



SMART DISTRIBUTION GRIDS

Blockchain-based markets for future distributed locally generated energy

Challenges

Renewable Energy Sources and Electric Vehicles

Lack of coordination across actors and resources

Congestion, overvoltage and high losses

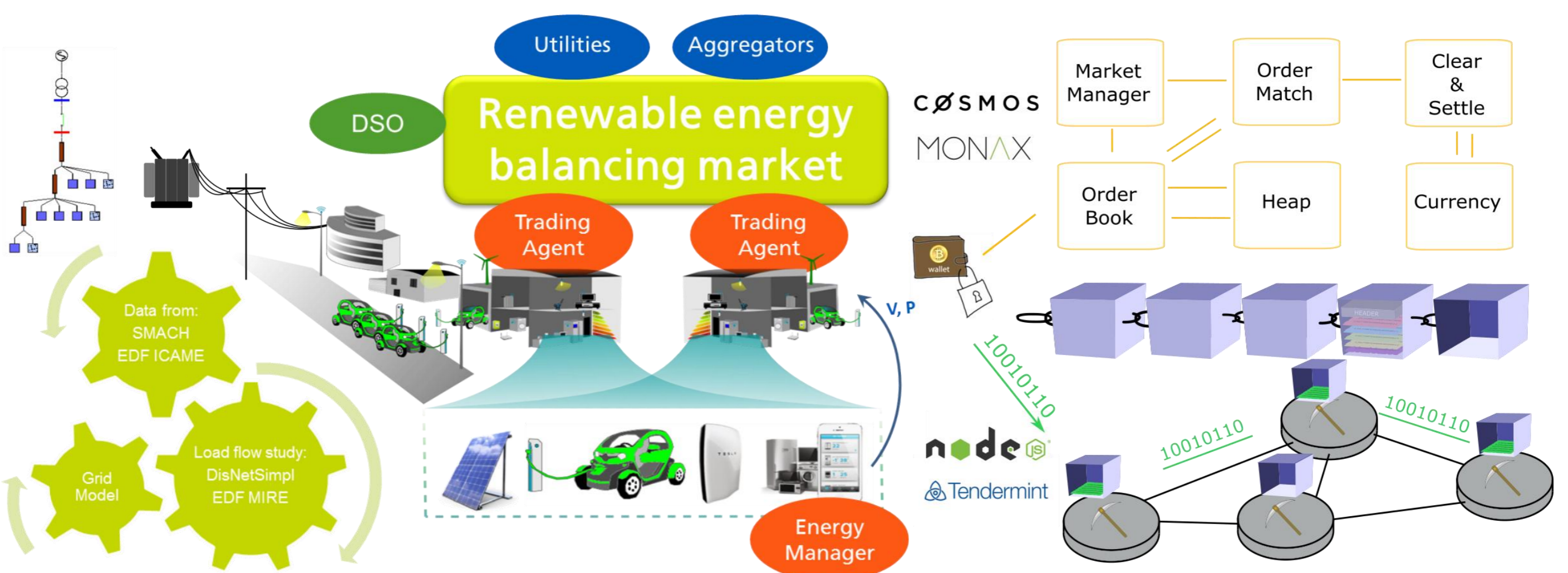
Operators increasingly need demand-side flexibility

Innovation

Households autonomously transact energy blocks and flexibility with neighbors & market actors

Market-based approach to balance local production

Blockchain-based universal transactive platform



Benefits

Reduce costs and certify provenance of local energy

Foster development of local renewable energies by increasing hosting capacity

Perspectives

Consider Electric Vehicles and Grid scale storage

Extend architecture to new non-energy use cases

Solve inter-domain conflicts among controllers

Contact

Jose.Horta@telecom-paristech.fr
David.Menga@edf.fr

