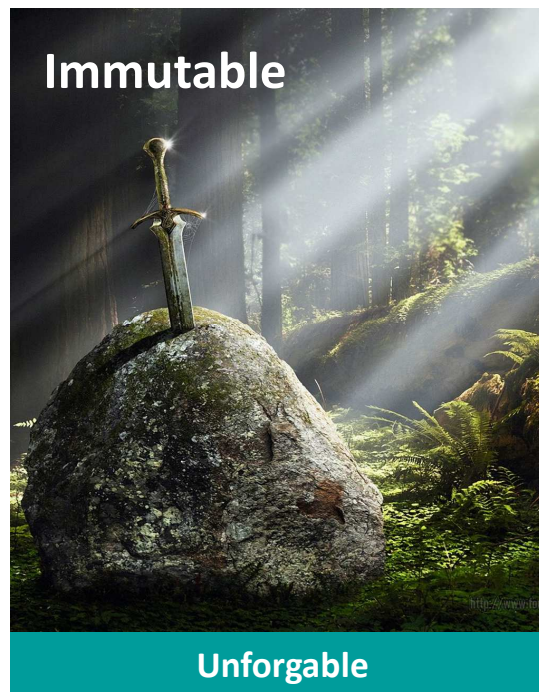
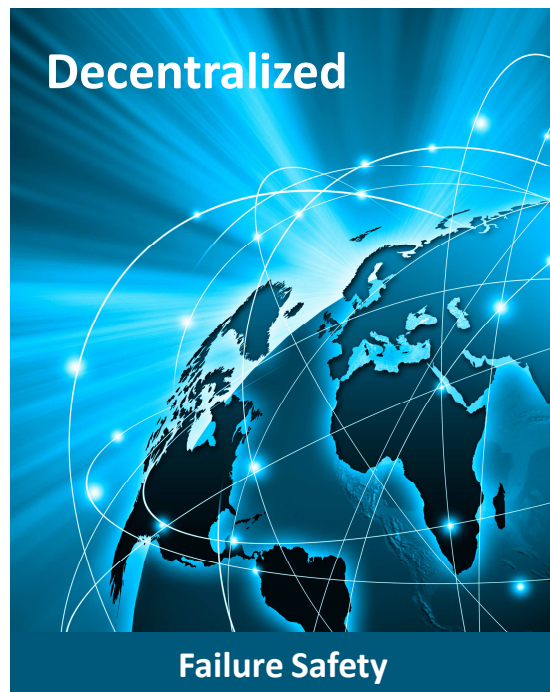


Public Sector Processes support by Cognitive Analytics – secured in the Blockchain

