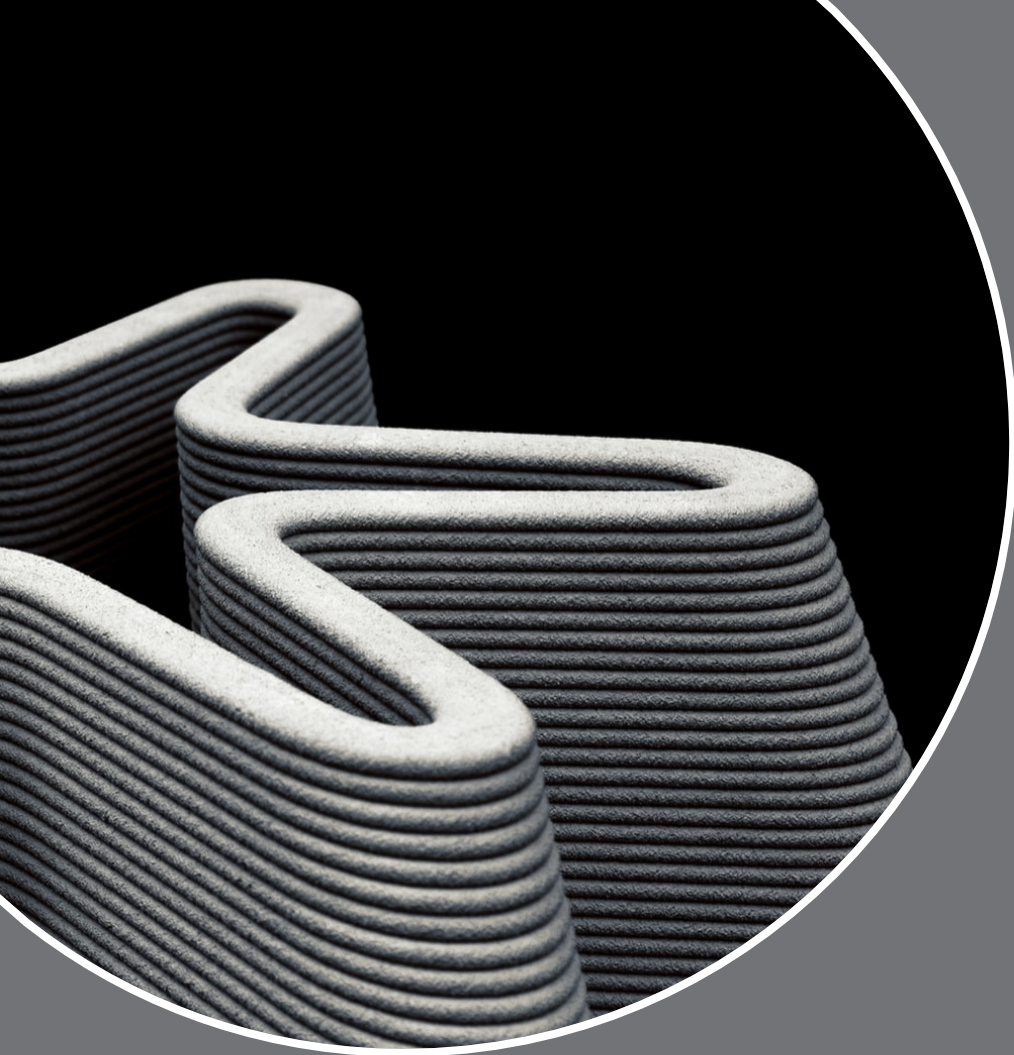


“What the internet did for communications,
I think blockchain will do for trusted transactions.”

IBM CEO Ginni Rometty



Enterprise Blockchain Tech Additive Technologies



What is the context?


- Analyze the value of using blockchain technology in the additive manufacturing
- Explain the principles of blockchain technology
- Discuss use cases with industry experts



