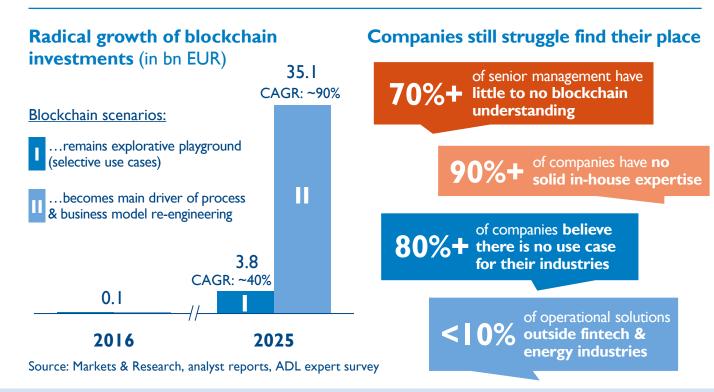
Briefing Series

Clarifying the hype and demystifying the impact

Hype vs. reality: Potential depends on leveraging the right blockchain features



What to expect?

In this series:

- I. Blockchain = Technology: Brief explanation of what blockchain is
- 2. Paradigm shift: Analysis of the feasible changes due to blockchain features
- 3. Strategic impact: Three areas of blockchain impact for business
- 4. Use cases today: Materializing potential with blockchain already today
- 5. 4-step blockchain readiness? Four questions to identify blockchain potential

Arthur D. Little contribution

- Clarifying the strategic impact for businesses/in the commercial context
- **Evaluate** company & industry potential
- Define use cases and deployment plan to realize potential (in line with business targets)
- Navigate ecosystem for own industry and "hot-tech" to watch in blockchain

For further information, please contact:









Contact

Fabian Dömer, Partner



Contact

Volker A. Pfirsching, Partner



March 2018

Blockchain technology

Clarifying the hype and demystifying the impact



Blockchain = Technology: Focusing on a decentralized way of organizing data

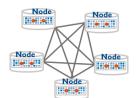
Four elements of how a blockchain works

Events = transactions

Recording all (information) events as transactions with instant encryption



Chain of transactions Linking all individual transactions to a sequential chain



Storing chain decentrally Distribution of new chain transactions to all computers



Validating data Continuous validation of data authenticity and integrity

Blockchain language

Address Encryption Token

Hashing Block

Peer-to-peer network

Mining Proof-of-work Proof-of-stake

Arthur D. Little recommendations

What to expect?

- Blockchain management workshops; Discussing logic behind and value of blockchain
- Technology radar for identifying new technical developments and commercial blockchain technology solutions
- Evaluation of company-wide blockchain technology strategy
- Due diligence of technical blockchain solutions and partners
- Creating awareness of potential and risks

Blockchain, the paradigm shift

For further information, please contact:









Contact

Fabian Dömer, Partner



Contact

Volker A. Pfirsching, Partner

Next edition:



Clarifying the hype and demystifying the impact



Paradigm shift: Unlocking the value from the network (and avoiding the need for high upfront central invest)

from ...

Central authority,

source of trust

Information availability

Centralized. non-transparent

Incentive scheme

ecurity

Aspect

Single point of failure

Self-serving

rewards

... to



governed, decentral network

Always transparent for everyone (but encrypted!)

Agreed conditions with mutual interests

Network of verification and backup

No dictatorship, but equal partners!

Real-time information available, anytime!

No self-serving interests

Built-in security mechanism

What to expect?

Arthur D. Little recommendations

- Definition of **company-specific** blockchain benefits and technology mix
- Unbiased understanding of industryspecific pros and cons
- Definition of a company-specific setup:
 - Technological solution
 - Steering & governance
 - Incentive systems
 - Security & scalability

Next edition: Strategic impact of blockchain

For further information, please contact:









