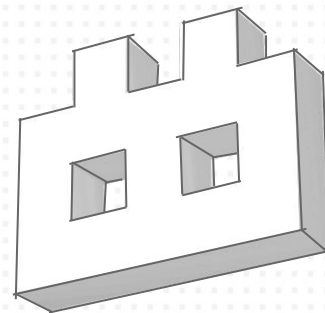# BLOCKFACTORY

Blockchain made enterprise-ready

BlockFactory framework and use cases

Zürich, May 2019

About us

Key facts

- Founded in 1997

- Active in the blockchain space since 2012

- 37 digitalisation and blockchain experts based in Zug and Zürich

Award-winning projects

Finalist of the Kickstart Accelerator program 2016 (GateChain)
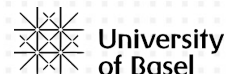
Finalist of the IATA Innovation Award 2017, Abu Dhabi (GateChain)

Winner Swiss FinTech Award 2018, Early Stage (Proxeus)

Selected clients and partners

Blockchain made enterprise-ready
Realize value quickly through our modular approach

BlockFactory

Application

Blockchain plugging for traditional systems or a standalone app

Middleware
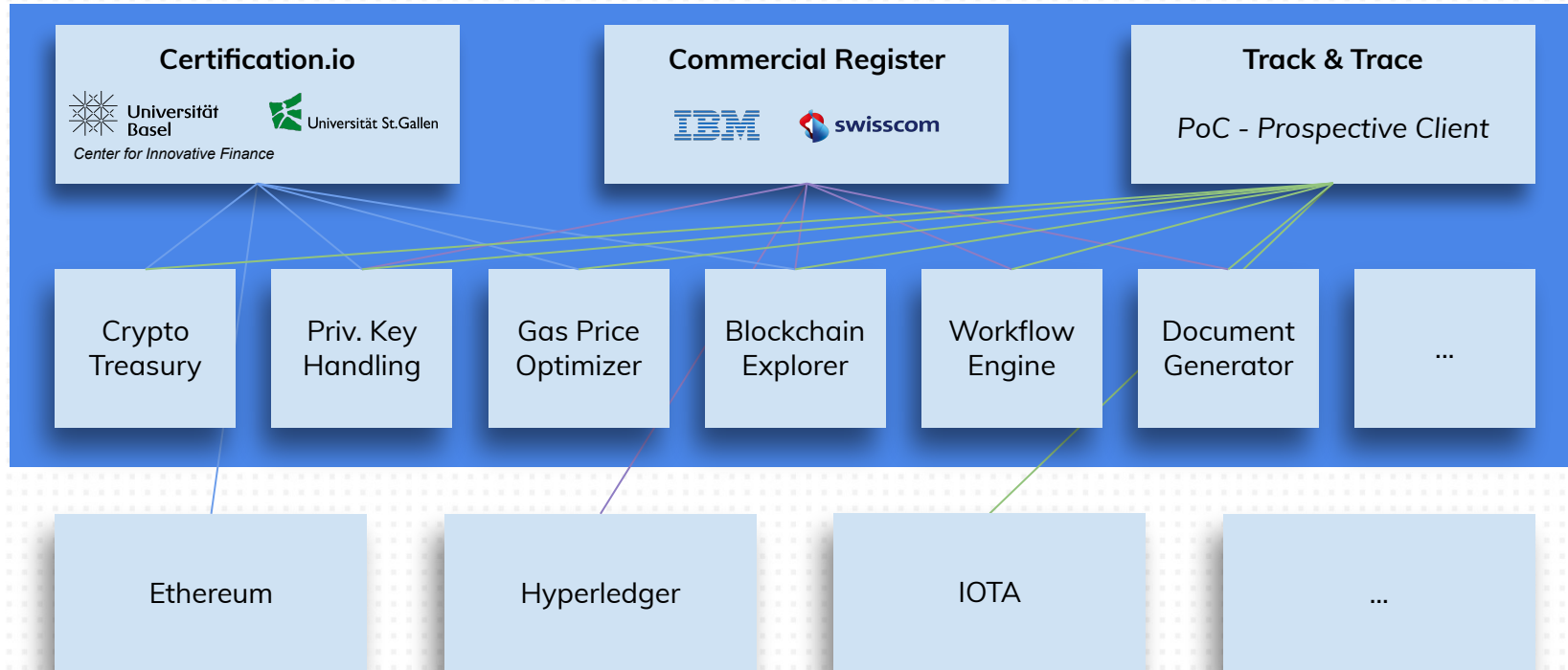
Modular, blockchain agnostic building blocks

