DONATION ON BLOCKCHAIN

Exploring New Social Systems With Blockchain Technologies

Team Members :

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Associate Professor Donghui Lin

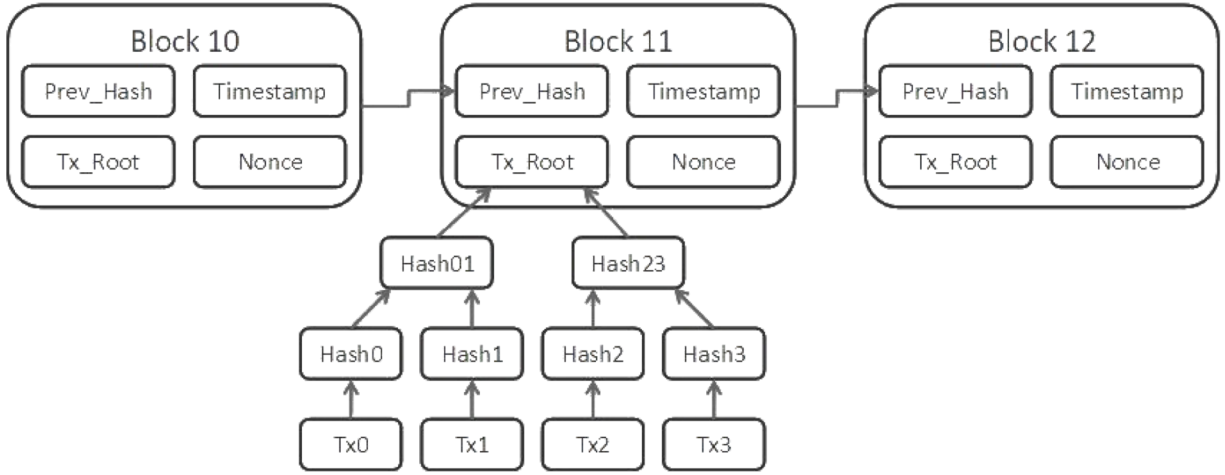
Team Members & Presentation Agenda

1. Team member intro. & agenda
2. Blockchain Background (blockchain & current applications)
3. Learning Process
4. Problem : Increasing donation transparency with blockchain
5. Existing system
6. Donner survey result
7. Result : Proposed System
8. System limitation
9. Conclusion
10. Evaluation & Suggestion to FBL/PBL

2. BLOCKCHAIN BACKGROUND

What Is Blockchain ?

- Invented 2008 by Satoshi Nakamoto, idea since 1991
  - Cryptocurrencies: e.g. Bitcoin & Ethereum
- General: a decentralized, distributed and public digital ledger (DLT)
  - By design, resistant to modification of the data
- Private & Public Blockchains
  - Companies, Cryptocurrencies

