



**HIVE  
POWER**

SHARED ENERGY FOR A BRIGHTER  
FUTURE



Spin-off of the Applied Science University of Southern Switzerland



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Scientist



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COO



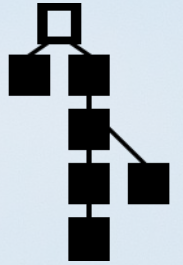
**DAVIDE  
STREPPARAVA**  
Blockchain



Researchers and engineers sharing a long-term experience  
in academic and industrial projects in smart grids



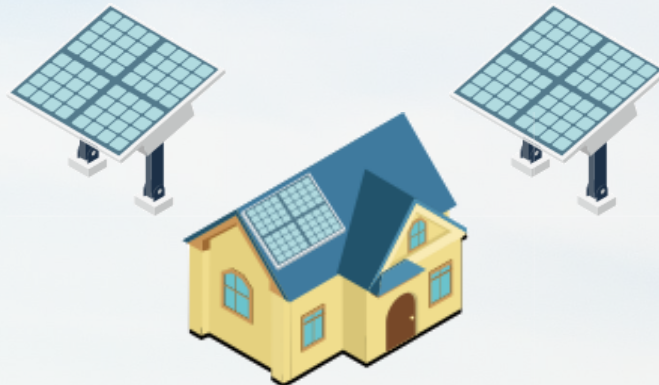
## Energy decentralization through the blockchain



