

BLOCKCHAIN TECHNOLOGY AND LAST WILLS

GALA PRESENTATION **DATE** 11.05.2021 **CREATED BY** ANNIKA HANSEN, PIRMIN ÖZDEMİR, NICO BORN

Team

2



Annika Hansen

MSc Business & Economics

University of Basel



Pirmin Özdemir

MSc Business & Economics

University of Basel



Nico Born

BSc Business Information Technology

FHNW

burckhardt

Burckhardt AG deals with the process of filing last wills. Our task is to find a solution using a blockchain application to make the process more straightforward and secure.





Existence



Safekeeping &
Reveal



Legal
Validity



Genuineness

Traditional will

- 1 Handwritten will and notarized will
- 2 Legal validity: original paper will required
- 3 Newer wills overwrite old ones





Paper will required



Multiple wills

Case 1

Compliant with current law

- 1 Time stamping & history of wills
- 2 Proof of Existence
- 3 Proof of Authenticity

 Tamperproof record

Case 2

Requires legal changes

- 1 Ecosystem with defined roles for all stakeholders
- 2 Genuine information about will maker's passing
- 3 Additional security features

 Strong legal validity
Safekeeping & Autoreveal

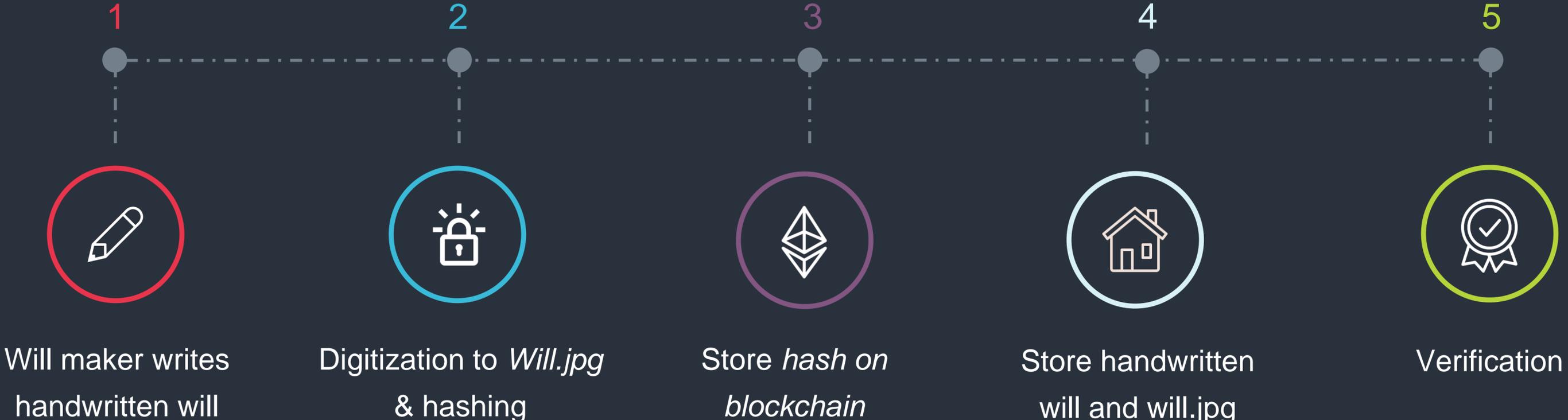
Case 3

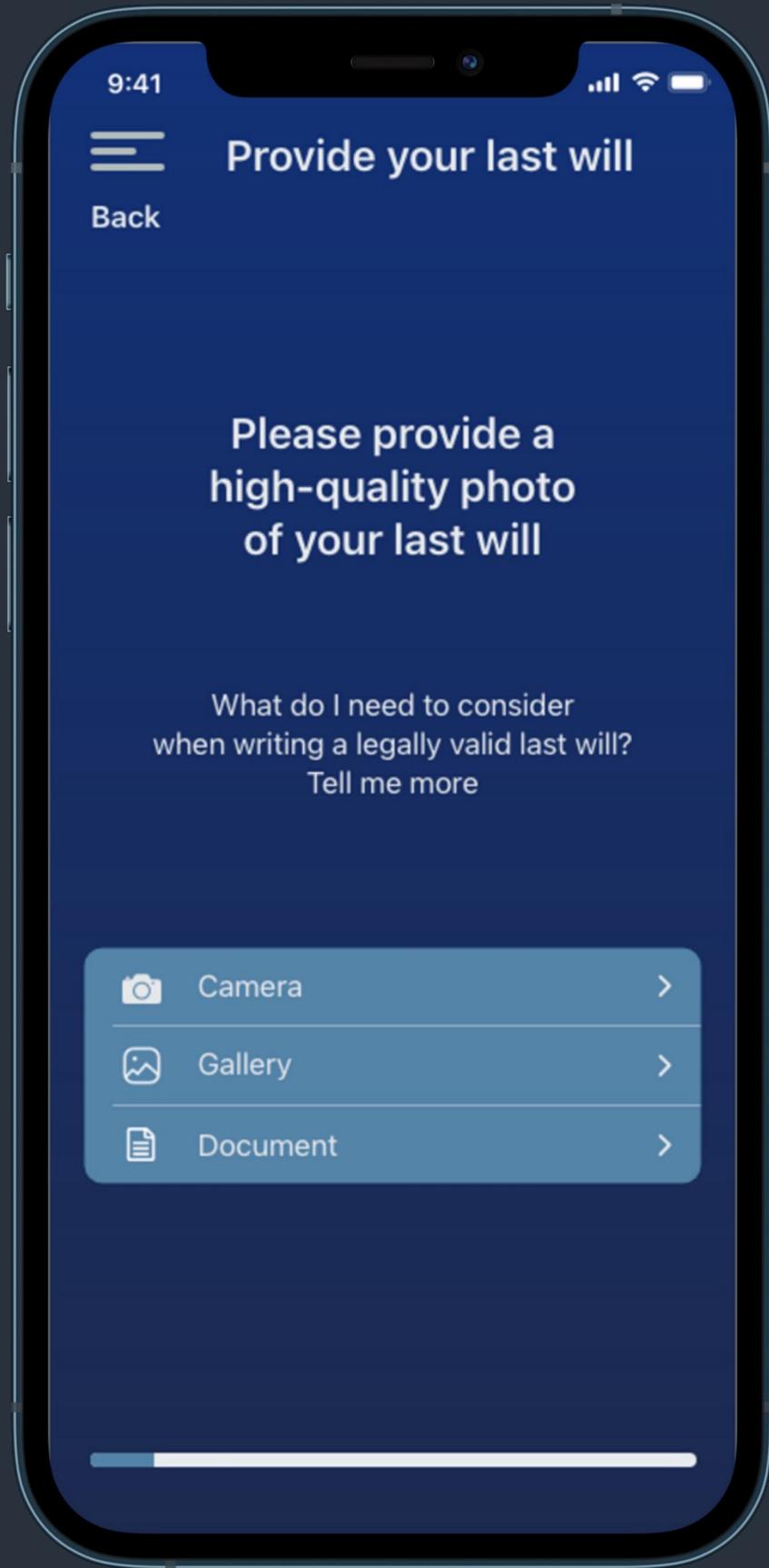
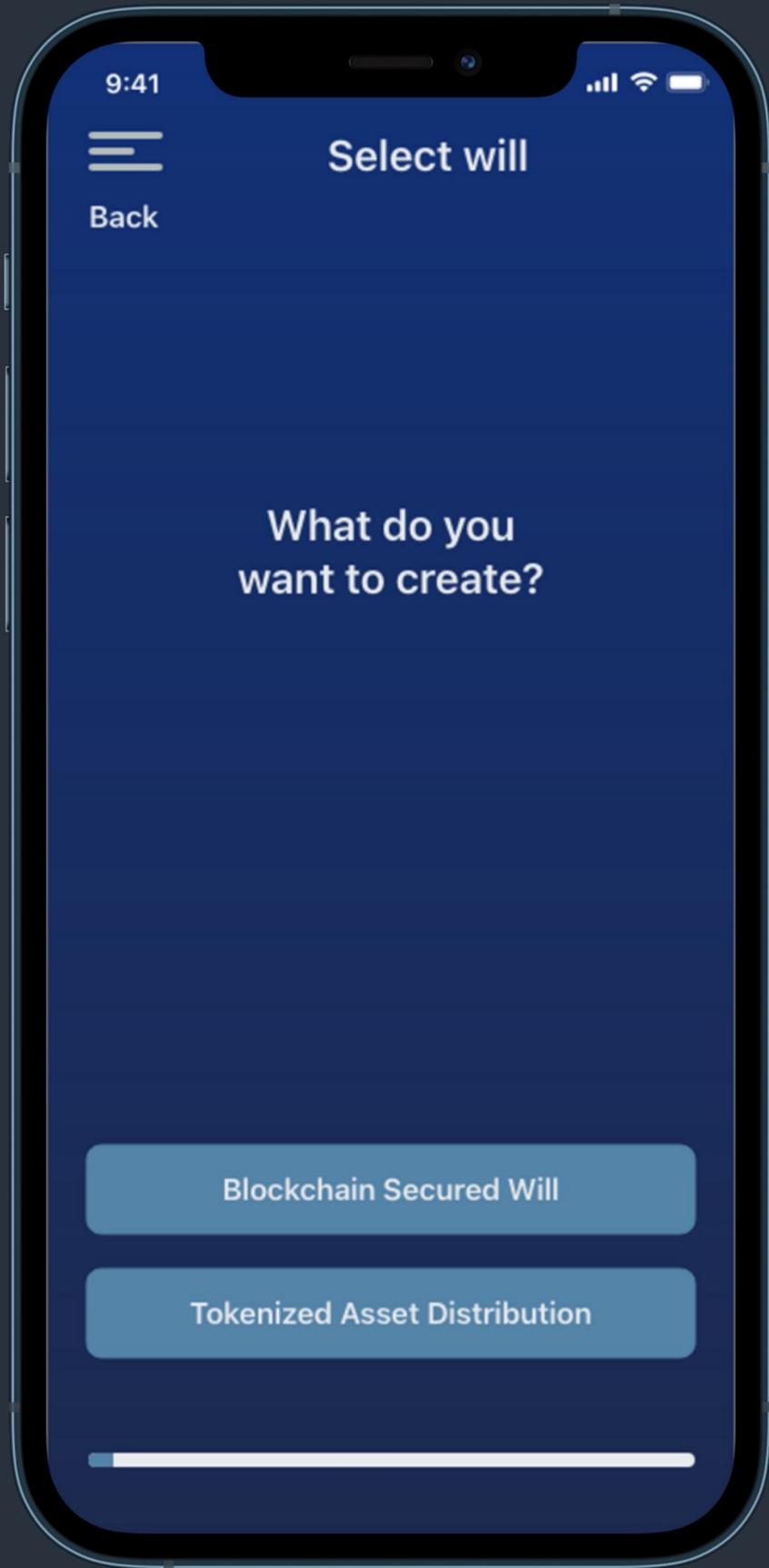
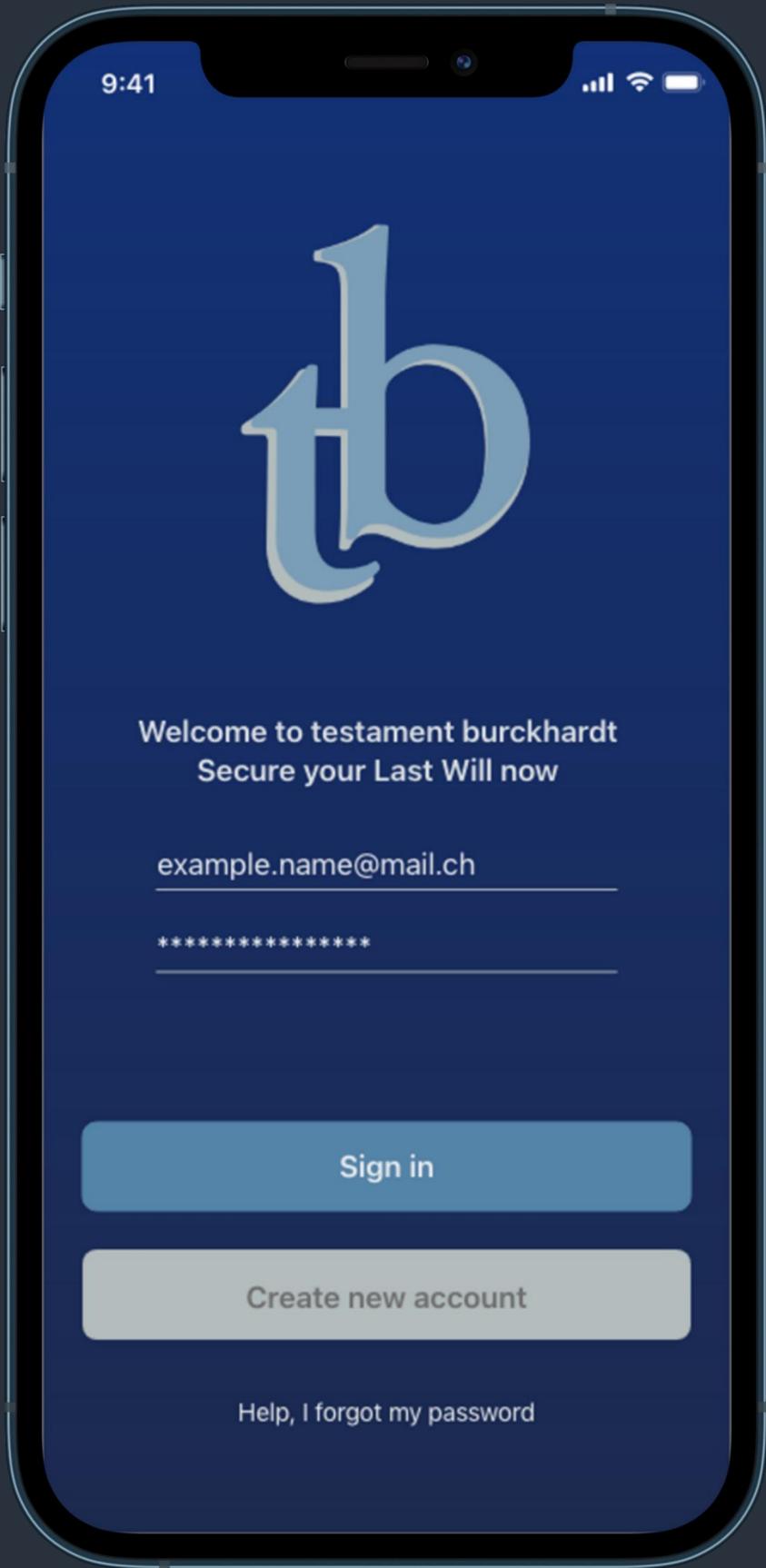
Hypothetical: Tokenized assets

- 1 Smart contract wallet
- 2 Interoperability
ERC20 & ERC721
- 3 Automatic on-chain asset distribution