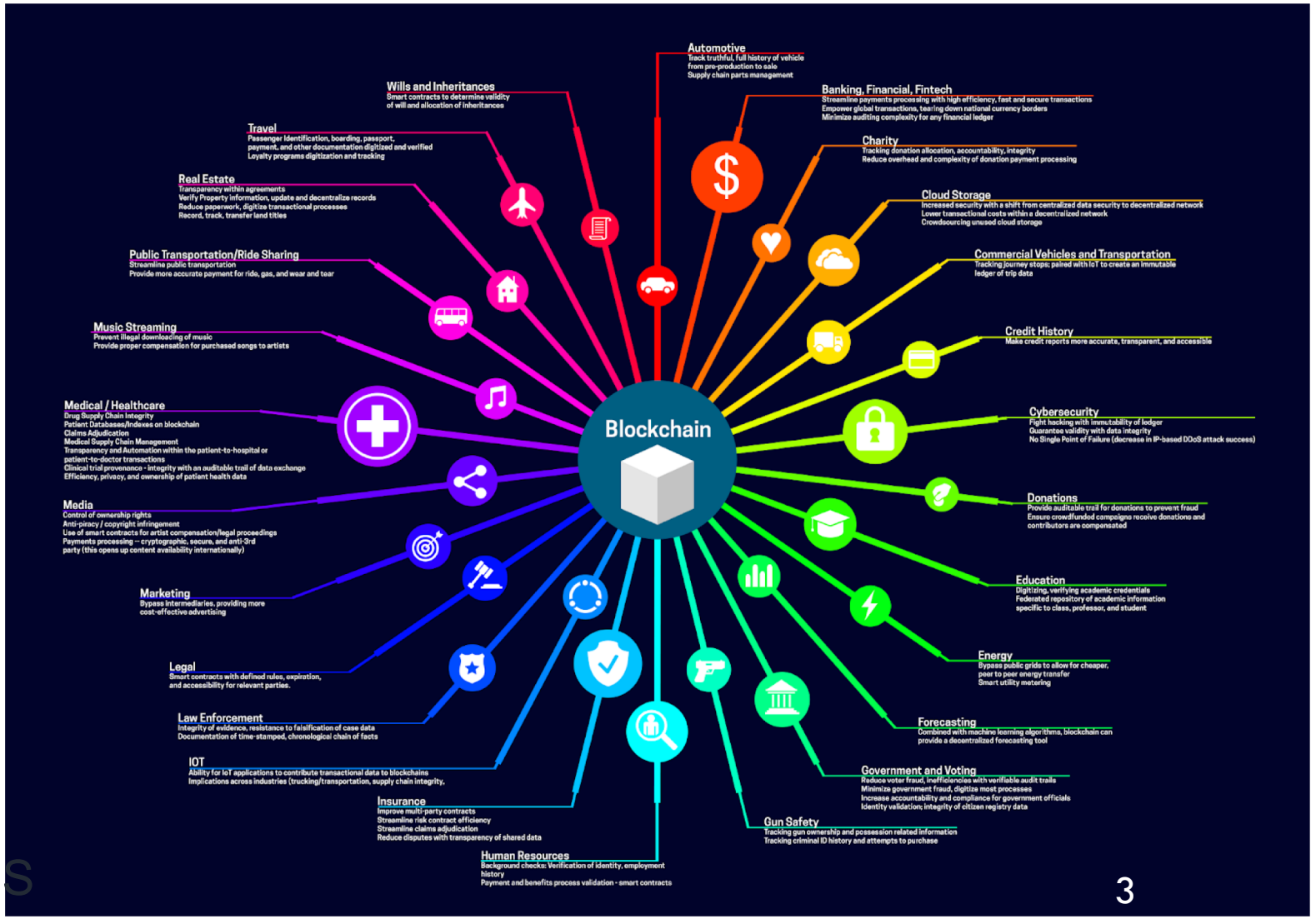


Source: https://goo.gl/zZ2Ffx

2. BLOCKCHAIN BACKGROUND

Many Application Has Been Offered … but no real usage.

- Digital currency
- Smart contracts
- eGovernment
- Travel/Transportation
- Marketing
- Education
- Donation… etc.



Source: https://goo.gl/yPKmNS

3. LEARNING PROCESS

May 18th — June 1st — June 15st — June 22nd — July 27th

Team Setup & Vote for Topic → Innovation Process design → Report survey finding & → brainstorming / ideation workshops → Result presentations

Blockchain team & Human center design process team

Topic: DONATION SYSTEM

1. Sense Intent
- Buzz reports: explore - collect
- share - discuss
- Interview : determine topic -- identify user & experts
- prepare interview - conduct interview

2. Know context
Media search

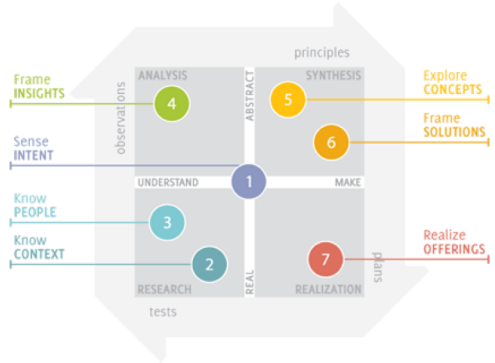
3. Know people
User interviews: 9 donners, NGOs (JOVAD) and Blockchain policy expert (June 27th)

