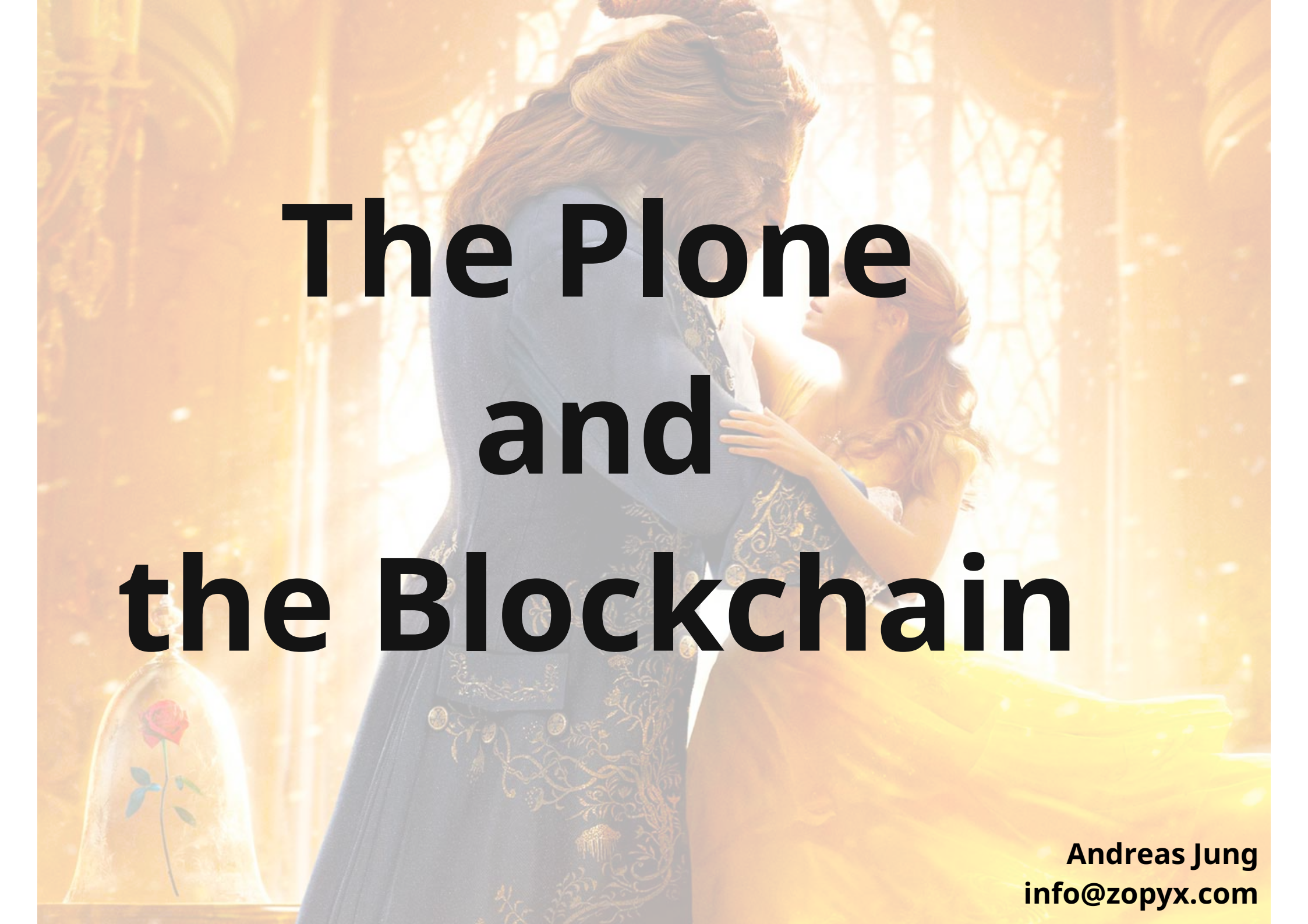




A romantic scene from Disney's Beauty and the Beast. Belle, in her iconic yellow gown, is embracing the Beast, who is in his blue suit. They are standing in a grand ballroom with large windows in the background, through which warm sunlight is streaming, creating a golden glow. In the bottom left corner, the enchanted glass bell jar containing the rose is visible.

