



B E R N S T E I N

Blockchain certificates for intellectual property management

Munich, 31.01.2018

Why the blockchain will revolutionize IP



How to make your company future-proof?
Together with partners, create a **blockchain-based alternative** for conventional IPR that is **quicker, more transparent, impossible to manipulate**, and works **without middlemen**.



We need to be aware that with blockchain technology the private sector will become an **ancillary record keeper**.

- Francis Gurry -
WIPO Director General



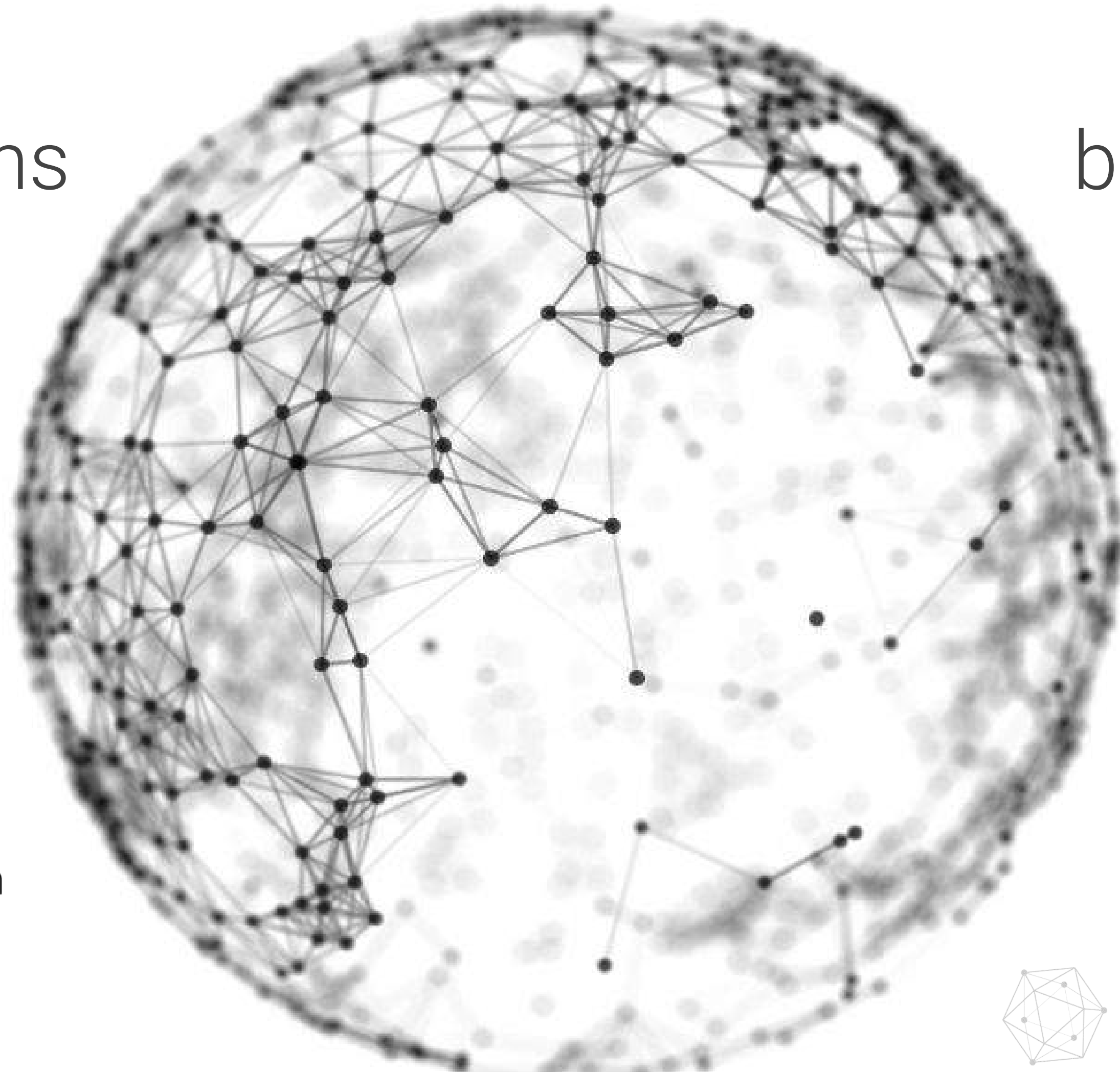
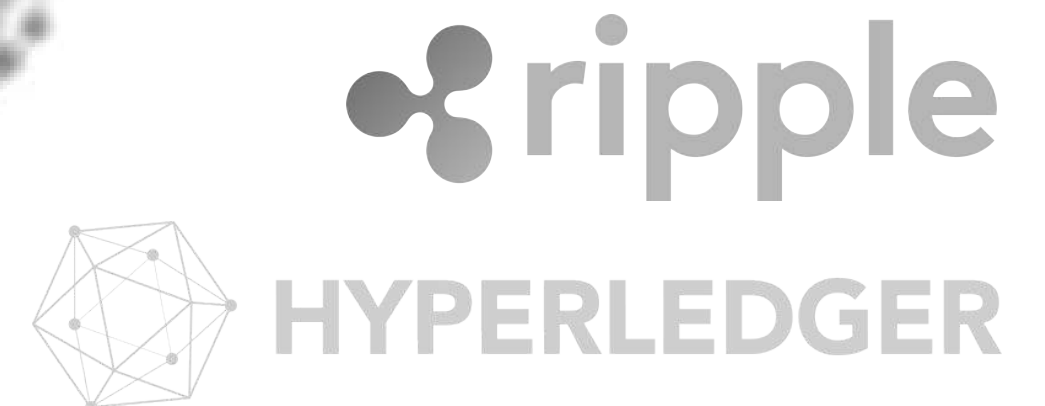
Public blockchains