4. Frame Insights
Bring structure to the finding
Sort, cluster organize

5. Guidelines Generation
Finding insight, Modeling system, Making profile, Mapping flows…

6. Explore Concept
Framing, Defining, Organizing, Communication

7. Frame solutions
Generating, systemizing, evaluating, communicating, organize



Source: 101 Design Method by Vijay Kumar

4. PROBLEM & 5. EXISTING SYSTEM

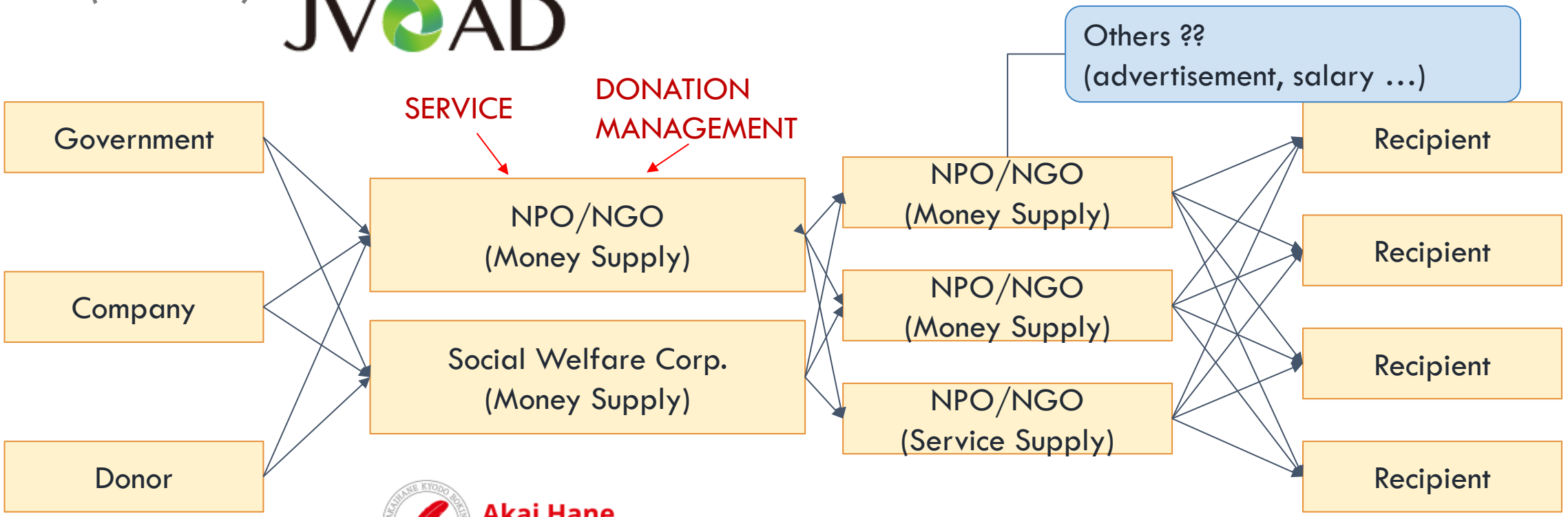
current system has complicated hierarchical structure, donors can't know how NPOs use their donation.

Visit JVIAD (June 21th)

災害支援の文化を創造する

JVOAD

unicef 公益財団法人 日本ユニセフ協会



Akai Hane
Central Community Chest of Japan

6. DONNER SURVEY RESULT (9 interviews of Kyoto U students)

Question covers

- Personal experience (**Story**)
- **Process** to do donation
- **Service of information after donation**
- How to improve their service
- What's the ideal NGO service
- Communications: email, line, twitter, real time?
- Gender, age, professional, income

