# Using Bernstein

Overview of the workflow to secure
intellectual property on the blockchain

# Chapters
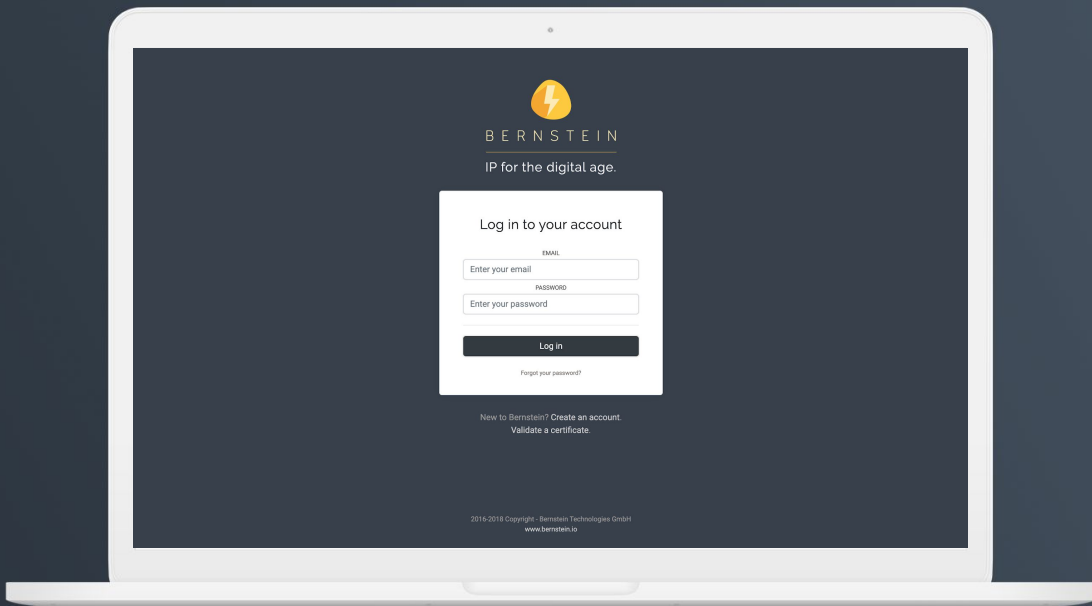
## Getting started

Bernstein is a simple webapp.
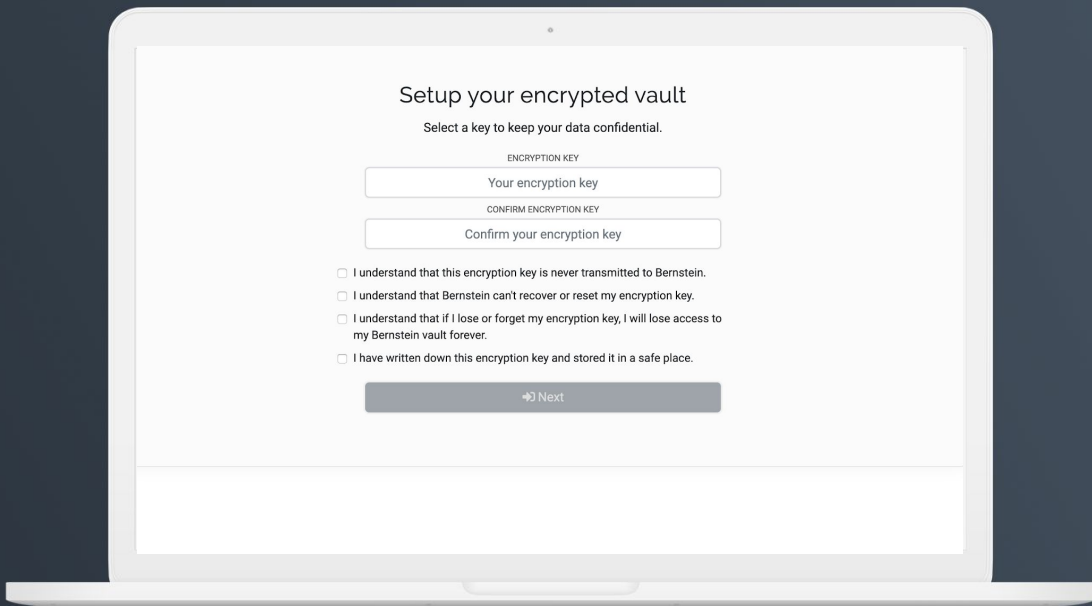To start using it, just:

