



Interreg
North Sea Region
BLING

European Regional Development Fund



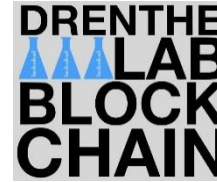
EUROPEAN UNION

EnergieKnip / Energy Wallet

Building a green local currency to improve energy efficiency in residential homes.



= Knip

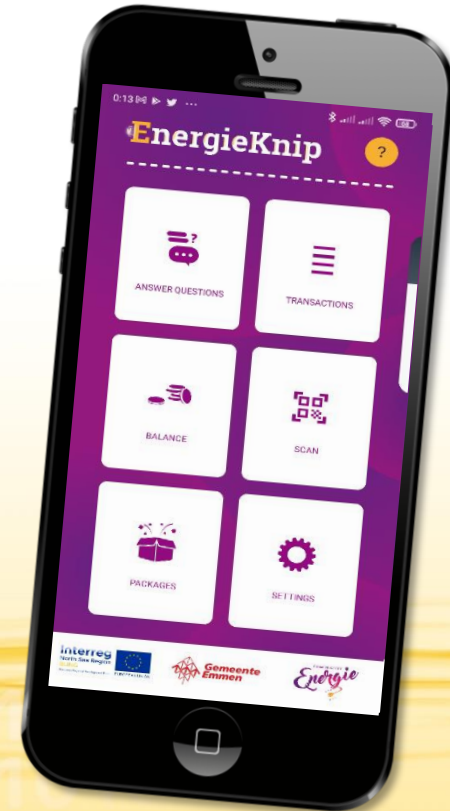


Goals:

- Distribute subsidy money
- Gain knowledge about energy saving measures in residential homes to improve future policy
- Improve energy awareness in residents
- Stimulate local economy

Priorities:

- Privacy (GDPR!)
- Easy to use
- Use energy efficient blockchain

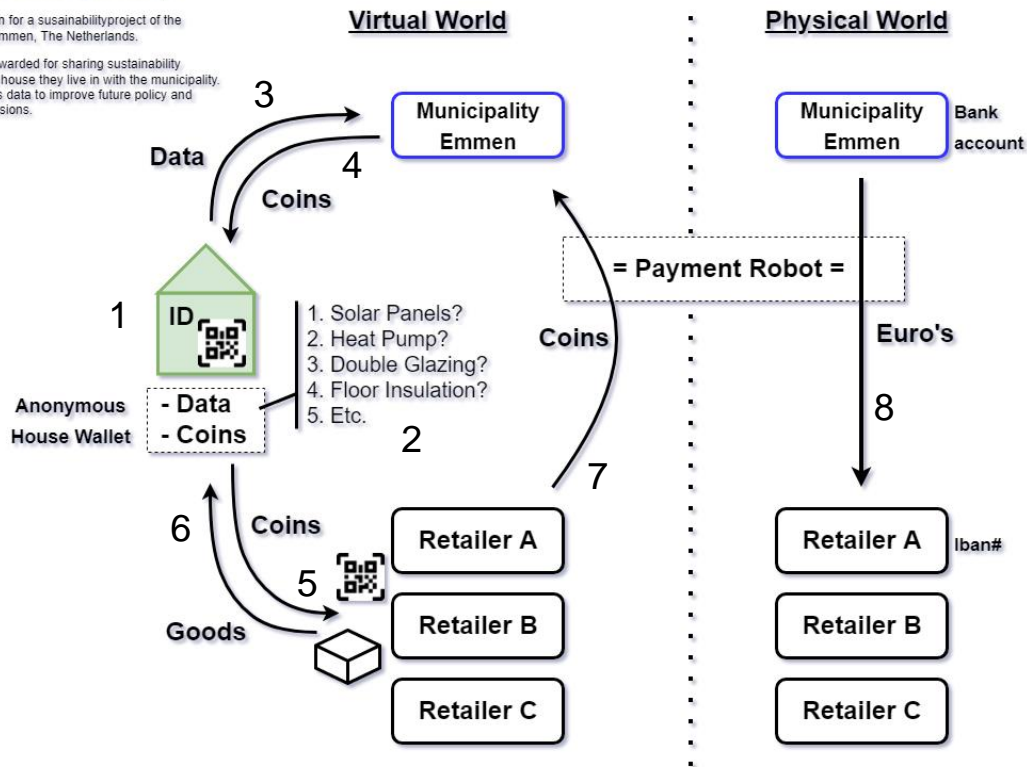


Circular Money (earmarked money)

Emmen EnergieKnip

A local cryptocurrency for a sustainability project of the municipality of Emmen, The Netherlands.

Residents get rewarded for sharing sustainability properties of the house they live in with the municipality. Emmen uses this data to improve future policy and make better decisions.



