

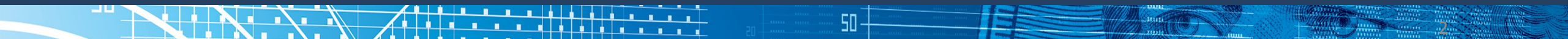


BUREAU OF THE
Fiscal Service
U.S. DEPARTMENT OF THE TREASURY

TRANSFORMING FEDERAL FINANCIAL MANAGEMENT
Reducing Reporting Burden for U.S. Federal Grants



The Bureau of the Fiscal Service provides the financial infrastructure for the federal government. The Bureau disburses payments, collects revenue and debt, provides financial reports, and finances activities by selling Treasury marketable securities and savings bonds.



Disburses Payments

In FY2019, securely disbursed **1.2 billion** payments totaling more than **\$3.7 trillion**, to more than 100 million people, with **96%** disbursed electronically.

Disburses **87%** of federal payments, include IRS tax refunds, SSA and Supplemental Security (SSI) benefits, OPM retirement benefits, Veteran's benefits, and vendor payments.

In FY2020, provided **163 million** Economic Impact Payments, worth more than **\$273 billion** to Americans as part of the Coronavirus Aid, Relief, and Economic Security (CARES) Act.



Fiscal Service's Blockchain Journey



2017 - 2018



2018 - 2019



Physical Asset Tracking

- Gave us a foundational understanding of DLT by exploring a low-risk use case.

Software License Tracking

- Expanded our understanding of what does, and does not make a good use case for blockchain

Grant Payments

- Explored how blockchain could be used to tokenize (digitally represent), transfer, and redeem a Federal payment.