Decentralized
Permissionless
Uncensorable
Resilient



Private blockchains

Distributed
Permissioned
Trust based





Public blockchains are a new common

{Common: a resource accessible to all members of a society, including natural materials such as air, water and a habitable earth. These resources are held in common, not owned privately.}



A public blockchain is a public registry
with very unique features

The challenges of IP management

Multifaceted and complex:

- Securing trade secrets
- Claiming copyrights
- Proving prior use
- Make defensive disclosures
- Confidentiality agreements
- Technology licenses
- ...

Risks: product delays, wasting R&D money, legal costs, going out of business, litigations, ...

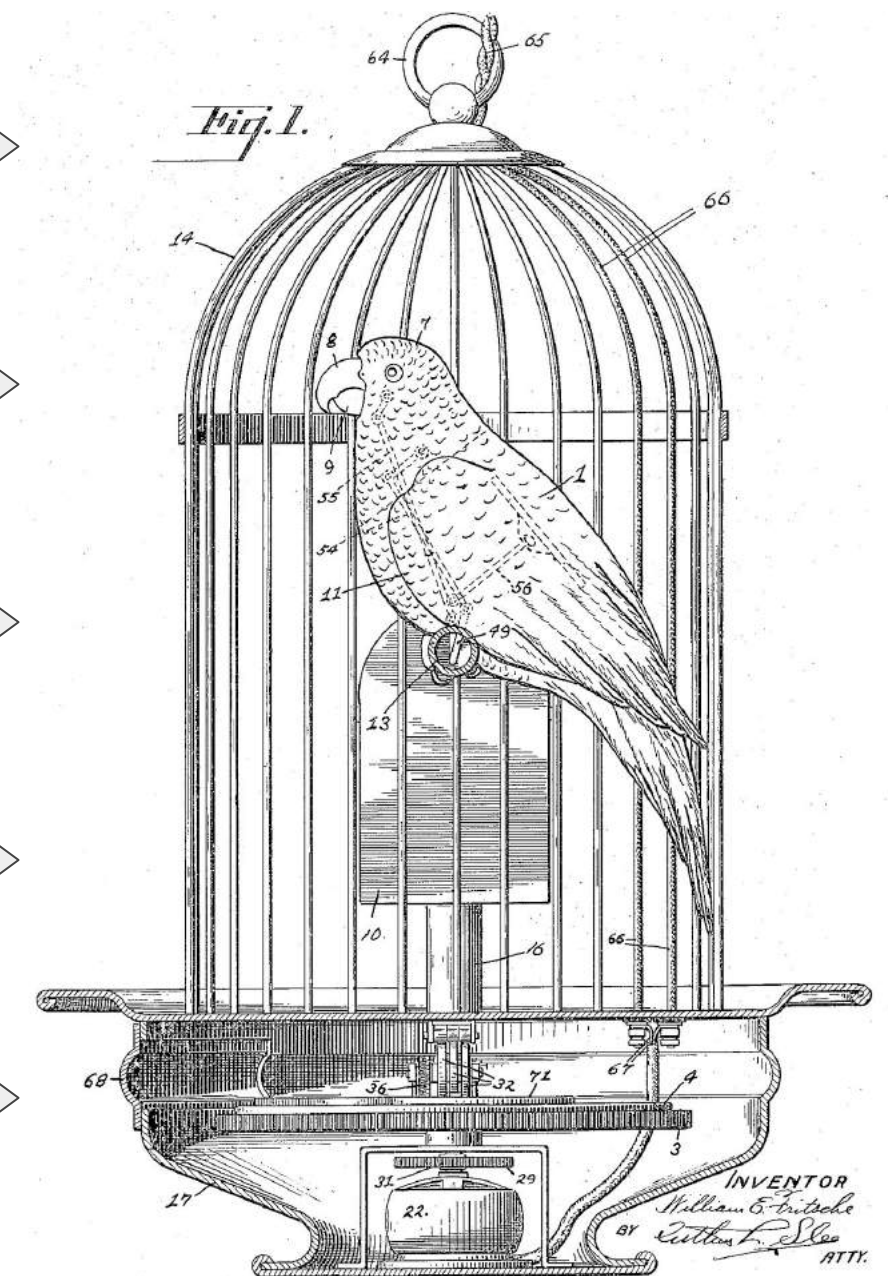
Patent trolls

Competitors

Employees

Hackers

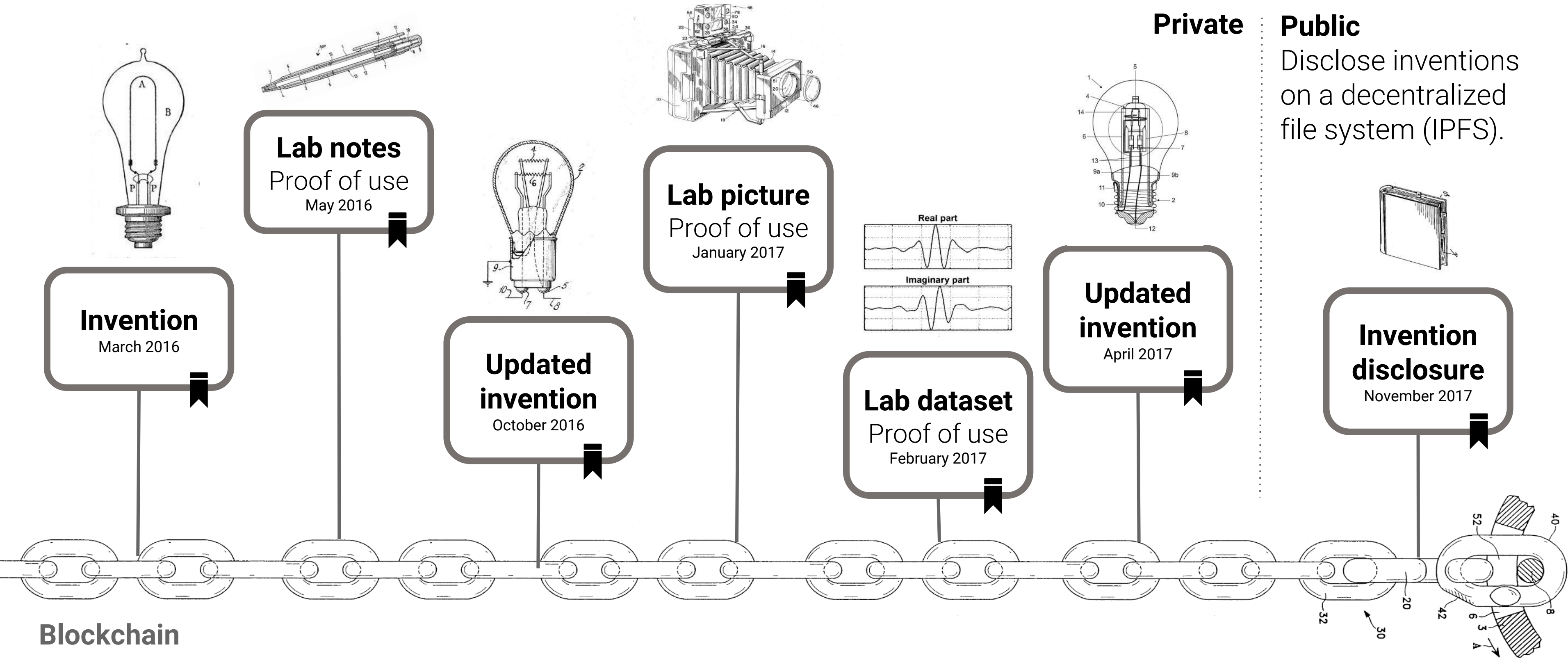
Partners



The blockchain allows companies to create solid foundations to neutralize these risks.