How it works:

1. House gets Qrcode
2. Resident answer questions
3. Shares data with municipality
4. Receive reward in wallet
5. Buy products at retailers
6. Pay with rewarded points
7. Retailer sends points to municipality
8. Retailer receives Euro's in bank account next day



Why we decided to use IOTA:

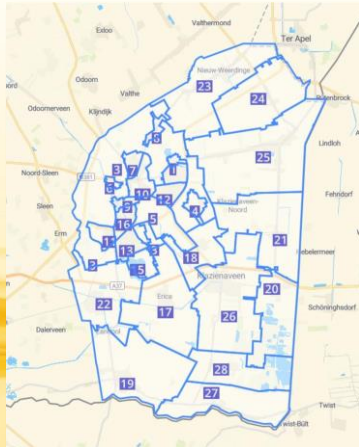
- **VERY** low energy footprint
- **Feeless**

Platform	kWh consumed for 1 transaction	Electricity cost for 1 transaction	kg CO ₂ e emitted for 1 transaction	How long it would power my house (kWh per year)	
Bitcoin	980	\$147.00	44.1	22.4	days
Ethereum	77	\$11.55	3.5	42.3	hours
MasterCard	0.0006	\$0.00009	0.00003	1.2	seconds
IOTA	0.0000016	\$0.0000002	0.00000007	3.2	milli-seconds

* EnergieKnip is stimulating residents to use less energy so using a conventional Proof-of-Work consensus protocol would use too much energy and send the wrong message.

48.575 House wallet QR-cards
were distributed house to house
(physical airdrop) in 28 neighborhoods

**Making this the largest public
governmental blockchain project
in The Netherlands**



The municipality can only look at the data fully anonymous.
Nowhere in the app is a question for name, address, etc.
Never is there a link between house and QRcode.
Data can be aggregated at the level of neighborhood.





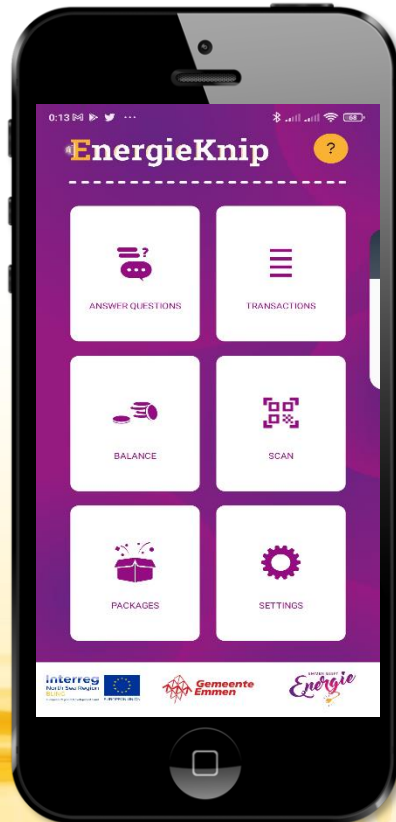
So the Municipality of Emmen decided to double the budget!

First transaction : Jan. 11th 2022

13 days later...

Budget 100% claimed : Jan. 24th 2022





Win-win-win-win-situation for:

- Residents (50€ energy saving measures, awareness)
- Municipality (subsidy distributed, valuable information)
- Local retailers (revenue, new customers)
- Environment (lots of energy saved)

Several municipalities in the “pipeline” for implementations.

Applicable for MANY other goals besides energy:
Stimulating tourism, health, public transport, etc...



IOTA and EnergieKnip drive energy efficiency in the Netherlands

IOTA UND ENERGIEKNIP TREIBEN ENERGIEEFFIZIENZ IN DEN NIEDERLANDEN VORAN

全文简介: BlockchainLab Drenthe公司为荷兰 Emmen 市提供了项目Energie Knip, 并获得了荷兰 Emmen 市的采用, Energie Knip是使用IOTA 构建本地代币, 用于匿名性的收集整个市内的能源使用情况, 市内居民匿名上传能源使用数据, 政府收到数据可以做出更好的能源调节决策, 并发放代币给到居民后, 居民可以在当地零售商处购买新的节能设备。收到代币的零售商可以与当地政府交换欧元。每一方都获得了相关的利益。

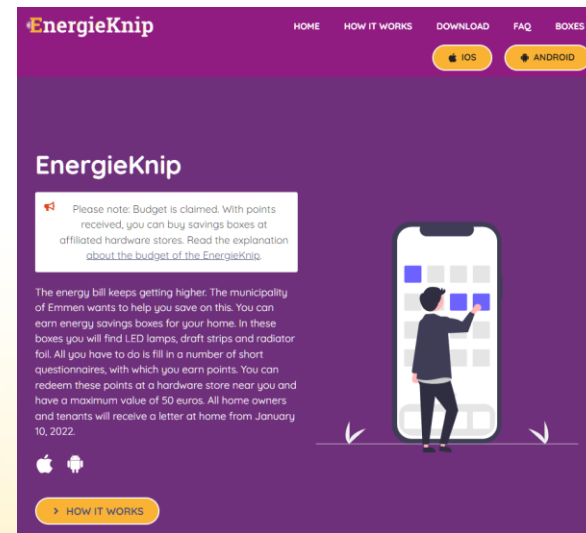
IOTA ed EnergieKnip promuovono l'efficienza energetica nei Paesi Bassi

СЛОБОДЕН ПЕЧАТ.

ИСТОРИЈА ВЕСТИ МАЏАРИН КОЏИНИ СПОРТ ЗДРОВЕ СЛОБОДНАТА ВАШИ ФИНАНСИ

ИОТА и Енергикнип ја упоредуваат
заштедата на енергија во Холандија

**IOTA et EnergieKnip renforcent l'efficacité énergétique
aux Pays-Bas | Invezz**



LOTS of international attention

<https://energieknip.nl/en/>

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