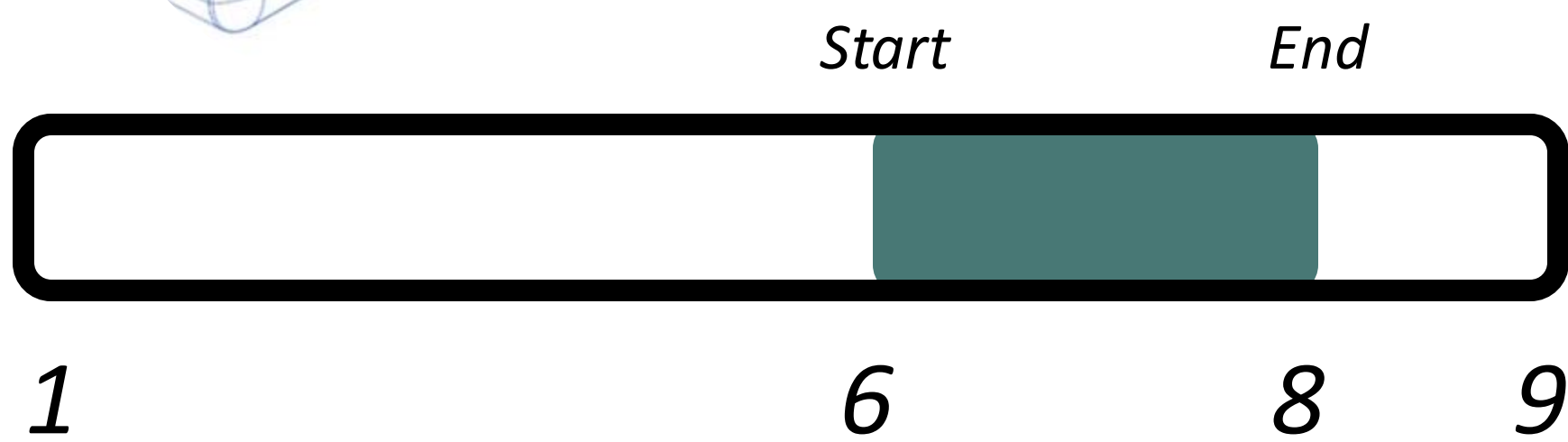



Light Node & BAL



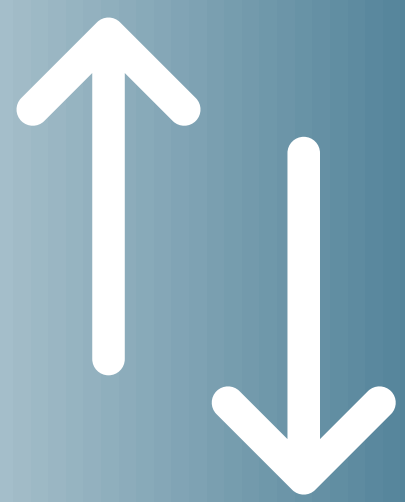
The Light-Node (LN) is an edge device installed on the customer's site, which collects metering data coming from the smart meter installed on Point of Delivery (PoD). Moreover the LN enables the end user to the local flexibility market receiving the flexibility activation commands from the remote operator and makes them available to the flexibility assets.



