



IoT World Congress Hackaton 2016

SMARTPLUG

the community plug-as-a-service



by smartplug team

Future forecast

is sharing

is solar energy & minigrids

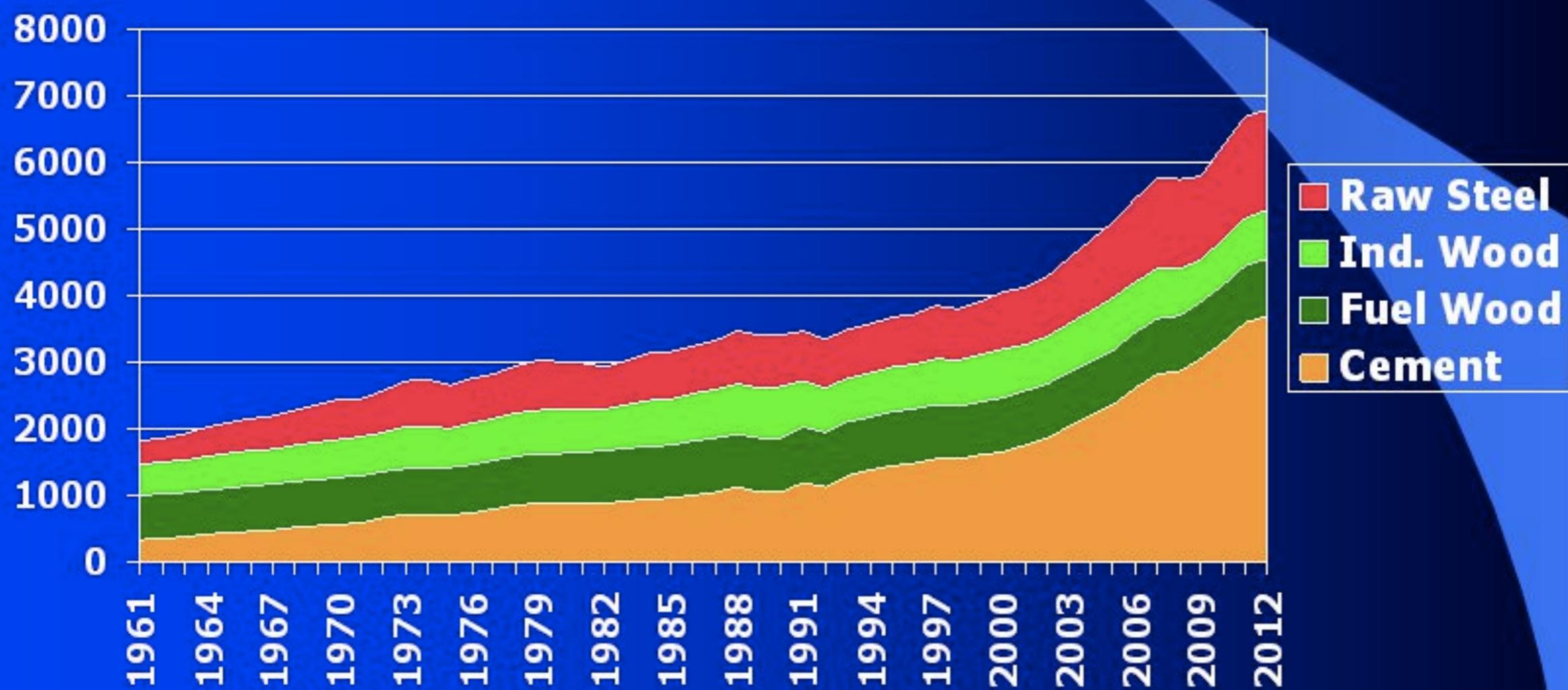
is IoT & blockchain



World Demand for Selected Raw Materials, 1961 – 2012

Materials Used in Greatest Quantity

(Million Metric Tons)



Source: U.S. Geological Survey, Commodity Summary Statistics (2013). Data for wood from UN, FAOStat Forestry (2013).