- open your browser
- go to app.bernstein.io
- Sign-up, confirm your email
- log-in with email and password

There's nothing to install nor to update.

# Choosing the key to your vault

This is the only difference to a regular web-application: you're required to enter an encryption key, known only to you.

It is critical you choose wisely and consciously, as the key cannot be recovered.

We recommend:
- a set of random words you can remember
- copy-pasting the key before entering it
- using a free password manager

**Please print or download the encryption for later retrieval.**

## Setup your encrypted vault

Select a key to keep your data confidential.

ENCRYPTION KEY

Your encryption key

CONFIRM ENCRYPTION KEY

Confirm your encryption key

☐ I understand that this encryption key is never transmitted to Bernstein.

☐ I understand that Bernstein can't recover or reset my encryption key.

☐ I understand that if I lose or forget my encryption key, I will lose access to my Bernstein vault forever.

☐ I have written down this encryption key and stored it in a safe place.

→) Next

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## The dashboard

In essence, you can picture Bernstein your encrypted digital vault.

The dashboard provides you with an overview over all your projects. In a glance you can see which ones of your projects contain uncertified data!

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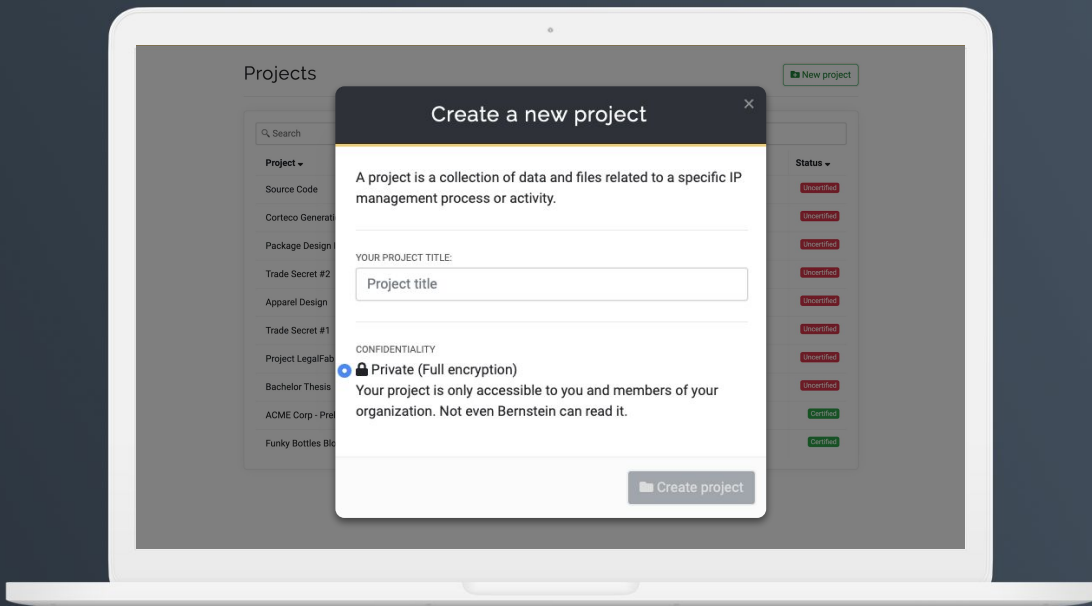
# Creating a project

A project is a collection of data and files related to a specific IP process or activity.

