

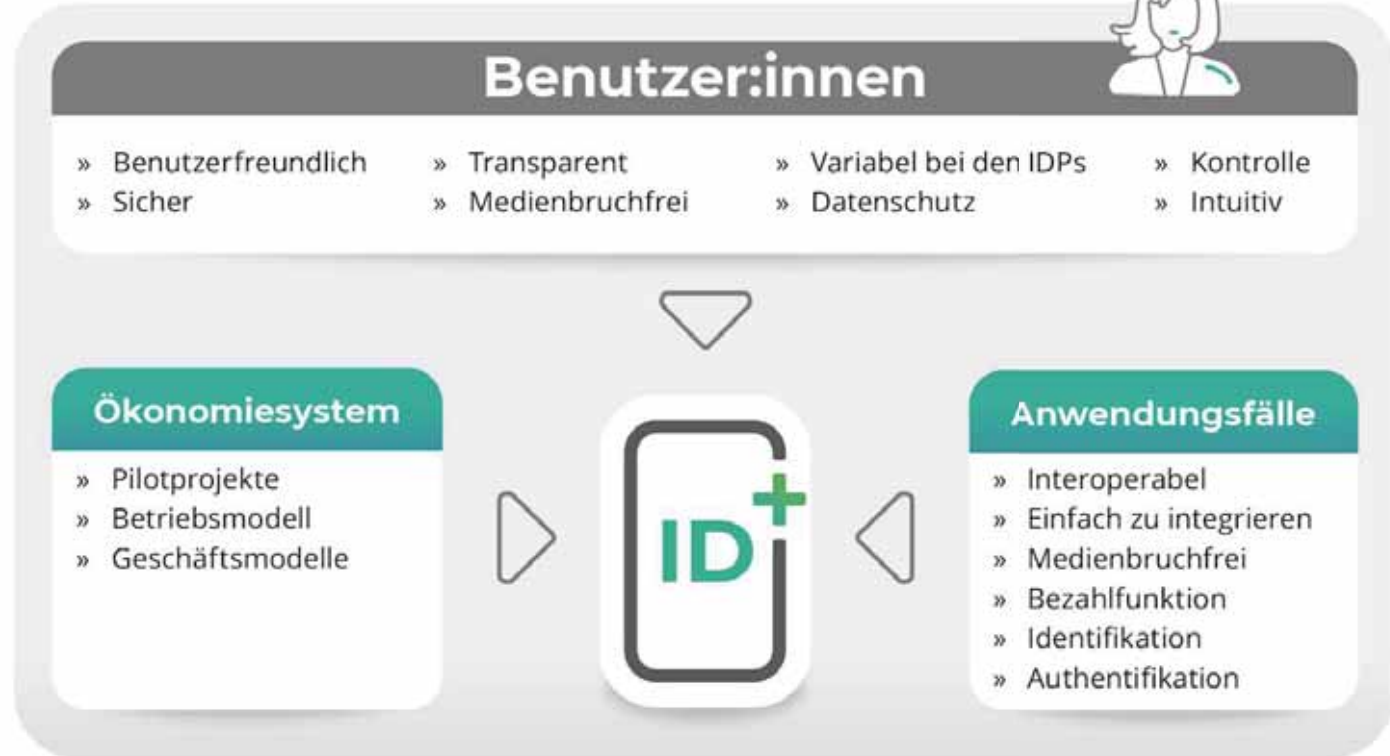
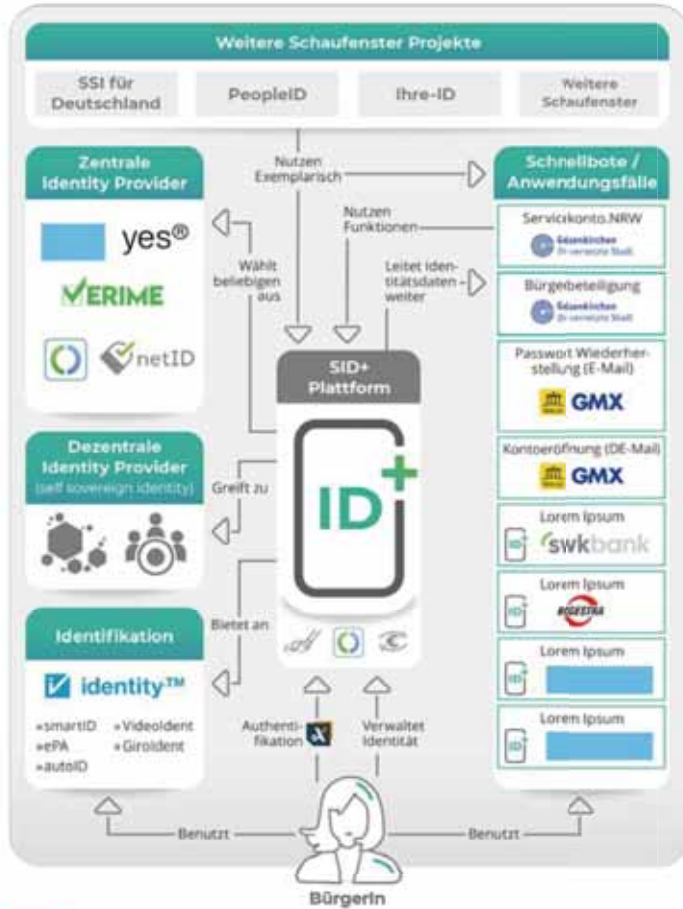


Easy. Secure. Truly Passwordless.