BRZ as an Enabler

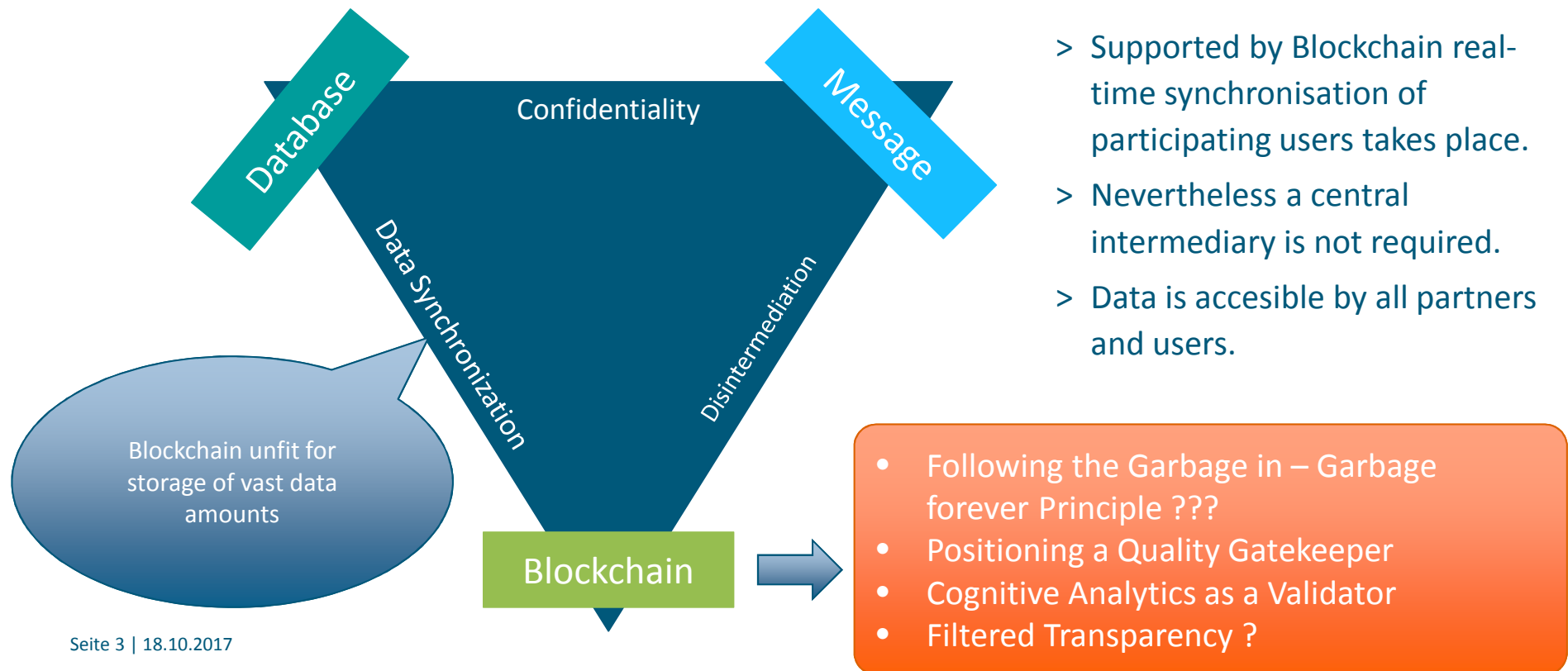
Matthias Lichtenthaler, Head of Digital Transformation
Bundesrechenzentrum GmbH

3 Specialities yielded by Blockchains core values



Conflict of Objectives throughout Integration of Organisation BRZ

Is Blockchain suited for Big Data?







Potential Blockchain Use Cases for Public Sector with Linkage to Big Data & Cognitive Computing