Creating a new project is only the matter of choosing a descriptive title. You can create an unlimited number.

A project should always relate to a specific goal.

*Note: the title gets encrypted locally as well, allowing you to include sensitive information.*

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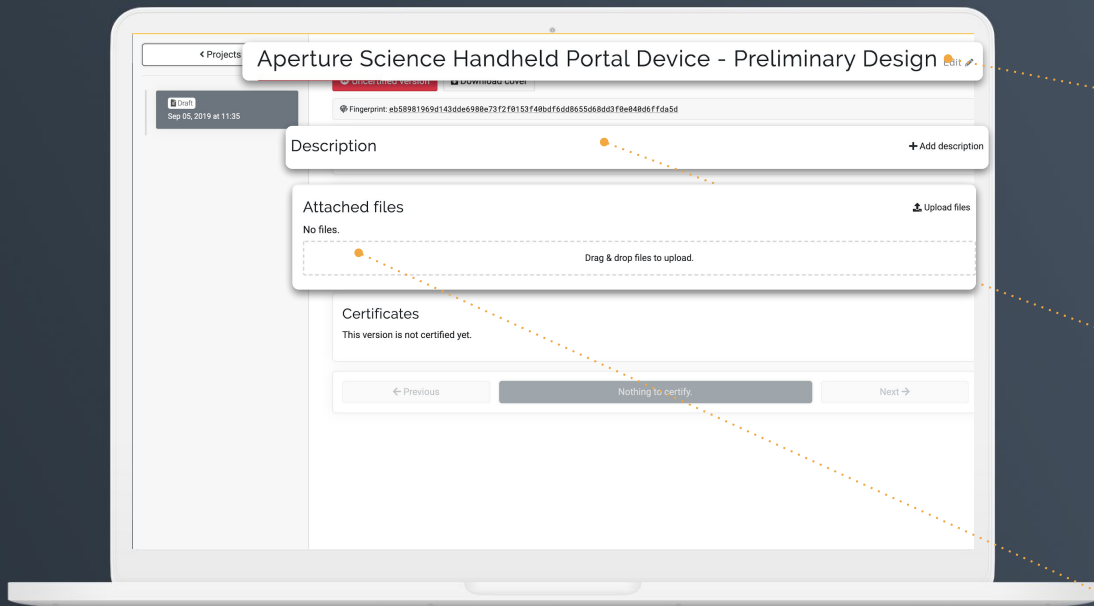
# Project page

Three elements make up a project content.



**The title**: chosen when creating the project, it can be modified here at any time.

**The description:** a simple text box which can be used to add any relevant information, such as description, summary, changelog, contributors, etc. The abstract also gets encrypted and its content is certified and provable.

**Attached files:** An unlimited number of digital files, of every format and size, can be uploaded per drag & drop to become part of the project.