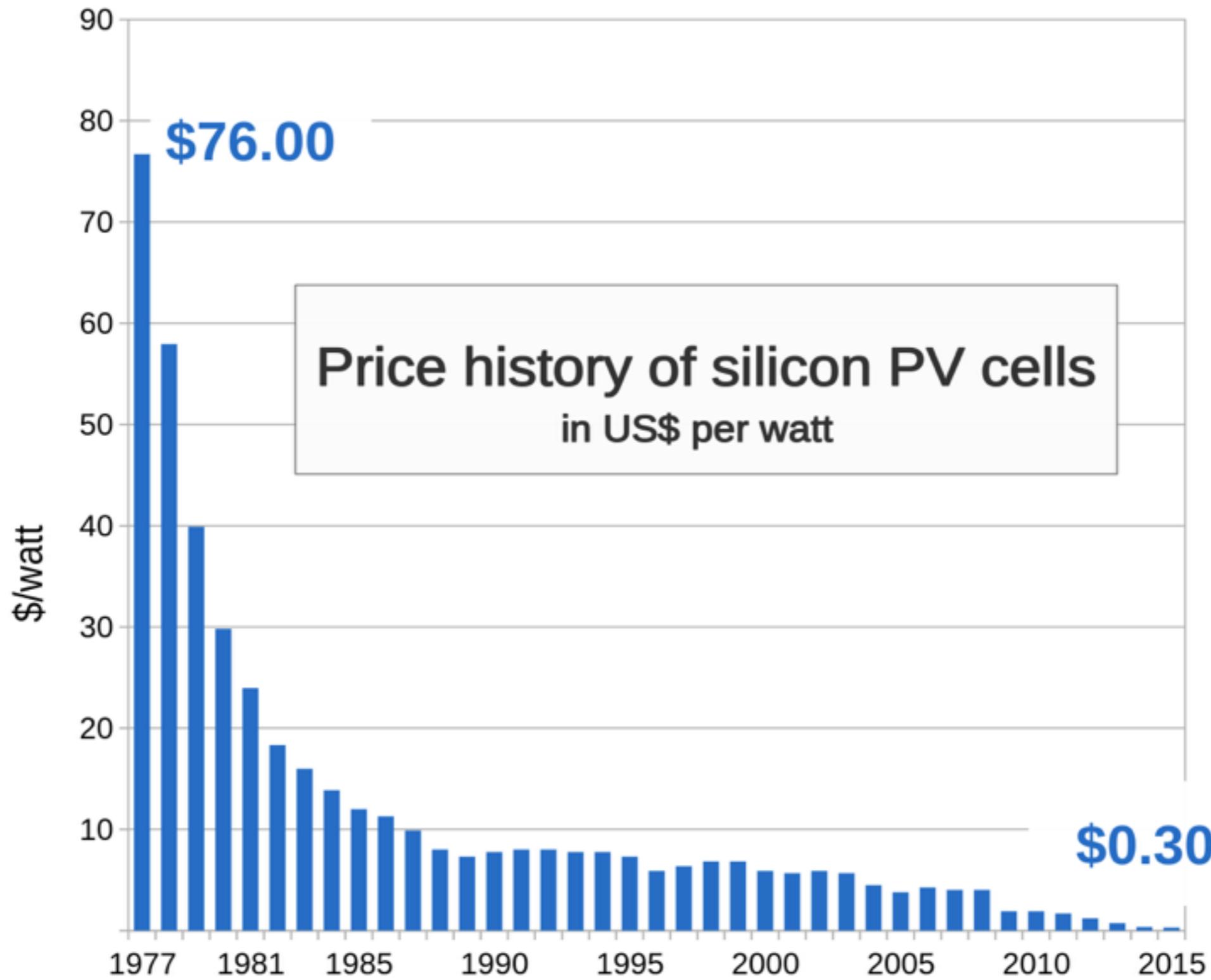


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Source: Bloomberg New Energy Finance & pv.energytrend.com