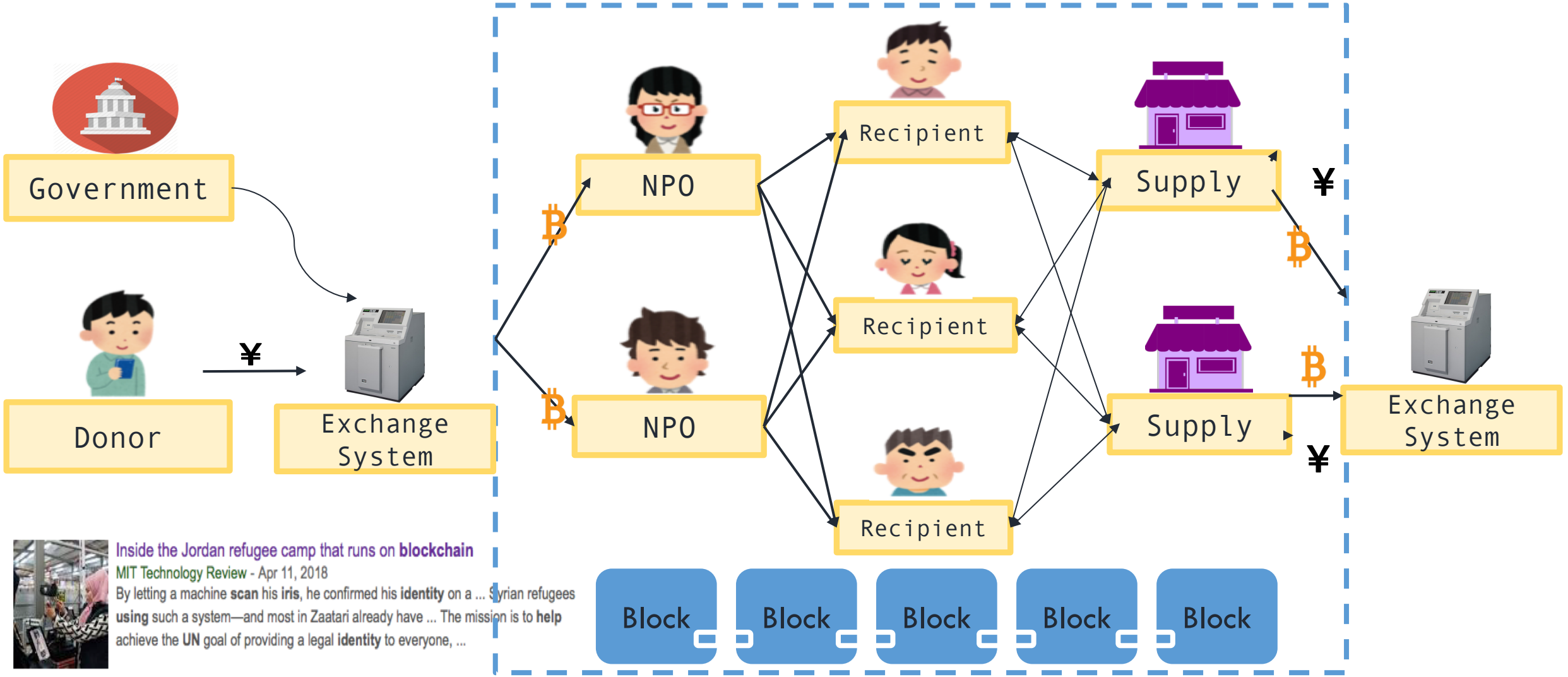
Demo System

Major findings

- Most donners **do not know blockchain** much: has to be easy to use.
- Most donners agree to have **more transparent** process and would like to receive donation money spending **information via internet.**
- Most donners donate should via convenient channel such as coin box.
- Some donners still prefer government confirm the **trustworthiness of NPOs.**
- The **presentation system** of donation might need to able to showing value, percentage or item amount due to donners different preferences.