 Inheritance of tokenized assets

Case 1: Procedure





9:41



Photograph your last will

Back

Mein Testament

Ich, Willi Adam Eigenmann, geboren am 29. Dezember 1933, Bürger von Bauma, verfüge letztwillig wie folgt:

- 1) Alle meine bisherig verfassten Testamente sind hiermit aufgehoben.
- 2) Meine beiden Kinder René Traugott und Bernard Obioffe sollen zu gleichen Teilen meinen Nachlass erben. Meine Frau Eva Judith erhält am gesamten Nachlass die lebenslängliche Nutzung.
- 3) Der Schweizerischen Gesellschaft für Lebenshilfe StFL, mit derzeitigem Sitz in 4016 Basel, vermache ich ein Legat von CHF 7'777.- (siebentausend siebenhundert siebenundsiebzig Franken) und meine gesammte Briefmarkensammlung.

Sengad, 30. Dezember 1997

Willi Adam Eigenmann



9:41



Photograph your last will

Retake the Photo

Mein Testament

Ich, Willi Adam Eigenmann, geboren am 29. Dezember 1933, Bürger von Bauma, verfüge letztwillig wie folgt:

- 1) Alle meine bisherig verfassten Testamente sind hiermit aufgehoben.
- 2) Meine beiden Kinder René Traugott und Bernard Obioffe sollen zu gleichen Teilen meinen Nachlass erben. Meine Frau Eva Judith erhält am gesamten Nachlass die lebenslängliche Nutzung.
- 3) Der Schweizerischen Gesellschaft für Lebenshilfe StFL, mit derzeitigem Sitz in 4016 Basel, vermache ich ein Legat von CHF 7'777.- (siebentausend siebenhundert siebenundsiebzig Franken) und meine gesammte Briefmarkensammlung.