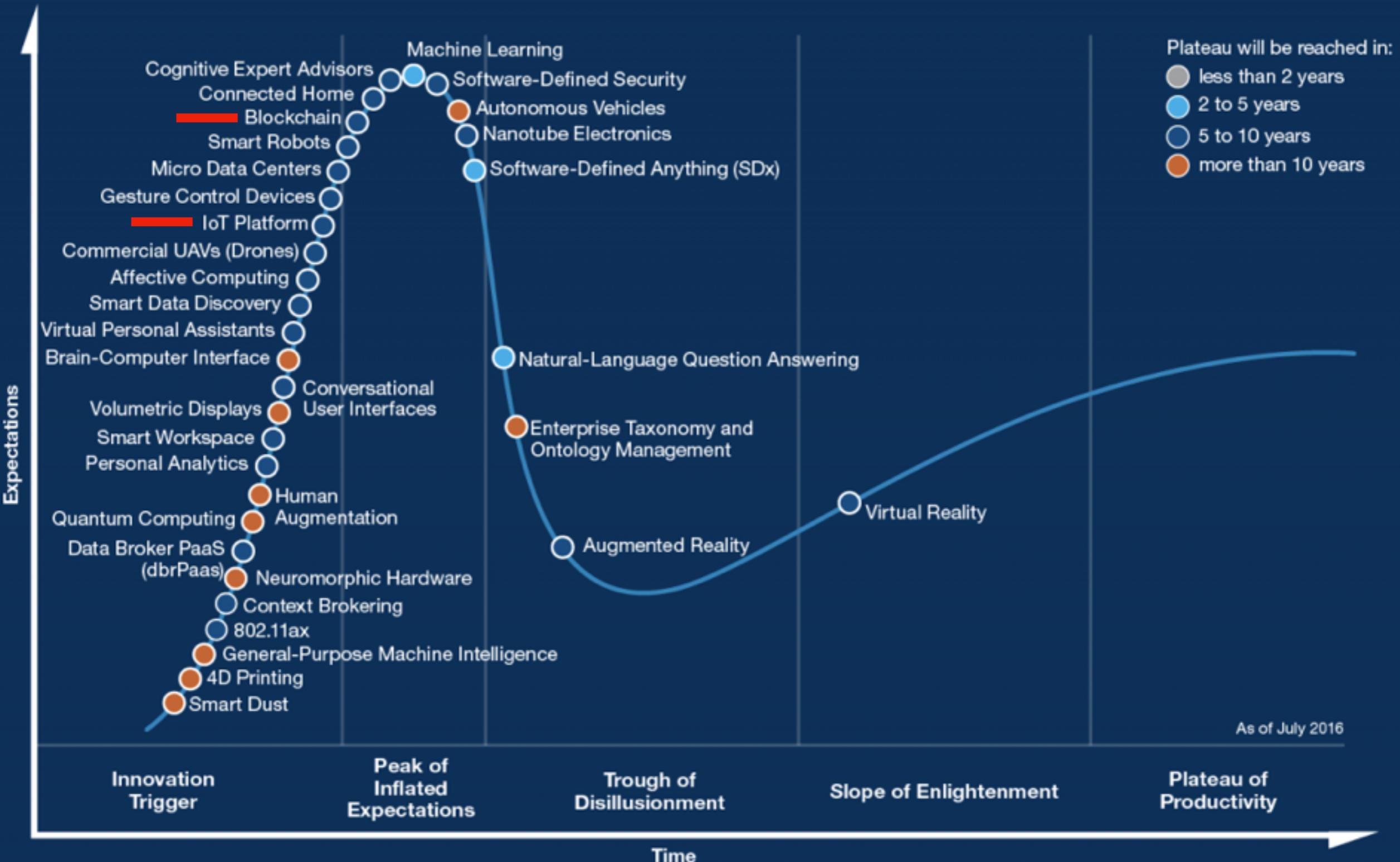
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Gartner Hype Cycle for Emerging Technologies, 2016

