

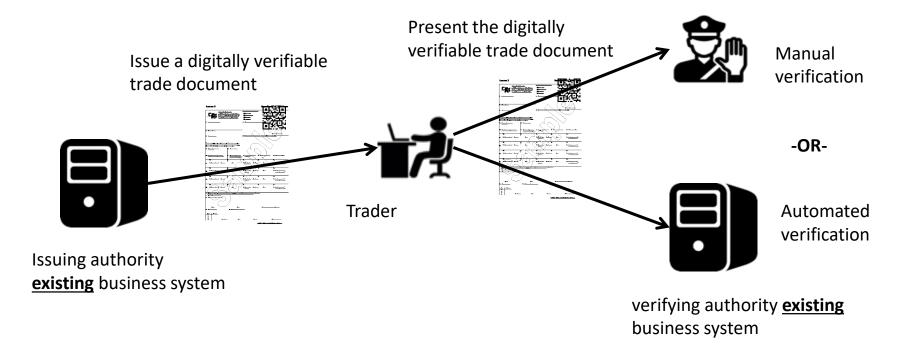


Verifiable Credentials for Cross-border trade

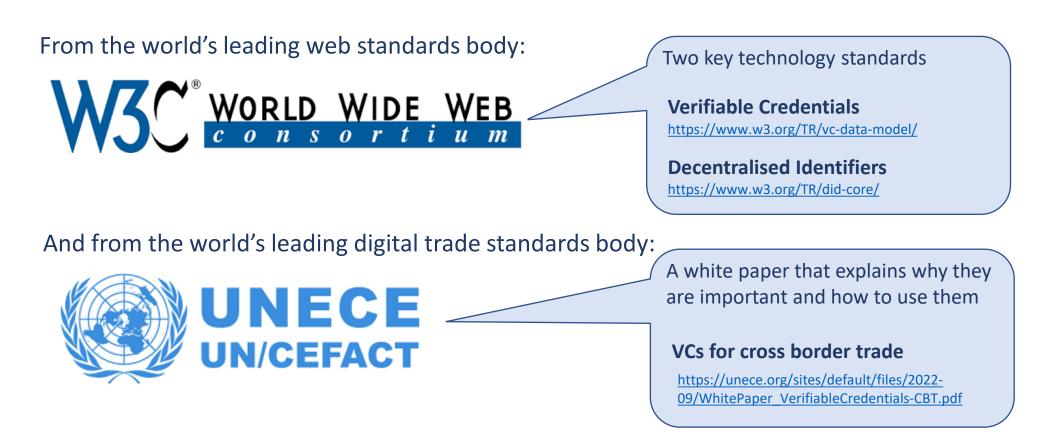
Steve Capell steve.capell@gmail.com



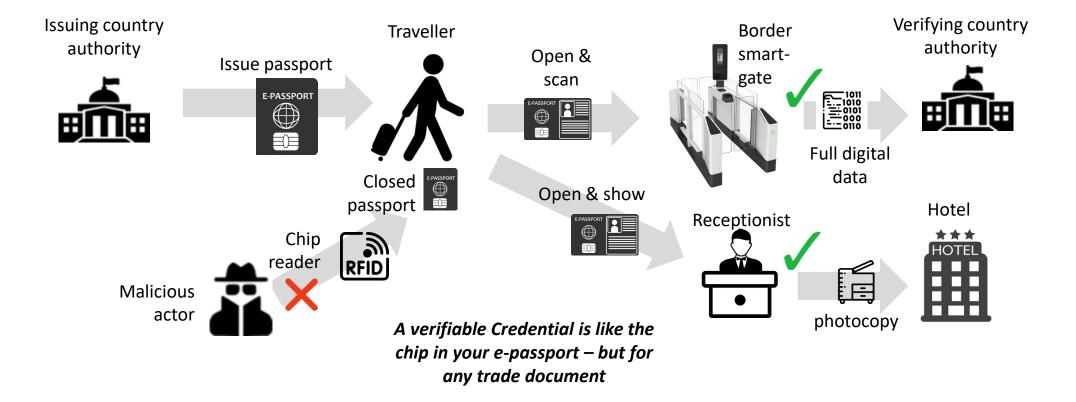
A new data exchange framework



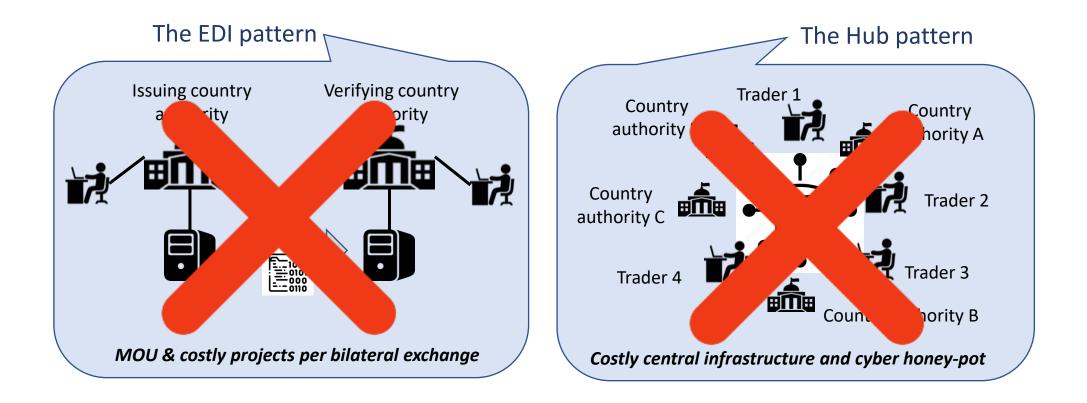
Using some new technology standards



