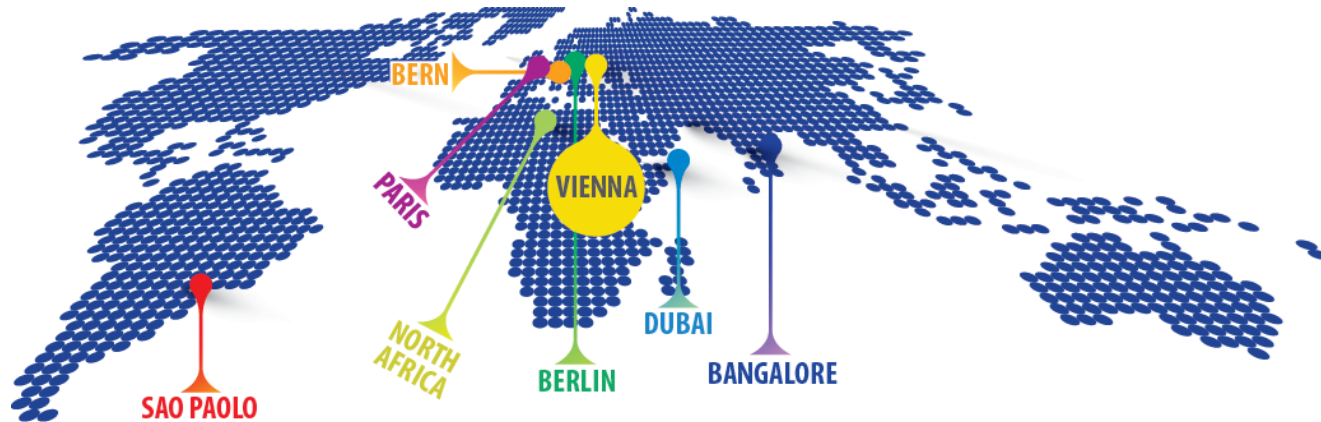


Blockchain based AI & IOT Solution for Smart Cities

Stefan Strobl

RISE Overview

- World class IT engineering company, R&D in IT
- Spin Off: Vienna University of Technology, founded 1987
- >300 Top-level IT-engineers & Architects
- Highly acknowledged R&D-enterprise in Europe
- Long history in payment, banking IT and integration projects
- Funds TU Vienna „Industrial Software“ Group as its Think Tank
- Working across Europe as well as globally on Projects for our Customers



Combining Industry and Science

RISE the **Do-Tank**

More than 400 specialists focusing on Design, Development, Installation, and Operation of secure, usable, fast IT environments.




INSO at TU Vienna the **Think-Tank**

More than 100 scientists focusing on research, concepts, revision, and specification of secure and usable IT environments.



Free information exchange and frequent conjoined projects result in a high-quality mixture of state-of-the art and best practice solutions

RISE inside - rough (daily) operatives



> 20 mio passengers / year

National Airport Solution



> 1 bill. transactions

Health Insurance System
Austria / Germany



> 30 mio tickets / year

Railways
Nation-wide



connecting
600 banks and
3 MNOs

Mobile Debitcard
Mobile Channel
Nation-wide



> 30 mio push messages

Post AG



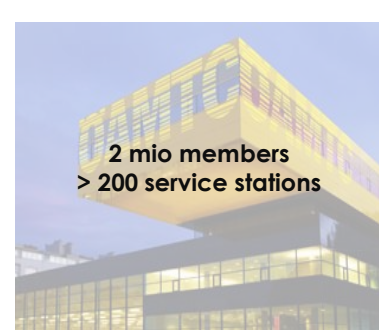
AirKey

Multiply awarded security system

EVVA access to security

Gratis-Software mit Pay per key

IIoT mobile
Lock System



2 mio members
> 200 service stations

Automobile Club
Driver2Driver



and relevant leading edge
global services/ experiences

Poker Stars
Volkswagen
Sport-Data

“

Top-down governance approaches are gone for good and we need to shift the relation between city governments and residents taking it one step further.