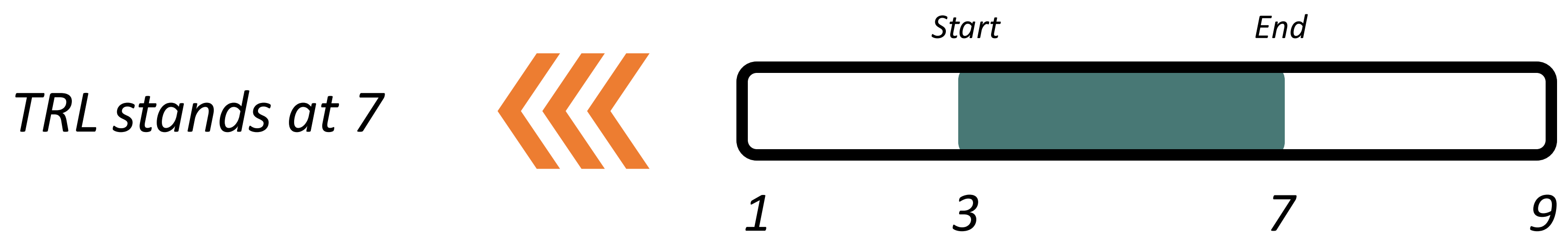
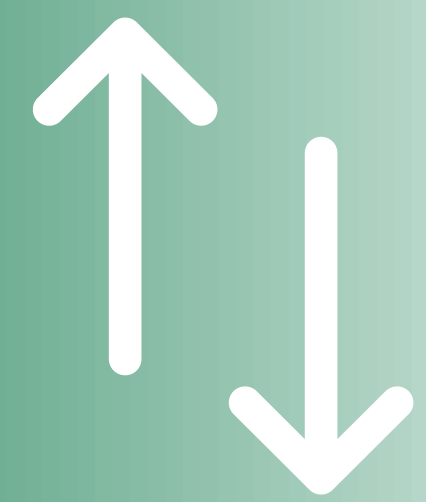
TRL stands at 8

 *Final users, DSOs, TSOs, BSPs and other stakeholders*


 *The Light Node was freely given to the user by Areti*



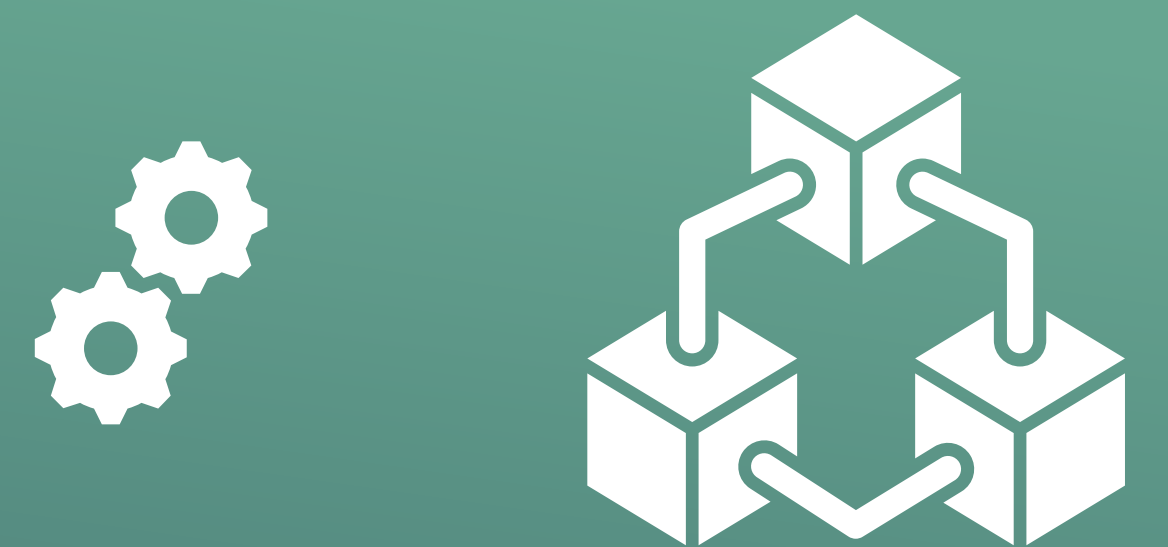
Blockchain Access Layer (BAL) and Light Node are strictly connected since BAL certifies the data coming from the LN



Final users, DSOs, TSOs, BSPs and other stakeholders 

Blockchain Access Layer is the intermediate layer between DERs and local flexibility market 