At **low effort** and **low cost**.

The whole innovation lifecycle on the blockchain



Bernstein solutions for a future-proof IP portfolio

Bernstein is a web service that allows innovators to **register IP assets on the blockchain**.

Bernstein's unique protocol will create blockchain certificates that can prove: **existence, integrity** and **ownership**.

Blockchain certificates are linked together to create a **trail of records of the whole innovation lifecycle**.

To improve security and reliability, Bernstein protocol is deployable on **multiple blockchains**, both public and private.

Bernstein also provides digital certificates issued by **timestamping authorities**.

- EU - Bundesdruckerei
- China, Japan, USA, Korea - coming soon



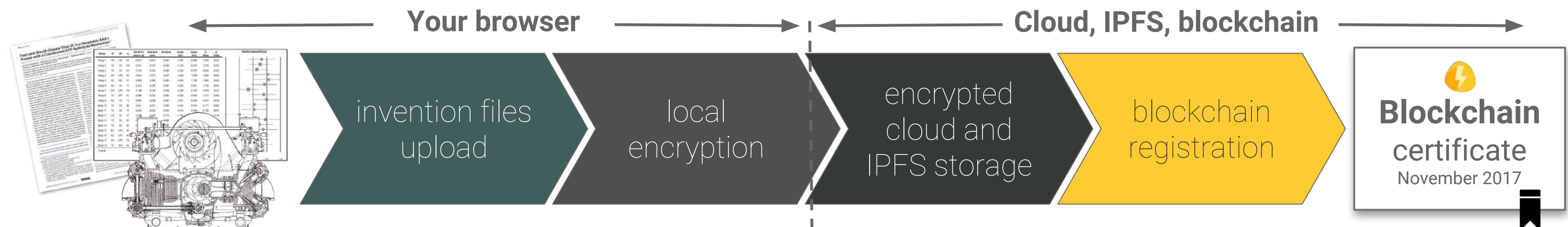
How does Bernstein work?

IP owners just need to select their files, and Bernstein will take care of:

1. inserting a cryptographic fingerprint of the files in a specially crafted bitcoin transaction
2. encrypting all files and associated metadata in the user's browser
3. upload an encrypted copy of the files on an immutable repository

- IP assets are **not disclosed to anyone**, not even to Bernstein itself.
- Bernstein certificates are **independently verifiable** by any third party exclusively against the blockchain.
- The encrypted content of your innovations can be **stored at multiple locations**: cloud, local, IPFS.

This bitcoin transaction is the root of the blockchain certificate issued by Bernstein.



Bernstein blockchain certificates

BERNSTEIN MARCO BARULLI ABOUT MARCO BARULLI

Secure Vault / Marco Barulli / Four blade bi-directional razor structure with flexible guard system

Summary **History** Settings

Cover

FOUR BLADE BI-DIRECTIONAL RAZOR STRUCTURE WITH FLEXIBLE GUARD SYSTEM

Description

Single-head bi-directional razor devices having an elongated bi-directional razor head with flexible edges are disclosed. The razor head may be constructed as a removable cartridge if desired, and the blade strips are positioned within the head in a substantially common working plane, with their sharpened edges of the razor head. The first and second sets of razor blade strips may consist of one, two or three strips, and are preferably mounted for individual spring-loaded movement. The user gently presses the razor head against the skin, then moves the head in one direction for contacting blades from the first set against the user's skin. When the user lifts the razor head from the skin, moves the head in the opposite direction so that blades from the second set contact the skin. The flexible guard system helps manipulate the skin to be shaved so that it is taut. The edges of the blade strips to engage the skin with the appropriate amount of pressure for a closer shave.