# Smartphone based authentication for **any** purpose

A hand holding a smartphone displaying the XignIn Login app interface. The screen shows a city street scene with various app icons overlaid: an airplane, a cloud, a building, a ticket, a camera, and a medical symbol. At the bottom, there is a white button with the text 'XignIn Login'.

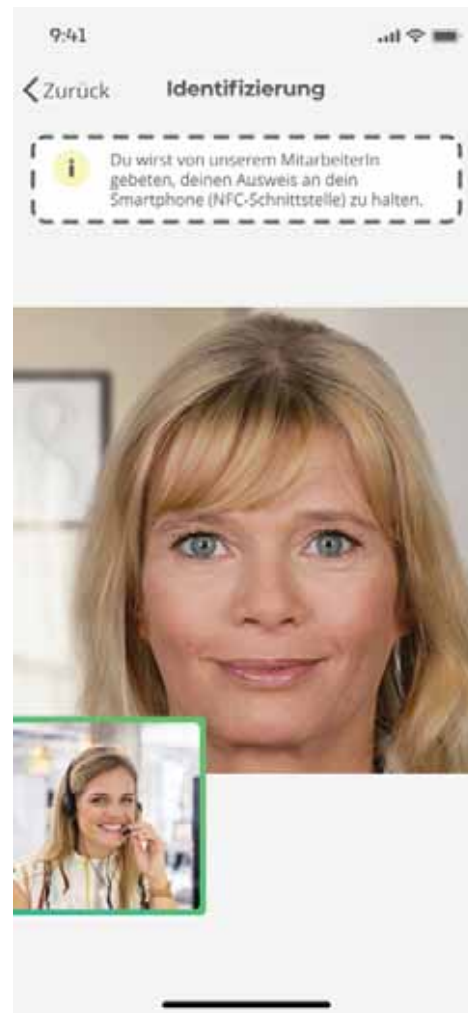
XignIn Login



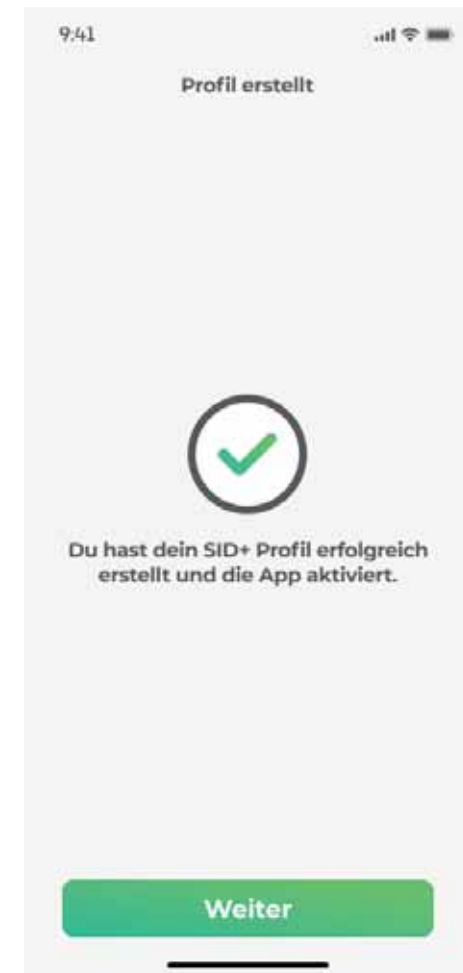
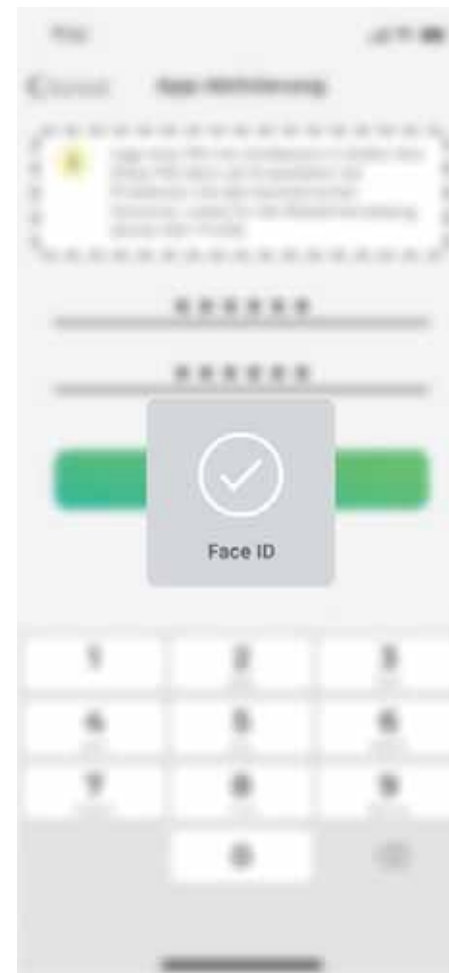
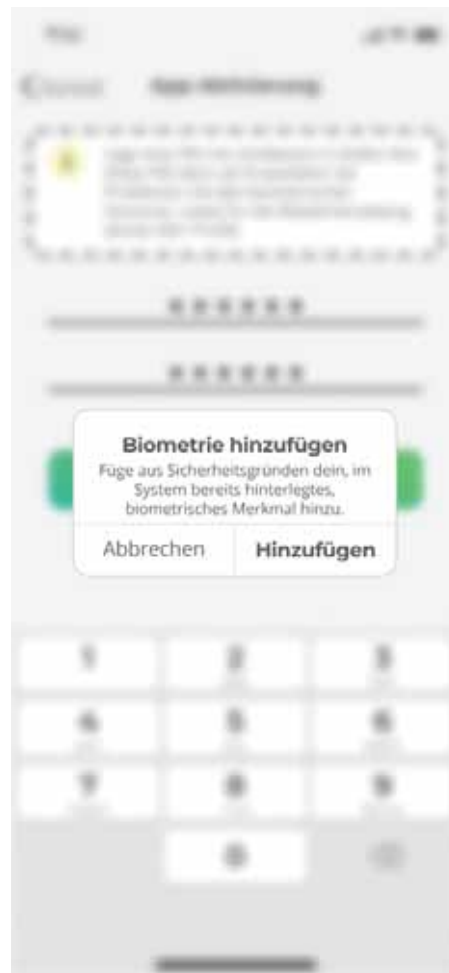
## Example of first identification via „eID supported Video Ident“