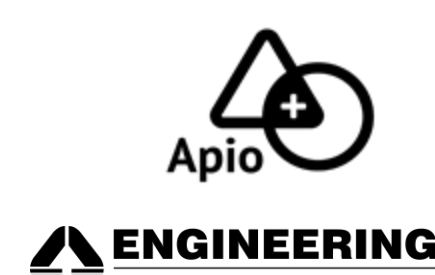
Blockchain Access Layer (BAL), developed by APIO, is an important component of the Italian demo. BAL increases the trust in the market, certifying the measurements, set-points coming from Light Node, and sending them to the Shared Customer Database, a unique database to collect the flexibility data.



 *Target groups*  *Exploitation Strategy*



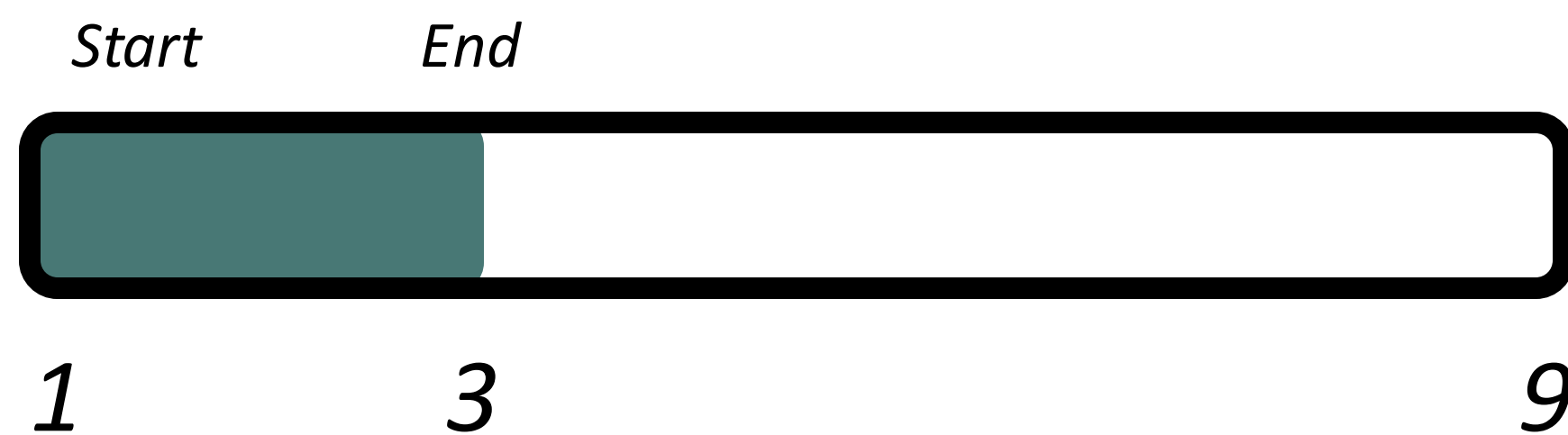
The project PLATform for Operation of distribution NETworks (Platone) receives funding from the European Union's Horizon 2020 research and innovation programme under grant agreement no. 864300



Local Flexibility Market



The Platone Italian Demo tests a Local Flexibility Market, where the DSO and TSO acquires the ancillary services from the Distribution Energy Resources (DERs).



TRL stands at 3



Local Flexibility Market involves the DSO, Market Operators, BSP, BRP, DERs and TSO that can procure the flexibility for the ancillary services.

Local Flexibility Market developed in the Italian Demo tests a Common Market for TSO and DSO to increase the liquidity and the efficient of the solution.



1. Preparatory phase

DERs registration and qualification

2. Forecasting phase

Definition of the flexibility requests

Elaboration of the flexibility offers

3. Market Phase

Matching of offers and requests

Technical checking of the awarded offers

4. Activation Phase

Sending of the flexibility orders

5. Settlement Phase

Performing of the settlement and Payments



Target groups



Exploitation Strategy



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