

π PONTON
WE ARE THE 2 IN B2B

Blockchain in Energy Trading ... and the lessons learned

PROSEU Online Workshop, March 25, 2020


Michael Merz

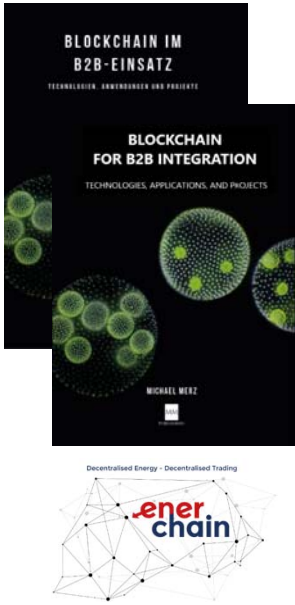
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About me

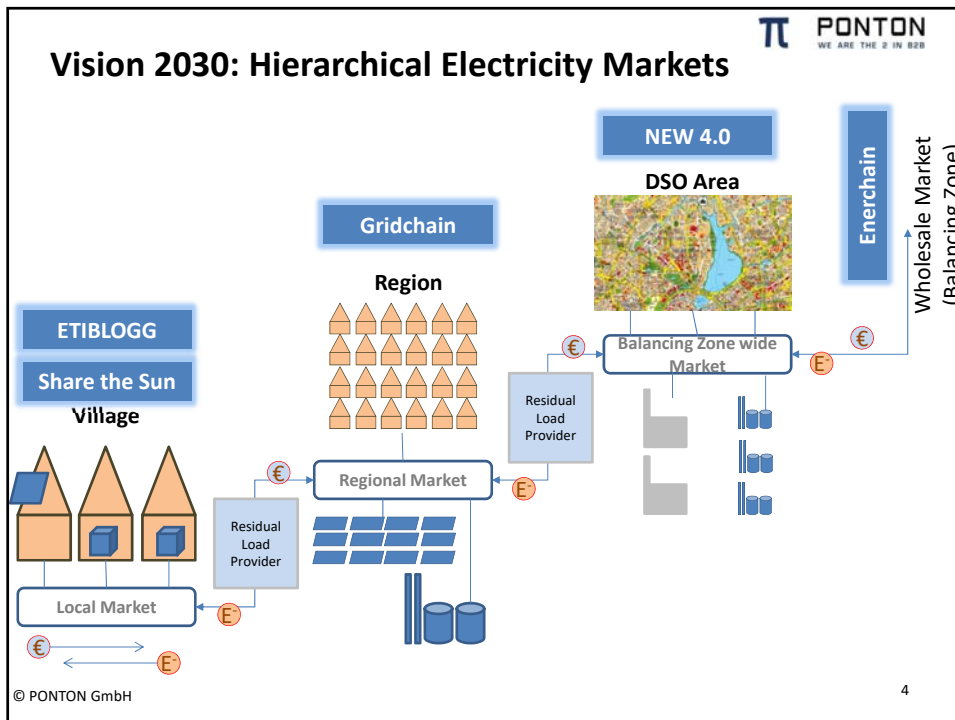
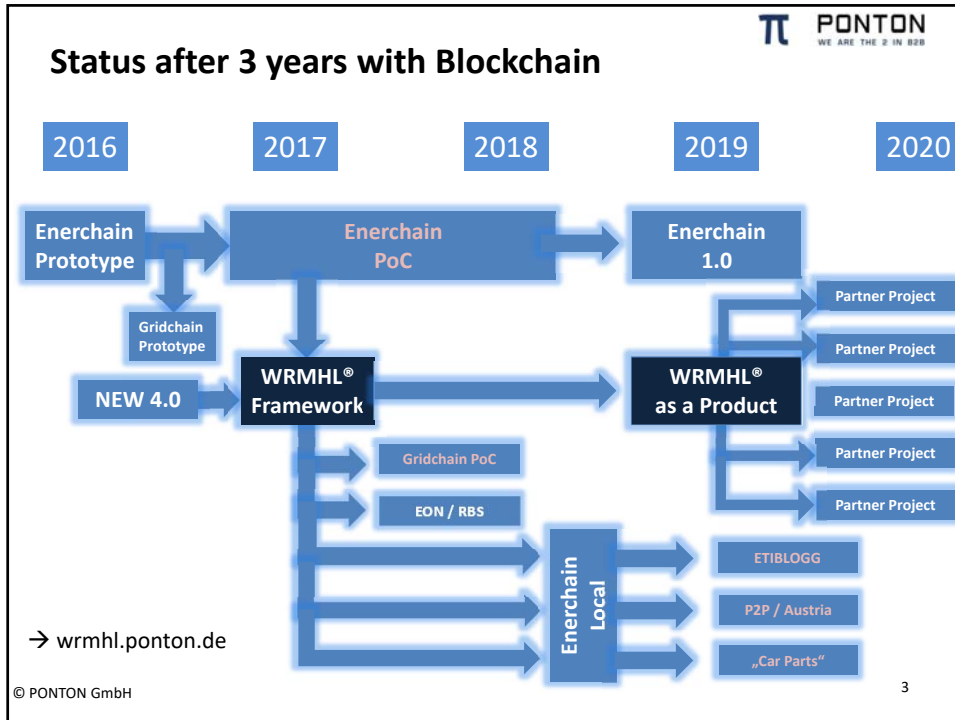
- Michael Merz
- MD at PONTON
- PONTON: „We are the 2 in B2B“
- Focus: Energy Trading & Grid Operation
- Blockchain agnostic







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Share the Sun!