## Example of first identification via „eID supported Video Ident“



## Example of App activation





## Management Board

The XignSys management team combines technology and research with business and operations excellence.

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### Markus Hertlein

- **Founder and Chief Executive Officer** (M.Sc. in IT security)
- ~15 years of experience in IT security research and technology development and as international speaker
- Focus on strategy, business development, public relations and project management



### Pascal Manaras

- **Founder and Chief Technology Officer** (M.Sc. in IT security)
- ~15 years of experience in IT security research, system integration and software development
- Spearheads the company's software development



### Lars-Oliver Schröder

- **Chief Sales Officer** (Master of International Business)
- 15+ years of experience in the buildup of sales organizations within larger scale (technology) companies
- Responsible for sales & marketing
- Proven track record in Europe and Asia



### Stefan Schulz

- **Chief Product Officer** (Diplom-Kaufmann, Diplom-Volkswirt)
- 20+ years experience in IT and software product strategy and development, quality management
- SAP veteran with multiple years on SAP's supervisory board and as head of SAP founder Hasso Plattner's office
- Most recently head of SAP's Government Security Program and member of SAP's security leadership team
- Brings extensive network and experience within the field of scalable technology solutions



### Carsten Becker

- **Chief Financial Officer** (Diplom-Volkswirt)
- 15+ experience in Finance & accounting, administration, HR and legal affairs
- Former group CFO for a listed small-cap Health IT company in Germany and executive for two group subsidiaries in the US
- Proven track record in M&A and financing transactions for both listed and private companies



## XignSys Advisory Board

The management is advised by well-known industry and IT security experts as well as veteran startup venture partners.

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### **Prof. Dr. Norbert Pohlmann**

- Chairman TeleTrust e.V.
- Board Member eco
- MD Institute for Internet-Security – if(is)



### **Willi Mannheims**

- Entrepreneur and Managing Partner at eCapital
- ESCRYPT GmbH, Secunet AG, PHYSEC GmbH



### **Dr. Conny Boersch**

- Entrepreneur and VC
- ACG AG, Smartrac, Identiv,
- Founder & Executive Chairman of the Board of Directors Mountain Partners



Problem

Digitization is limited by outdated authentication methods

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Legacy authentication methods and their variety cause huge inefficiencies, delays and dissatisfaction for companies and users

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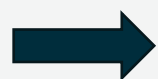
- 58% of users forget their password frequently
- An average internet user receives roughly 37 "forgot password" emails a year
- Legacy secure authentication methods are complex and cumbersome
- Only 6% of owners of ePA (elektronischer Personalausweis) can use its eID-function



Massively increased need for easy and secure authentication of identities within the digital and digital real world

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- Cyber attacks due to bad authentication
- 81% of data leaks due to stolen passwords and identity theft
- 10.1 bn+ credentials stolen and available online
- Lost credentials imply high costs for password resets
- Cumbersome login processes correlate with low user acceptance



XignSys' software as a service (SaaS) product for digital authentication combines outstanding usability with highest security and maximized adaptability