Contact

Fabian Dömer, Partner



Contact

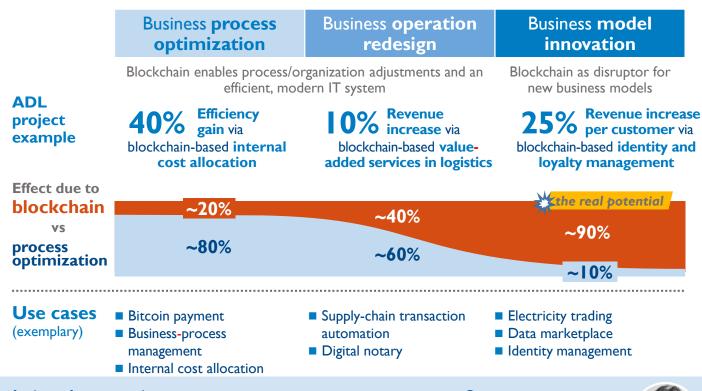
Volker A. Pfirsching, Partner



Clarifying the hype and demystifying the impact



Strategic impact: Optimizing organization today & creating future business



What to expect?

Arthur D. Little recommendations

- In-depth development and analysis of blockchain scenarios for your organization
- Analysis of strategic and operational impact of blockchain
- Design of business processes maximizing the benefit of blockchain
- Evaluation of blockchain technology architecture to support business needs
- Development of **deployment** roadmap for scaling blockchain activities



For further information, please contact:









Contact

Fabian Dömer, Partner



Contact

Volker A. Pfirsching, Partner



March 2018

Briefing Series

Blockchain technology

Clarifying the hype and demystifying the impact

Use cases: Benefits can materialize for all business functions and all industries

SELECTION

Single **business** functions

Functions focusing on transactions can immediately benefit from

- Payments in cryptocurrencies
- Internal cost allocation
- Digital notary
- Document management

- Shareholder and union votes
- Know-your-customer management
- Own (internal) currency
- Financial accounting

Industries upgrade processes, operations and business models

Complete industries

Automotive

- Maintenance log
- On-demand services

Consumer & retail

- Certification of origin
- Loyalty management

Energy & utilities

- Prosumer trading
- Securitization of assets

Public services

Telecom

Travel & transportation

- Passport and visa administration
- Real-estate registry
- Fraud management Seamless authentication
- Billing for infrastructure usage
- Asset maintenance log

The economy Instant data monetization through a trusted, decentralized marketplace

Contact

Fabian Dömer, Partner



Next edition:

What to expect?

Arthur D. Little recommendations

■ Outside-in perspective on relevant

■ Definition of company-specific use

use cases for blockchain

Overview and visibility of the blockchain developments/

Commercial and technical

evaluation for use cases

ecosystem for your industry

cases

Do-it-yourself relevancy check

For further information, please contact:









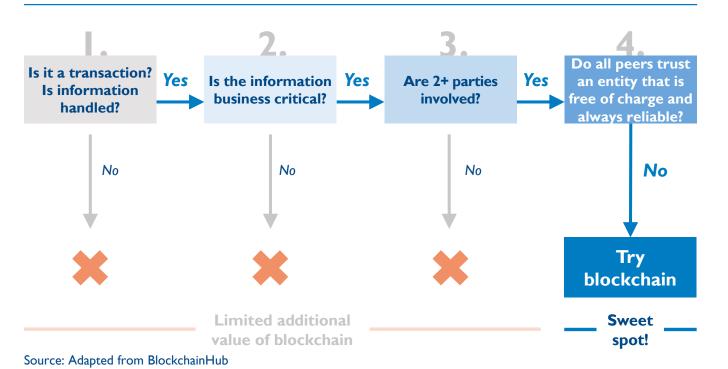


Contact Volker A. Pfirsching, Partner

Clarifying the hype & demystifying the impact



4-step blockchain readiness: Is blockchain relevant for a business context?



What to expect?

Arthur D. Little recommendations

- Use cases & best practice across industries and from peers
- **Completion of/support for** "relevance analysis" of blockchain technology for your situation
- Impact analysis of application of blockchain technology for your business area and functions (i.e., quantitative and qualitative)
- Identification of blockchain use cases for your organization (e.g., processes, operations, business models, etc.)
- Blockchain training for management to detect blockchain potential early

More information? Click here...



Contact Fabian Dömer, Partner



Contact Volker A. Pfirsching, Partner