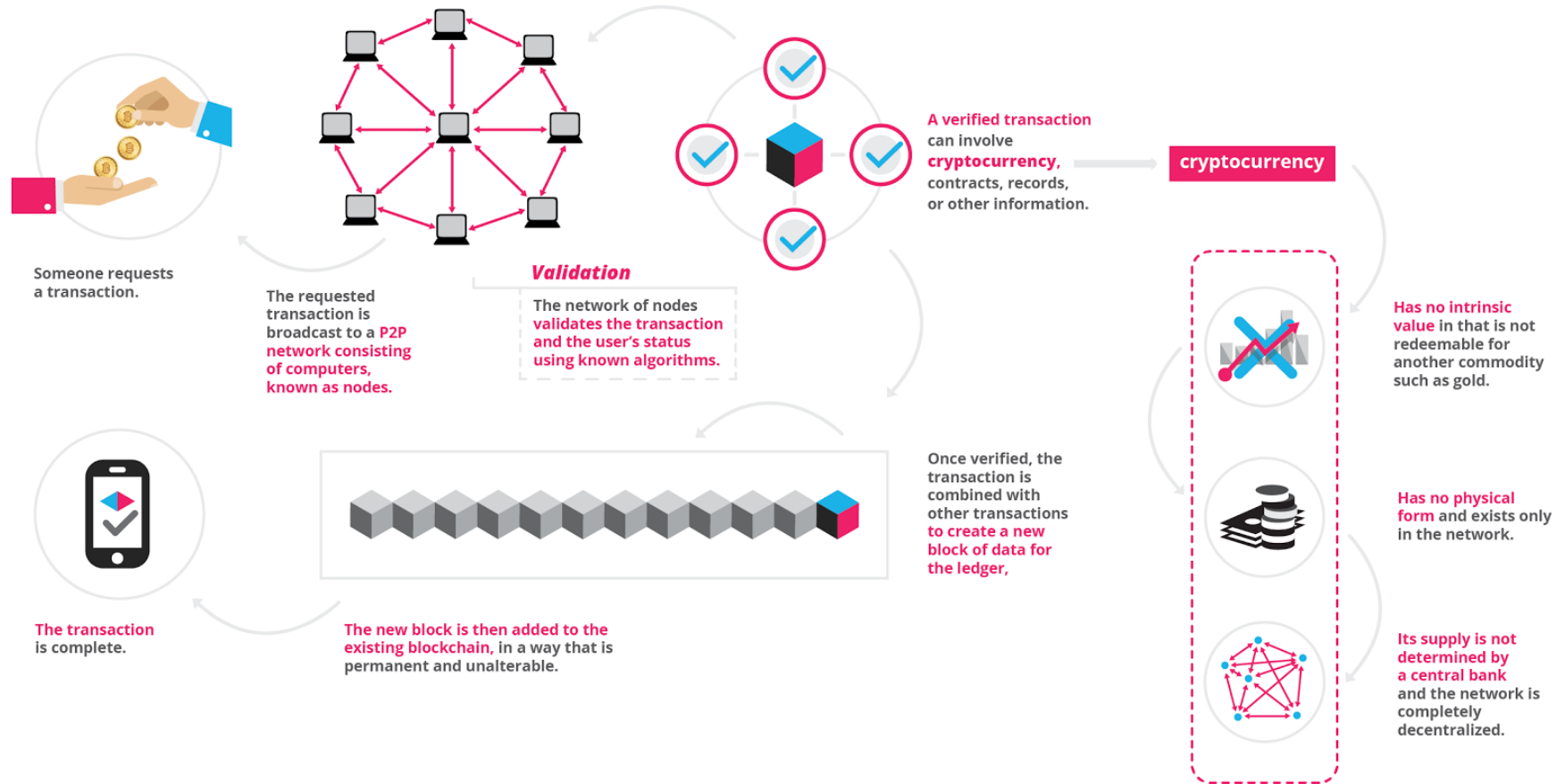
Ugo Valenti, director Smart City Expo World Congress 2017

”