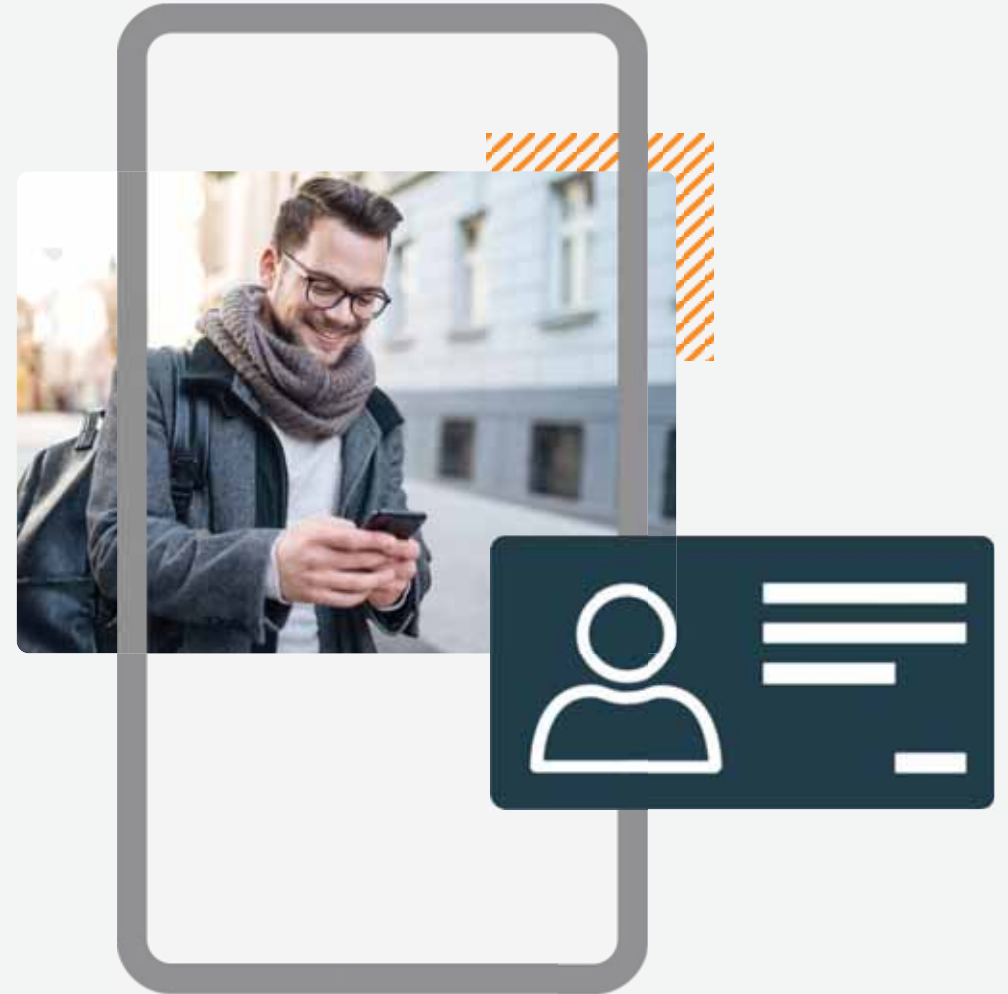
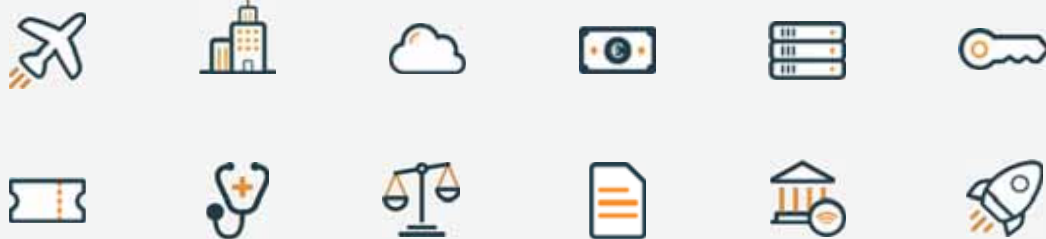


Solution

XignIn is the easy and secure authentication SaaS solution for any use case and any environment.

# Smartphone + XignIn authentication

The key to trustworthy digitization





XignSys solution characteristics - USPs

XignIn creates the highest level of security with maximized usability for the customer and the end user



#### Advantages for service provider

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- Easy rollout through existing infrastructure
- Strengthens IT-security system through highest standards
- Various authentication triggers enable high adaptability to a variety of use cases
- Eliminates IT costs for password resets
- Eliminates HR costs for service desks
- Transparent and competitive pricing model
- High conversion rates through frictionless user experience



#### Advantages for the end user

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- No stored data and data transparency
- No additional hardware
- No username and password
- No additional device or App/ Bring your own device
- No media breaks/ interruptions
- Easy and fast onboarding
- Frictionless experience
- One application for all different use cases



Product: XignIn

With XignIn, authentications can be handled securely and easily via smartphone. It replaces other hardware and ensures intuitive handling.

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### Best Usability

The clearly structured user interface and easy handling are the basis for a high user-acceptance. Automatic MFA with biometrics and without passwords.



### High Adaptability

Lean software product, adaptable for every system and every application. Multiple triggers to initiate the authentication process: QR-Code, NFC, Sound, Push, etc.