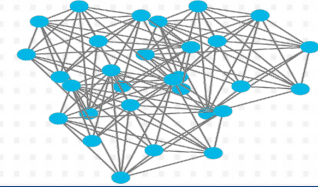**Blockchain**

Blockchain made enterprise-ready

Realize value quickly through our modular approach

BlockFactory

Certification.io

Universität Basel — Center for Innovative Finance

Universität St.Gallen

Commercial Register

IBM

swisscom

Track & Trace

PoC - Prospective Client

| Crypto Treasury | Priv. Key Handling | Gas Price Optimizer | Blockchain Explorer | Workflow Engine | Document Generator | ... |

Ethereum

Hyperledger

IOTA

...

Choosing the right technology for your use case

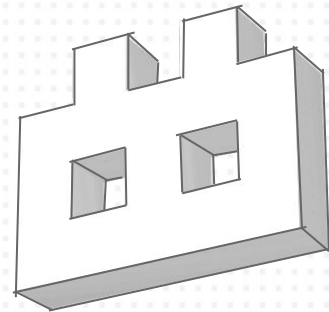|	Traditional Database	Private Blockchain	Public Blockchain
Example	ERP	Hyperledger, Ripple, …	Bitcoin, Ethereum, …
Member	Company	Consortium	Public
CRUD	Create, Read, Update, Delete	Create & Read	Create & Read
Performance / Speed	High		Slow
Cyber Security	Hacked on a daily basis	Medium - depends on consensus algorithm and number of nodes	Ethereum has never been hacked
Resilience	Single point of failure		7'000 Ethereum nodes worldwide
Transaction Cost	No	No	Yes
Infrastructure Cost	Yes	Yes	No

Blockchain Use Case Assessment tool

Source: https://medium.com/blockchain-fanatic/blockchain-and-digital-certificates-d9d6f6ad9008

