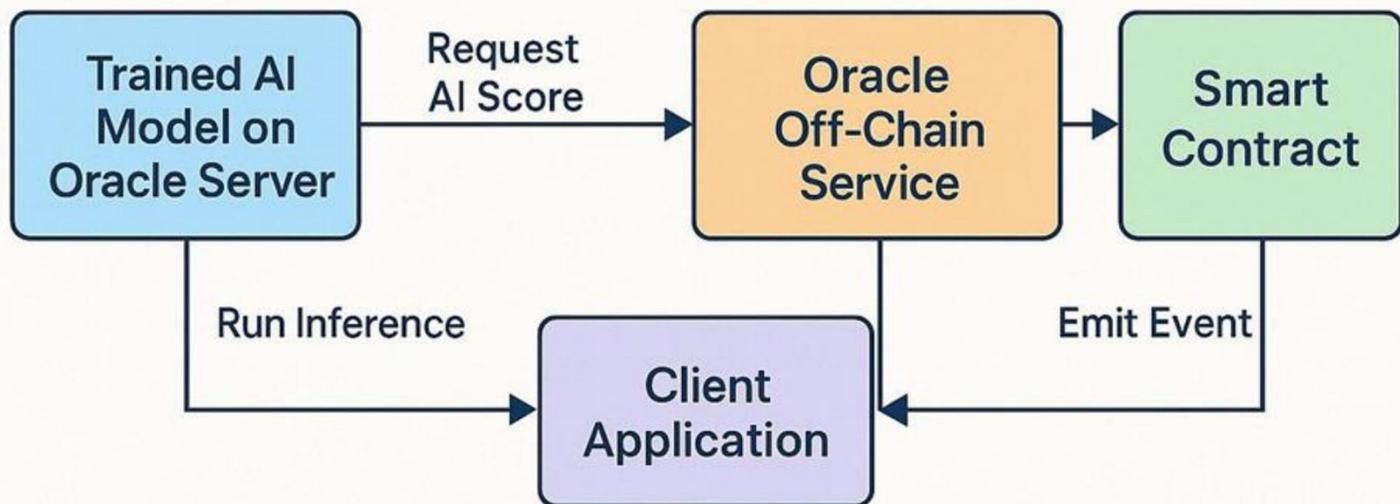
- Trained AI model is securely hosted on Oracle Cloud.
- Smart contract invokes an Oracle off-chain call to fetch the risk-score.
- Oracle service performs inference and returns the AI score on-chain.
- Smart contract emits an event with the score, which the client application listens for
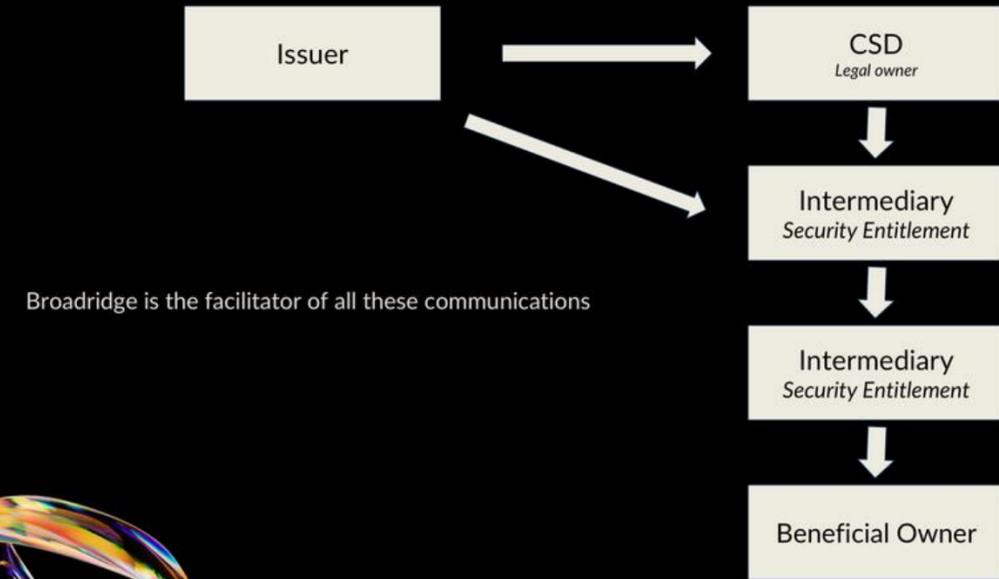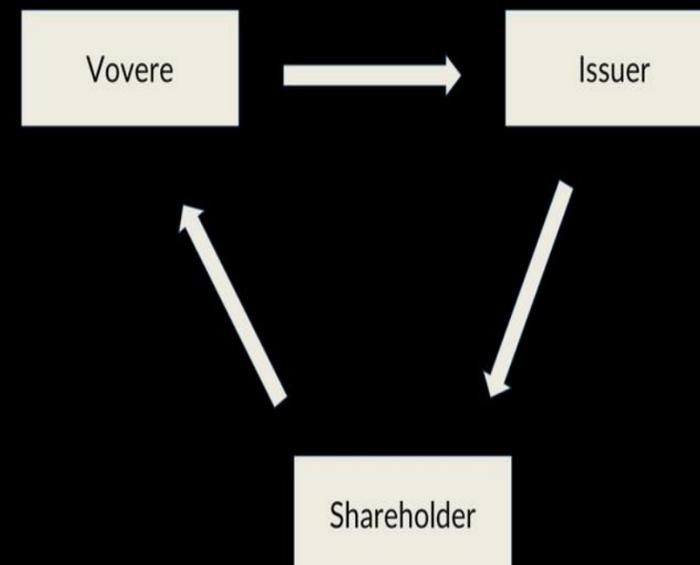
Rug Pull Shield

Vovere

Decentralized. Transparent. Secure.