### Highest Security

Security and Privacy by Design – developed by an experienced team of long-standing IT security researchers



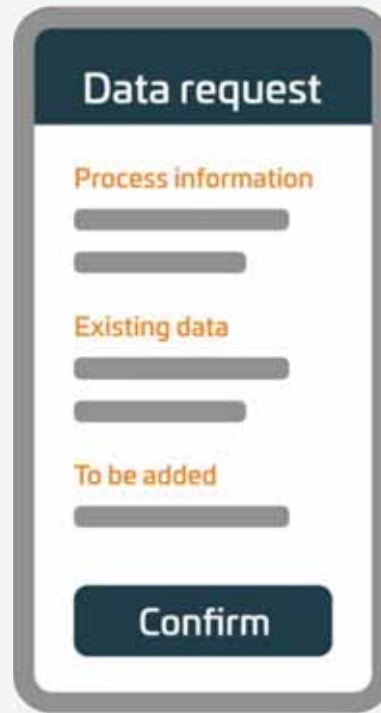
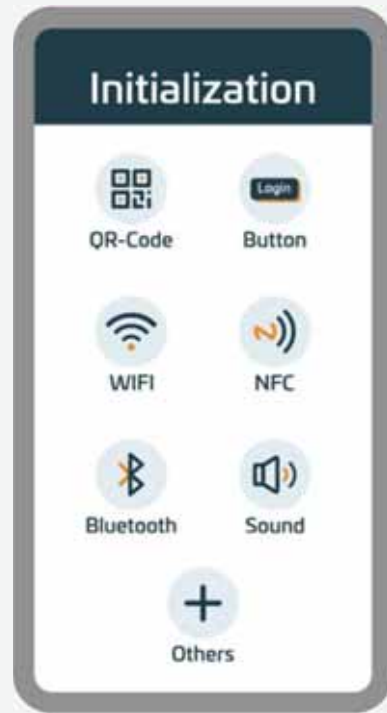
### Most Advanced Technology

Future-proof Architecture - Combines biometric features with electronic signatures. Keys securely stored on hardware security modules.

**XignIn is a smartphone-based multi-factor authentication with strong encryption and digital certificates.**

Approach: authentication process - protection against hacking, phishing and device theft

The smartphone becomes a digital identity that is used as means for communication with authorities, companies or other service providers.



**1** Initialization of the authentication process

Triggers: QR code, Button, WIFI, PUSH, NFC, ...

Easy handling

**2** Confirm the requested data attributes

AI only queries data required for the use case

High data economy

**3** Identification of the user

Biometric verification and Digital signature of authentication data

Future-proof security level

**✓** Authentication completed

For all use cases

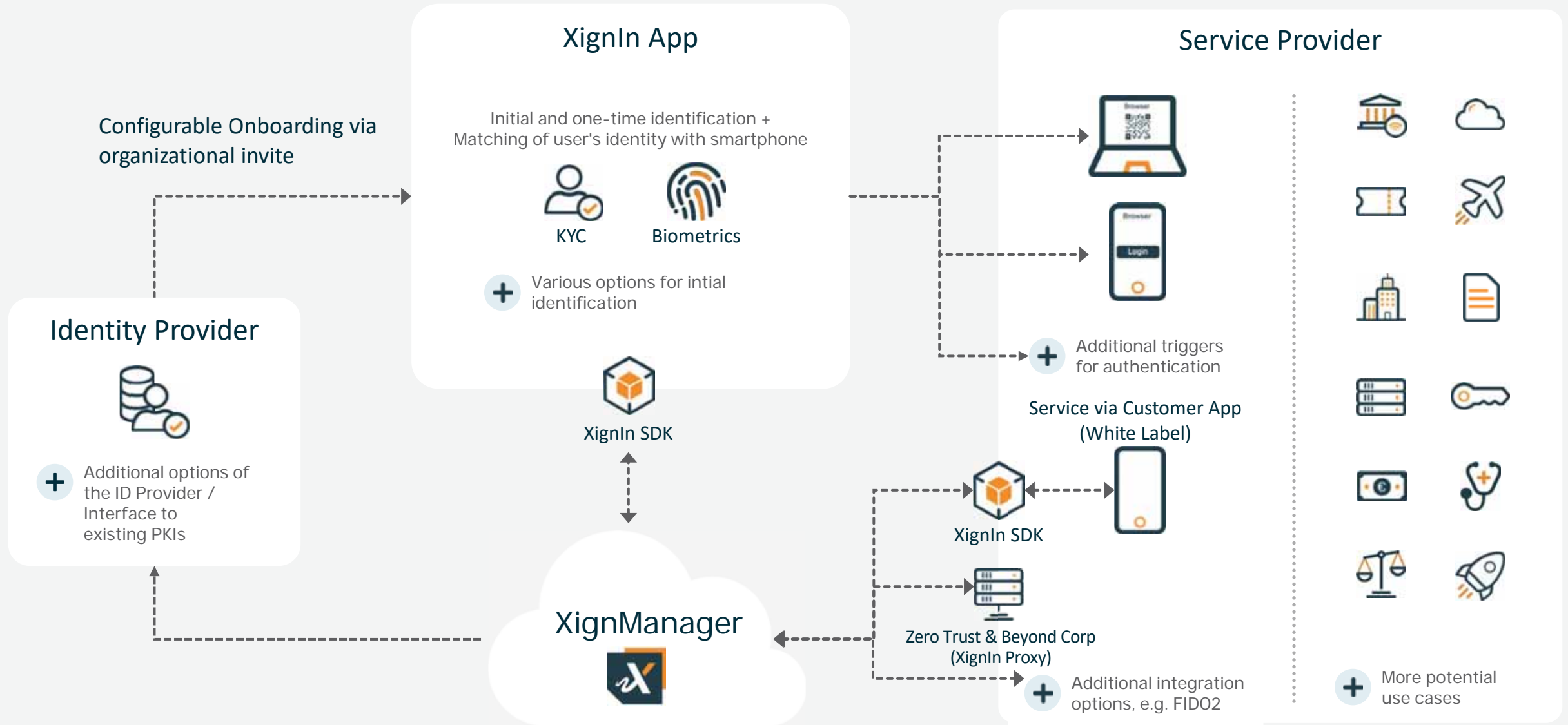
Single Sign-On (SSO)