6
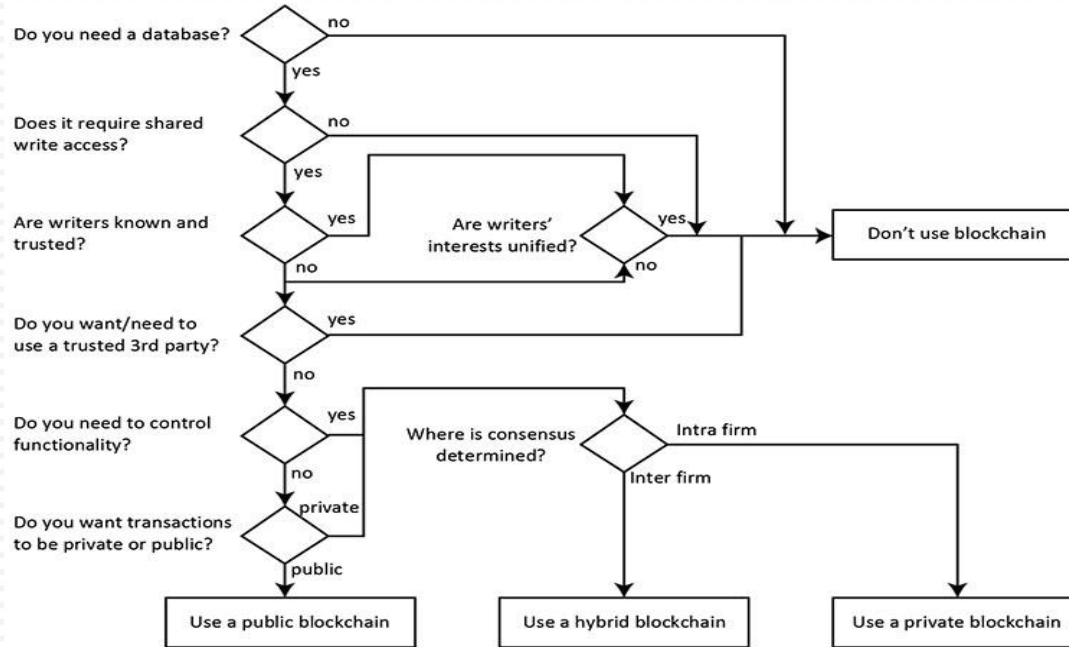
Real Life Implementations

The BlockFactory Framework applied

Blockchain Certified Documents
Bring back trust by making documents tamper-proof
and easily verifiable on the blockchain.

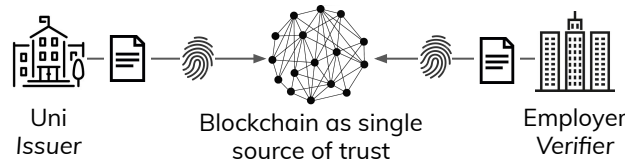# Blockchain certified documents
Example - university diploma

Problem

"Worldwide, 30% of senior executives present qualifications they do not hold."
Source: UNESCO

Verifying a uni diploma is complicated & costly
- *60-90 min handling time per request*
- *2 weeks average waiting time per request*

Our Solution

Uni
Issuer

Blockchain as single
source of trust

Employer
Verifier

Free Trial : https://certifaction.io/

Early Adopters

University
of Basel

Center for
Innovative Finance

BITCONTENT.CH

Universität St.Gallen

n|w

Value Added

Protect your reputation
Secure your document's unique fingerprint on over 7'000 worldwide Ethereum blockchain nodes.

Save time & money
Empower employers to verify a diploma directly on the blockchain to shorten the verification process from days to seconds.

Blockchain made simple
NO installation, NO crypto trading or treasury, NO gas price payments, NO private key management
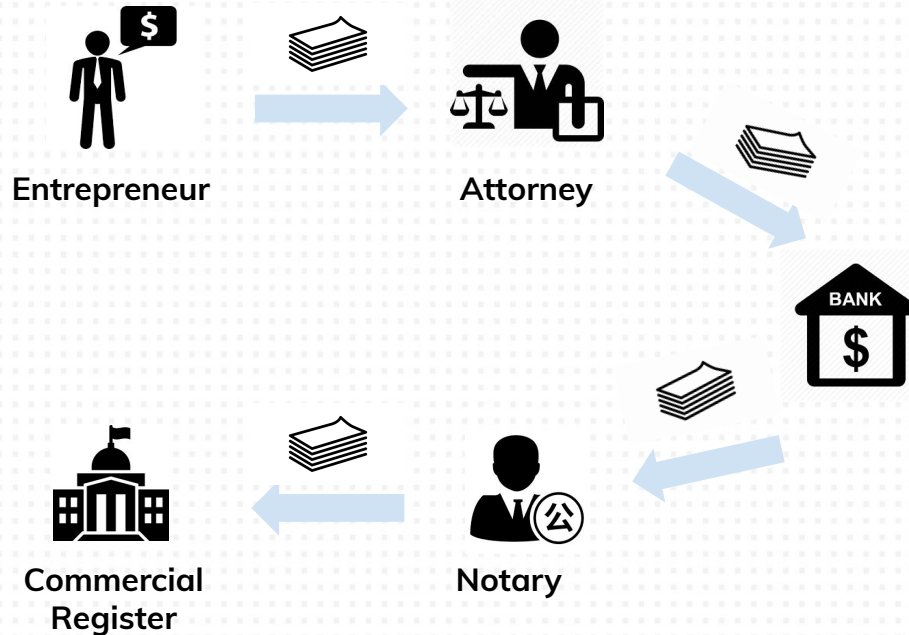
Potential Application

- HR: Reference letter
- Healthcare: Prescription
- Luxury goods: Certificate of authenticity
- Pharma: Certificate of auth-enticity, auditable clinical trials
- …

**Digitalization of an Ecosystem**

Example: Commercial Register

Pain points - Legacy Incorporation Process

Entrepreneur

Attorney

BANK

$

Commercial Register

Notary

Pain points

- **10 days** to incorporate a company in Switzerland - rank 56 in the WEF Global Competitive Report 2017 - similar to D.R. of Congo or Morocco