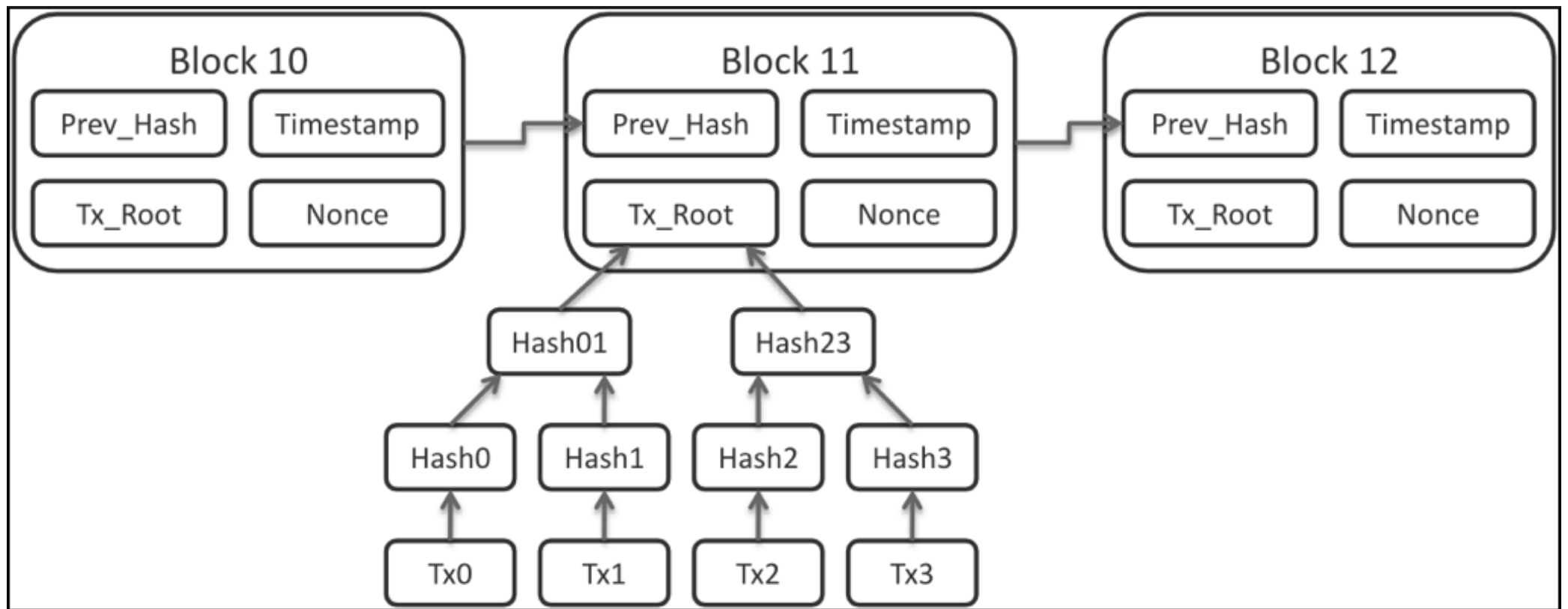
The Plone and the Blockchain

Andreas Jung
info@zopyx.com



Blockchain

- Base technology behind Bitcoin/Bitcoin transactions
- Not bound to crypto-currencies
- **Distributed** data-structure (usually based on P2P)
- **Decentralized** (no central entity of control)
- **Safe and Secure**
- Transaction data is kept into a block
- Transaction blocks are linked and hashed with the cryptographic hash to the predecessor block



Usecases and Industries

- Auditing
- Financial transactions
- Logistics
- B2B
- Quality Assurance, SOP, ISO 9000....
- Legal
- Automotive
- Many others

A romantic scene from Disney's Beauty and the Beast. Belle, in her iconic yellow gown, is looking up at the Beast, who is wearing a dark blue suit with gold embroidery. They are standing in a grand ballroom with large windows in the background, through which sunlight is streaming, creating a warm, golden glow. In the bottom left corner, the enchanted glass bell jar with a red rose inside is visible.

Relation to Plone and Content Management?

Blockchain and Content?

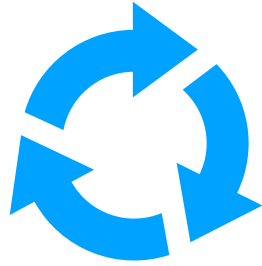
- Revision safety
- Audit-trail
- Verification of content integrity and authenticity
- Content use-cases
 - SOP (medical, healthcare)
 - Legal documents (contracts)
 - Technical documentation
 - ...

Building a prototype with Plone and Blockchain technology

- Usecase:
 - Plone-based collaborative editorial environment in the field of quality assurance
 - Revision-based publication workflow ($1 \rightarrow 2 \rightarrow \dots \rightarrow N$) on blockchain technology
 - XML-based publication workflow $\rightarrow$ PDF, HTML, EPUB
- Ingredients
 - **Plone**
 - **SMASHDOCs** (collaborative editor similar to Google Docs but embeddable into every CMS and web app)
 - **BigChainDB** (database (cluster) for blockchain data, focus on



Collaborative Editor for any CMS



XML-Director

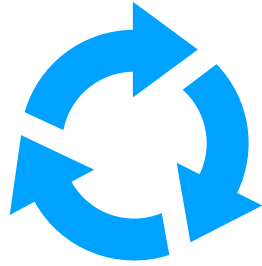
Plone

BaseX

BigChainDB



Collaborative Editor for any CMS

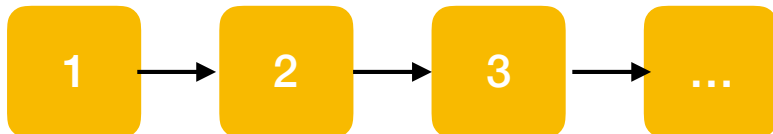


XML-Director

Plone

BaseX

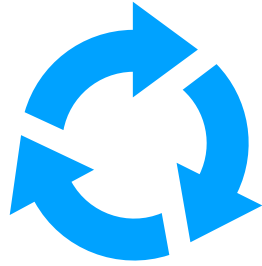
BigChainDB



Document lifecycle



Collaborative Editor for any CMS



XML-Director

Plone

BaseX

BigChainDB

Metadata

Assets

Hashes

1

2

3

...

Document lifecycle

PDF, HTML, XML, images, DOCX, Redline

BigChainDB

Revision	File	Hash (SHA256)
1	index.html	e3b0c44298fc1c149afb4c8996fb92427ae41e4649b934ca495991b7852b855
1	index.pdf	...
1	image1.png	...
1	Image2.svg	...
2	index.html	2163518351287635281735128375218735218371538753817352187352183
2	index.pdf	...
2	image1.png	...
2	Image2.svg	...

A romantic scene from Disney's 'Beauty and the Beast' featuring the Beast and Belle in a grand ballroom. The Beast, in his blue embroidered coat, stands close to Belle, who is in her iconic yellow gown. They are looking at each other with affection. In the bottom left corner, the enchanted rose is visible under its glass dome. The background is filled with warm, golden light from large windows.

Get in touch!

Andreas Jung
info@zopyx.com