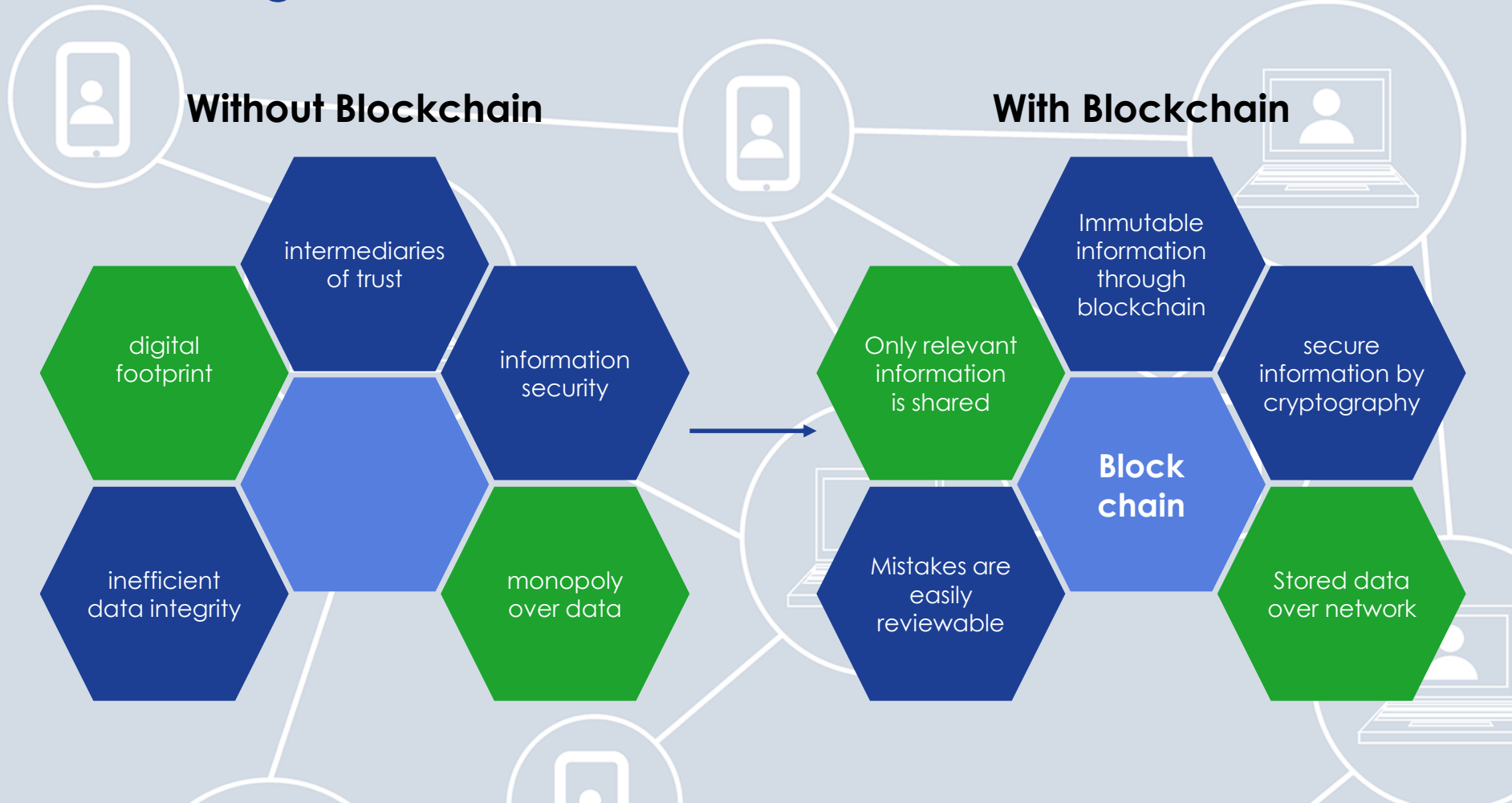
Smart City Strategy



Blockchain explained

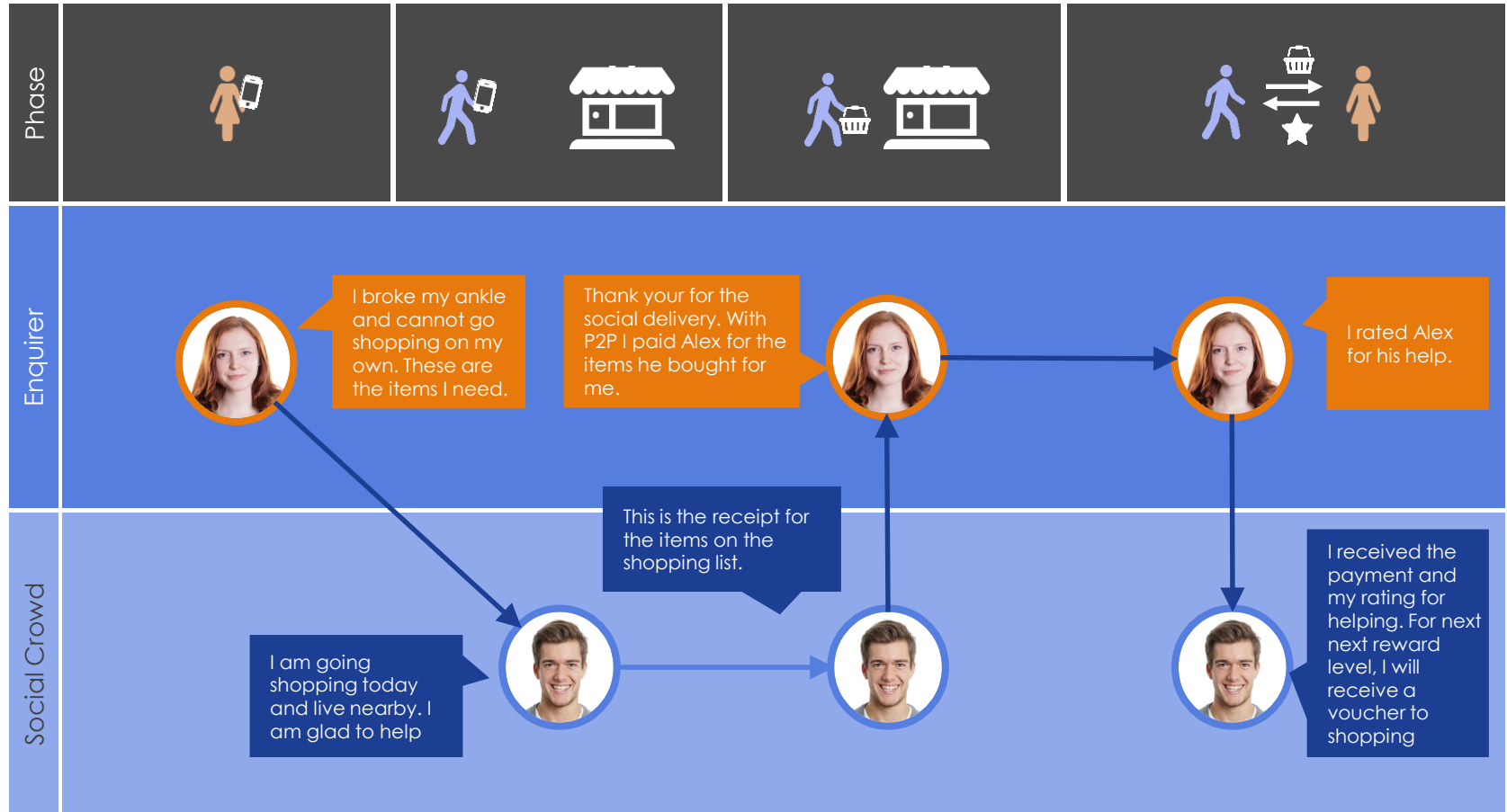