From few  
big plants



to many  
small ones

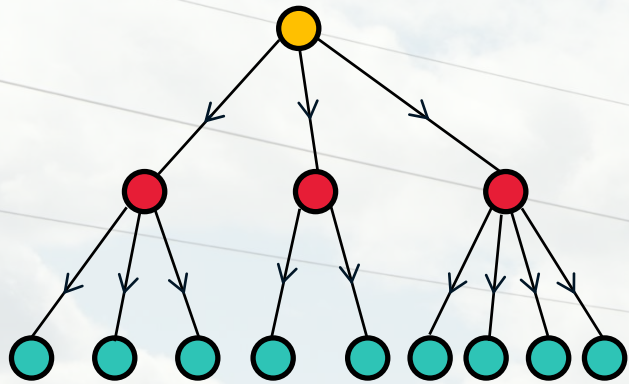


New business  
opportunities to  
exploit local  
energy markets

BUY		0.20 €/kWh
SELL		0.06 €/kWh



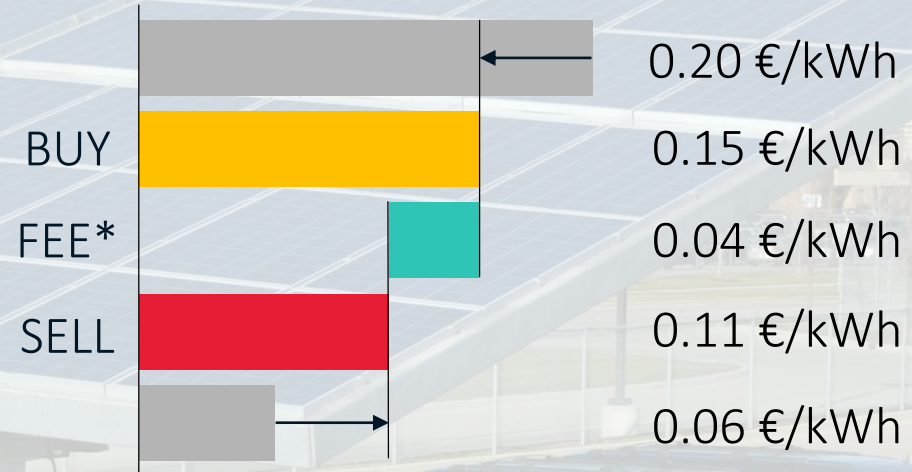
Promotes **single user** autarky



Penalization of injected solar energy



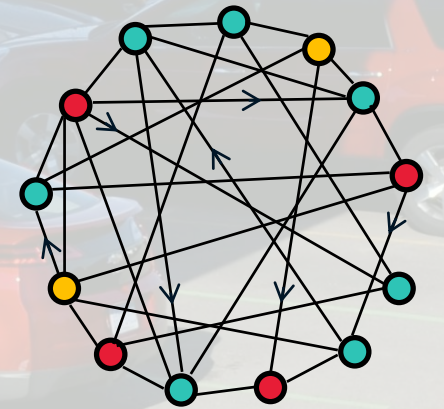
# HOW WE IMAGINE THE FUTURE



\*Compensation for the local infrastructure



A new market design that encourages **community** autarky



Promotion of distributed renewables



← STAKE →

OWNER



UTILITY TOKEN

Access to the energy  
community platform

ERC20





STAKE

OWNER



UTILITY TOKEN

Access to the energy  
community platform

ERC20



WORKERS: ETHEREUM SMART METERS



STAKE

OWNER



**UTILITY TOKEN**

Access to the energy community platform

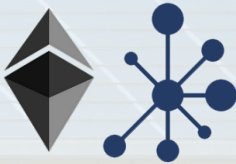
ERC20



**PAYMENT TOKEN**

Billing for the energy transactions

ERC20



**WORKERS: ETHEREUM SMART METERS**

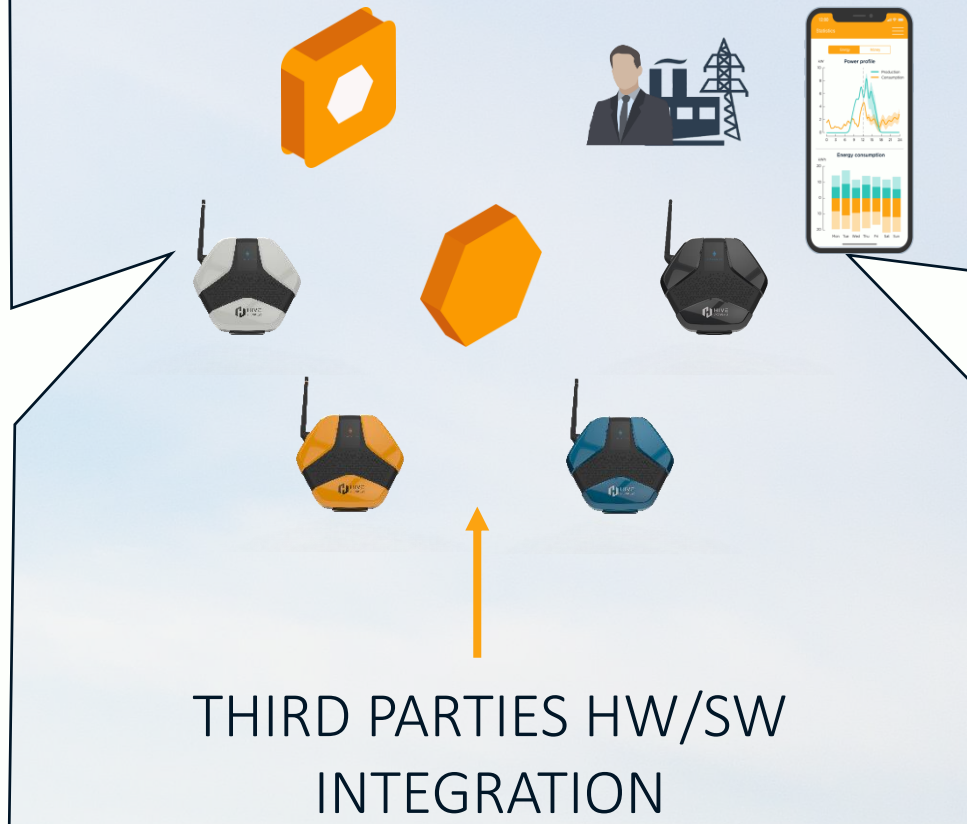




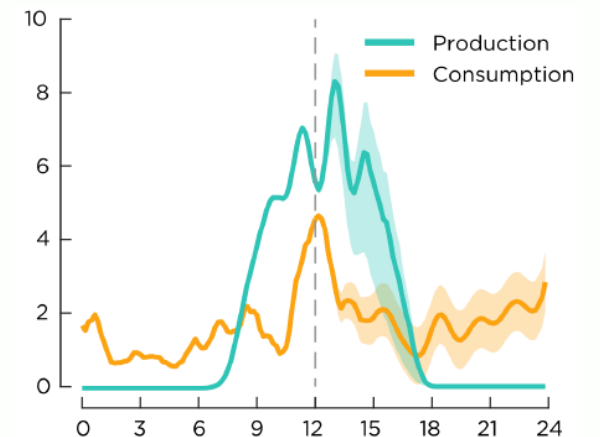
## ETHEREUM SMART METERS



## OPEN PLATFORM FOR ENERGY EXCHANGE



## AUTOMATED BILLING SYSTEM



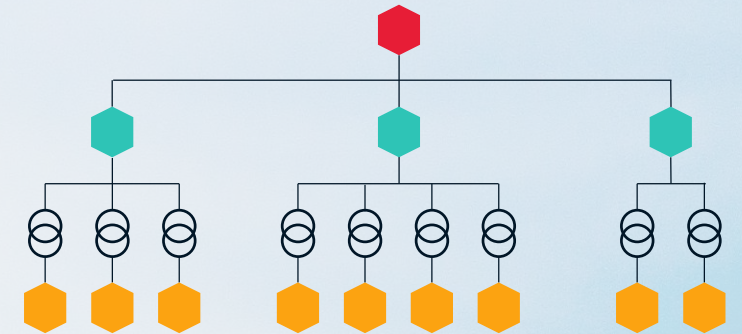


FAIRNESS and SECURITY guaranteed by the **HONEY** algorithm  
**Hierarchical Optimizer for Networked Energy Community**