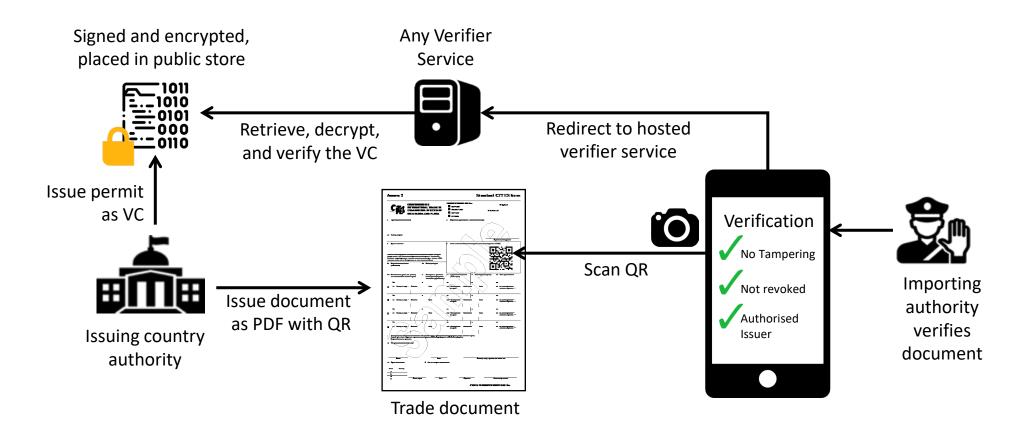
Which are best understood with an analogy



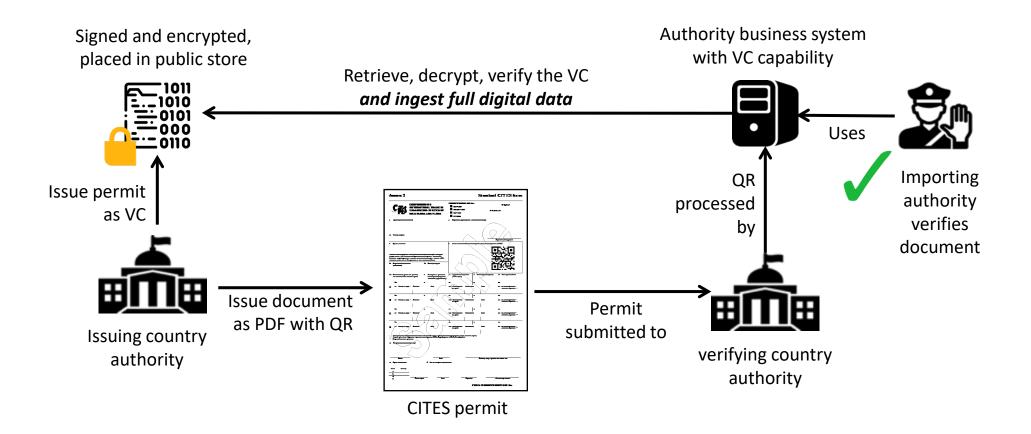
They are cheaper and simpler than alternatives



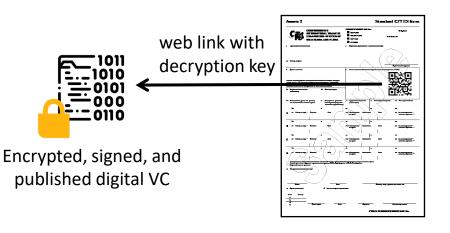
VCs can be verified simply by scanning a QR



But advanced verifiers can still get all the data.