Advantages of Blockchain

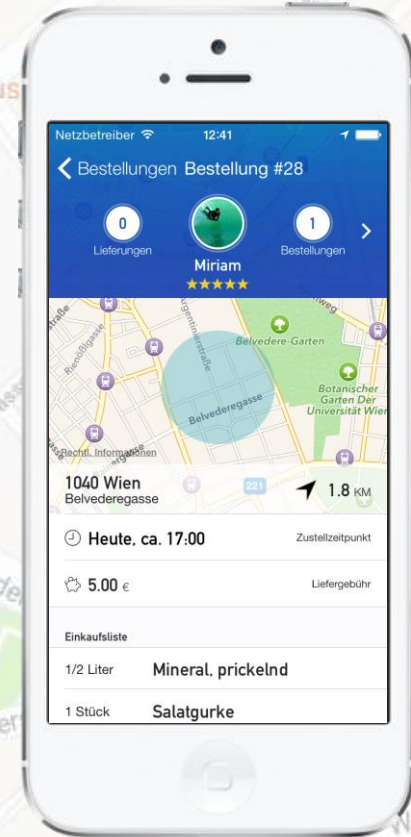
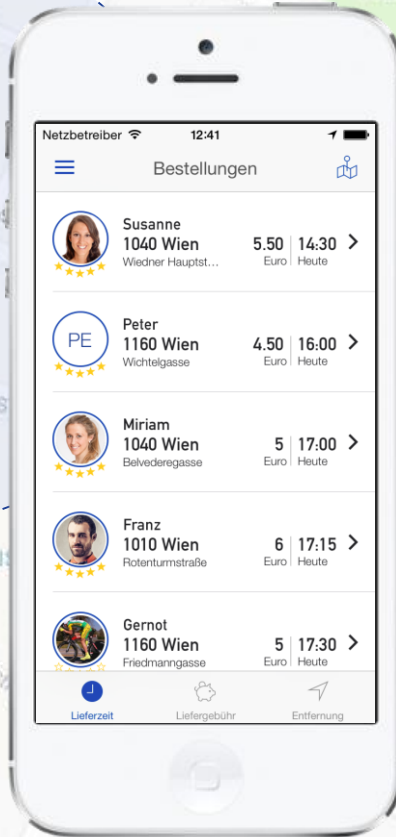
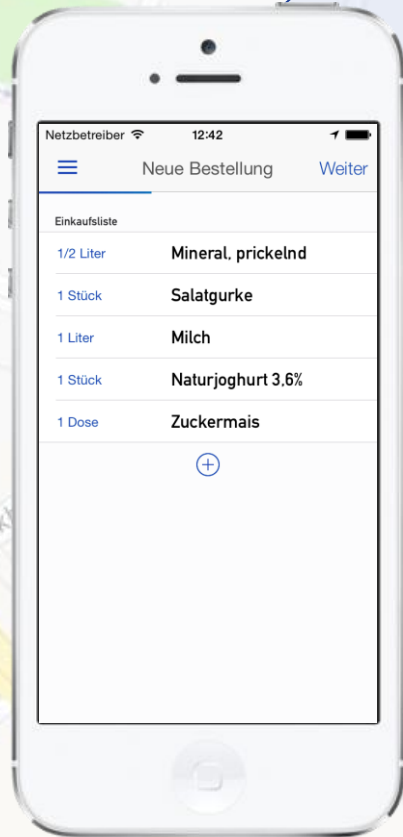