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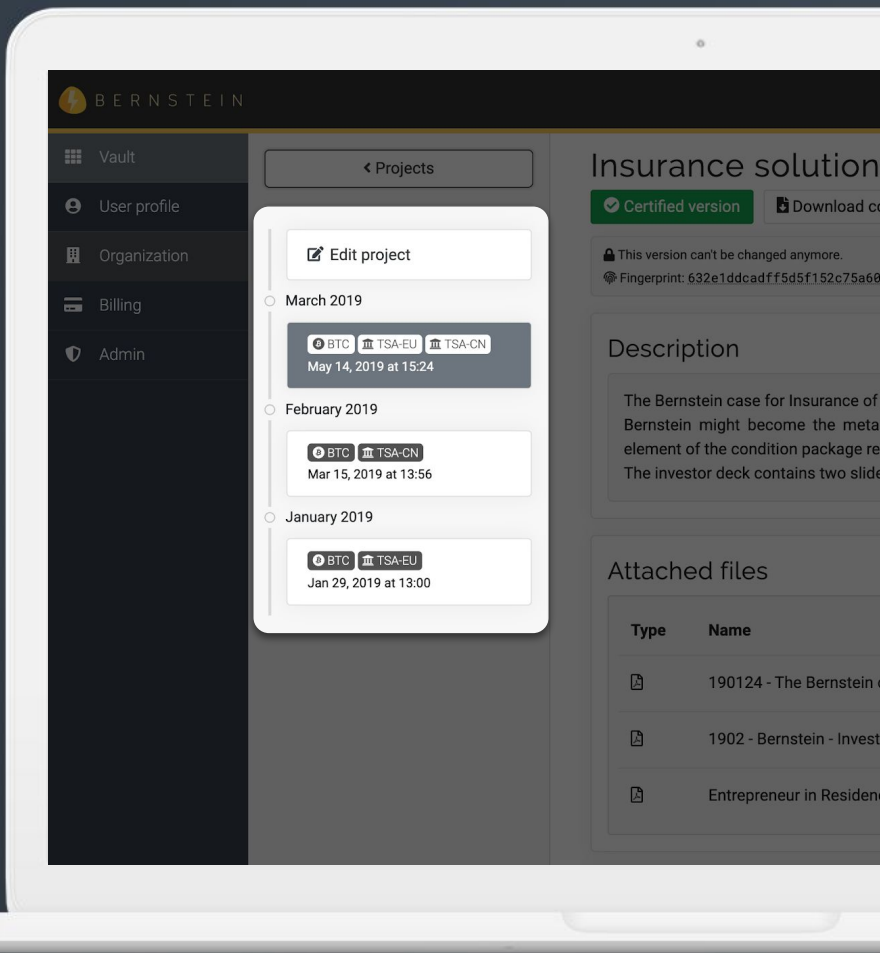
# The timeline

Displayed on the left-hand side, it will get updated with a new version every time you certify your project, allowing you to seamlessly navigate back and forth in time and retrieve the status & content of the project at a specific time.

Clicking on an older version not only lets you see its content, but also download it in the exact same state it was when you certified it, even if the content changed in subsequent versions.

You will, of course, also find the associated certificates below.

# Certifying a project

At this point, it's only a matter of a few clicks to create a Bernstein certificate proving the existence, integrity and ownership of your project. Each certification creates point-in-time registration including:

- The Bitcoin certificate: the most powerful certificate, giving you a mathematical notarization valid globally and forever. It is selected by default.

- The EU Timestamp: officially compliant with the standard set by the eIDAS regulation, and therefore recognized by all European courts with a validity of 30 years.

- The Chinese Timestamp: creates additional evidence approved by a State-run time stamping authority, Unitrust, valid 30 years.