BRZ

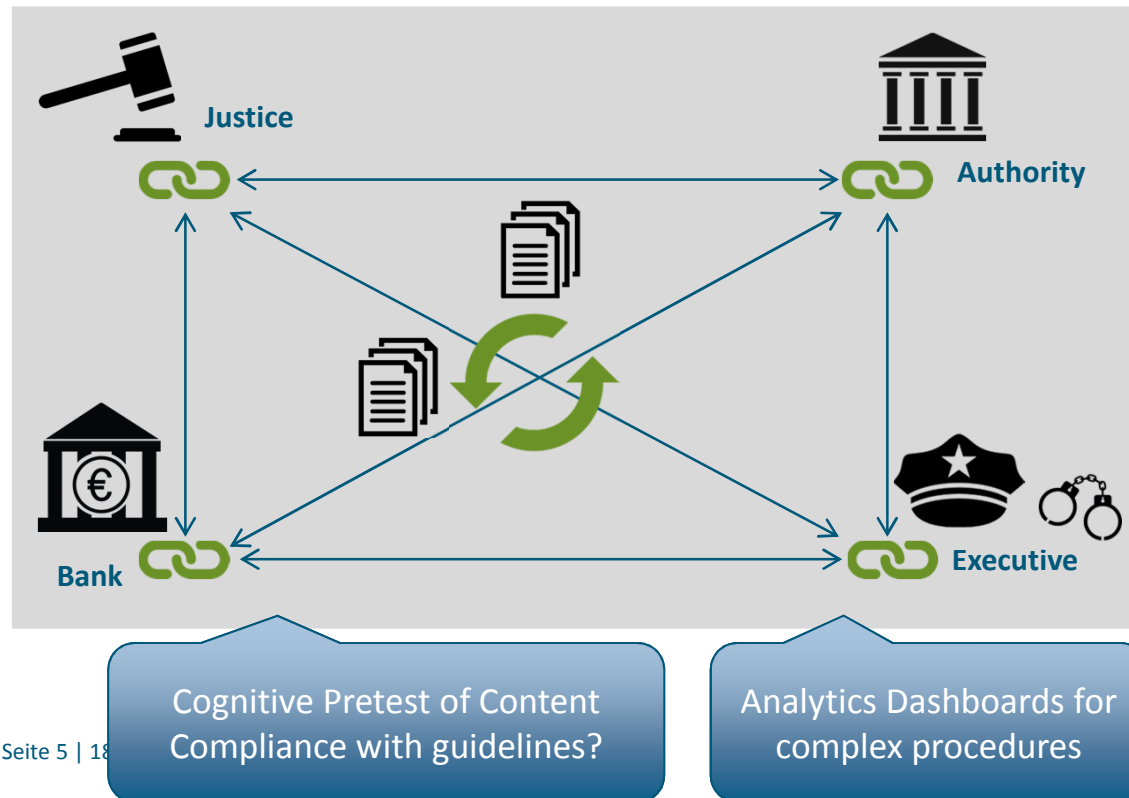
Asset-less Blockchains

Asset-related Blockchains

Tracking of Identities	Real-Time Integration of multiple Organisations	Lean Payment Systems	Virtual Certificate
 <ul style="list-style-type: none"> Food Origin „Steak secured by Blockchain“ Securing a process e.g.: „eZustellung“ Local/ EU-wide fault proof register „Das Blockchain-Grundbuch“ From eParticipation to eVoting Controlling by Analytics & Big Data 	 <ul style="list-style-type: none"> Data Aggregation e.g.: for „Großstrafverfahren“ International Corporation e.g.: regarding „Multipler juristischer Zuständigkeit“ Cognitive Analytics for Pre-Screening/ Content Analysis for confiscation 	 <ul style="list-style-type: none"> Integration of refugees and/or longterm unemployed via „Social Coins“ Helpdesk Ticket Systems Analytics & Big Data for Controlling <ul style="list-style-type: none"> Analysis of payment flow Audit proof 	 <ul style="list-style-type: none"> Deployment in Customs: „BC Zertifikat“ for valuable export goods, art, export documents etc. Analytics & Big Data for Controlling <ul style="list-style-type: none"> Dashboards for Tracking Audit proof

