



Smart grid
just got smarter



Problem

- / Electricity supply system is heavily convoluted
- / Technology and regulatory demands are being shifted
- / Business models and operational approaches are being stretched to their limits

In this environment of uncertainty and market disruption, energy providers must reinvent their organizations with the focus on >>>

Integrity

Transparency

Simplification

Security

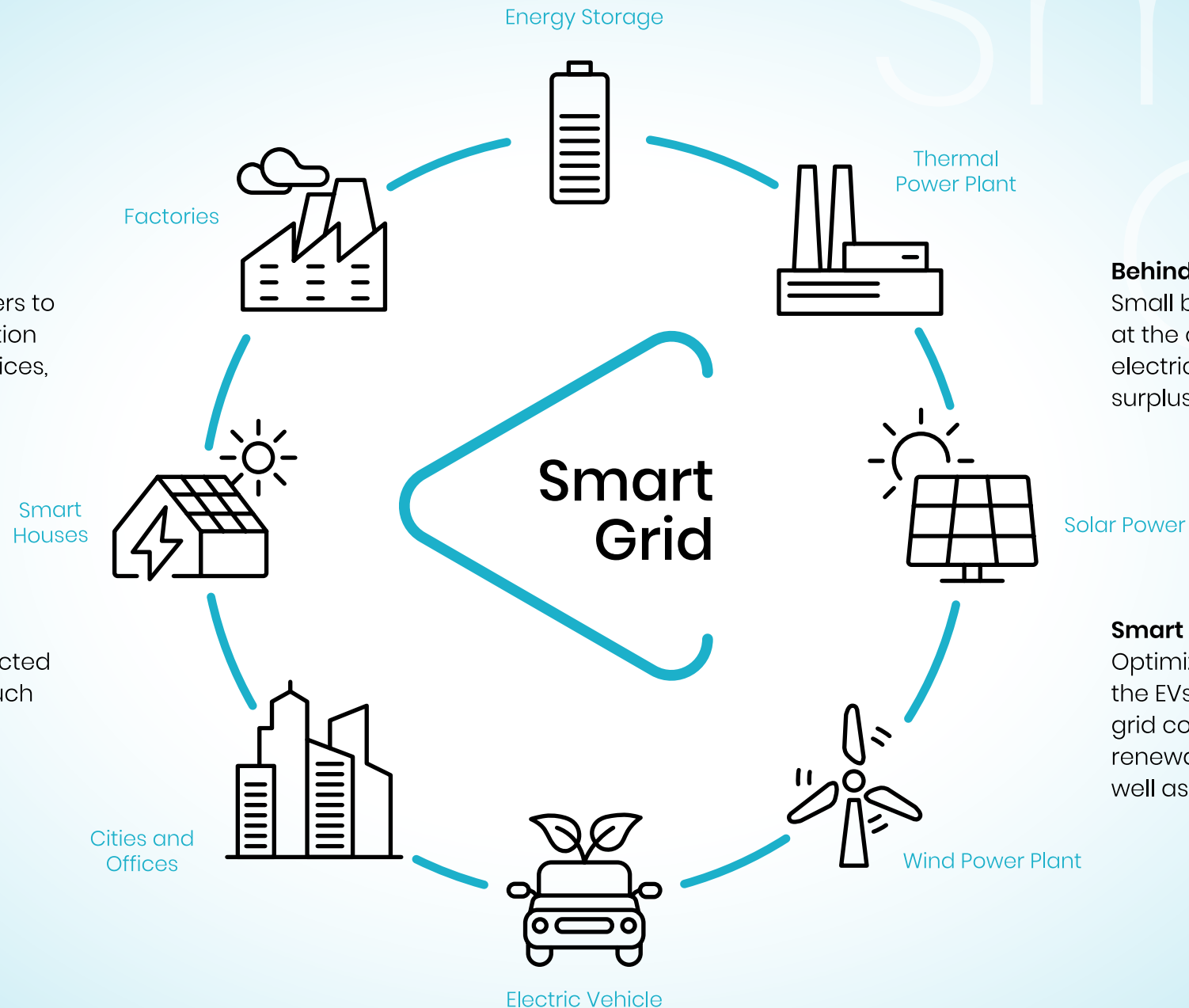
Visibility of assets

Demand Response

Process that enables consumers to alter their electricity consumption patterns and provide grid services, individually or through an aggregator.