Files

Name	Size	Last modified	Type
public-vs-private-pt1-1.pdf	158.65625 KB	2 months ago	application/pdf
The IP Sales Process.pdf	254.1953125 KB	2 months ago	application/pdf
170417 - Stellbrink opinion.pdf	89.6728515625 KB	2 months ago	application/pdf
Screenshot 2017-05-17 at 12.24.59.png	39.1015625 KB	2 months ago	image/png

BLOCKCHAIN CERTIFICATE


The file or collection of files referred hereunder existed and was presented in the date and time printed down below by the entity identified as Project Owner.

Aperture Science Handheld Portal Device

Project Owner: Aperture Laboratories Registration Date: 23.06-.2016 18:05:38 UTC

Project Hash: 28299503e35d9d500acf21e3eb6e99952b2b6e7336c908712fcd6577dcd3fa0bc

TX: 02b082113e35d5386285094c2829e7e2963fa0b5369fb7f4b79c4c90877dcd3d Block:2664844



Project Owner public key (A): db9bdd543e72fe3039a1f1c0470e28da1848f640de68c2ee9132

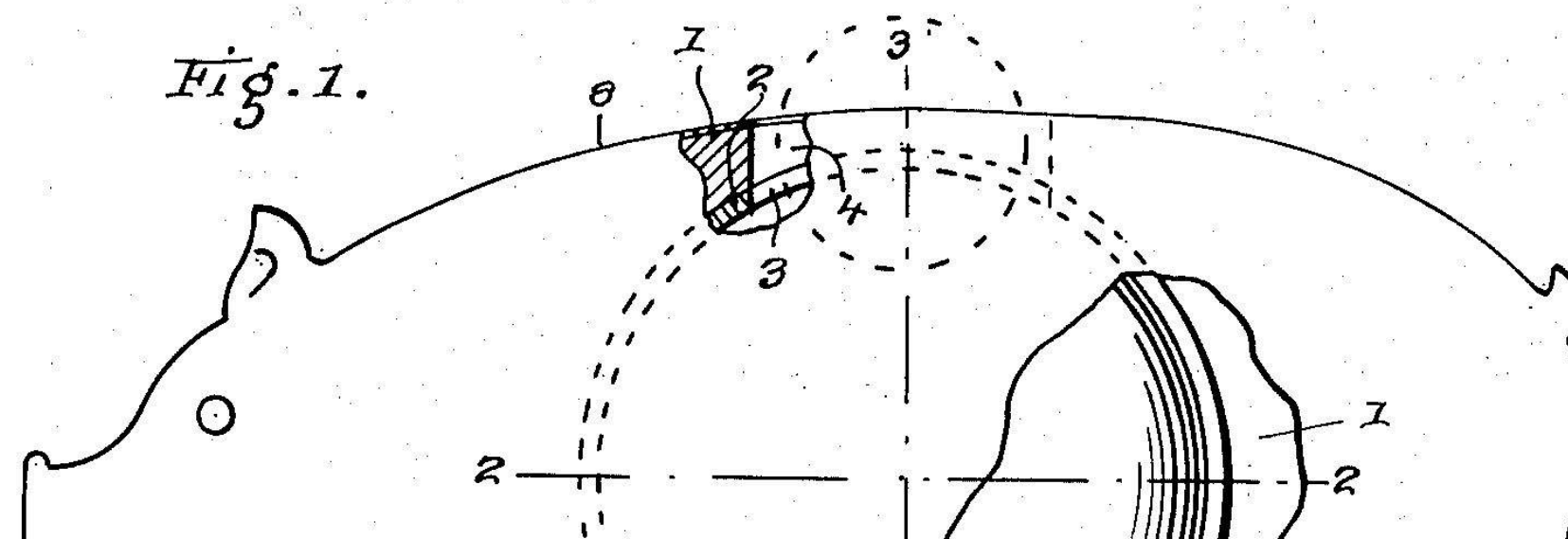
Project data public key (B): 046ce31db9bdd543e72fe3039a1f1c047a669ff90e28da1848f640de68c2ee9132

Bernstein public key (C): 046ce31db9bdd543e72fe3039a1f1c047a669ff90e28da1848f640de68c2ee9132

Benefits of blockchain certificates

- Secure trade secrets
- Prove prior knowledge
- Prove prior use
- Fight patent trolls
- Deter unloyal employees and partners
- Define and protect the largest IP perimeter
- Secure copyright
- Keep your privacy
- Notarize every file format
- Save time, save money
- Easy deployment even to large, dispersed organizations.

In a first-to-file world, defensive IP strategies are becoming increasingly important.