**Certification**

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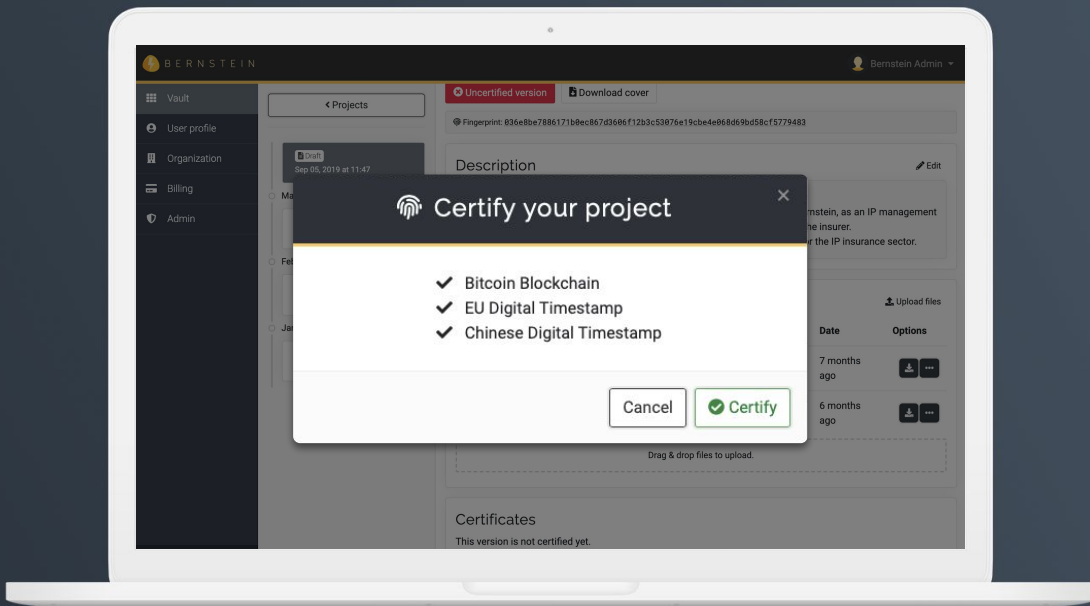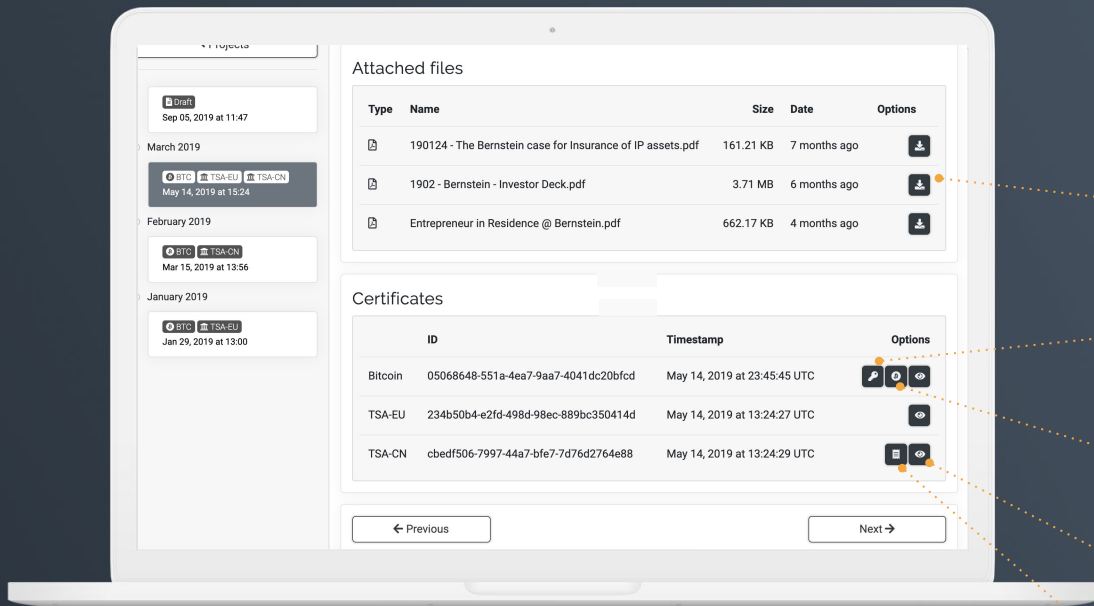
# Certified versions

After confirming, a new version will automatically get created in the timeline, safely keeping the files you just certified intact.

Download the original files

Access to the Bitcoin transaction private keys, necessary to validate the certificate and prove your ownership.

Open the Bitcoin transaction in a public blockchain explorer.

Preview and download the certificate receipt.

Preview and download the official UniTrust certificate.