Community Building

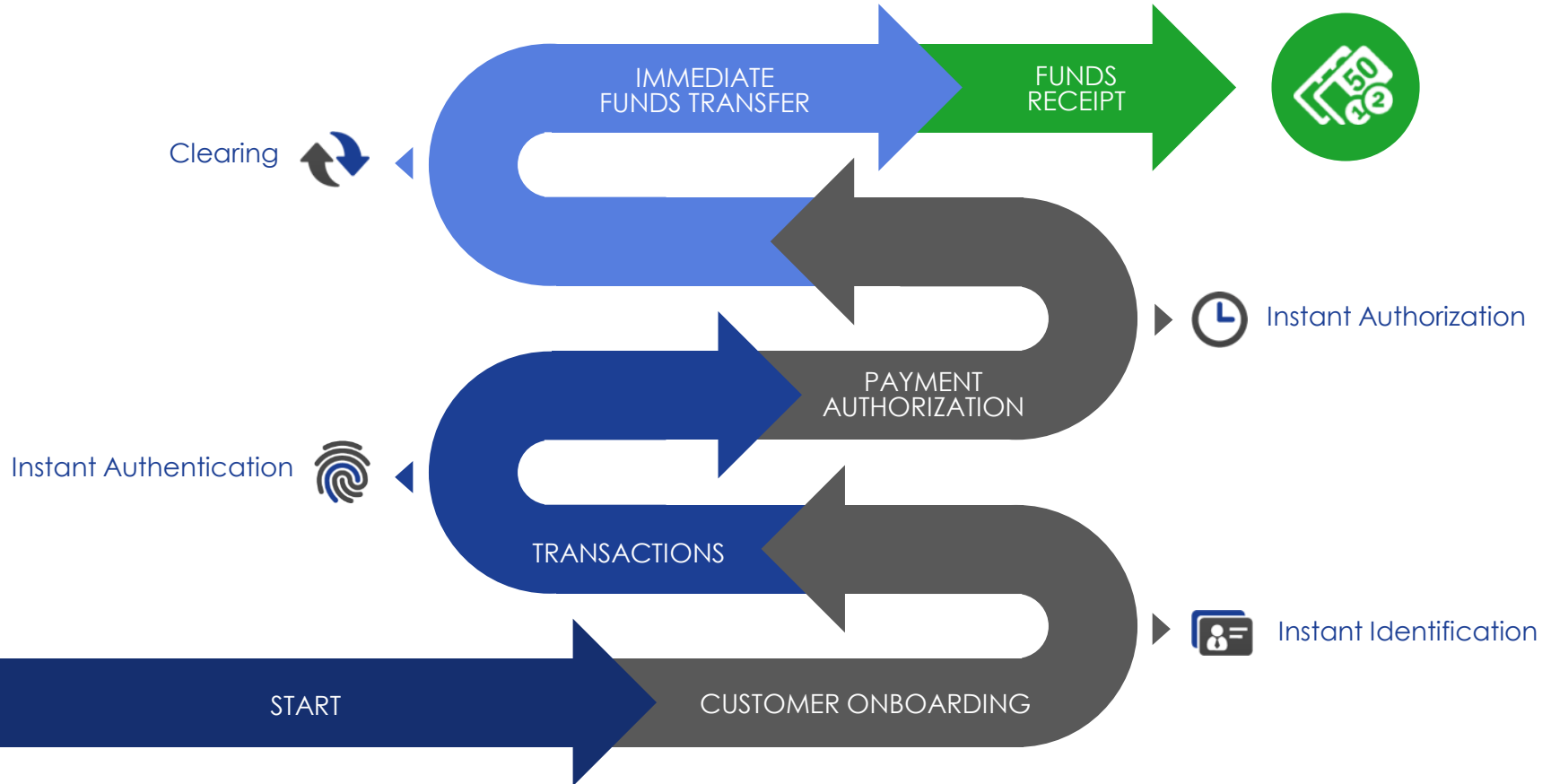
Social Delivery via Blockchain



Social Delivery Shopping Service – Screenshots



Seamless transition from Community Building to Payment and Reward

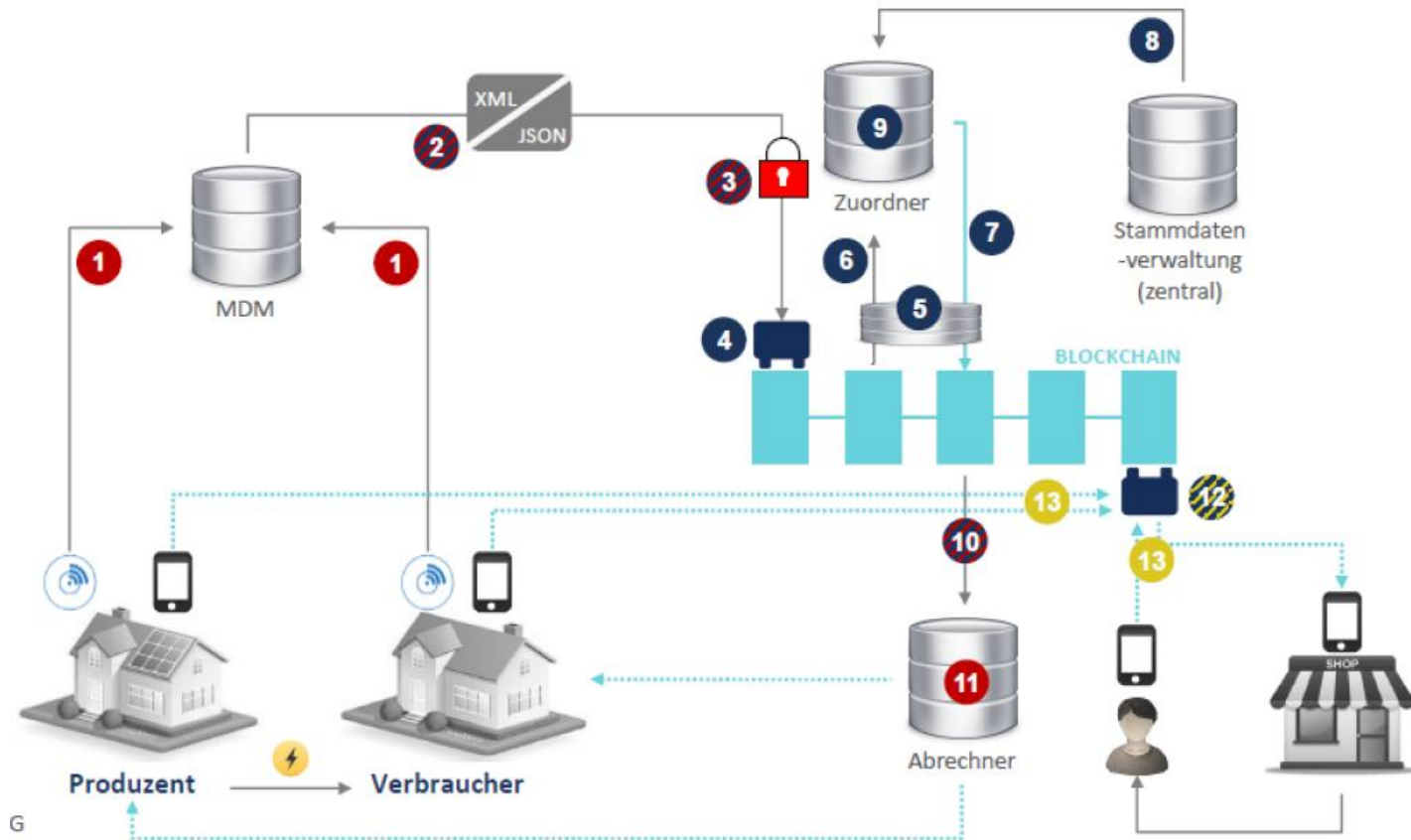


Resource management

FAIRENERGYFUND – Fair Energy Exchange

- Today electricity is not created by only large energy corporations but by individuals
- To motivate more individuals to create sustainable energy in the city, the government has to create a fair and transparent exchange infrastructure
- FAIRENERGYFUND is a Blockchain based exchange platform, where
 - Individuals AND corporations can SELL energy based on the actual energy pricings on the market
 - Individuals AND corporations can BUY energy based on a variable contract form
- The market gains more transparency for both sellers and buyers
- Buyers profit from a fully variable smart contract with variable pricing, which are not dictated from large energy corporations