Real Time-Aggregation of Data

New Findings regarding Major Criminal Procedure



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Key Facts

- Usage: Asset-less Blockchain
- Distribution: Community Blockchain

Procedure

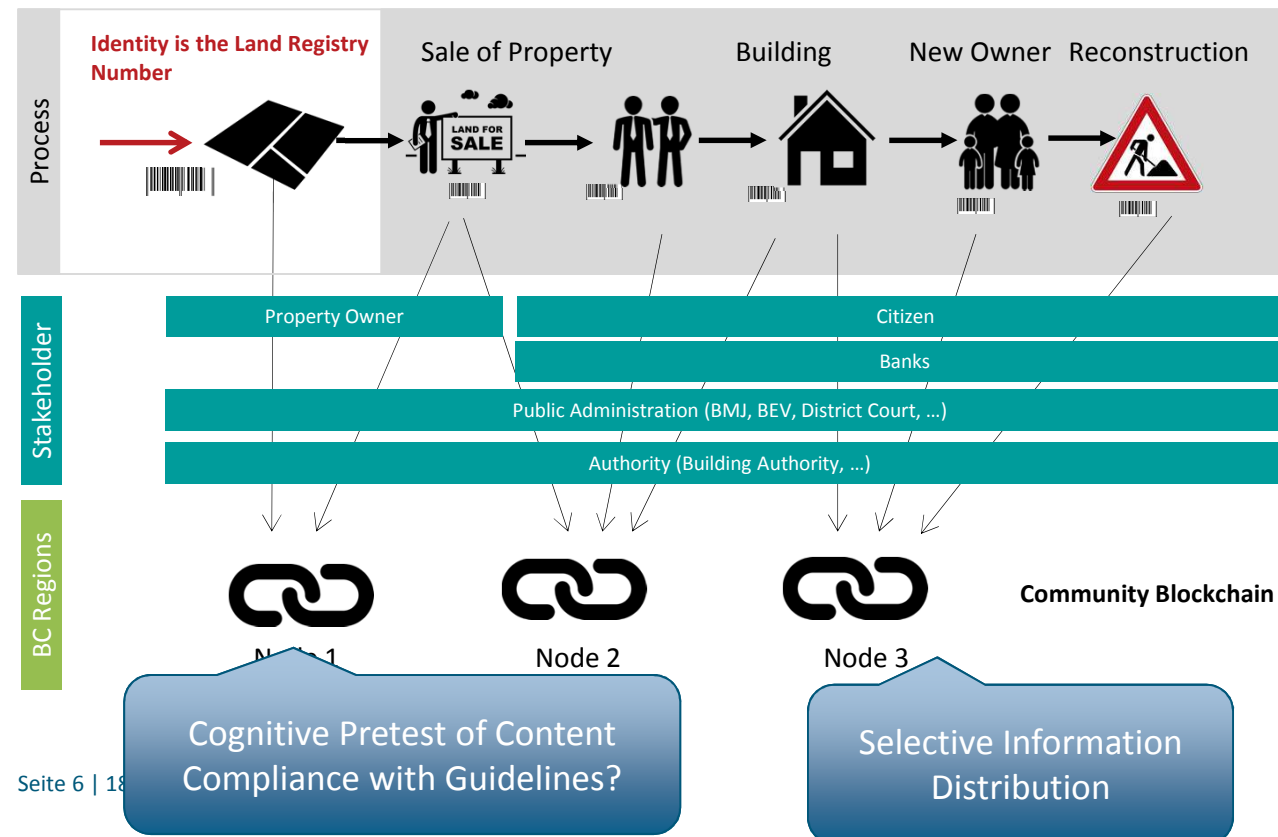
- banks, public institutions, justice, etc. are using Blockchain for real time-synchronisation of data and information
- Background: single activities are often not punishable or can not be identified as crime (without context)
- Potential Node-Holder are banks and insurances, authorities and ministries

Business-Benefits

- Data-Aggregation determines correlations (including their chronological order)
- Identification of criminal activity, and therefore their prosecution becomes easier

The Blockchain Land Register

Redefining the Real Estate Business



Key Facts

- Usage: Asset-less Blockchain
- Distribution: Community Blockchain

Procedure

- Property receives an ID, which is trackable throughout the entire life cycle
- Relevant information and documents regarding change of ownership, reconstruction, mortgage, rights of lien, etc. are written into the Blockchain

Business-Benefit

- Digital counterfeit proof Land Registry

What's next?

BRZ

Inform - Analysis - Test

Deep-Dive Workshop

Duration: 0,5-1 day

- > Technical Foundation (BC Types, Methods of Consensus , Blockchain from DB-view, etc.)
- > Added value of Blockchain from a business perspective
- > Interactive Development of Use Cases

Proof of Concept

Duration: at least 4-8 weeks

- > Detailed analysis of an Use Case regarding Process, Stakeholder, Parameters and crucial success factors
- > Technical basic concept and ideation of business cases

Pilot Run of Use Cases

Duration: at least 8-12 weeks

- > Technical Realisation of an Use Case with the Open Source Product Multi Chain
- > Subsequent Pilot Operation incl. Operational Test

> Heads of Digital Transformation

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