FuturICT 2.0 | Challenge 1 - Token Creator

Project *E-mine 1*Recycling Electronic Devices via Blockchain:
Part 1 – Token Creation

Team
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Code repositories:

https://github.com/ETHBiots2018/E-Minelhttps://github.com/e-minel/GenesisApp

Challenge

No lifetime tracking and lack of incentive to recycle electronic devices

Approach/Solution

"E-mine" blockchain network
Device is manufactured:
create Asset & Reward Token

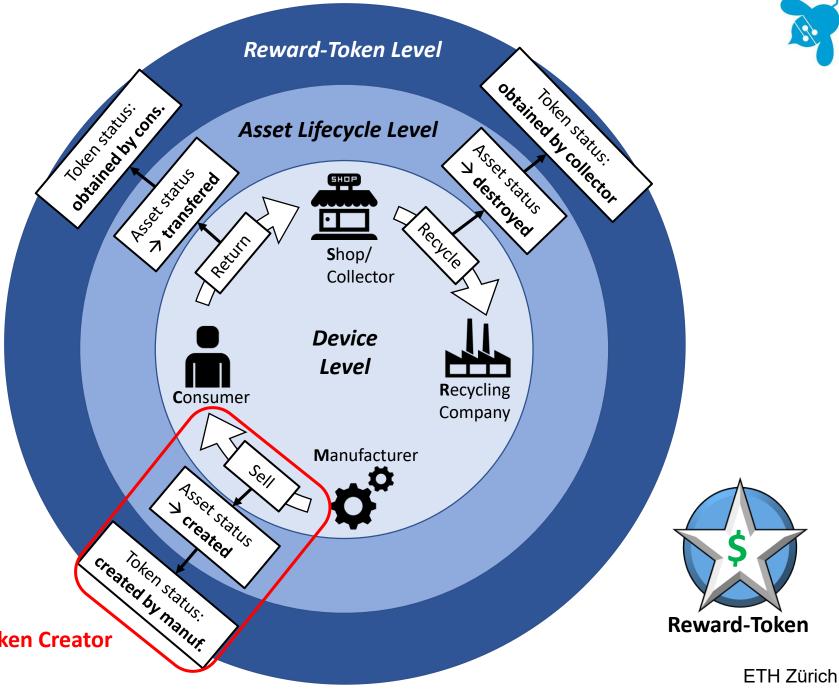
Track Asset & Token via blockchain

Consumer returns device: obtains Token

Collector sends device to Recycler: obtains Token

Manufacturer finances Tokens in exchange for recycling info

Focus of this project: Challenge 1 - Token Creator



Disruption Potential



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Outcomes

- Environmental: tracking and increased recycling of electronic waste, a step towards circular economy
- <u>Social</u>: rewards for responsible behavior

Changes to the status quo

- For society: rewards for users
- For electronics ecosystem:
 - Inclusion of collection centers and recyclers in decentralized networks
 - Creation of device lifecycle data

Open Challenges

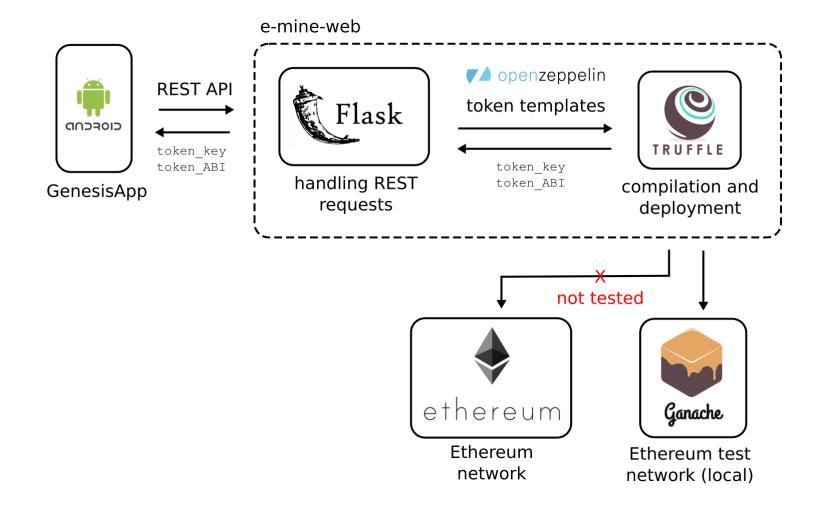
<u>Potential negative outcomes</u>: accumulation of tokens in the system <u>Unresolved question</u>:

- material link between recyclers and manufacturers still missing
- No incentive for recycling devices already in circulation

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E-mine web architecture



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Demo

Create a token, now!

https://drive.google.com/open?id=1RWHJsogQhbkXHMbemtDEYAW6qY5bxeNL

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