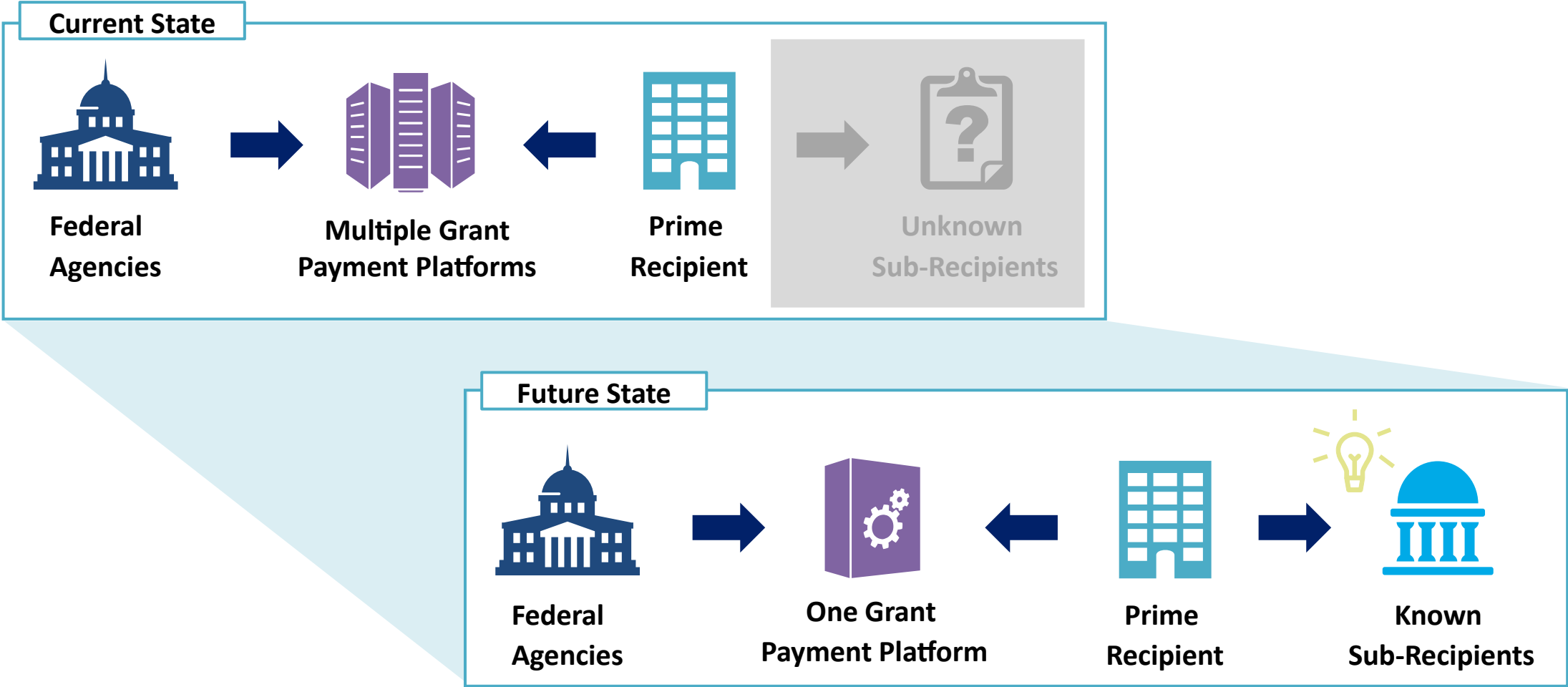
Reporting Burden Associated with Grants



Researchers spend 44% of their research time performing mandated administrative tasks*



More Payment Visibility = Less Reporting Burden



“Tokenizing” a Grant Letter

A Grant Letter becomes “tokenized” by extracting, digitizing, and storing specific data elements onto a blockchain token where those data elements are permanently stored and can be transferred

NATIONAL SCIENCE FOUNDATION

Grant Letter

Award:1354193 PI Name:Moreau, Corrie

IOS-1354193
SUMMARY PROPOSAL BUDGET

Person MOS	cal	acad	sumr	Funds granted By NSF
A. (4.00) Total Senior personnel	0.00	0.00	4.00	\$41,836
B. Other Personnel				
1. (0.00) Post Doctoral associates	0.00	0.00	0.00	\$0
2. (0.00) Other professionals	0.00	0.00	0.00	\$0
3. (4.00) Graduate students				\$30,333
4. (0.00) Secretarial-clerical				\$0
5. (4.00) Undergraduate students				\$25,101
6. (0.00) Other				\$0
Total salaries and wages (A+B)				\$97,270
C. Fringe benefits (if charged as direct cost)				\$16,065
Total salaries wages and fringes (A+B+C)				\$113,335
D. Total permanent equipment				\$0
E. Travel				
1. Domestic				\$17,800
2. Foreign				\$15,000
F. Total participant support costs				\$0
G. Other direct costs				
1. Materials and supplies				\$4,035
2. Publication costs/page charges				\$0
3. Consultant services				\$0
4. Computer (ADPE) services				\$0
5. Subcontracts				\$0
6. Other				\$0
Total other direct costs				\$4,035