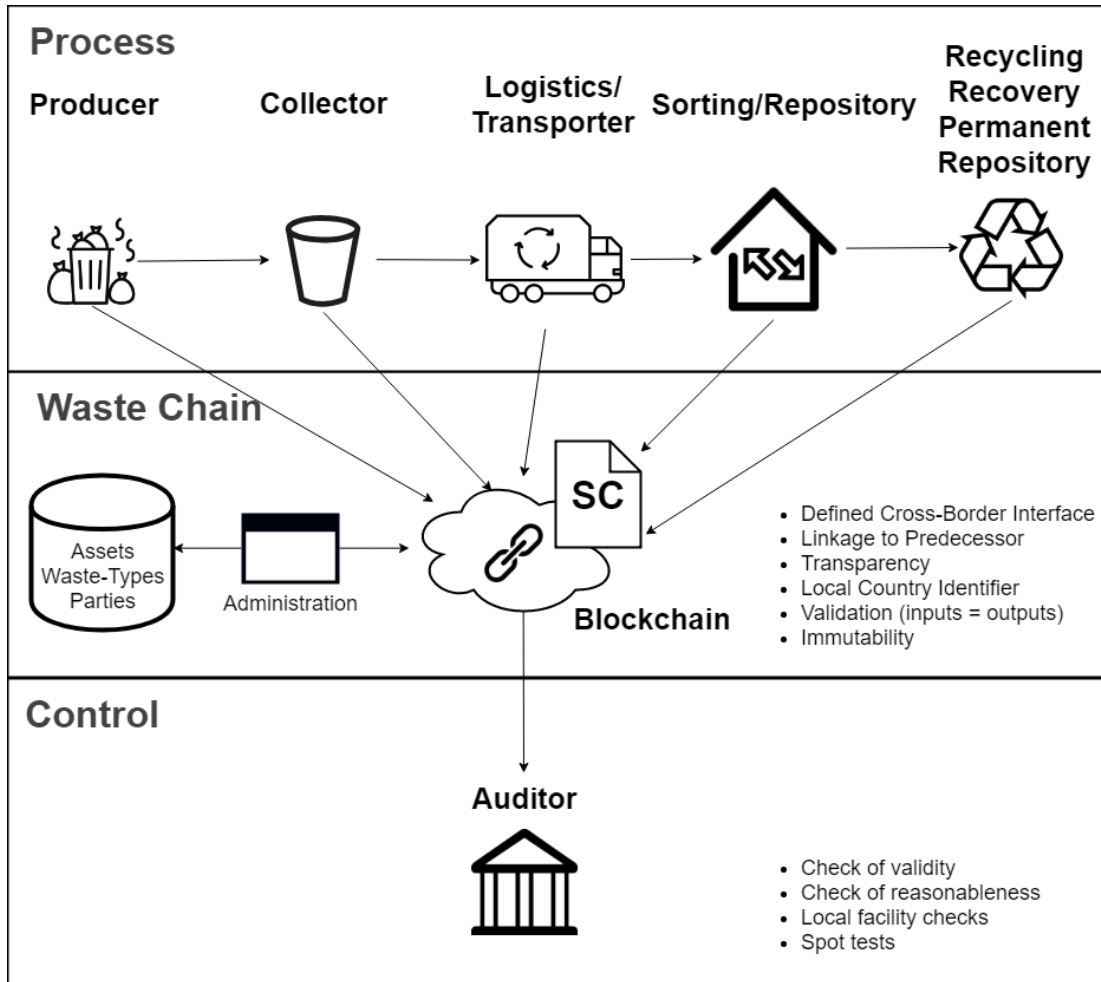
Schematics of a Blockchain-based energy trade