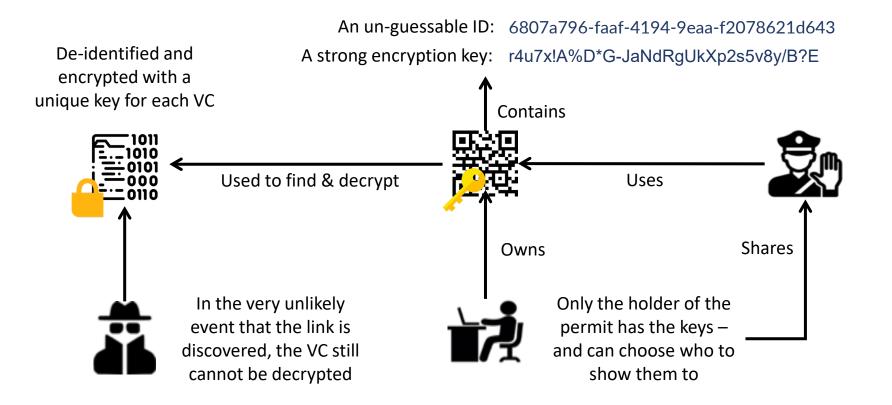


Wait, the same document is both paper and digital?

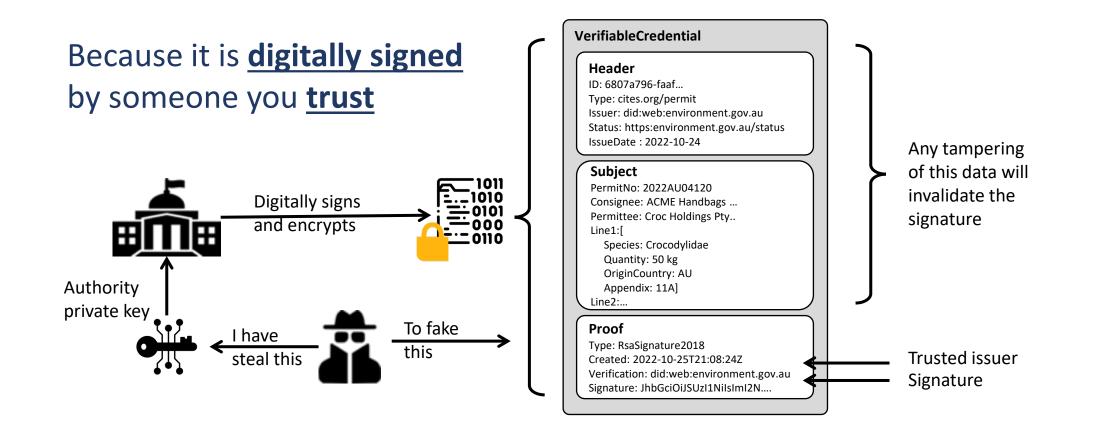


PDF or HTML rendering of the digital document **Yes!** – and this is the key to scalability. You can go 100% digital without any dependency on verifier digital maturity

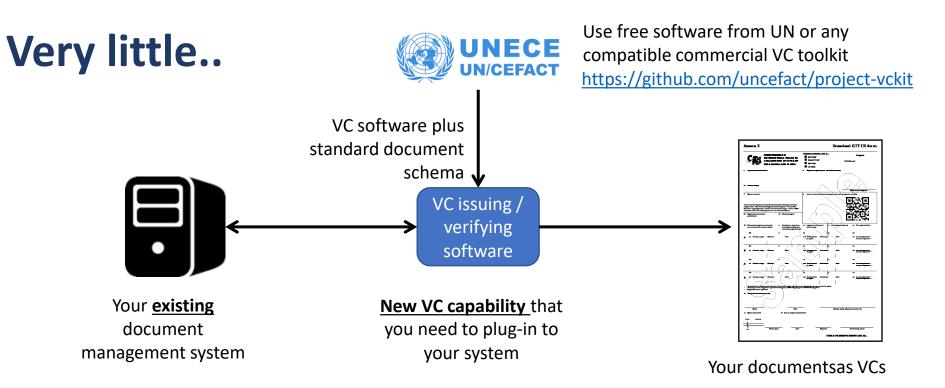
Published & public? But what about privacy?