Sengad, 30. Dezember 1997

Willi Adam Eigenmann

Document hash (digital fingerprint):
ce329196ebbb641136af3435e43120b
f2b60af54efe376 92e99cb1ae5ec0326

Confirm

9:41



Success

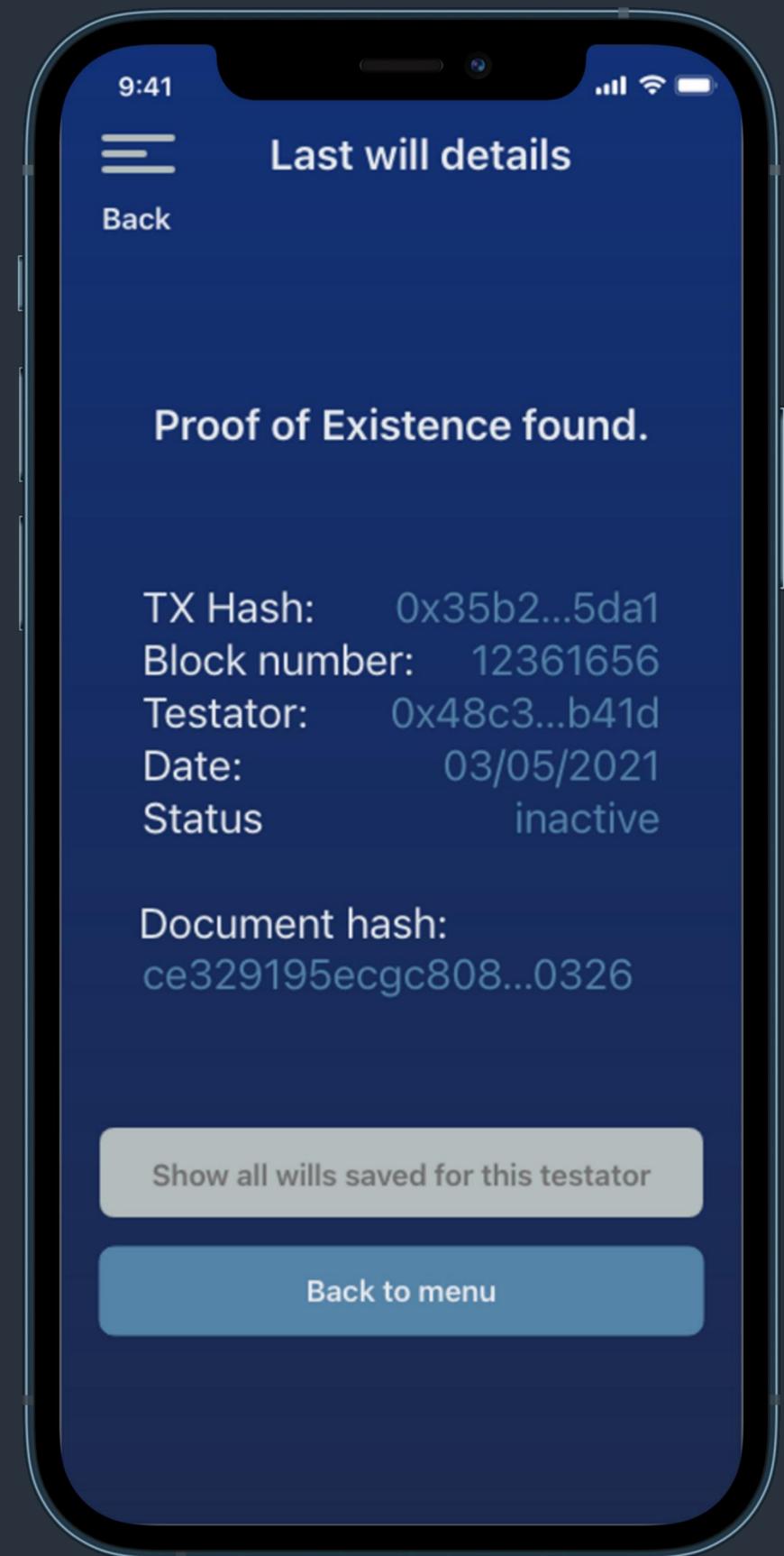
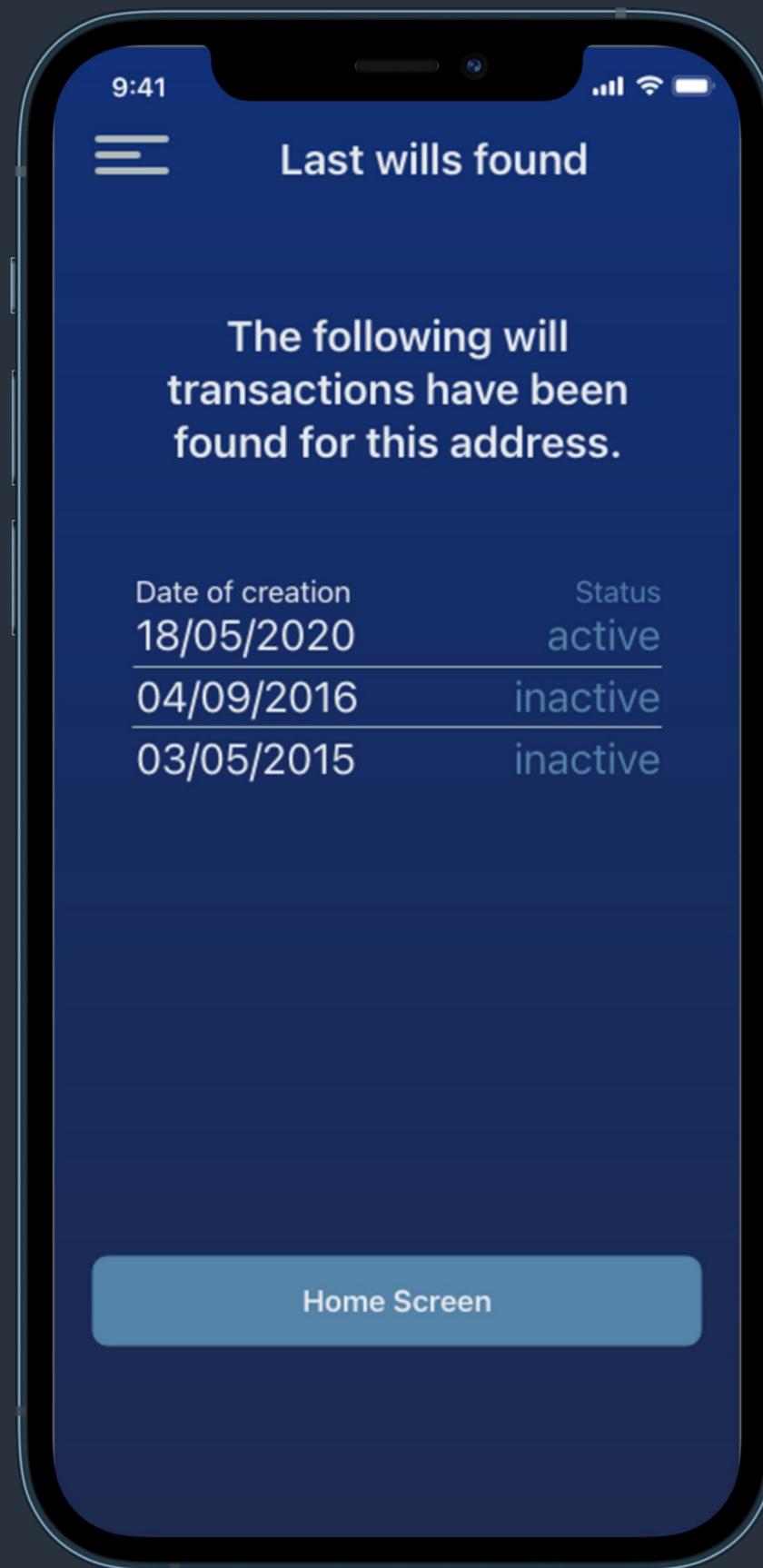
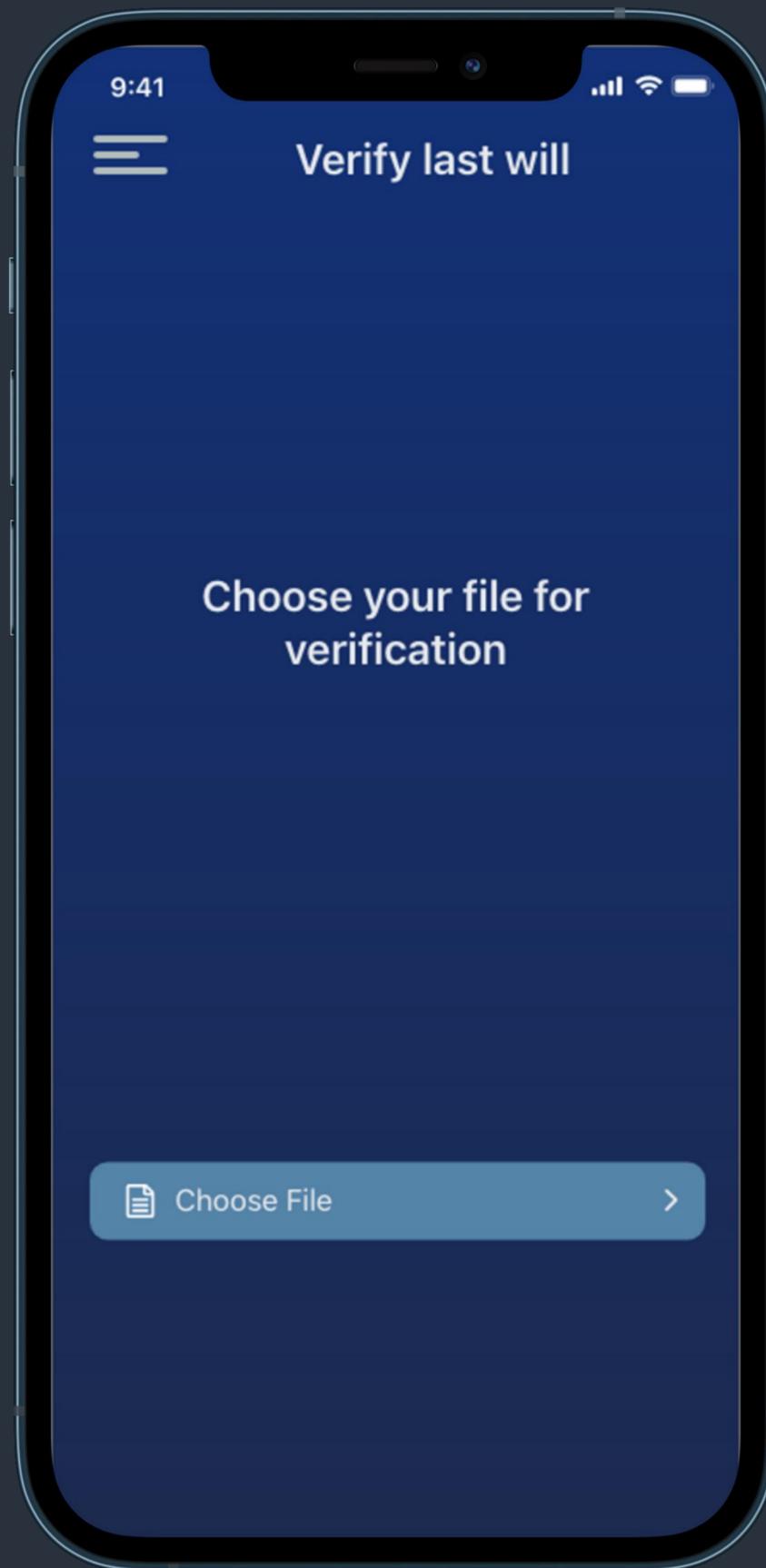
Your will file's
digital fingerprint
has been recorded
on the blockchain.