**Grant Letter Information and Payment Data are Digitized
and Stored on the Token**

Blockchain Token



Grant Info



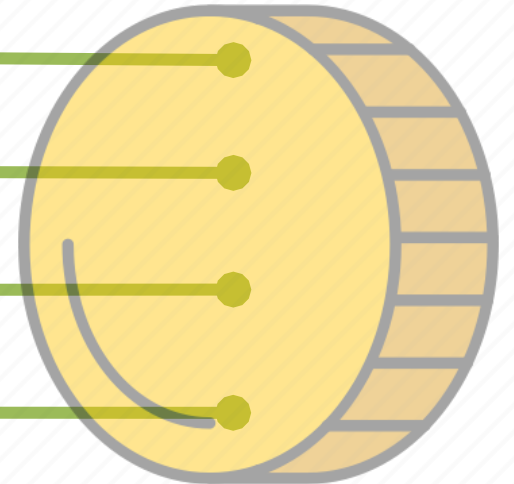
Key Dates



Awardee Information

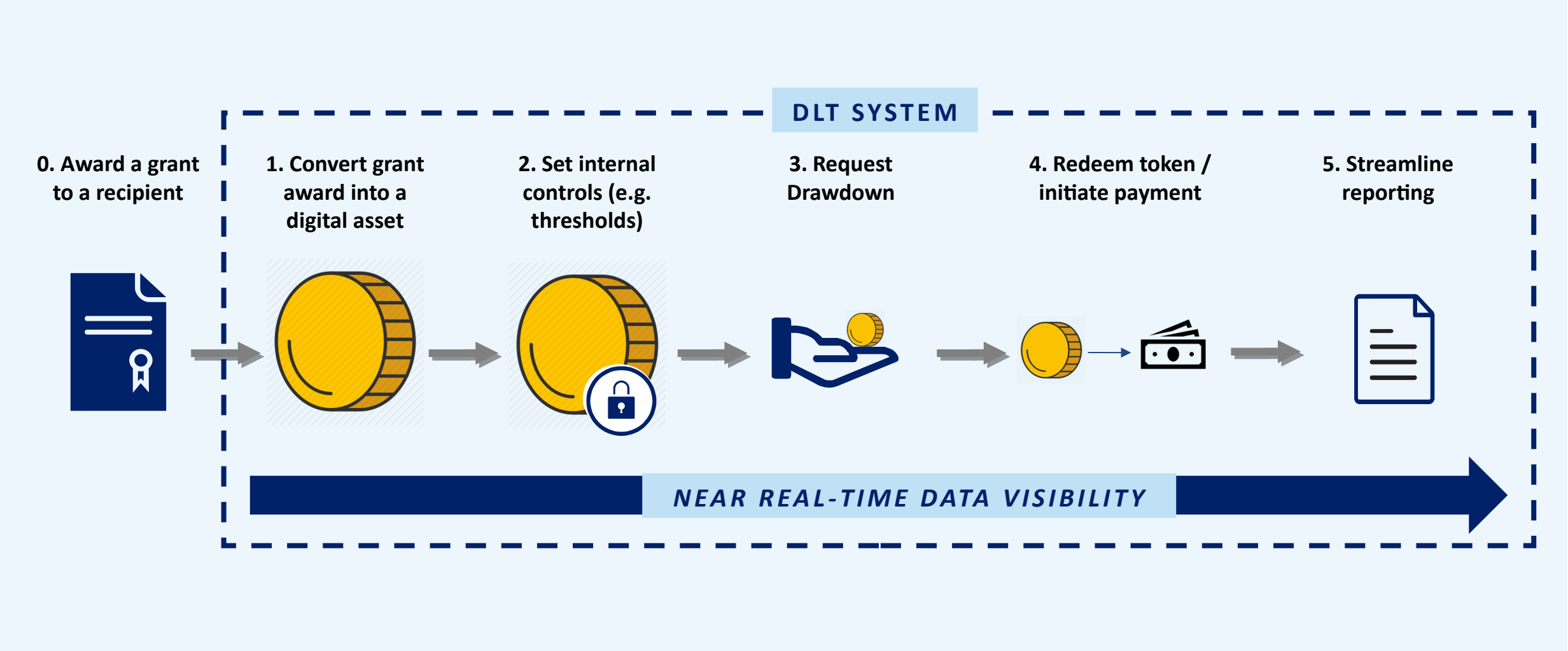


Award Amount



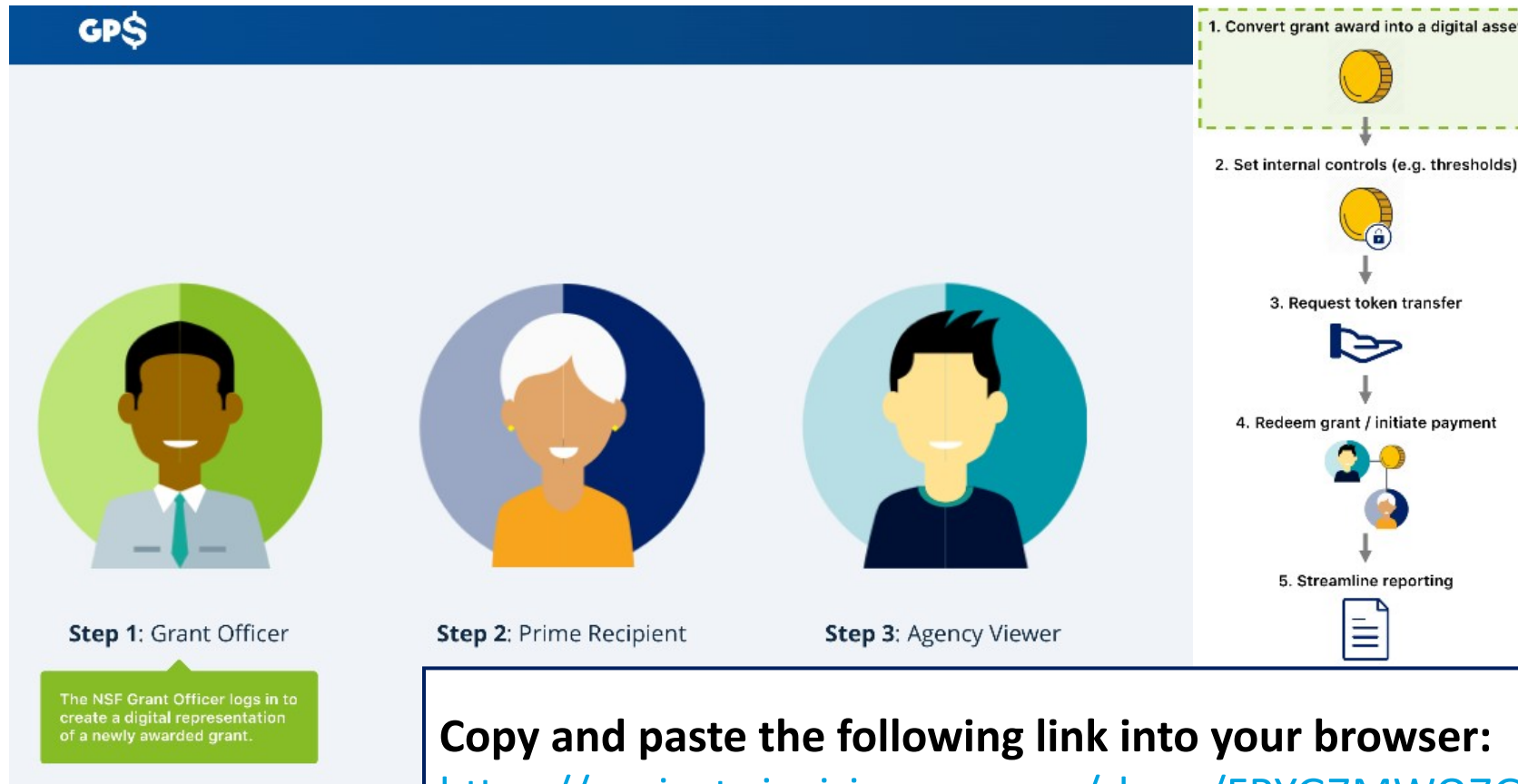
Proof of Concept Workflow

The prototype demonstrates how Federal agencies can convert a grant award into a digital representation with unique properties and business rules for the transfer and redemption of the award, all which can be stored and tracked digitally.



Blockchain-based Grant Payment “Clickable Prototype”

This clickable prototype allows us to share the process flow and concepts of the prototype with greater audiences to receive their input.



Copy and paste the following link into your browser:

<https://projects.invisionapp.com/share/FRYG7MWQ7GV>

Password: fit_gps

Project Outcomes and Findings





Outcomes

- **Validated solution with stakeholders:** Business and technical stakeholders validated the business problem the technical feasibility of the solution design.
- **Uncovered statutory and technical findings:** Subject matter experts revealed key considerations for moving beyond a Minimum Viable Product (MVP).
- **Developed clickable prototype and enhanced MVP:** Stakeholders were able to experience the MVP via a clickable prototype and four enhancements were added to the MVP based on user feedback.
- **Deployed FIT's first innovation sandbox:** The enhanced MVP was successfully deployed in FIT's sandbox environment.



Findings

- **Statutory disbursement authority:** There is no authorization enabling an Agency to directly pay a sub-grantee. 
- **DLT compliance with Federal IT standards:** DLT protocols, token standards, and digital wallets have yet to receive NIST approval. 
- **Converting a token into a payment file:** FIT and partner agencies must determine how the token will flow to an Agency financial system.
- **Accounting treatment:** Tokens are not recognized as cash making their treatment under existing guidance unclear.

Proposed Next Steps

The team identified four immediate next steps to advance FIT’s goal of using DLT to facilitate a federal grant payment.