Unification of all logins/registrations

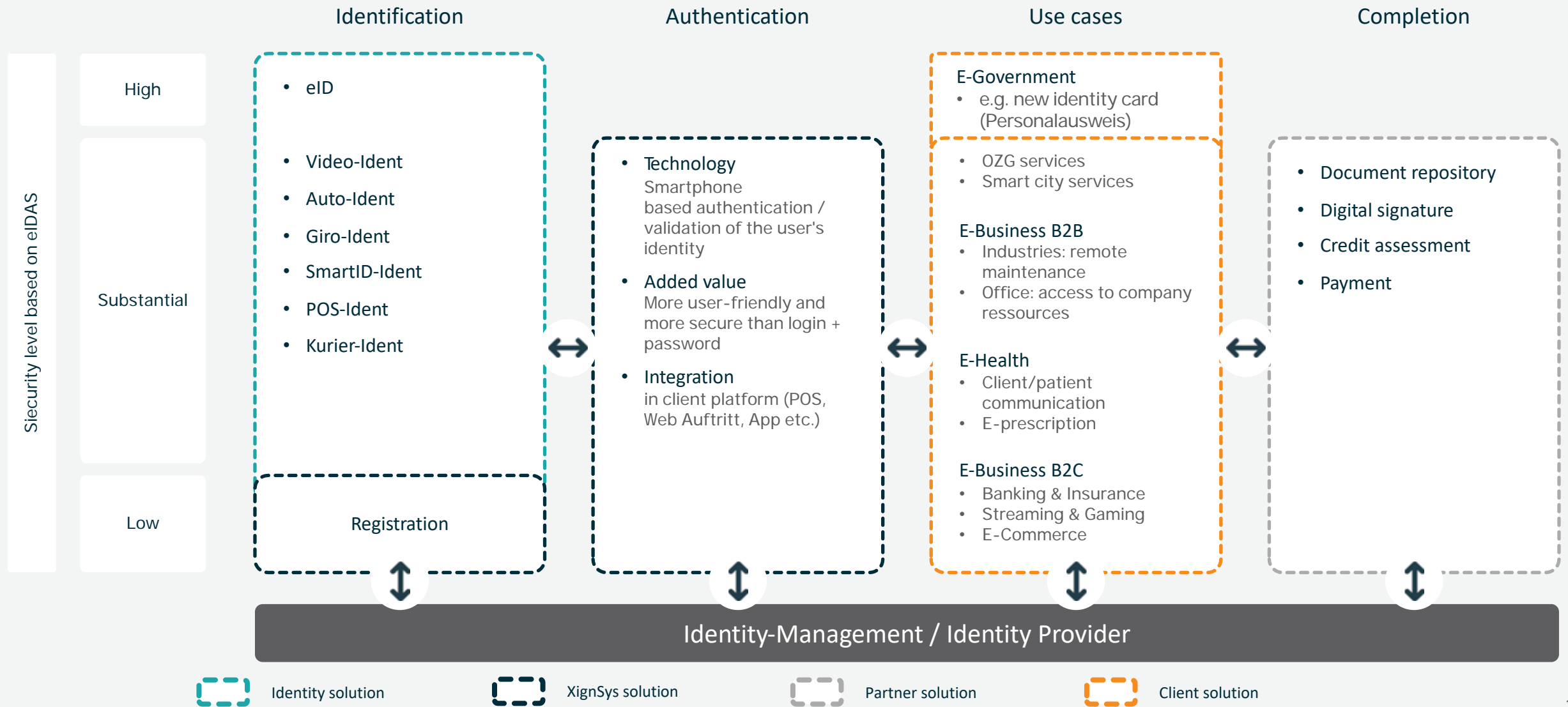


## XignSys Business Model

XignIn acts as intermediary for identity and service providers and enables the communication between all project or process partners.