Document hash:
ce329195ec...0326

Transaction hash:
0x35b25e36...da13

Caution!
Make sure that your will.jpg
is stored safely for it to be
revealed after your passing.

Continue



Case 2: Legal limitations

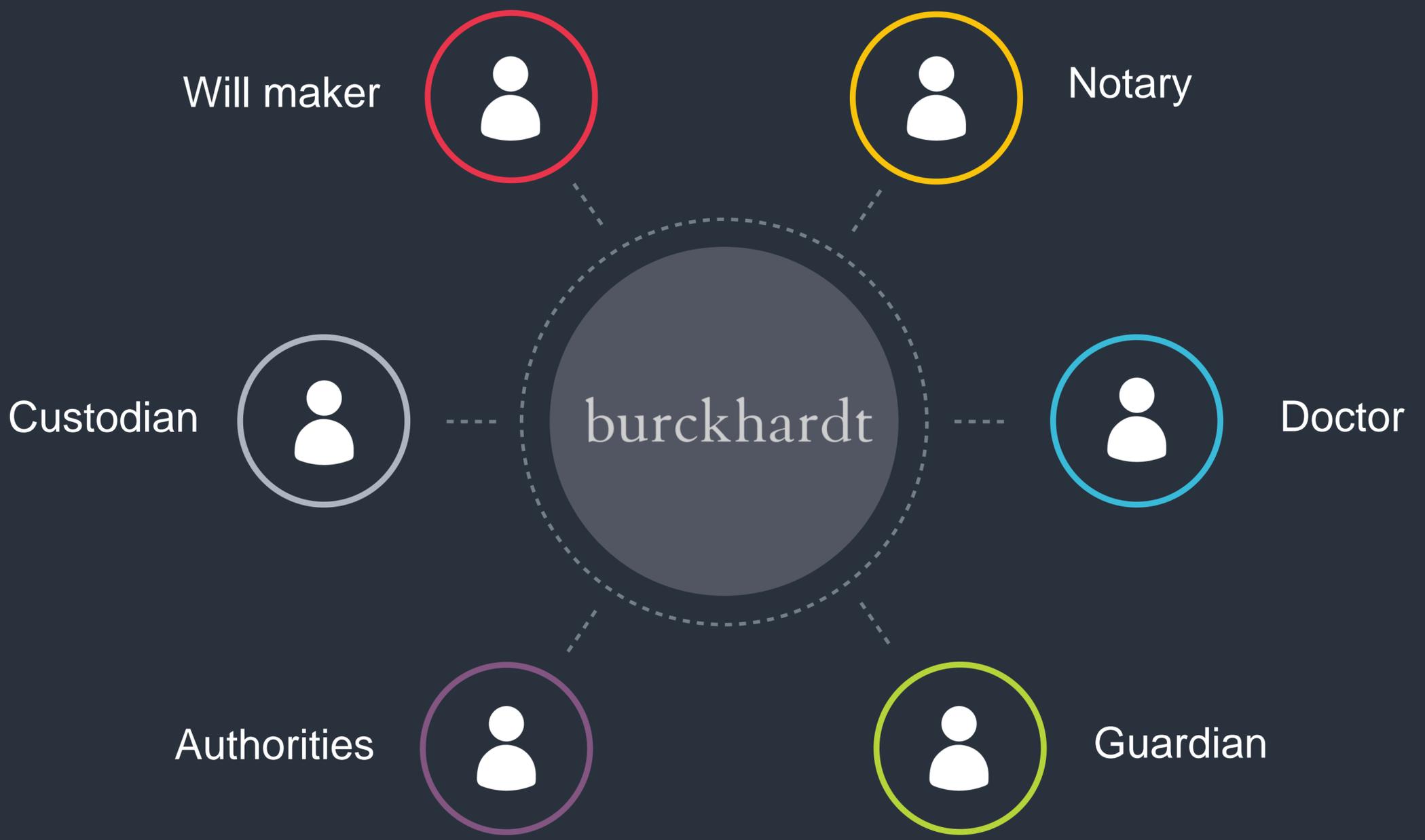


Blockchain secured
digital wills



Opt-out

Case 2: Ecosystem



Case 2: Procedure