Distributed generation

Generation from plants connected at low and medium voltage, such as solar rooftops, micro wind turbines, etc.



Behind-the-meter battery

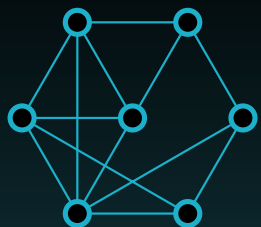
Small batteries that are connected at the consumer end and store electrical energy during periods of surplus generation

Smart charging electric vehicles

Optimizing the charging cycle of the EVs according to distribution grid constraints and local renewable energy availability, as well as driver preferences.

Product

TRAKEN is a data tracking, management and exploitation tool for smart electrical grids, that provides a distributed ledger to manage metering records, track physical objects and transfer value without a third party or manual reconciliation.



Protocol

Interoperability and seamless flow of data between different networks



Product passport

Framework for standardized product passports generation and protocol for recording of such data to DLT



Distributed energy registry (DER)

validation, time tampering and storing of data

Team

Executive



Strahinja Vukoičić
MSc electrical engineering

Operations



Nemanja Petrović
MSc economics

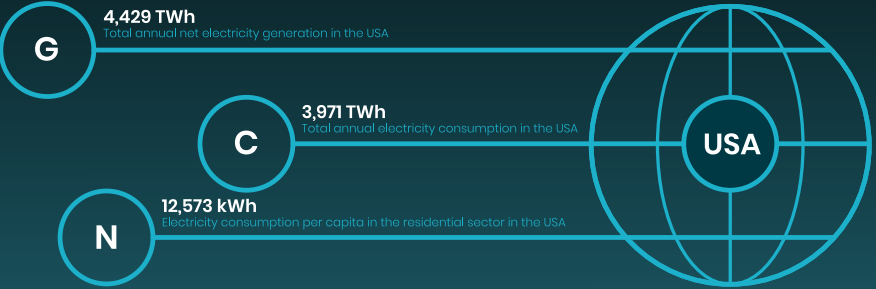
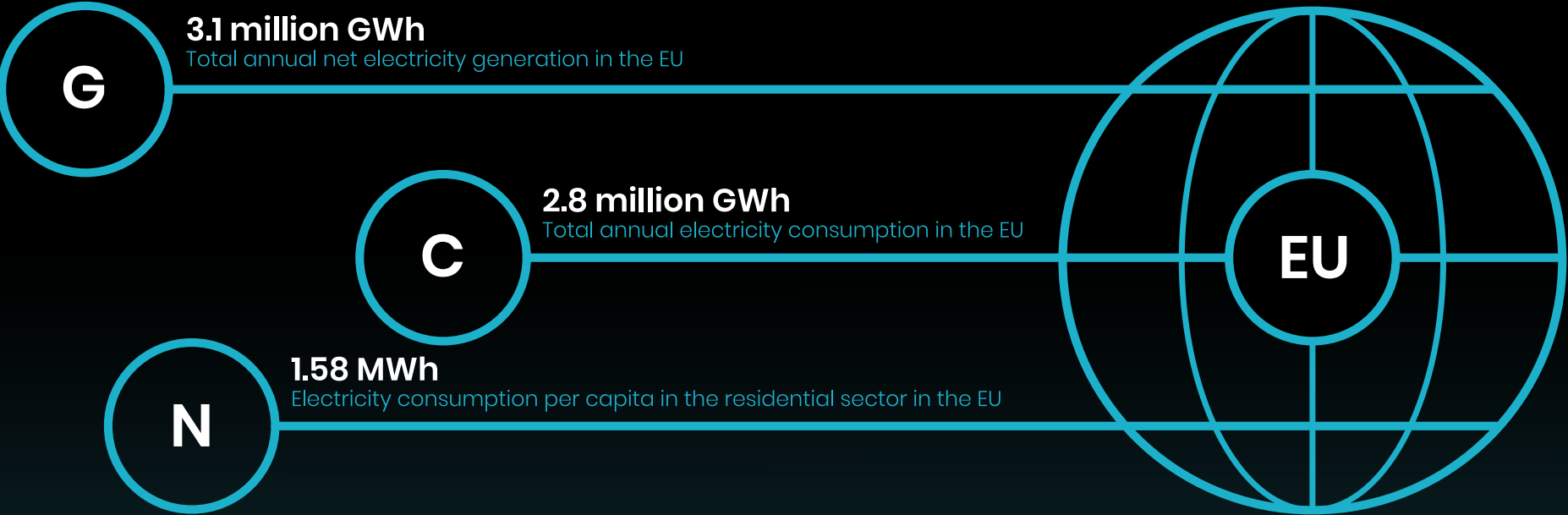
Tech



