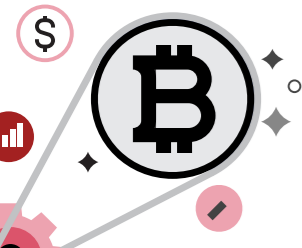
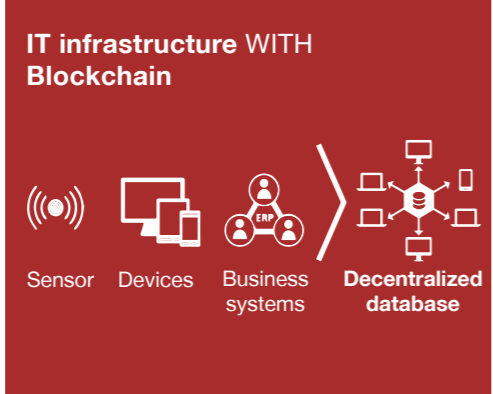
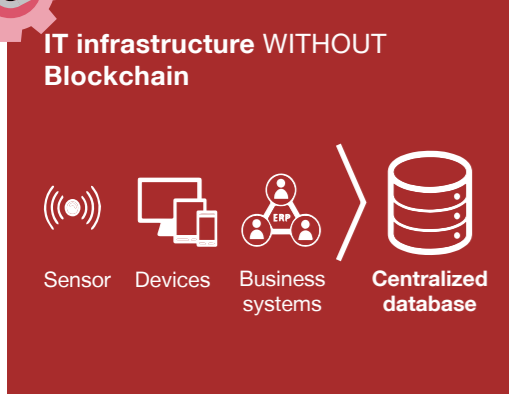


Blockchain in Automotive Industry

Blockchain is a technology allowing the efficient and secure storage of transactions in a decentralized manner



- Blockchain is ...**
- a **distributed**, tamper-proof **digital ledger**
 - a **tool to improve cooperation** between companies
 - the basis for many new **business opportunities**



The Blockchain concept explained ...

Key features	
	Distributed ledger Decentral storage of transactions or other information. Single source of truth for all participants
	Cryptography Cryptography ensures integrity and security of data on the Blockchain
	Consensus Validation of transactions or other information received by the various participants in the system
	Smart contracts Ability of the technology to store and automatically execute pre-defined business rules

Benefits of Blockchain



Blockchain use-cases in Automotive Industry

Mobility services
Ensuring trust amongst participants and convenient value transfer – Removing the middle man

- Peer-2-Peer sharing platform (truck / car capacity)
- Identity management
- Access rights, credit checks

Automotive and IoT
Safe medium for sharing data in real time as well as to interact in a secure channel

- Onboard diagnostic data exchange
- Truck platooning
- Odometer fraud management
- Autonomous car interaction
- Tracking R&D design process

Supply Chain management
Bringing transparency in supply chain and ensuring the provenance of automotive parts

- Provenance of spare parts
- End-to-End transparency of car components and authenticity
- Decentralized market place of spare parts

Billing and payment
Automatization of payment and financing processes via smart contract

- Service contracts
- Rental contracts
- Automatic toll payments
- Insurance claim processing

Blockchain behaves as underlying technology for future mobility platforms

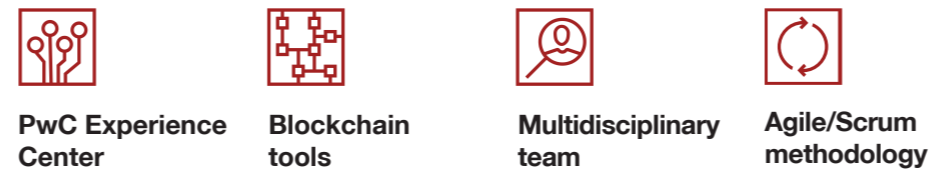
How Blockchain is addressing future mobility?