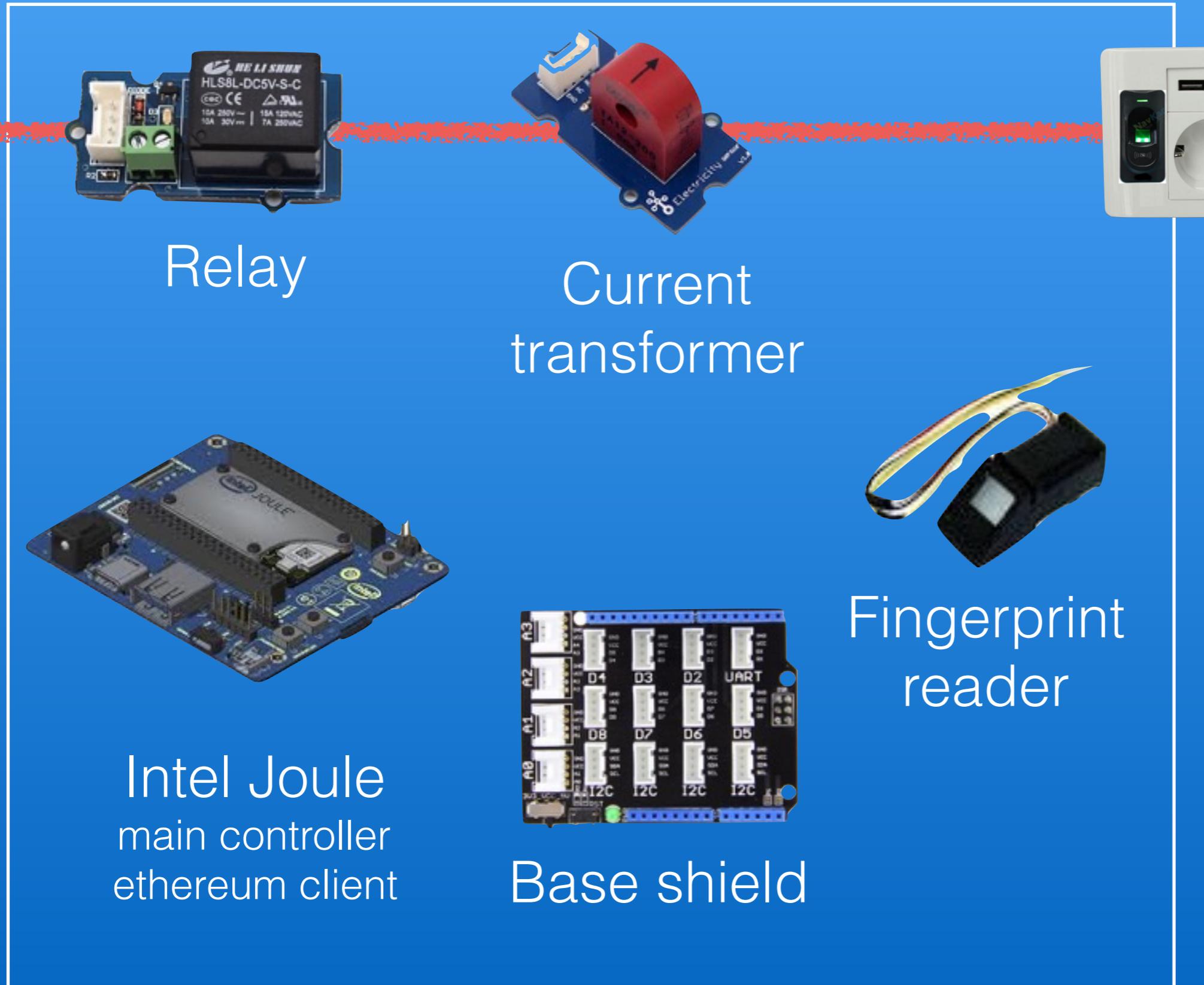


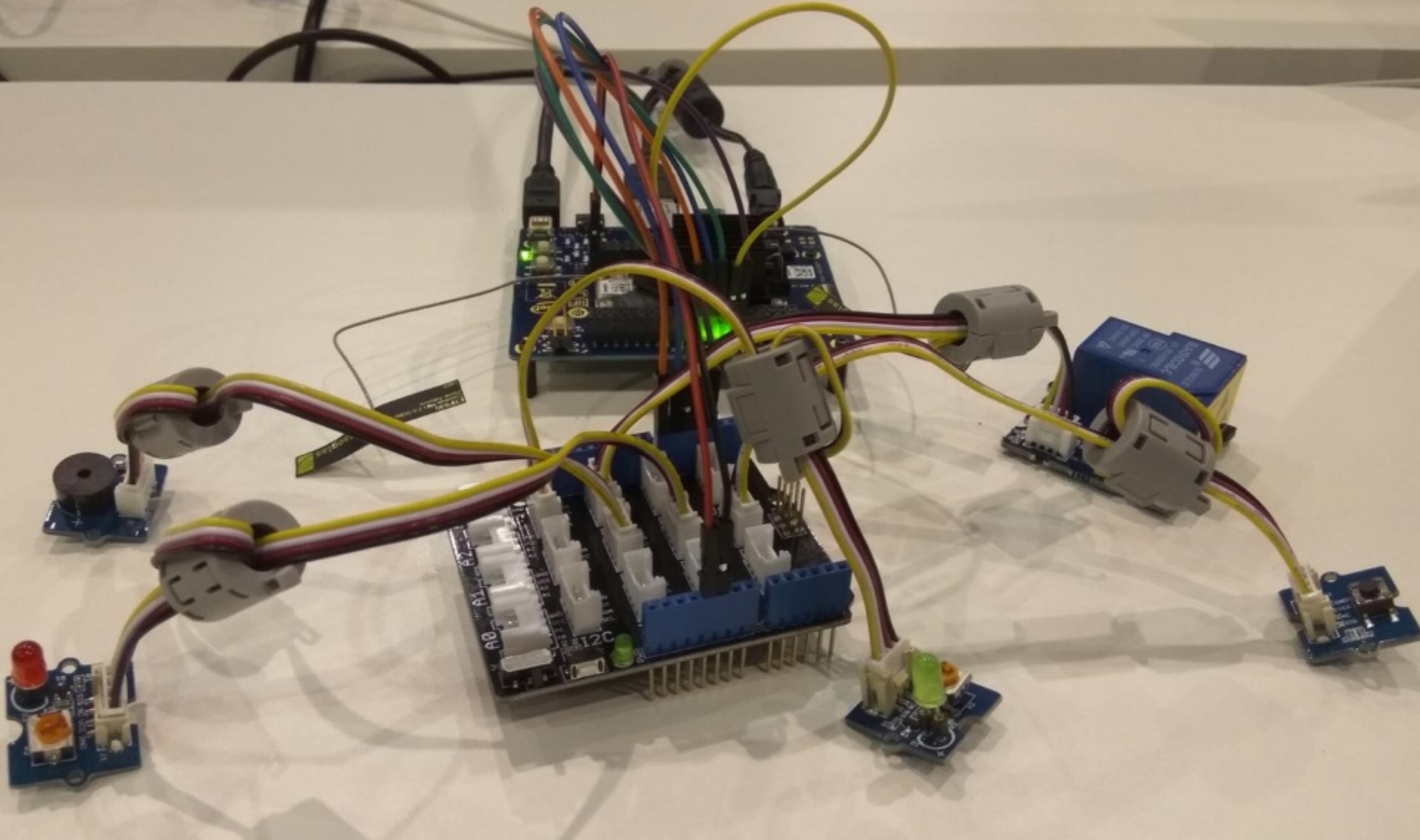
SMARTPLUG



- The user plugs his or her appliance in the Smartplug power outlet.
- Recognizes the user via fingerprint reader
- Turn on electricity in the outlet.
- User can plug his or her appliance.
- Smartplug reads the power use.
- When the appliance is unplugged, the system turn off and stands by for a new user.

SMARTPLUG



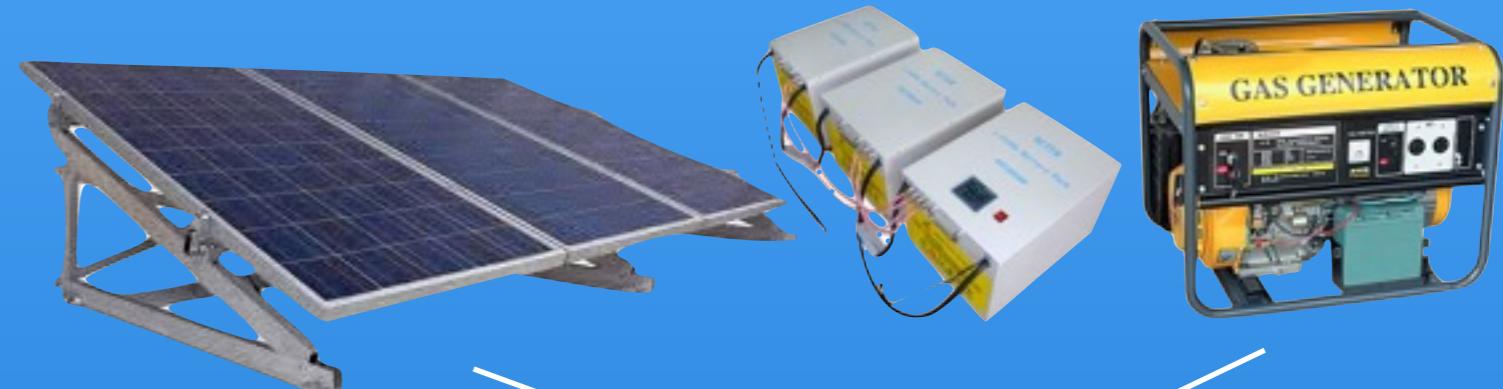


the early-stage prototype ;)

SMARTPLUG

local minigrid deployment

DApp Ethereum
Contract on cloud



Joule mini-server

Mines low-cost gas for plugs

Ethereum RPC endpoint

Power over Ethernet (Poe)



Smartplugs

Generates signed transactions and sends to the Joule mini-server



Private Ethereum blockchain

Trust in distributed consensus

Mining is low-cost

Easy hardforks on disagreements

SMARTPLUG TEAM ARE

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