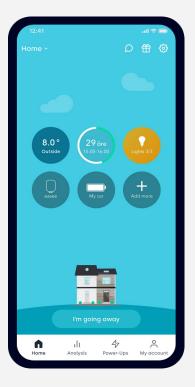
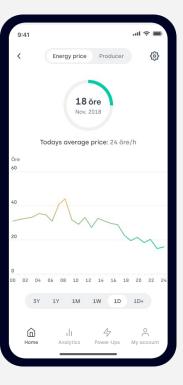
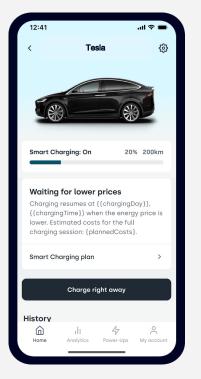


# How do we un lock flexibility from domestic consumers

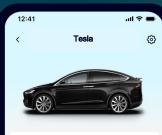












Smart Charging: On 20% 200km

#### Waiting for lower prices

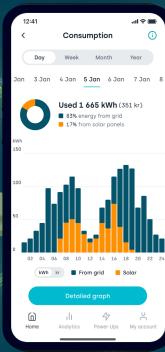
Charging resumes at {{chargingDay}}, {{chargingTime}} when the energy price is lower. Estimated costs for the full charging session: {plannedCosts}.













# Delivering cemand flexibility

## User brings the device. We aggregate



# Then we deliver flex to:NationalLocalWhen the second se

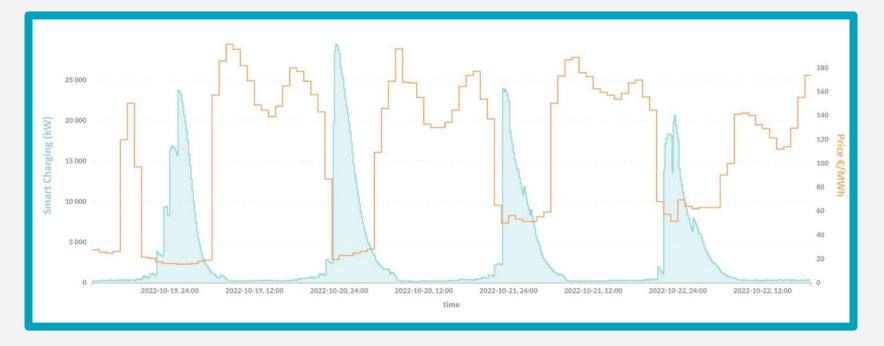
- Nordic TSOs, soon NL
- Sweden: FCR-D & FCR-N
- Norway: mFRR

- NODES marketplace
- Norflex & SthImflex

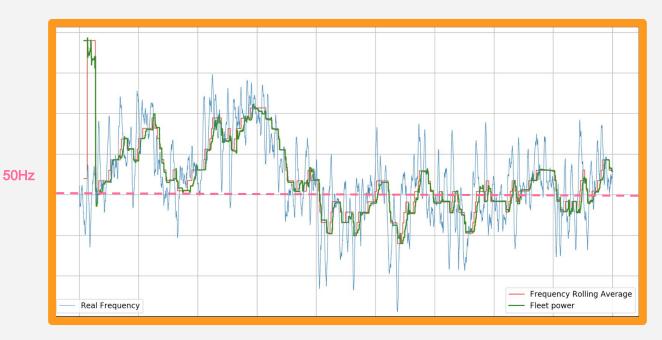
- Wholesale
  - Day ahead
  - Intraday



### **Spot optimisation**



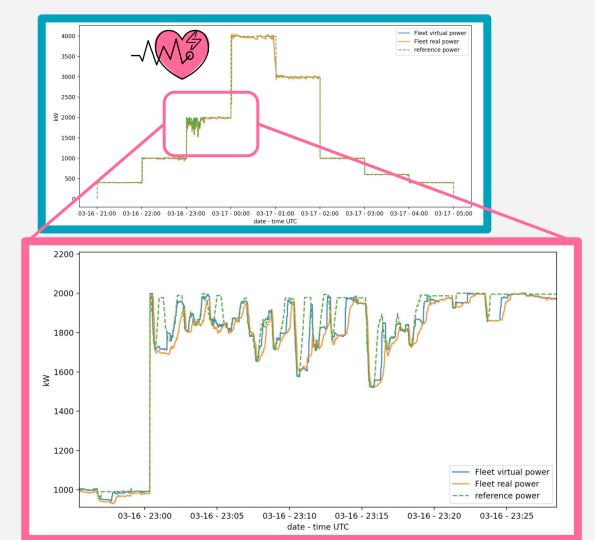
### Supporting The Grid's Pulse



### FCR-N Activations



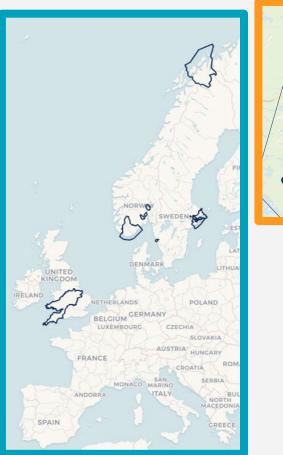
### FCR-D Activations



### NODES

#### 2022/2023 season:

- 100 MWh delivered
- >10k registered assets





# Challenges in untapping flexibility

2

4

Lack of data transparency & open protocols



Lack of standardization and scalability

Lack of investment certainty (esp for local flex)

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3

Lack of data transparency & open protocols



4

Technical reqs not applicable to new assets

Lack of standardization and scalability

Lack of investment certainty (esp for local flex)

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3

Lack of data transparency & open protocols



Technical reqs not applicable to new assets

Lack of standardization and scalability

4

Lack of investment certainty (esp for local flex)

Lack of data transparency & open protocols



Technical reqs not applicable to new assets

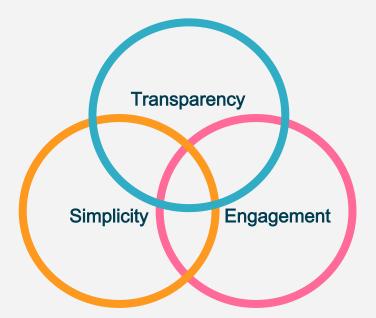
Lack of standardization and scalability



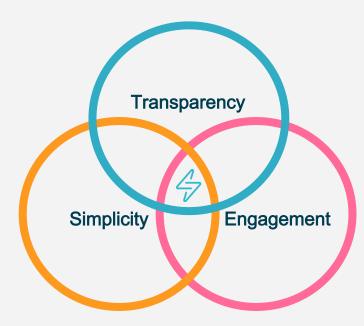
Lack of investment certainty (esp for local flex)

3

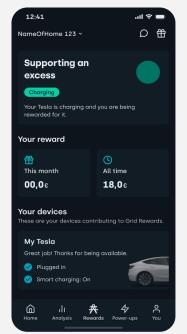
# UX challenges in untapping domestic flex



# UX challenges in untapping domestic flex







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