	Connected e.g. for data sharing and identity management via Blockchain
	Autonomous e.g. for token based payment for sharing economy, claims management, billing and payment services
	Shared e.g. for record vehicle ownership, peer-2-peer payment, tracking use of vehicle
	Electrified e.g. for smart contract / token enabled charging, provenance of battery materials, govt. and insurance based subsidies enabled via smart contract

Four strategies for Blockchain success

- 1. Make the business case:** where and how to start
 - Understand Blockchain and key trends
 - Frame the problem and solution
 - Start small, then scale out
- 2. Build an industry ecosystem:** new rules for new relationships
 - Focus on a cooperative few
 - Broaden your network
 - Shape the use cases for ecosystem based on value and impact
- 3. Design deliberately:** determine rules of engagement
 - Design the solution
 - Consider the tech integration requirements
 - Develop scalability plan
- 4. Navigate regulatory uncertainty:** watch, but don't wait
 - Confront risks and privacy implications
 - Monitor compliance and regulatory requirements
 - Shape the trusted tech discussion

PwC Strategy& accelerators

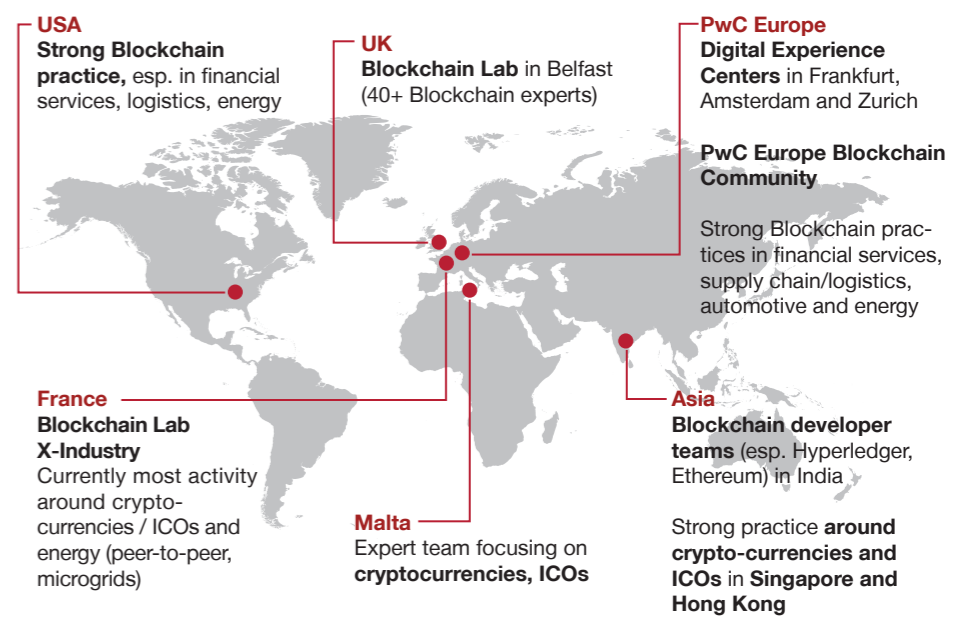


Why PwC Strategy&?

- Blockchain capability**
PwC Strategy& has deep Blockchain delivery skills having built and deployed live Blockchain applications and having completed a number of POC
- Independent perspective**
As an independent firm we provide a clear and objective perspective on technology options and preferred solutions
- Global footprint**
We have Blockchain experts across the globe, esp. United States, Europe and Asia
- Experience**
PwC Strategy& has delivered a number of Blockchain POC blending technology skills with the deep domain knowledge of PwC's market experts.
- Technology capability**
We have years of experience innovating and delivering business critical platforms for some of the world's largest brands
- Regulatory understanding**
We ensure that all wider regulatory requirements are met and any potential concerns or restrictions considered

PwC Strategy& has Blockchain teams and activities across the globe

400+ Blockchain staff **5000** automotive experts



Please get in touch with us for more information

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