The Current US 'Security Entitlement Model'

Issuer	→ CSD *Legal owner*

Broadridge is the facilitator of all these communications

CSD *Legal owner* → Intermediary *Security Entitlement* → Intermediary *Security Entitlement* → Beneficial Owner
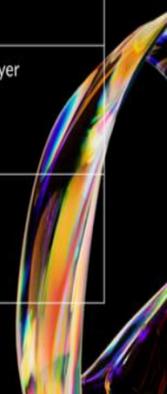
Addressing Over, Empty, and Faulty Voting Processes

Issuing a DID/utility token as a symbol of ownership for every share will help companies keep track of who true owners of shares are and if the have true economic interest in the company.

Improving Voter Participation

Roughly 70% of retail owned shared go unvoted and 88% of all votes come from institutions. Blockchain can drive voter participation through on-chain rewards, fostering democratic decision making during AGMs.

Analytics and Automation

An integrated API platform that focuses on giving retail investors information like projected outcomes of votes, what proxies votes can be delegated to, etc. Additionally, smart contracts can automate weighted votes, dividend adjustments, and pre-reconciliation vote distribution

Vovere Operational Model

Vovere → Issuer → Shareholder → Vovere

Category	Broadridge	Vovere
Retail Access	ProxyVote, Mail	Direct in-broker UI or embedded widget
Ownership Proof	Broker-side recordkeeping	Share attestation via API or signature
Voting Execution	Off-chain tabulation	On-chain smart contracts (auditable)
Middleware	Centralized proprietary	Modular oracle + compliance layer
Turnaround Time	Days or weeks	Real-time

Lema

Carlton Hsu, Jack Kester

Apr 17, 2025
IST 408
Lee W McKnight

THE PROBLEM: LACK OF TRANSPARENCY IN THE USED CAR MARKET

Hidden Vehicle History in the Used Car Market

- Buyers rely on centralized reports like Carfax
- Reports may have missing or misleading information
- Vehicles could have hidden accidents, fraud, or undisclosed issues
- Leads to lack of trust and potential financial losses for buyers

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Smart Contracts

Car Record Includes:

- ID
- Make and Model
- Ownership history (addresses, timestamps)
  - Owner descriptions
  - Owner scores
- Accident history
- Maintenance history

Core Functions:

- Dealer adds a car to the registry.
- Car ownership is transferred.
- Dealer logs accident details.
- Dealer logs part replacement.

Security

- Only the dealer (or approved seller) can add/modify car records.
- Ownership transfer is transparent and recorded on-chain.

How Our Solution Works

Service:

- B2B service providing a blockchain version of the car history.
- Information gathered through software that tracks indicators through car and company.
  - Within car - behavior, mileage, score.
  - Company - accident, maintenance.

Smart Contracts:

- Smart contract created at each purchase of vehicle
  - Driver score, driver description, accident report, maintenance reports, etc.
- Types of Smart Contracts
  - Smart contract between us and car retailer.
  - Smart contract between car retailer and buyer.
  - Smart contract between each new buyer and dealer/company.

Product example

NFT Challenge Coin market place

- Individual Military units/higher HR entities can submit challenge coin artwork to be minted into an NFT digital twin
- Once they are minted by 3rd party minters, the NFT's are returned to us, and we then deposit the ordered number into a virtual wallet on our platform to then be distributed

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Why Forge Coin

- **Preserving military tradition in the digital age**
- **Digital ownership and verification of challenge coins**
- **Connecting veterans and service members**
- **Combining physical and digital**

FORGE COIN
VALOR-UNITY-LEGACY

Our team

Dreyson Hill

IM&T
ARMY 2LT, Aviation

Astrid Melendez

IM&T
ARMY 2LT, Adjutant General

Our Recommendations

1. Assume Jokers and Thieves
2. Assume AI and blockchain for automation and data integrity
3. Assume continuous innovation/need for continuous regulatory adaptation
4. Open the SEC's physical and virtual doors wider to the future i.e. young people/future entrepreneurs and business leaders
5. Partner with universities and adapt innovative practices of other federal agencies e.g. competitions, sandboxes, hackathons

Thank You!

We are here to support and learn from the SEC Crypto Task Force. If you have any questions on our presentation or written input, please contact us.

- Email Prof.Lee W McKnight lmcknigh@syr.edu , and he can relay queries to student teams, or contact them directly.
- If the Task Force is in need of professional help whether for elaboration on automation strategies or on national security implications, Prof. McKnight brought professionals with him; perhaps for a reason.