- **Paper-based process** with media discontinuities between the parties

- **Costly legal verification** of every single aspect of a ca. 30 pages legal documents

Solution - Digitalization of the E2E Process

Entrepreneur

Attorney

BANK

Comm. Register

Notary
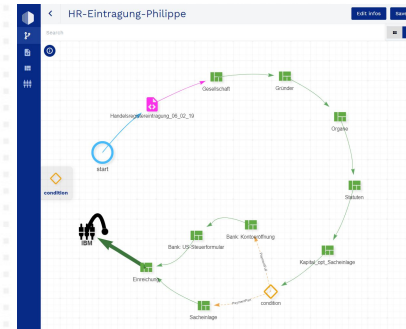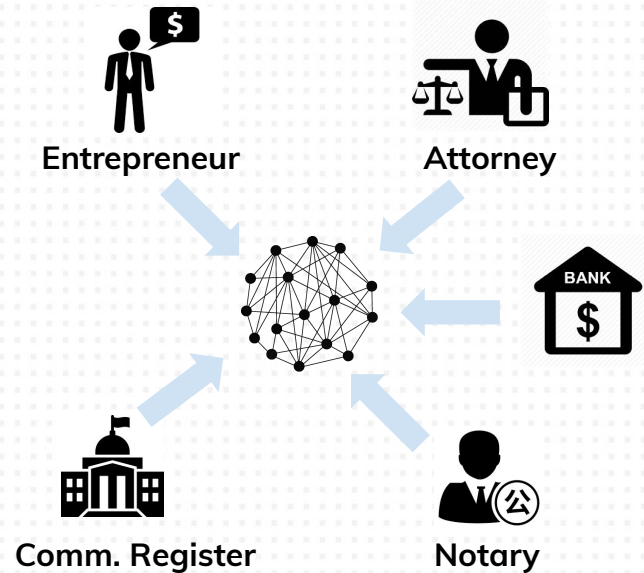
Proxeus

- Customizable workflow engine - No programming knowledge needed (WordPress for BC)

- Automated user interface gen.

- Automated document gen.

Added Value - Digitalization of the E2E Process

Entrepreneur

Attorney

BANK

Comm. Register

Notary
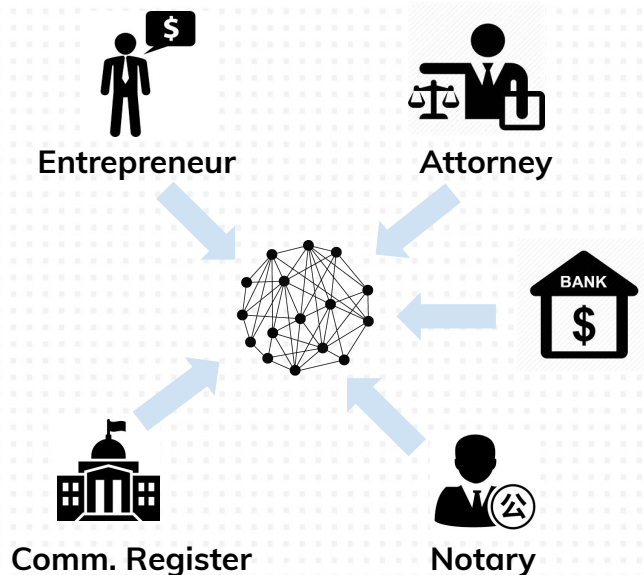
Added Value

- **New speed record** - 1h 37min to incorporate a company in Switzerland

- **E2E digitized workflow** without media discountinities

- **Automated legal verification**
  - Automatic error checks
    (e.g. min capital requirement)
  - Use of > 90% pre-verified text modules

- **Enhanced trustworthiness, cyber security and resilience** due to blockchain

Thank you!

Leoni Runge
Chief Product Officer
leoni.runge@blockfactory.com
+41 (0)78 670 03 80

Stefan Bollier
Chief Financial Officer
stefan.bollier@blockfactory.com
+41 (0) 76 563 4336