- Share the sun within the family with friends, add value in your region
- Local sharing of energy started in a village near Linz, Austria, on August, 1st
- Over 40 participants in a test village, 100 to be reached by summer 2020

Sonnenstrom mit der Familie, Freundinnen und Freunden teilen
Gemeinsam Mehrwert in der Region stiften

Testpersonen gesucht!





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Process description – roles & responsibilities

1. Data exchange „Consumption Record“
2. Conversion „Consumption Record“ from .XML to .JSON
3. Anonymization Service (encryption of metering point IDs)
4. Blockchain-Client for writing encrypted consumption/production profiles into blockchain
5. Caching Service for flexible data handling
6. Reading of encrypted consumption/production profiles
7. Providing master data for allocation algorithm
8. Allocation algorithm
9. Writing matching results into blockchain
10. Preparation of daily/weekly/monthly billing
11. Billing
12. Visualization
13. (Loyalty Service)

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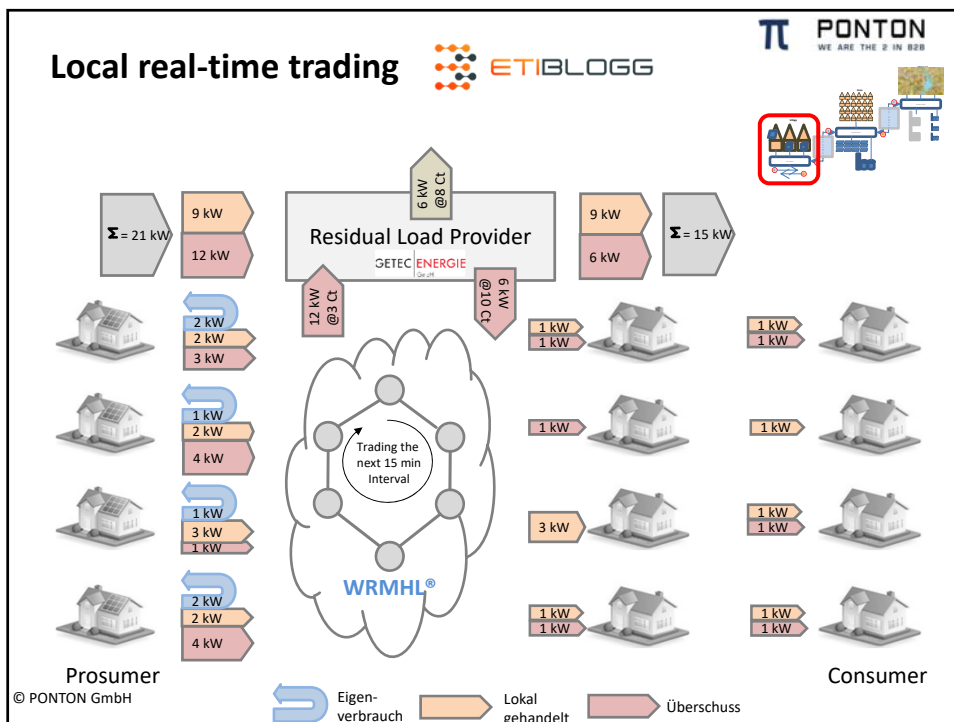


- Real-time trading for local energy communities
- Use Blockchain Device for automated trading agent
- Demos at
 - European Utilities Week, Paris, Nov 12-14, 2019
 - E-World, Essen, Feb 11-13, 2020
 - Hannover Industry Fair, Hannover, April 20-24, 2020



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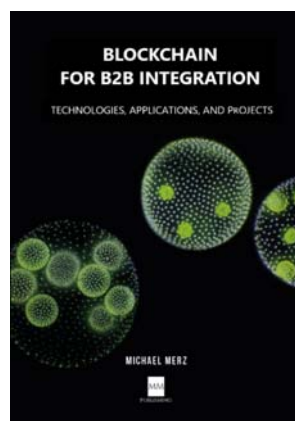


Do we really need Blockchain?

- Not always! Blockchain is not needed in more than 95% of all energy-related use cases that were „sold“ in the past. Same applies to B2B processes in general.
- Proof:
 - If there is a process to be implemented using blockchain → **consortium** needed
 - Consortium does standardisation, agrees on governance, arranges for funding, establishes a central legal entity with membership rules → high level of **trust**
 - High level of Trust → **no blockchain needed**. QED
- Only **very few decentralised trading scenarios** seem to really require blockchain as the elimination of a third party (exchange, broker) is the actual intention of the system.
- Local P2P trading makes sense based on blockchain under certain circumstances
- Same for decentralised wholesale trading – but even better in other sectors than energy

Thanks!

merz@ponton.de



https://www.amazon.com/-/de/dp/B081BDC5NC/ref=sr_1_1?_mk_de_DE=%C3%85M%C3%85%C5%BD%C3%95%C3%91&keywords=blockchain+merz&qid=1585043854&sr=8-1

... or just go to Amazon.com and search for „Merz“ and „Blockchain“