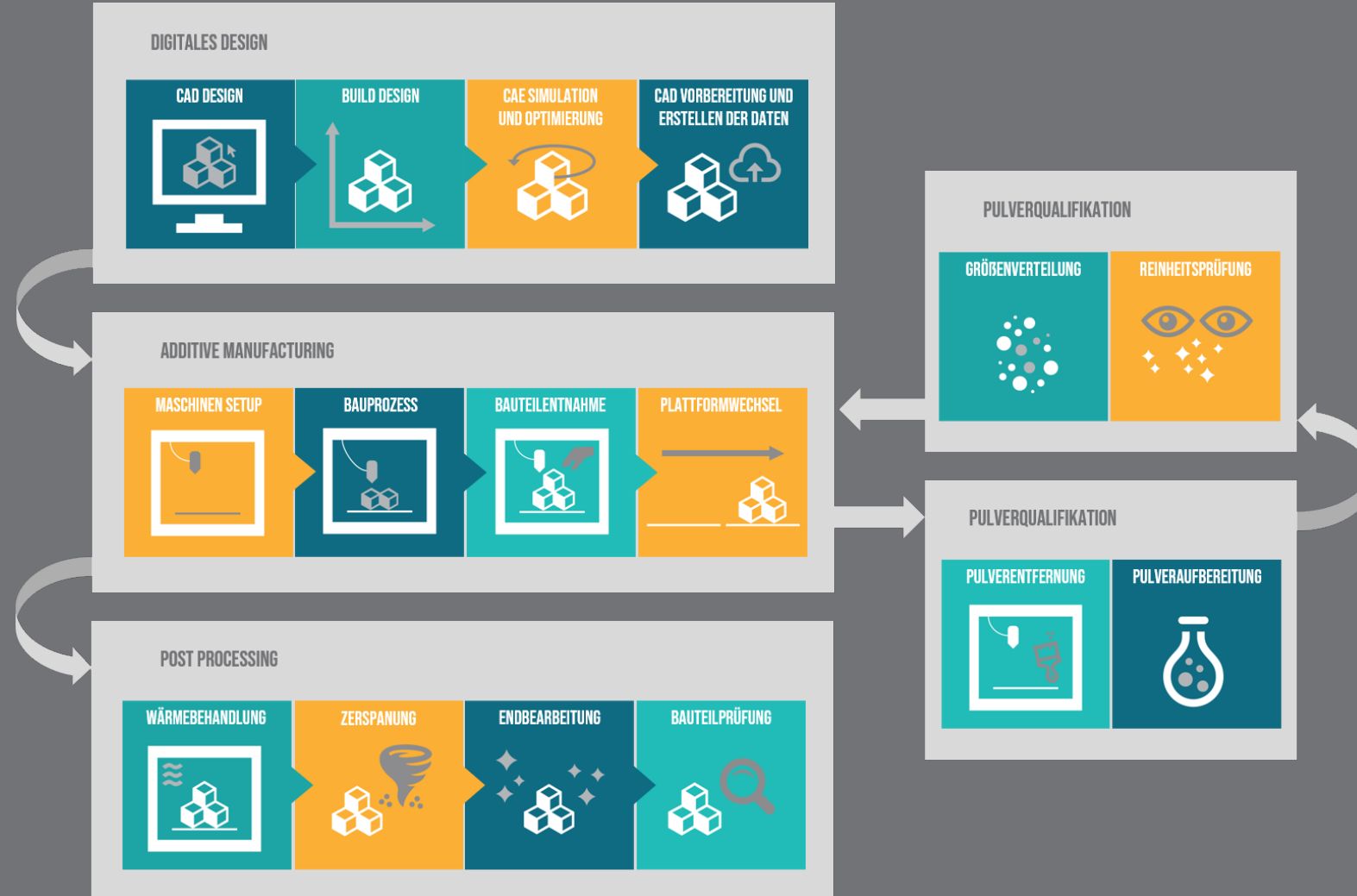
5 Blockchain principles



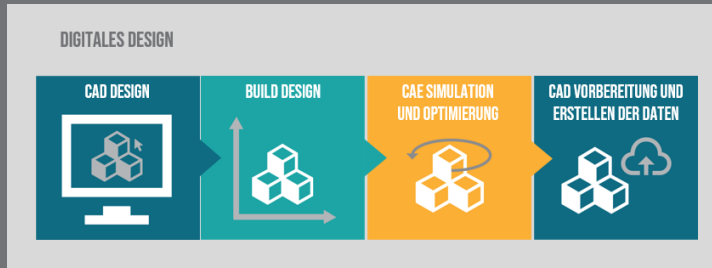
Trust in digitization
thanks to blockchain
technology

- 1. Robust and decentralized**
Information is stored into a distributed network
 - 2. Trust**
The integrity of information is ensured through consensus
 - 3. Transparency**
Information signed, secured and visible
 - 4. Predictability**
Smart contracts are describing the collaboration in the ecosystem algorithmically
 - 5. Safety**
Highly complex, proved algorithms control the blockchain and sign information
- 

Digitize the additive manufacturing process

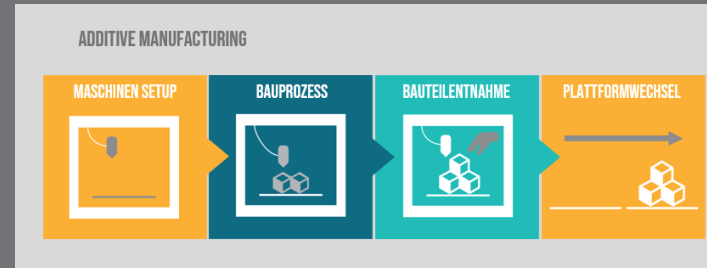


Digital platform for additive manufacturing – use cases



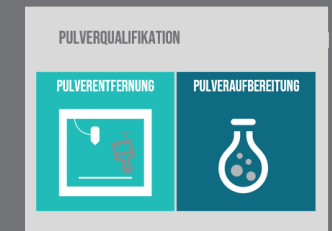
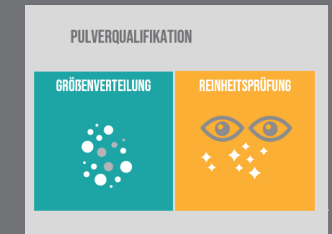
Design phase

- How can I ensure that nobody change or misuse my design when we are working in a group?
- Is there a way to offer only design of sup components to other designers?
- How can I ensure that the data for the manufacturing are not corrupted?
- How can I ensure that I'm not accountable, when the manufacture process deviate from my design?
- How can I protect my intellectual property?
- How can I provide a secure licensing for the usage of my designs?