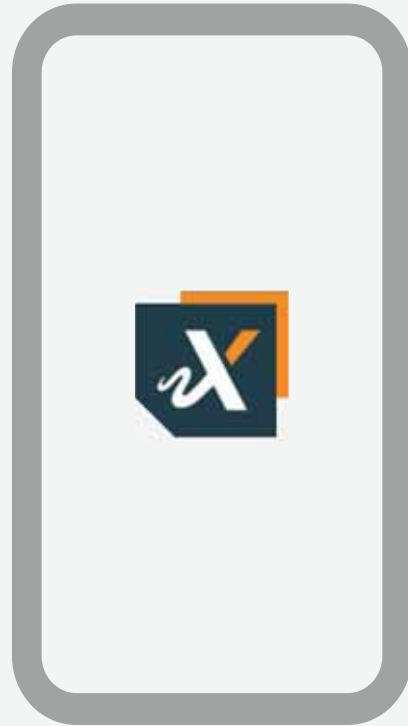


Current product offers focus and partner integration for frictionless user experience.



Already today the XignSys technology includes variations of the product for different use cases.

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### **XignIn**

Passwordless, smartphone based authentication solution for companies and municipalities



### **CitizenID- Branding City Gelsenkirchen**

Integration of the XignIn-technology in the digital portfolio of the cities of Gelsenkirchen and Aachen for handling digital and smartphone based public services.



### **Smartphone ID+**

In collaboration with several partners XignSys enhances the existing technology and adds new functions such as interfaces for identification and payments to showcase integrated digital business and service processes.



### **FlatCurve – Corona-App**

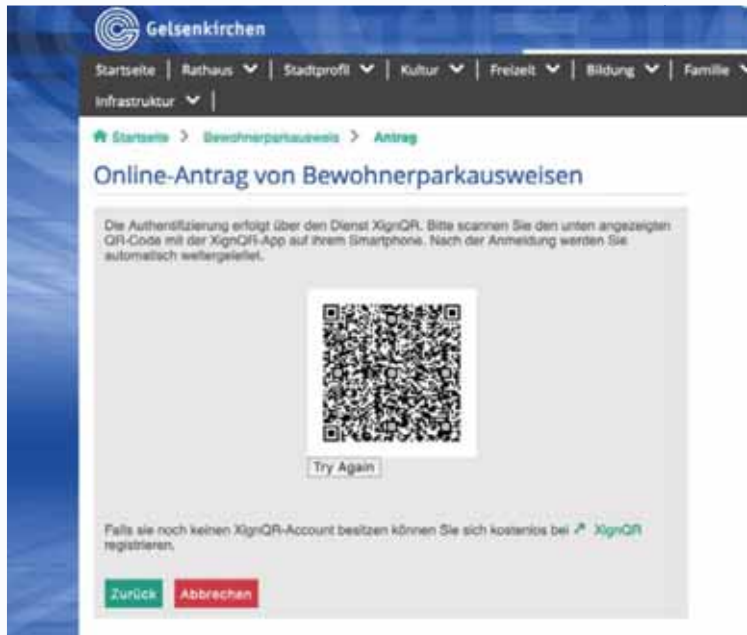
The Corona-App serves as secure and anonymous information and collaboration platform for citizens, public administrations and the public health system during the corona crisis.



Use case: eGovernment

Through the SBID project NRW acquired subscriptions for all 18 million citizens

Public citizen services are processed directly via smartphone based on a secure and user-friendly authentication.



Smartphone ersetzt in Gelsenkirchen bald den Behördengang **WAZ+**



„What has been developed in Gelsenkirchen is setting a trend and will be a paradigm for other municipalities not only in NRW but also all over Germany.“

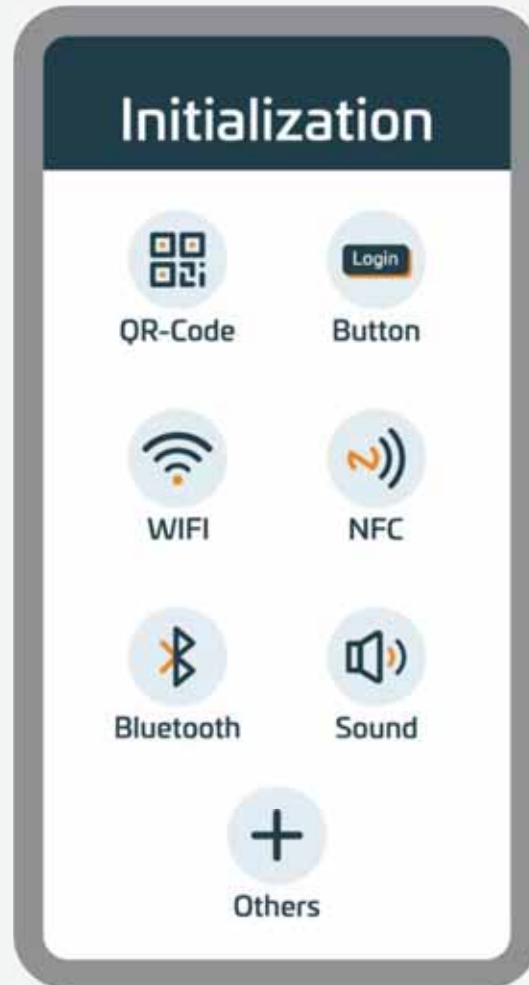
Dr. Thomas König,  
Ministry for Economics, Innovation, Digitalization and Energy of NRW (MWIDE)