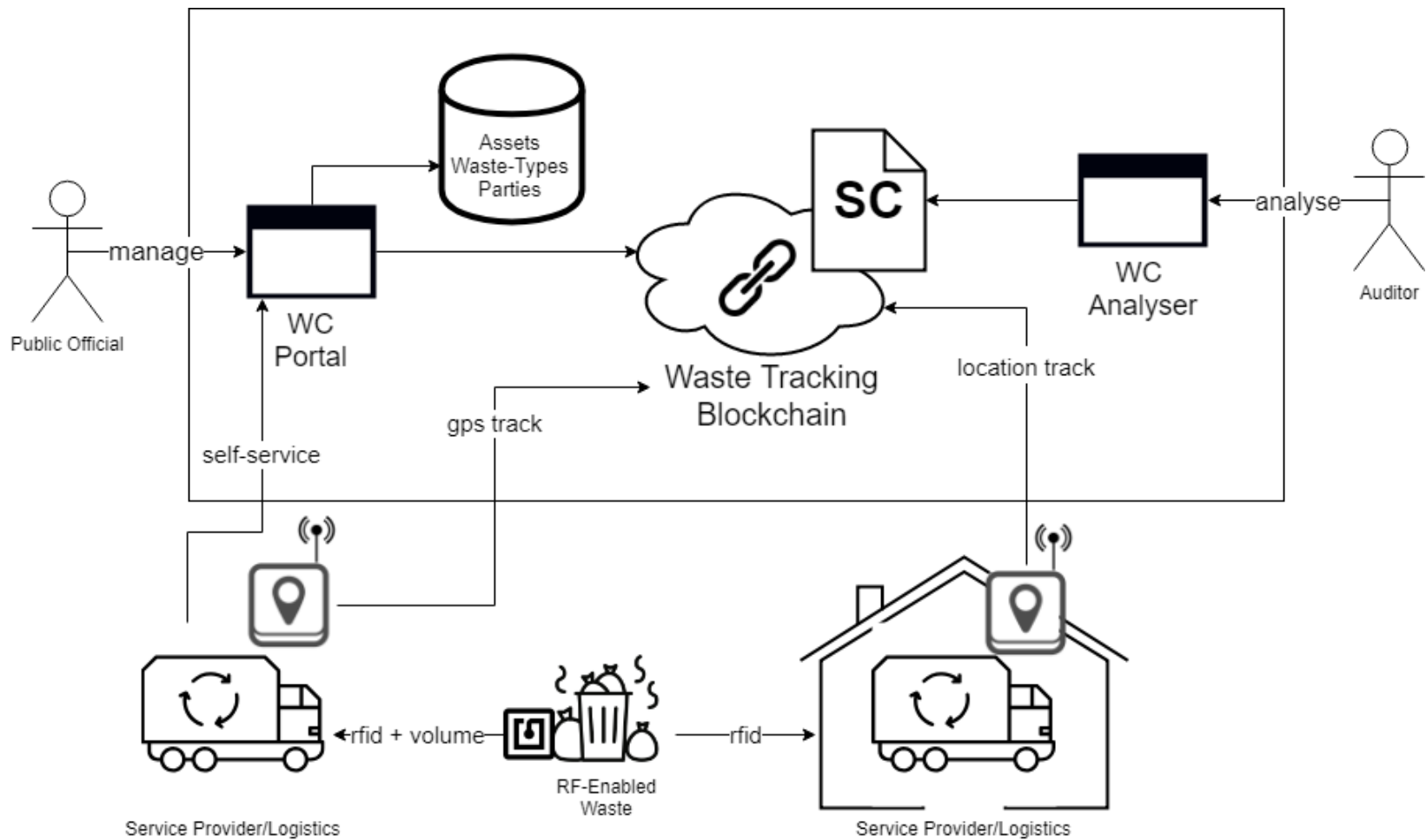


WASTECHAIN

A central or regional innovative, state-of-the-art Waste-Asset-Platform and Waste Tracking System, “Conservative Central” or “Blockchain-Based” if needed.



- Defines, and stores entities involved
- Stores assets, such as landfills, repositories etc. involved
- Local Waste types and translations of waste types
- Stores a log of all executed process steps with timestamps and waste types, assets and parties involved