## Attached files

| Type | Name | Size | Date | Options |
|------|------|------|------|---------|
| 📄 | 190124 - The Bernstein case for Insurance of IP assets.pdf | 161.21 KB | 7 months ago | ⬇ |
| 📄 | 1902 - Bernstein - Investor Deck.pdf | 3.71 MB | 6 months ago | ⬇ |
| 📄 | Entrepreneur in Residence @ Bernstein.pdf | 662.17 KB | 4 months ago | ⬇ |

## Certificates

| | ID | Timestamp | Options |
|--|----|-----------|---------|
| Bitcoin | 05068648-551a-4ea7-9aa7-4041dc20bfcd | May 14, 2019 at 23:45:45 UTC | 🔑 ₿ 👁 |
| TSA-EU | 234b50b4-2fd-498d-98ec-889bc350414d | May 14, 2019 at 13:24:27 UTC | 👁 |
| TSA-CN | cbedf506-7997-44a7-bfe7-7d76d2764e88 | May 14, 2019 at 13:24:29 UTC | 🧾 👁 |

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**Projects**

🖊 Draft
Sep 05, 2019 at 11:47

**March 2019**
₿ BTC 🏛 TSA-EU 🏛 TSA-CN
May 14, 2019 at 15:24

**February 2019**
₿ BTC 🏛 TSA-CN
Mar 15, 2019 at 13:56

**January 2019**
₿ BTC 🏛 TSA-EU
Jan 29, 2019 at 13:00
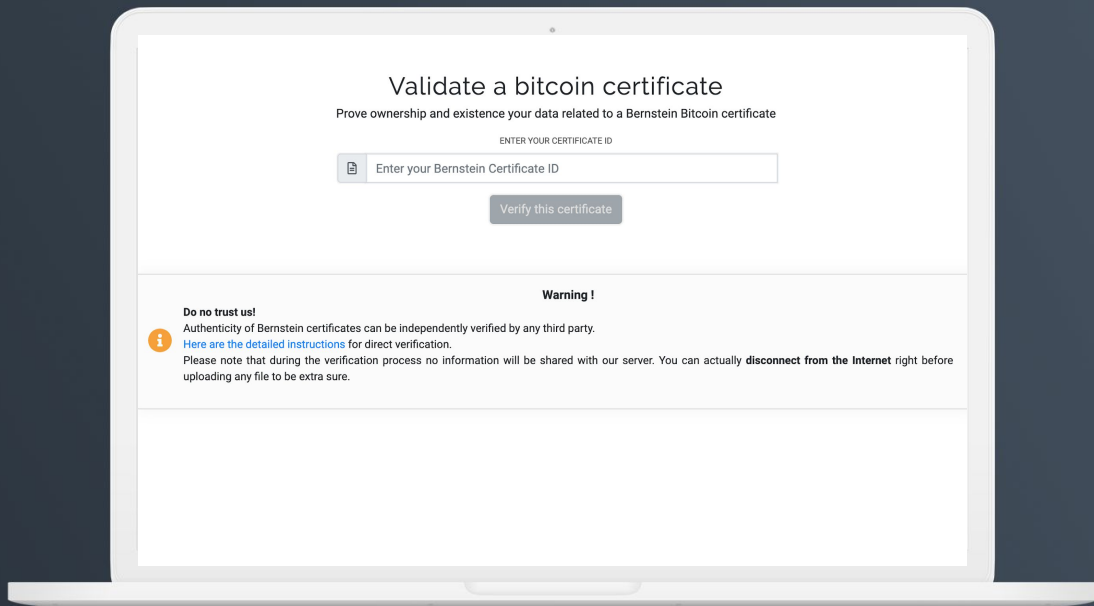
# The Bernstein certificate

The certificate summarizes all the data required to verify its validity.

**The certificate ID**: unique identifier which can be used to reference the certificate and its content in contracts. Also needed to verify a certificate on app.bernstein.io/certificates.

**The transaction ID**: identifies the Bitcoin transaction at the root of the certification. You can find the transaction on any blockchain explorer.

**The public keys**: derived from the private keys found in the app, they cryptographically represent the owner and content of the project on the blockchain.

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## The Bernstein Validator

https://app.bernstein.io/validator

On this page, anyone knowing the certificate ID can get an overview of its details and content.

Uploading a file automatically indicates whether the file is part of the certified content.

The app also lets you conveniently prove ownership by checking the private keys without uploading them to the server.

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# Questions?

Feel free to reach out

## Your contact at Bernstein



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