## ITERATIVE DECLARATION PHASE

Higher grid levels influences the coordination of lower level through pricing signals



## EXECUTION PHASE

We apply a dynamic pricing on energy and bonus or penalties depending on the forecast accuracy





**LIQUIDITY·NETWORK**




Q2 2018 


Pilot on a Swiss self consumption community




Q1 2019 

Bigger pilot projects in Germany and Sweden



Q3 2018 

Pilot on project in a LV grid of a small city

2020 

Smart features: topology discovery, multi owners...

Period: **June 2018**

Token: **HVT**

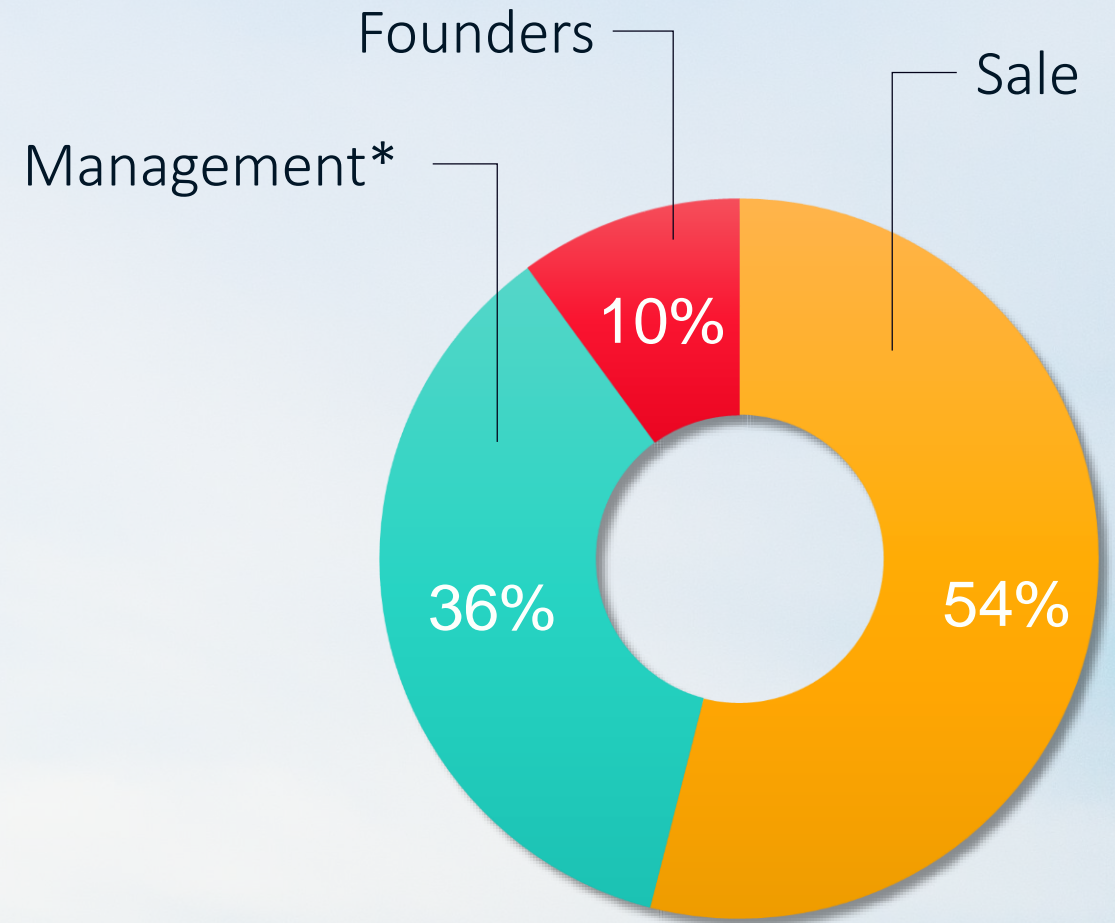
Max supply: **100 Million HVT**

Soft cap: **\$1 Million**

Hard cap: **\$11 Million**

Token exchange rate: **1HVT = 0.25USD**

Currency accepted: **ETH**



\*including bonus for airdrop, referrals and advisors

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University of Applied Sciences and Arts  
of Southern Switzerland

**SUPSI**



Azienda Elettrica di Massagno SA