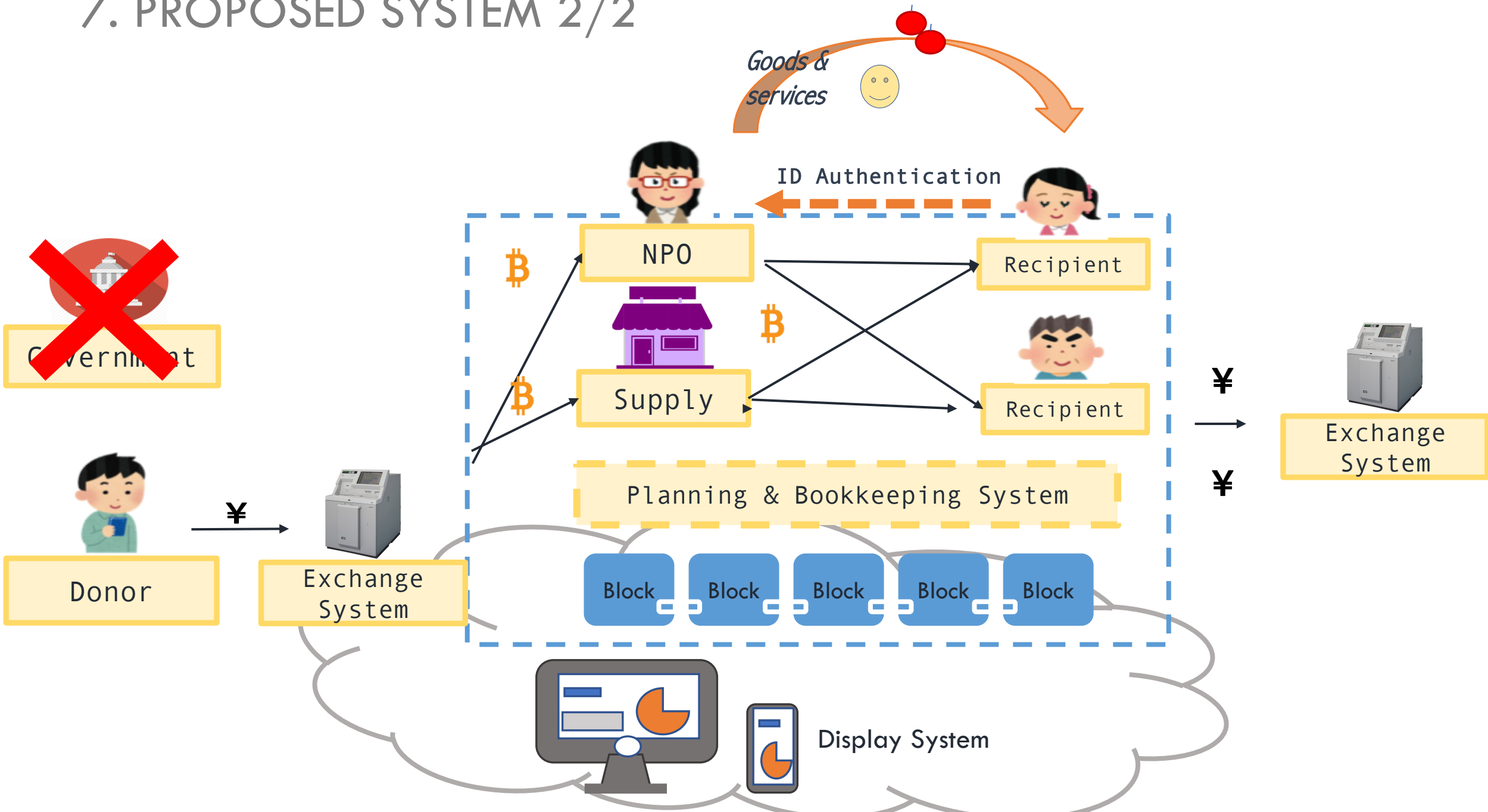
7. PROPOSED SYSTEM 1/2

Solution: Design a donation system that is no fee, stable and transparent



Inside the Jordan refugee camp that runs on **blockchain**
MIT Technology Review - Apr 11, 2018
By letting a machine **scan** his **iris**, he confirmed his **identity** on a ... Syrian refugees **using** such a system—and most in Zaatari already have ... The mission is to **help** achieve the **UN** goal of providing a legal **identity** to everyone, ...

7. PROPOSED SYSTEM 2/2



8. PROPOSED SYSTEM: LIMITATIONS

- Who decides the “People in Need” and their $$$ allowance?
- Who is the responsible point of entry between $ and CryptoCurrency?
- Technical
  - Devices for ID authentication
  - Blockchain requires Programming Capacity
  - Donation Display System (DDS) requires Programming Capacity
- Potential other expenses which are not covered

9. CONCLUSION

- Task : explore new social systems by using blockchain technologies. Donation System
- Method : use Human Center Design Process : survey & evaluate existing trails of activities, interview stake holders and iteration workshops to create the solution.
- Result : propose a donation system : No Fee, Stable and Transparent
- Discussion : report the system limitation.

10. EVALUATION & SUGGESTION TO FBL/PBL

- Prefer class with double amount of time & credits
  - Second part of semester: prototyping
  - Project not be split between two semester because there will be different students
- Learning by doing and from each other
  - very independent learning process, we learn a lot from each team member.

THANK YOU & QUESTION?