Use case


Enhanced confidentiality agreements

The NDA dilemma:

- broad ⇒ unenforceable
- specific ⇒ complex, discloses trade secrets

Blockchain enhanced NDA:

- simple, strong, private



NONDISCLOSURE AGREEMENT

1. This Nondisclosure Agreement (the "Agreement") is entered into by and between

("Disclosing Party")

and

("Receiving Party")

for the purpose of preventing the unauthorized disclosure of Confidential Information as defined below. The parties agree to enter into a confidential relationship with respect to the disclosure of certain proprietary and confidential information ("Confidential Information").

2. For purposes of this Agreement, "Confidential Information" shall include all trade secrets and confidential information designated as such by the Disclosing Party prior or at the time any such trade secret or confidential information is transmitted to the Receiving Party. Notwithstanding the foregoing, any information transmitted by the Disclosing Party to the Receiving Party concerning:

shall constitute Confidential Information.

3. Receiving Party's obligations under this Agreement do not extend to information that is: (a) publicly known at the time of disclosure or subsequently becomes publicly known through no fault of the Receiving Party; (b) discovered or created by the Receiving Party before disclosure by Disclosing Party; (c) learned by the Receiving Party through legitimate means other than from the Disclosing Party or Disclosing Party's representatives; or (d) is disclosed by Receiving Party with Disclosing Party's prior written approval.

4. Receiving Party shall hold and maintain the Confidential Information in strictest confidence for the sole and exclusive

Blockchain-enhanced NDA

Between "Legal person or entity A" hereinafter referred to as "**Inventor**" and "Legal person or entity B" hereinafter referred to as "**Recipient**"

Whereas:

Inventor and Recipient intend to collaborate on a joint project and, in order to define the nature and content of the collaboration, the Inventor wishes to share technical and/or commercial information of a confidential nature with the Recipient that will ensure that the same remain confidential. Now, therefore, it is hereby agreed as follows:

- For the purposes of this Agreement "Confidential Information" shall mean such technical and/or commercial information as univocally identified by Annex A, a blockchain certificate issued via Bernstein Technologies GmbH, the specific certificate number being xxxx-yyyy-wwww-zzzz.
- Additional information disclosed by the Inventor to the Recipient during the collaboration should be considered part of the Confidential Information only if:
 - the new information is identified by a new blockchain certificate logically linked to the one mentioned in 1. (see Annex 2 for technical details)
 - the new blockchain certificate is transmitted to the Recipient along with the new information.

Legislators are paving the road for blockchain records

QUARTZ

Sweden's blockchain-powered land registry is inching towards reality

By Joon Ian Wong | April 03, 2017



DUBAI BLOCKCHAIN STRATEGY

The Dubai Blockchain Strategy, launched by His Highness Sheikh Hamdan, is the result of a collaboration between the Smart Dubai Office and the Dubai Future Foundation to continually explore and evaluate the latest technology innovations to create a more efficient, and...

Delaware is Drafting Law That Will Recognize Blockchain Records

Garrett Keirns (@garrettkeirns) | Published on March 15, 2017 at

Delaware is inching closer to using blockchain as a means to create and manage corporate records.

Though the process is in the early stages, a group within the Delaware State Bar Association's Corporation Law Section has released a [proposed piece of legislation](#) that would establish a legal basis for using the technology for this purpose. Specifically

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NEWS

Technology

Government urged to use Bitcoin-style digital ledgers

19 January 2016 Technology

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efficient, and...
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Blockchain...
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Our vision

Decentralized technologies for IP

Bernstein will keep selecting and building on top of the most secure, uncensorable, and reliable decentralized technologies: Bitcoin, IPFS, sidechains, ...

Today

Making the most of the current opportunities in the IP market.

Tomorrow

Turn Bernstein into the portal that enables the whole IP industry to access decentralized infrastructures.

Eventually launching its own token to enable a complete new way to secure, manage and trade intellectual property. On a global scale.

Team & Contacts



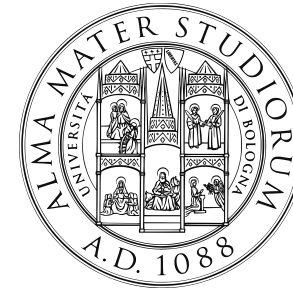
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Managing Director



Paul Reboh
Chief Technology Officer



Jean-Maxime Rivière
Business Development



Advisors



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Deloitte Digital - LMU



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