Case 2: Additional security features



Proof of Life

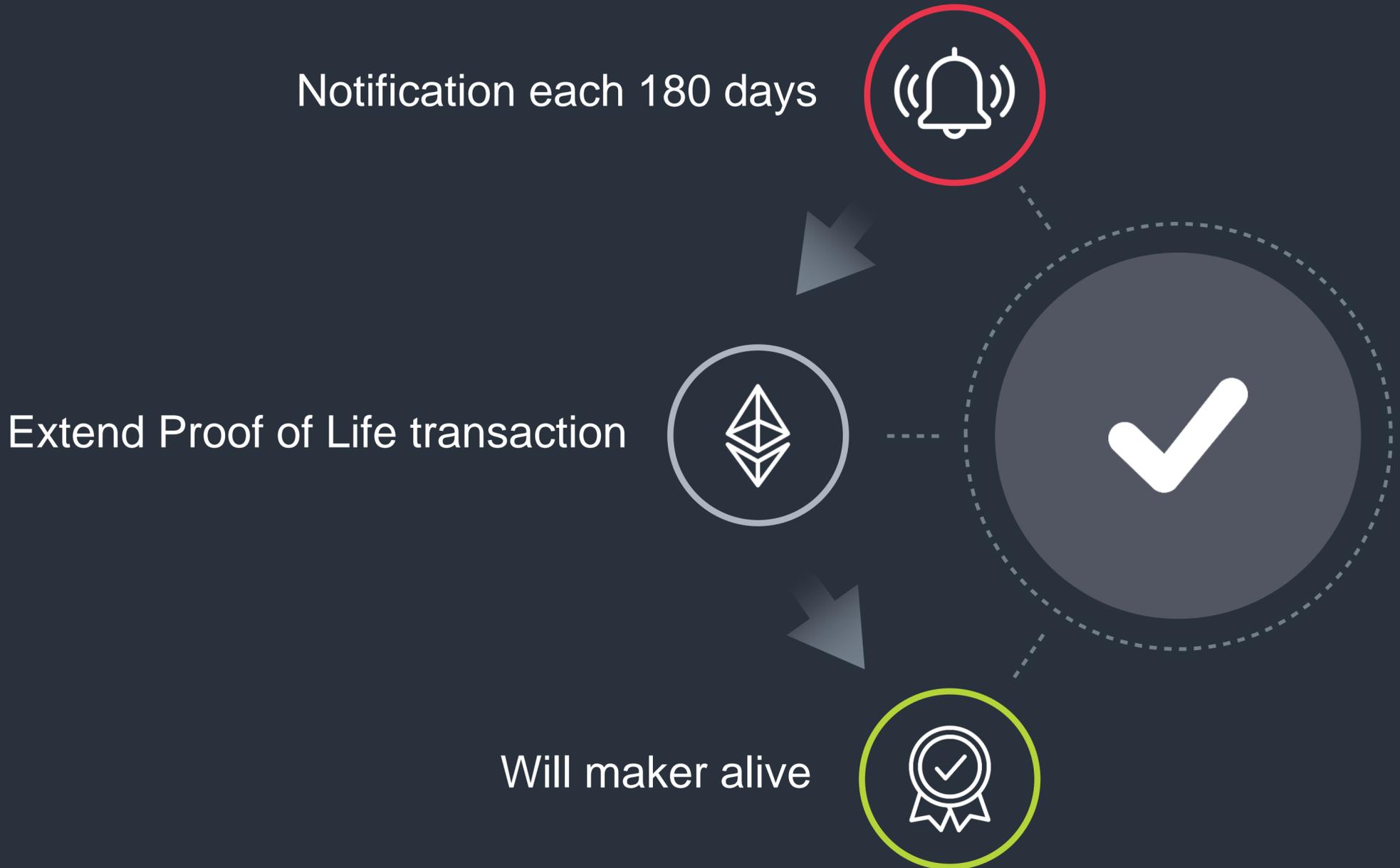


Key Loss
Protection

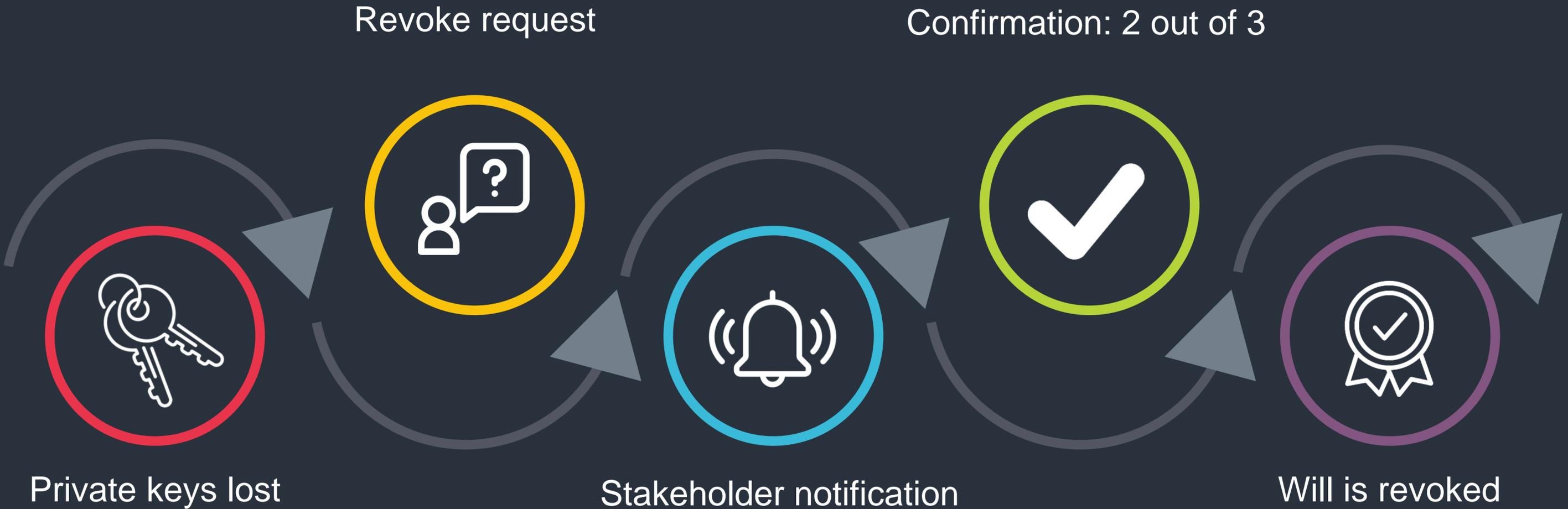


Genuine
Information
Propagation

Case 2: Proof of Life



Case 2: Key Loss Protection

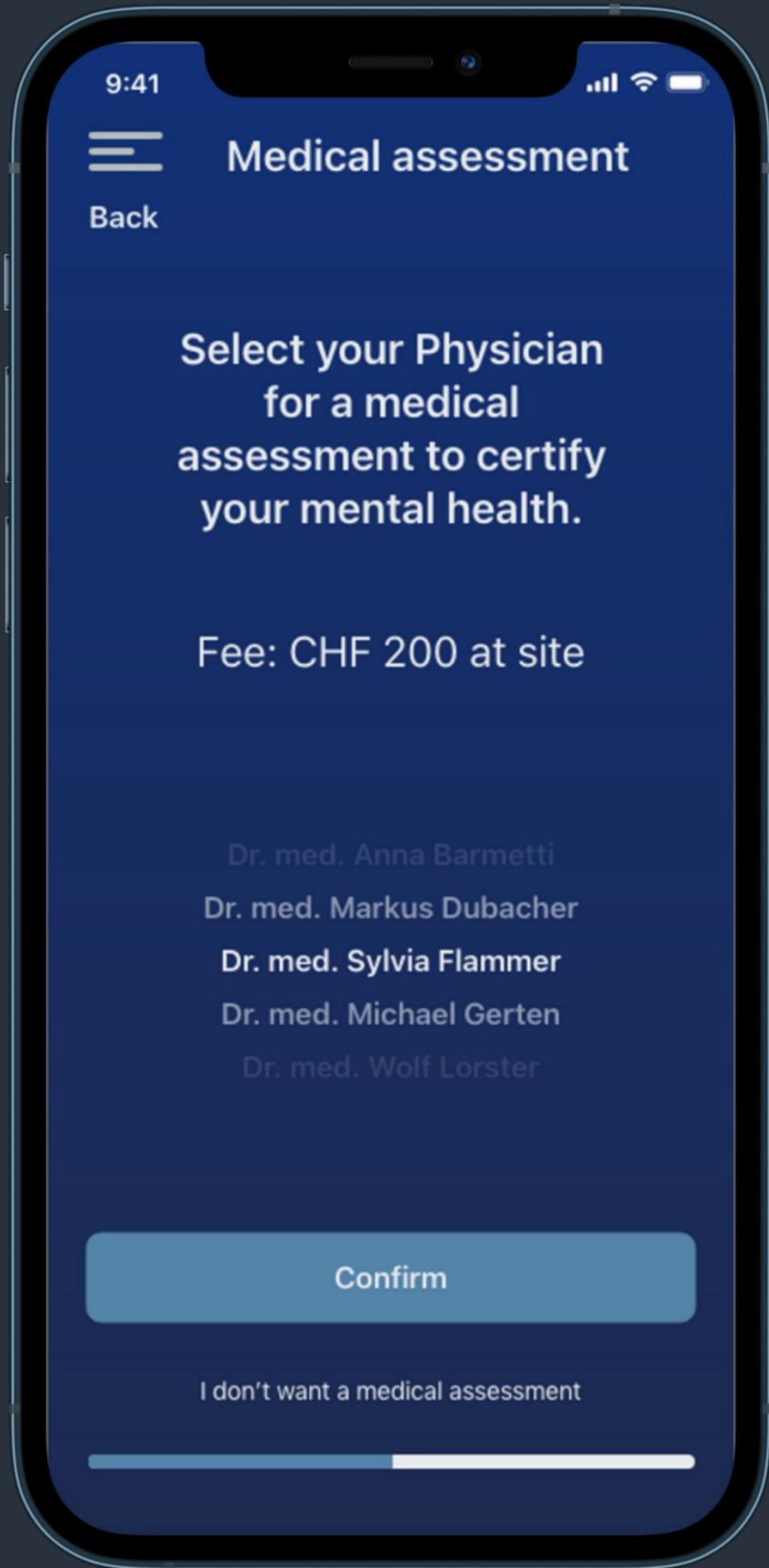
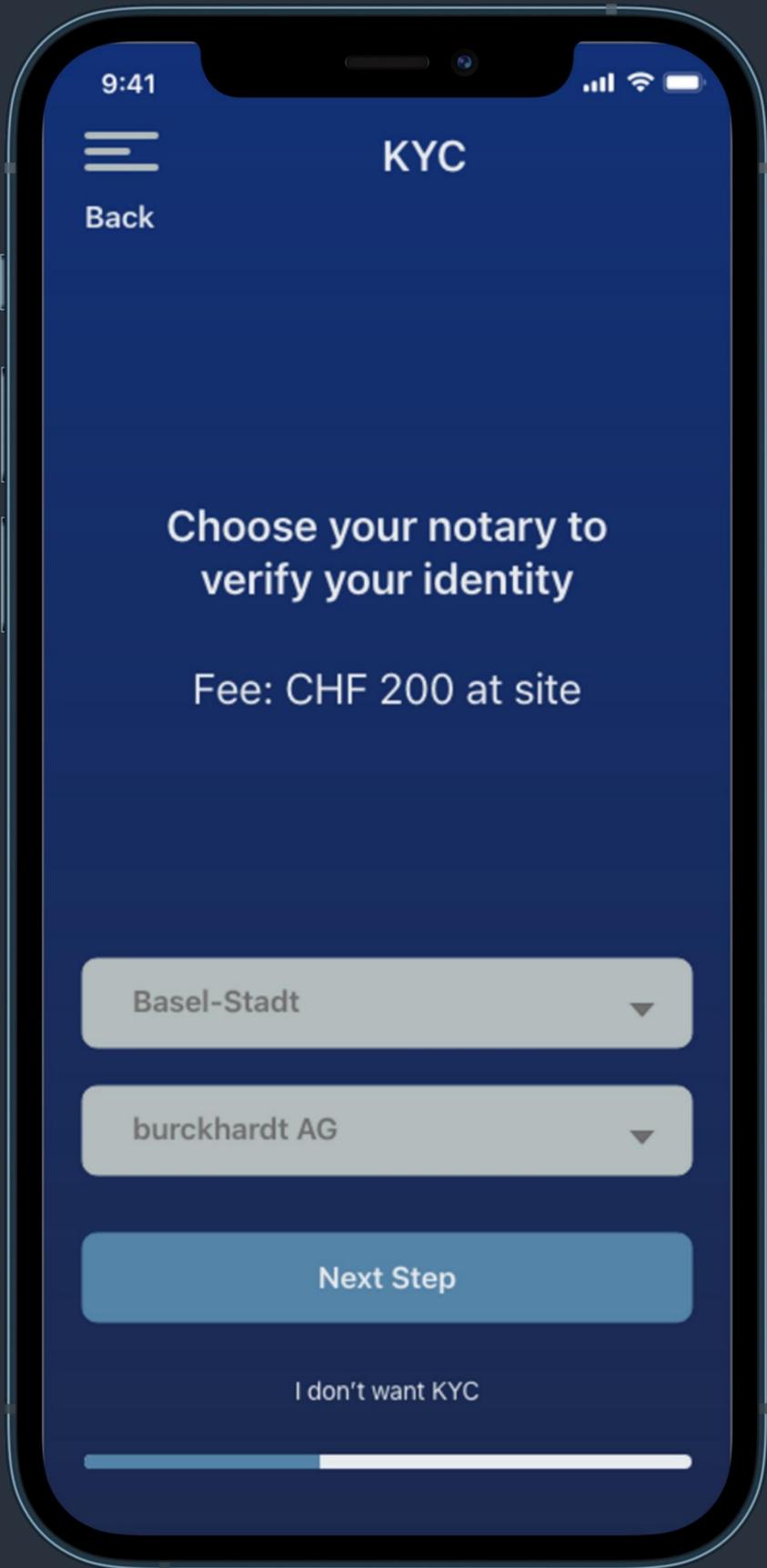