Pavle Batuta
Software engineer,
Blockchain architect

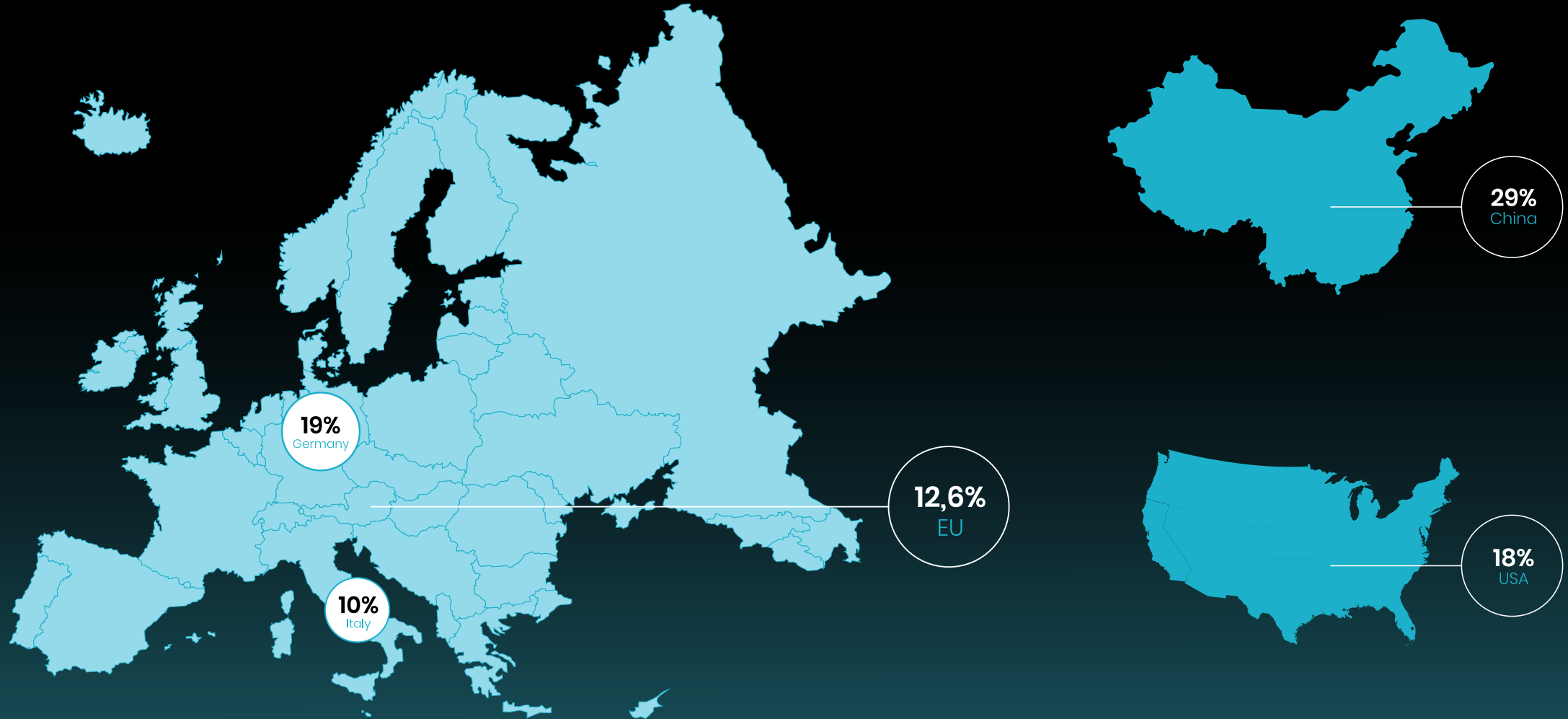
Market potential

// 160 billion EUR market potential in residential sector in the EU



Market potential

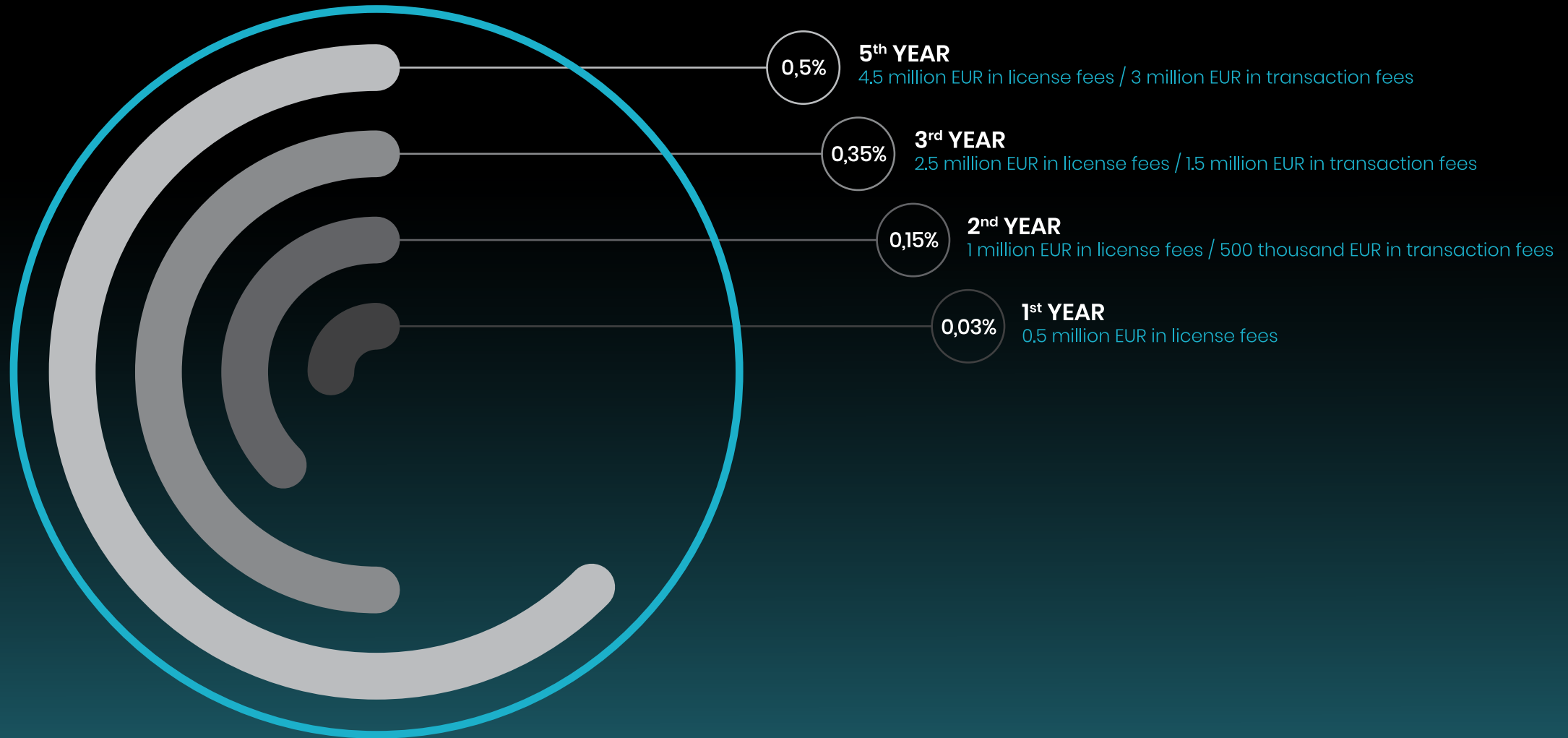
Currently, the EU is on track to meet its 20% target established for 2020. The EU could double the renewable share in its energy mix, cost effectively, from 17% in 2015 to 34% (target 27%) in 2030, wind and solar mostly. (IRENA)