Collection Waste Reduction Instant Gratification



*User initiated
Recycling Bonus
Transaction
by using Smart
Recycling Bins*



*Recycling
Bonus
Transaction*

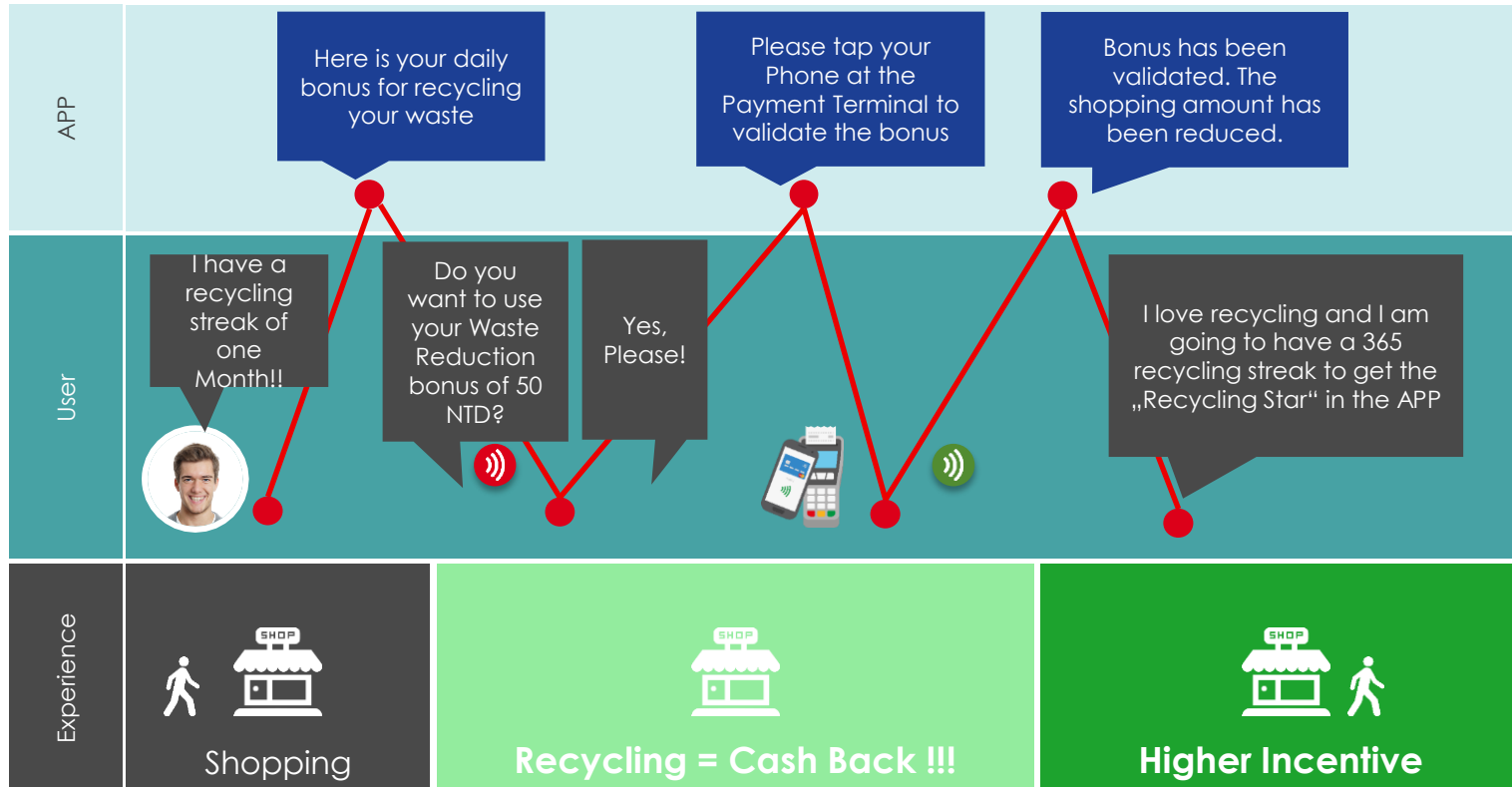


*Recycling
Bonus*

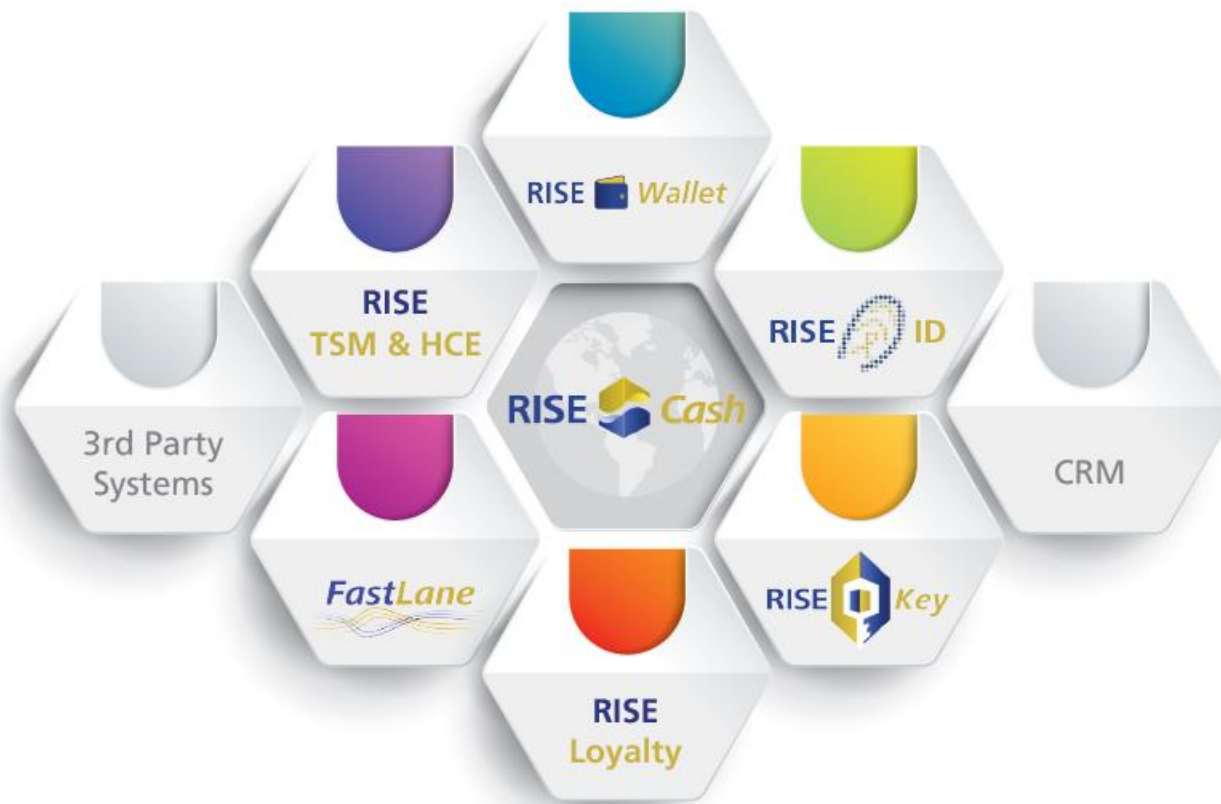
*as Bonus
Point,
Voucher, or
Cashback*



Waste Reduction Instant Gratification Experience



RISE Cash Portfolio – enabling Smart City



Summary

- The initial challenge lies in establishing the basic infrastructure and nurturing communities on it.
- Blockchain can be applied in a SmartCity context to enhance trust.
- Blockchain enables transparency and democratises the data
- We are currently looking for partners that are interested in exploring possible applications in the area.

THANK YOU

Contact

Research Industrial Systems Engineering (RISE)

Forschungs-, Entwicklungs- und Großprojektberatung GmbH

Concorde Business Park F

2320 Schwechat, Austria

Mail welcome@rise-world.com

Tel +43 1 9049007-0

Fax +43 1 5057473

Web www.rise-world.com