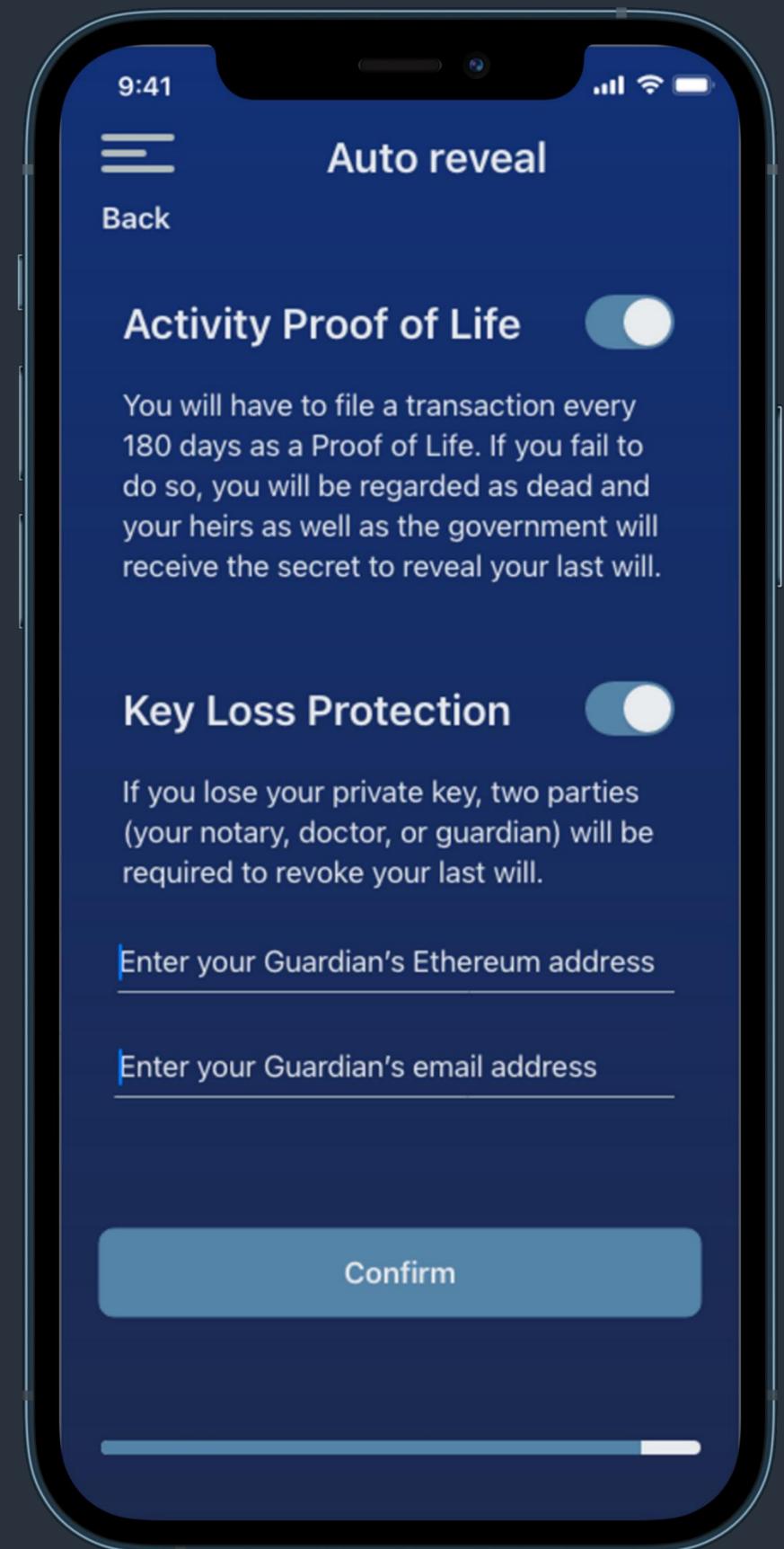
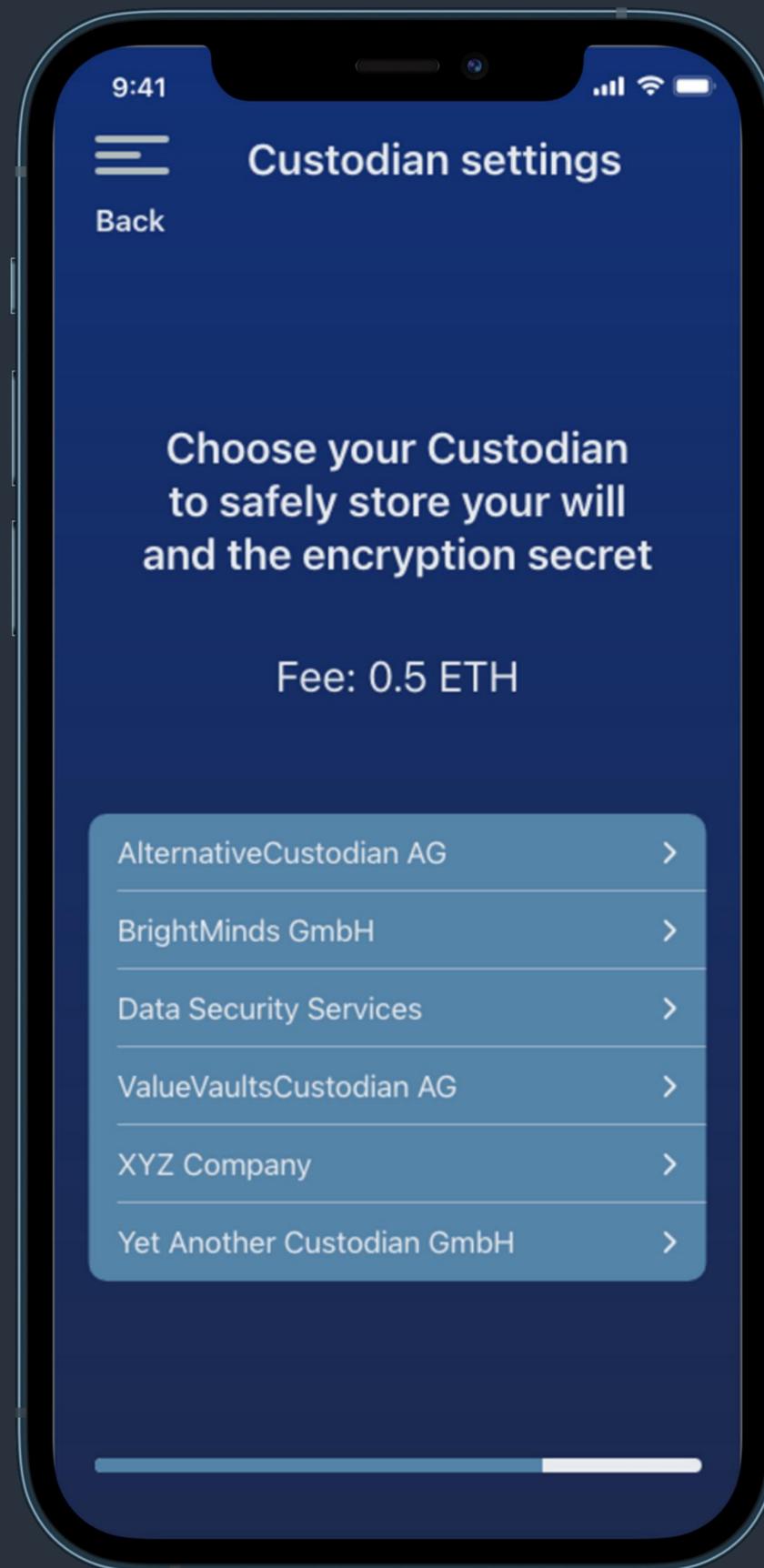
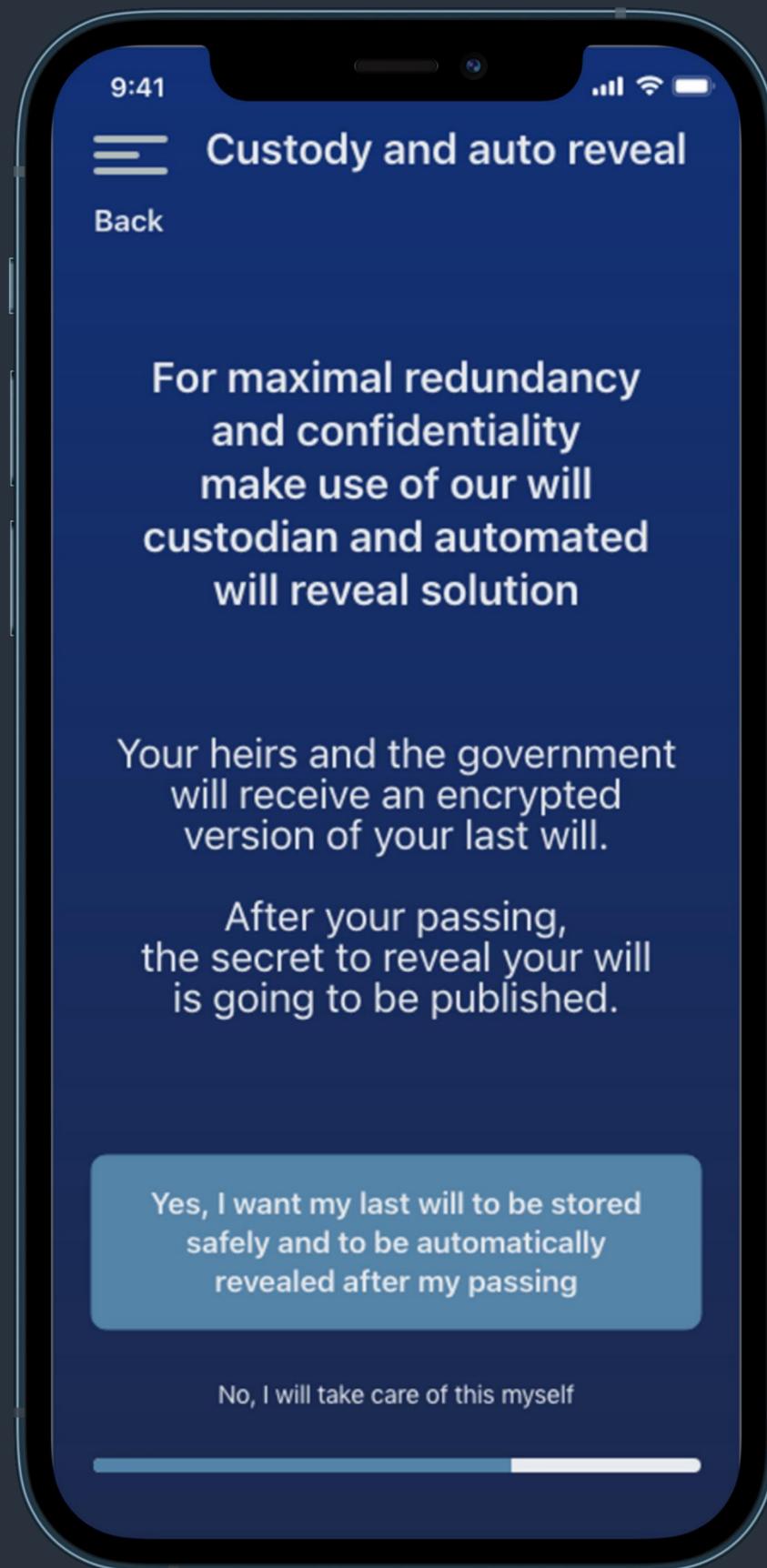
Case 2: Genuine Information Propagation