Use case: eBusiness

Use cases frequently include cloud and data base access for employees, partners and customers



### Most frequently asked Use Cases

- Access to web-services data bases
- In-App authentication

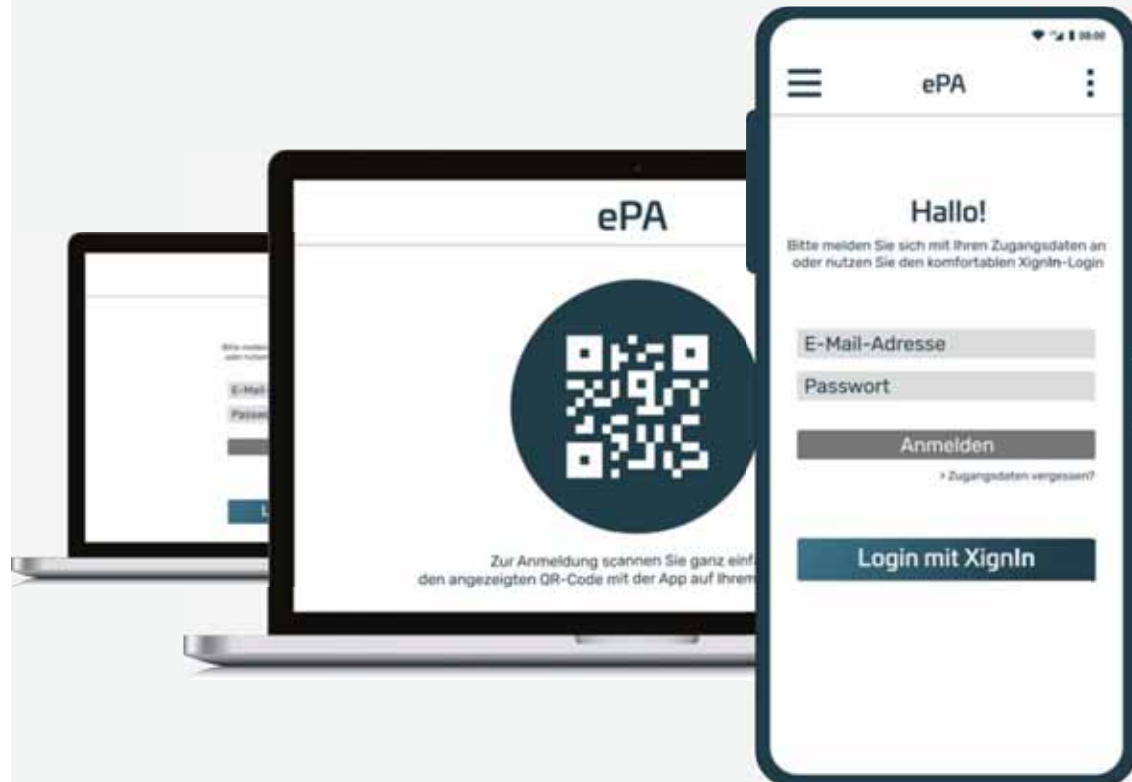
### Additional possible Use Cases

- Access to space, office, car-sharing
- Time management and access management
- Payment
- Digital Signatures (e.g. mail, gatekeeper, etc.)



Use case: eHealth

Most frequently requested feature in eHealth is a passwordless authentication in health insurance customer applications



- ✓ Easy onboarding of patients, service providers and partners
- ✓ Different user roles and rights
- ✓ Interoperability & no media interruption
- ✓ No Username & PW + TAN but secure Login with biometrics
- ✓ Authentication by XignIn in the background
- ✓ App & Web-App



## XignSys references and partners

In its short history XignSys was already able to attract well-known industry and project partners.

### References



Pilot project: Employee authentication  
Project size: €150k



Project „Smartphone-Bürger-ID“  
Project size: €4.5m



Pilot project and project partner SID+



Pilot Project: Development and test of XignIn for customer authentication



Advisory Project: Identity Management and Authentication for „One Smart City App“ (OSCA)

### Partners



Sales partner for eGovernment and eBusiness



Technology and sales partner eBusiness and eHealth



Sales partner for eBusiness



Technology and sales partner for eBusiness



Partner for eGovernment

### Media Reports

### Awards



# We kill the password! Do you?



**Markus Hertlein**  
CEO & Co-Founder

+49 209 883 044 84

+49 163 736 34 08

hertlein@xignsys.com

XignSys  
Bochumer Straße 110  
45886 Gelsenkirchen  
Germany



xignsys.com



**Lars-Oliver Schröder**  
Chief Sales Officer

+49 209 883 044 75

+49 172 69 82 751

schroeder@xignsys.com

XignSys  
Bochumer Straße 110  
45886 Gelsenkirchen  
Germany



xignsys.com

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