Manufacturing phase

- We want be sure that the conditions in the manufacturing process are within the specifications, how can we notify any aberration in temperature, vibration or other conditions?
- How to manage a shared manufacturing environment to ensure that same parameters are used for all prints.
- How to manage a shared manufacturing environment; how can I ensure they pay what they print?
- How to manage a shared manufacturing environment; how can I ensure they pay what they print?



Material mix

We guaranty the quality of the object when the manufacture use our powder, how can we check this?



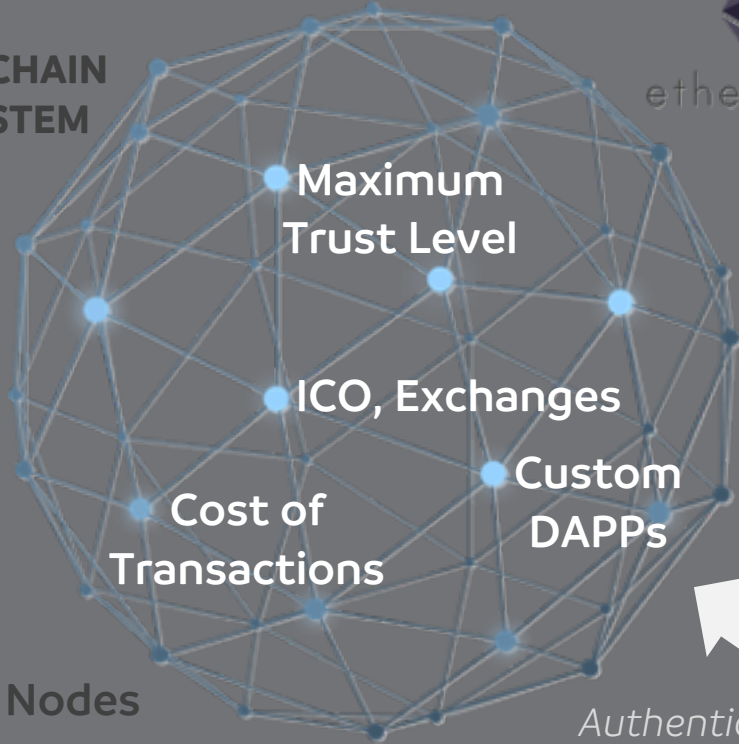
Hybrid Blockchain Concept



**PUBLIC
BLOCKCHAIN
ECOSYSTEM**



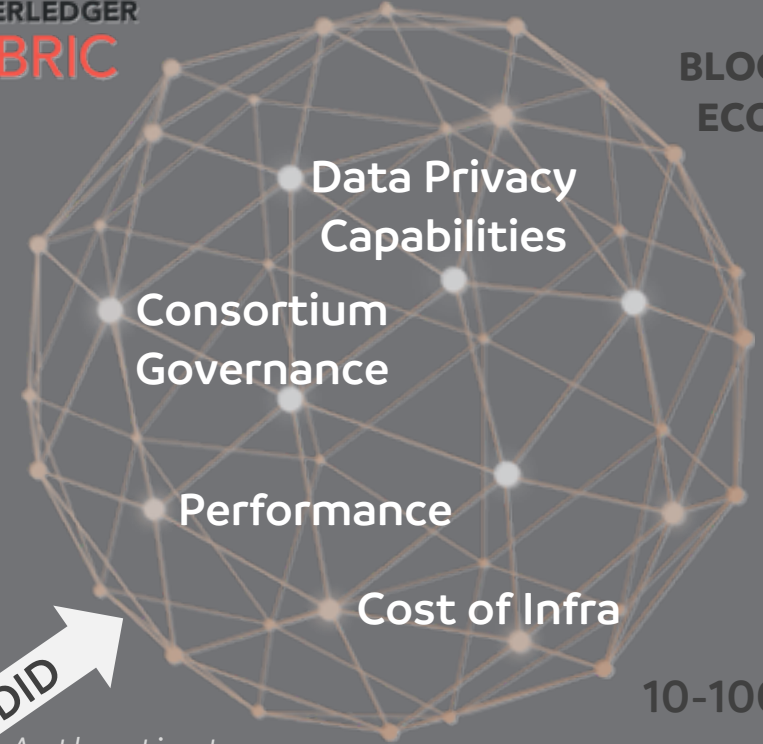
**PRIVATE
BLOCKCHAIN
ECOSYSTEM**



Increase Trust Level
Complete Auditing

Token Exchange
Interoperability

DID
*Authenticate
Authorize
Verify*



DID
*Authenticate
Authorize
Verify*



*Authenticate
Authorize
Verify*
~70 Stewards



**SSI Network
Public Ledger**