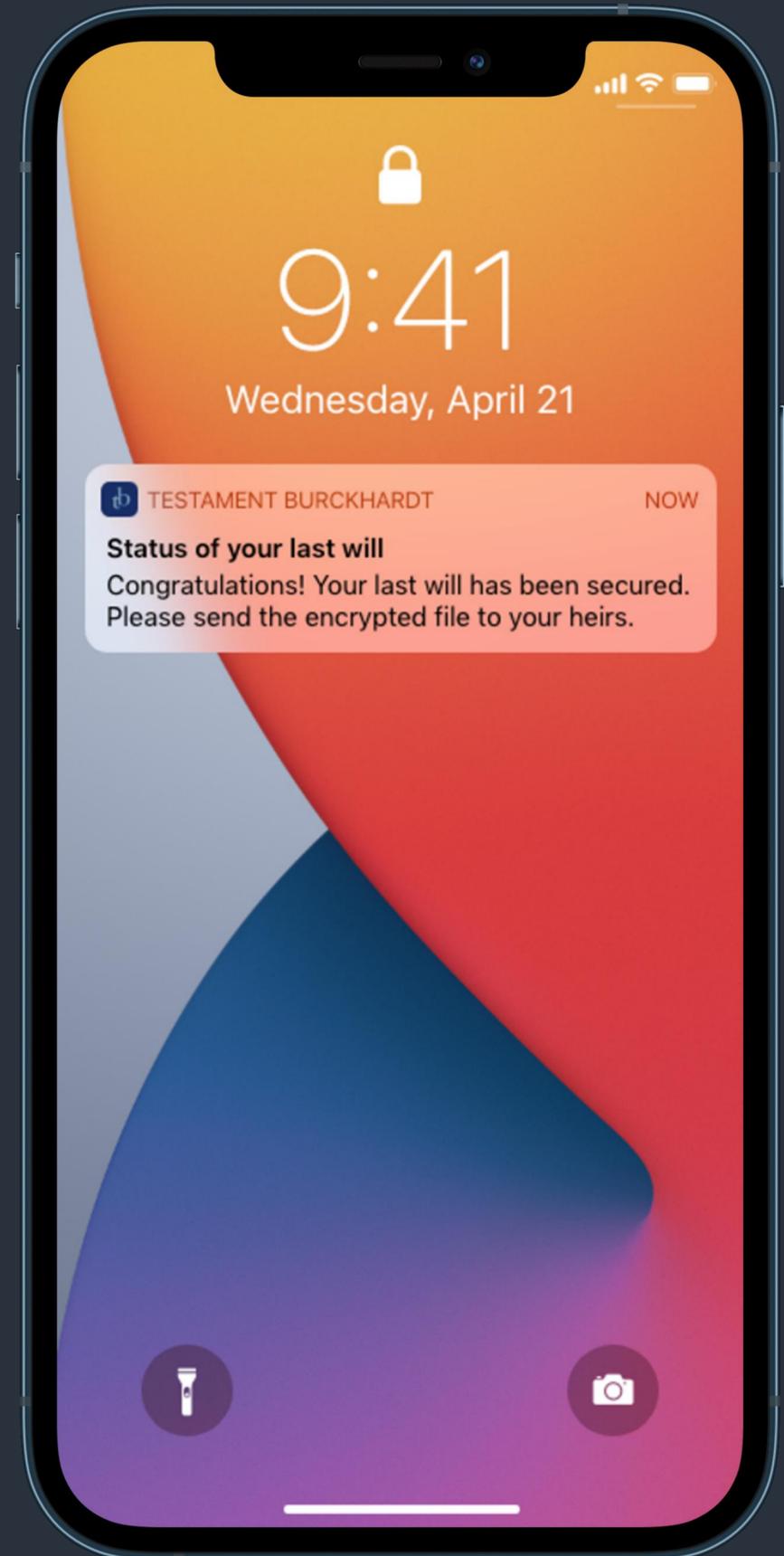
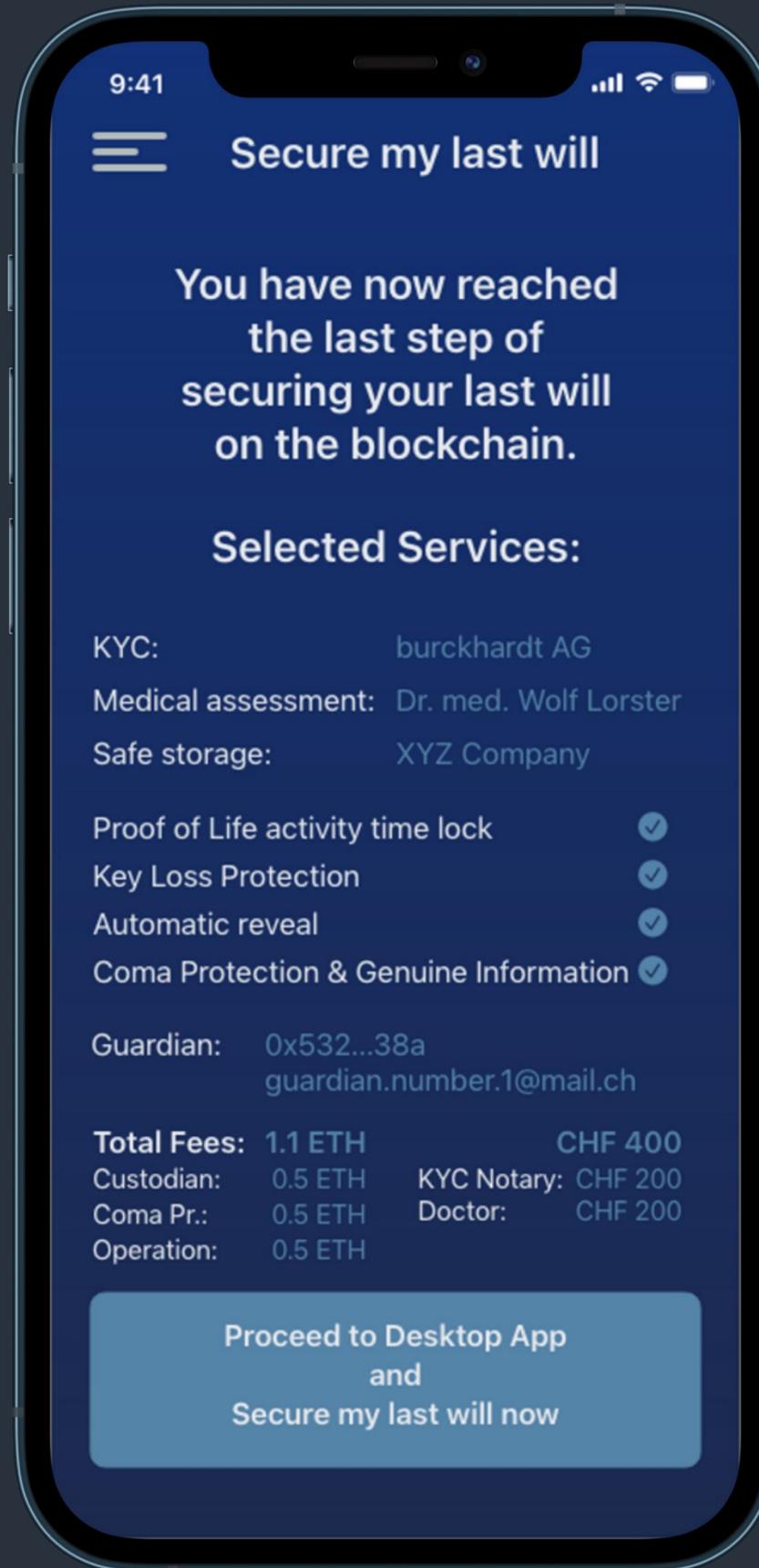
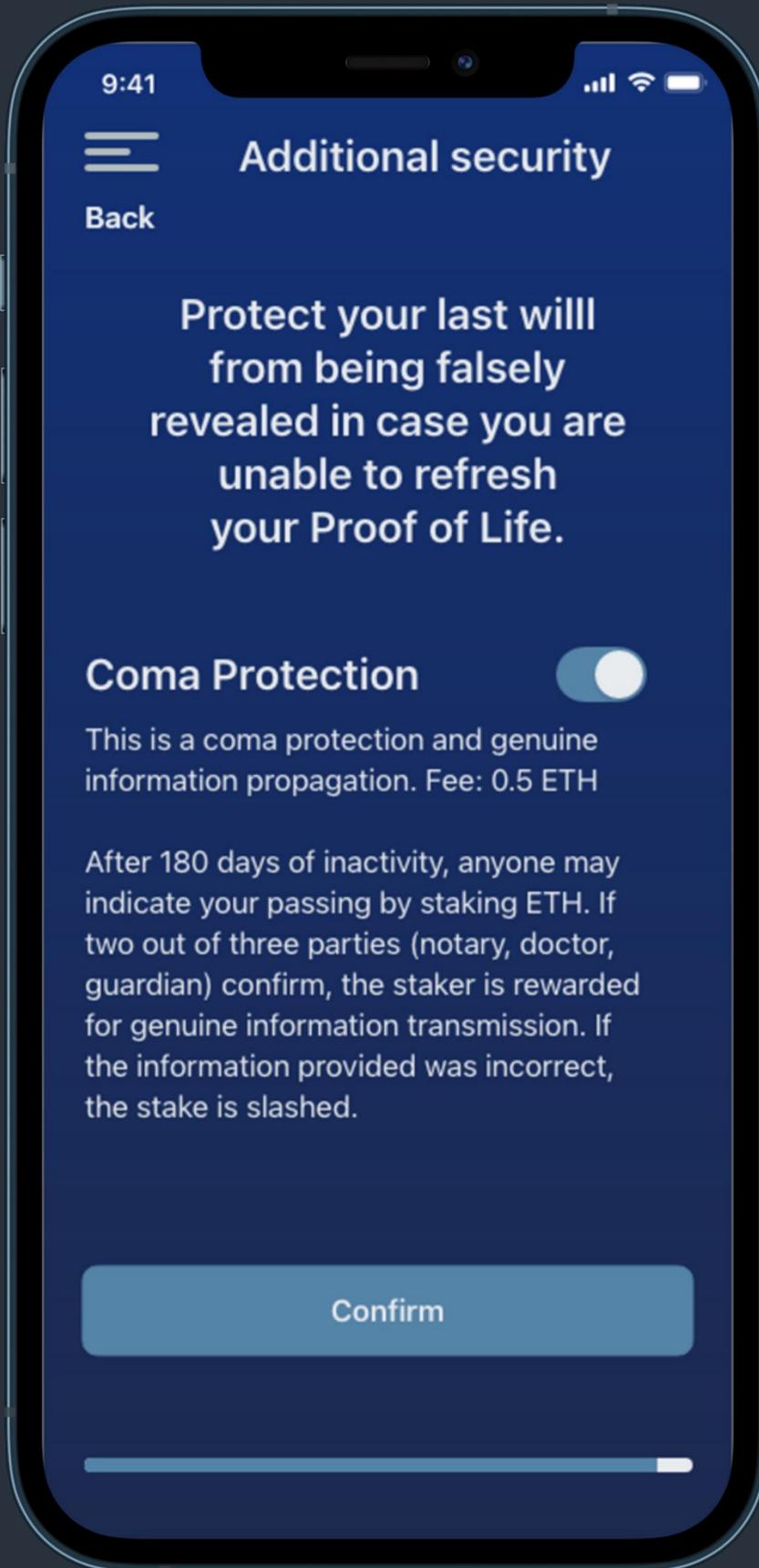


Case 2: Autoreveal











Vision for the future

- Tokenized Assets as ERC20, ERC721, ERC1155
- No keys → Lost assets



Case 2 as basis

- Proof of Life
- Key Loss Protection
- Genuine Information Propagation



Automatic asset distribution
requires genuine information



Solution

- Smart contract wallet
- Distribution table
- Automatic distribution to heirs

Advantages

Case 1

Compliant with current law

- ✓ Proof of Existence
- ✓ Proof of Authenticity
- ✓ History of wills

Case 2

Requires legal changes

- ✓ High legal security
- ✓ Definitive history of all wills
- ✓ No physical paper will required
- ✓ High redundancy and security, confidentiality
- ✓ Automatic revelation

Case 3

Hypothetical: Tokenized assets

- ✓ Automatic distribution of on-chain assets

✓ All advantages of case 1

✓ All advantages of case 2

Clickable Demo