And how can I be sure that the VC is genuine?



OK, what is it going to cost me to issue these?



Wont I need some blockchain stuff?

Some VC solutions do use some blockchain – but it adds very little value.



Lets see it working – scan this QR code

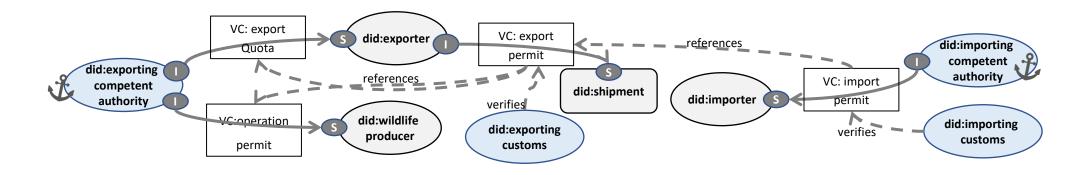
A Certificate of Origin as a VC



- Note the human readable version
- But click on the "JSON" tab to see the machine data

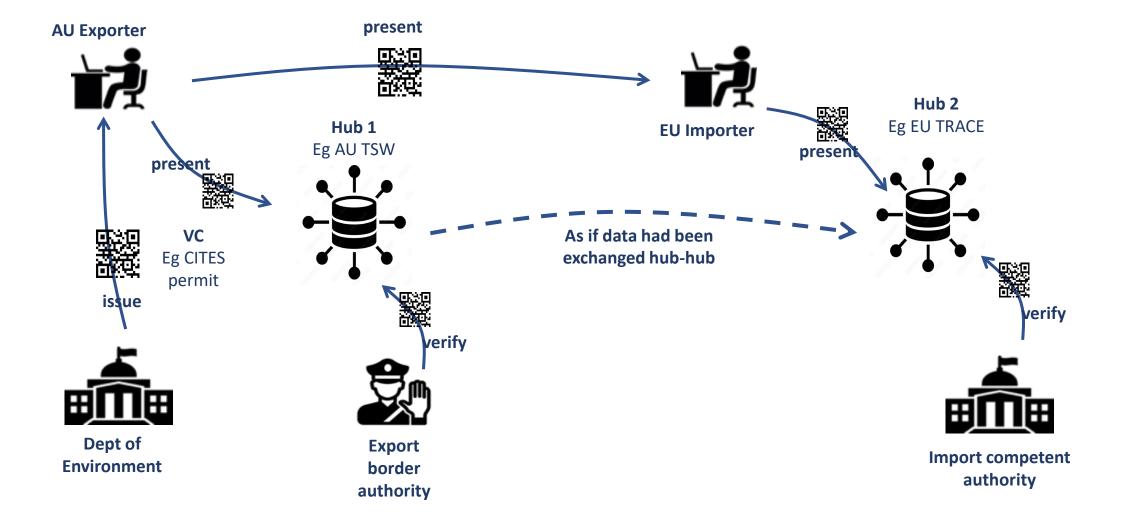
Note : We use a certificate of Origin as the sample – but could equally be any trade document

An advanced topic to close – trust graphs



VCs can be linked together to form chains of trust. For example an importer permit linked to an export permit that is linked to a quota license and to an authorised wildlife producer. We call the linked set of credentials a <u>trust graph</u>. Valuable trust graphs are traceable to a <u>trust anchor</u>.

Some nodes can be hubs – VCs glue them together



In summary – it's the best way forward

Verifiable Credentials for global electronic trade

Scalability – Go 100% digital without dependencies
Cost – No central infrastructure and free software
Privacy – No honeypot cyber-threat
Integrity – cryptographically verifiable trust



Please feel free to contact me at <u>Steve.capell@gmail.com</u>

Now let's do a walk-through of the white-paper.

https://unece.org/sites/default/files/2022-09/WhitePaper VerifiableCredentials-CBT.pdf