Demand response installed distributed energy capacity: 21 GW (Jiménez, 2017)
EV: 537 340 cars (IEA, 2018)

*global electricity consumption

50 billion EUR
addressable market



Business model

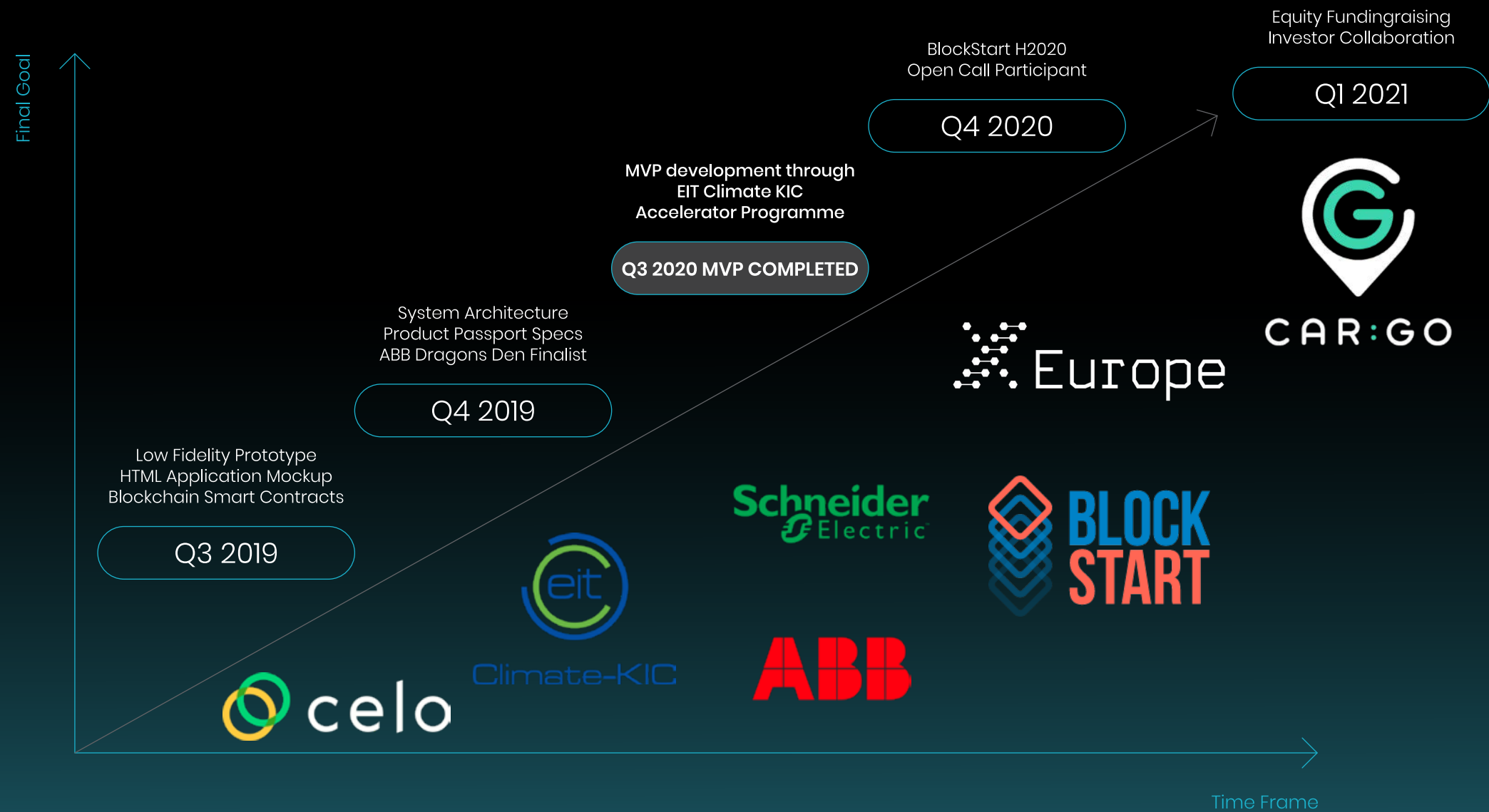
License fee
for DSO companies

Other:

- Aggregators
- Peer-to-peer electricity trading
- Energy-as-a-service
- Community-ownership models
- Pay-as-you-go models

Transaction fee
on microgrid rebalancing

Results





We are looking for >>>
an investment
a smart partnership

Competition

Power Ledger



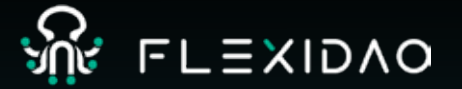
Jade Power



WePower

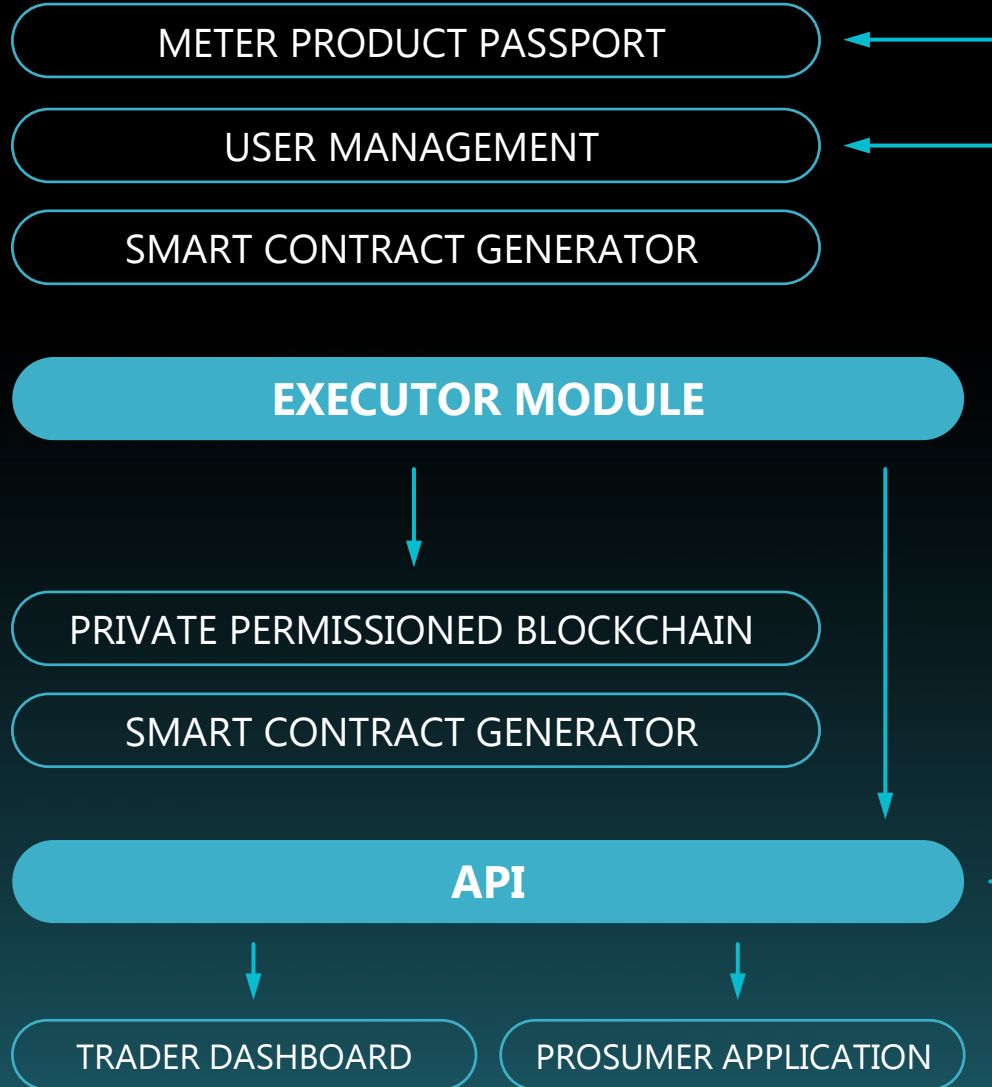


Flexidao



and others

TRAKEN



ARCHITECTURE WITH REACH

