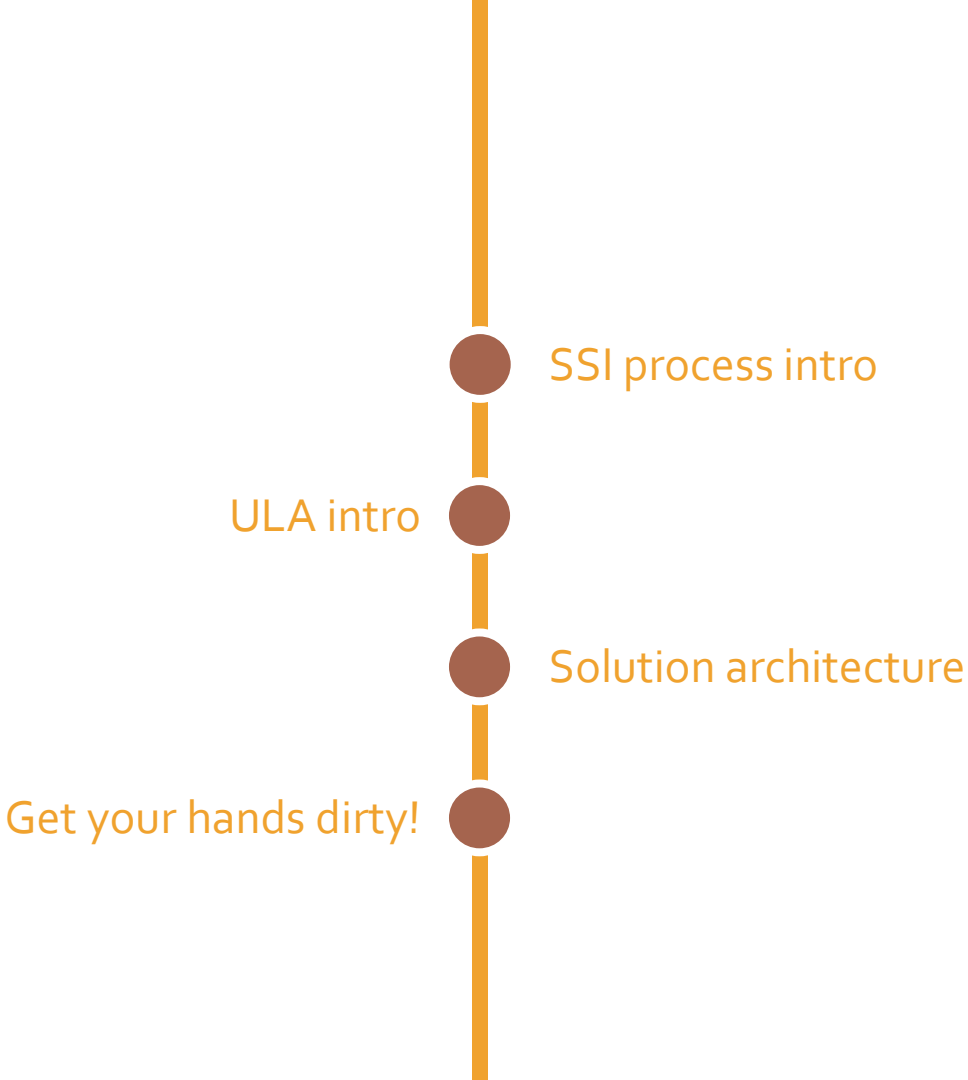
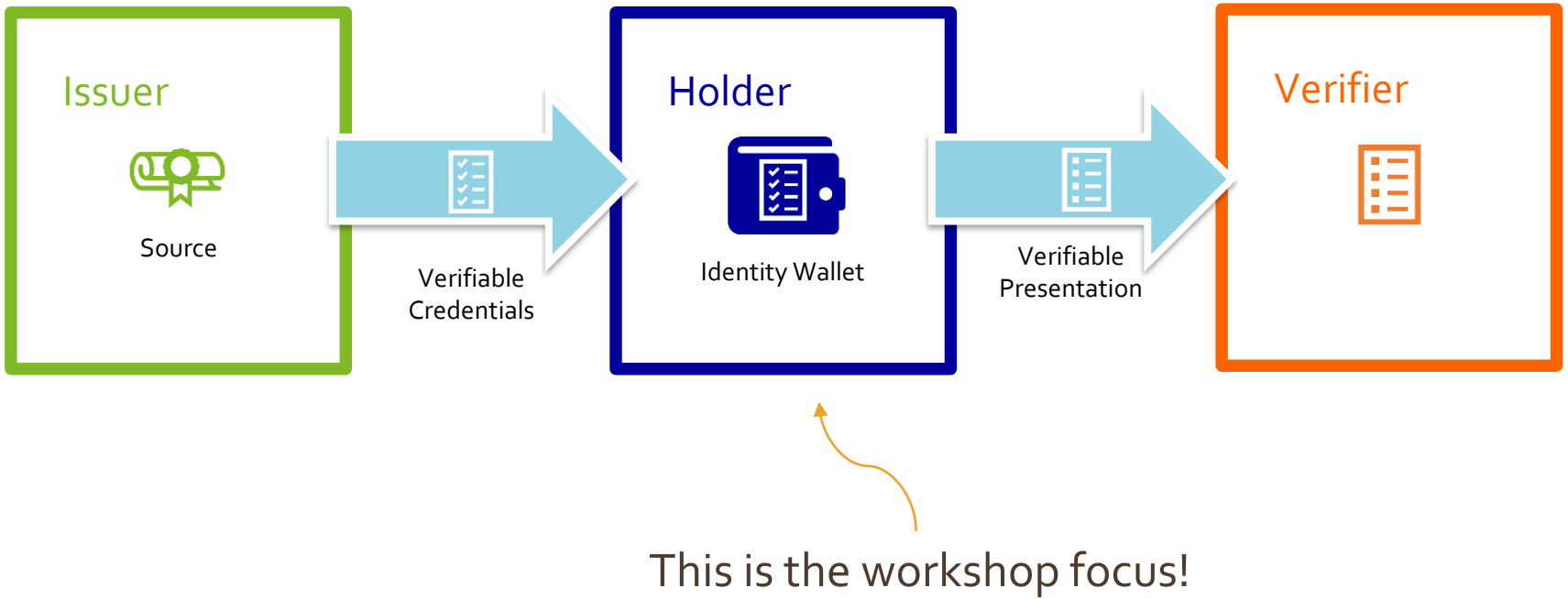
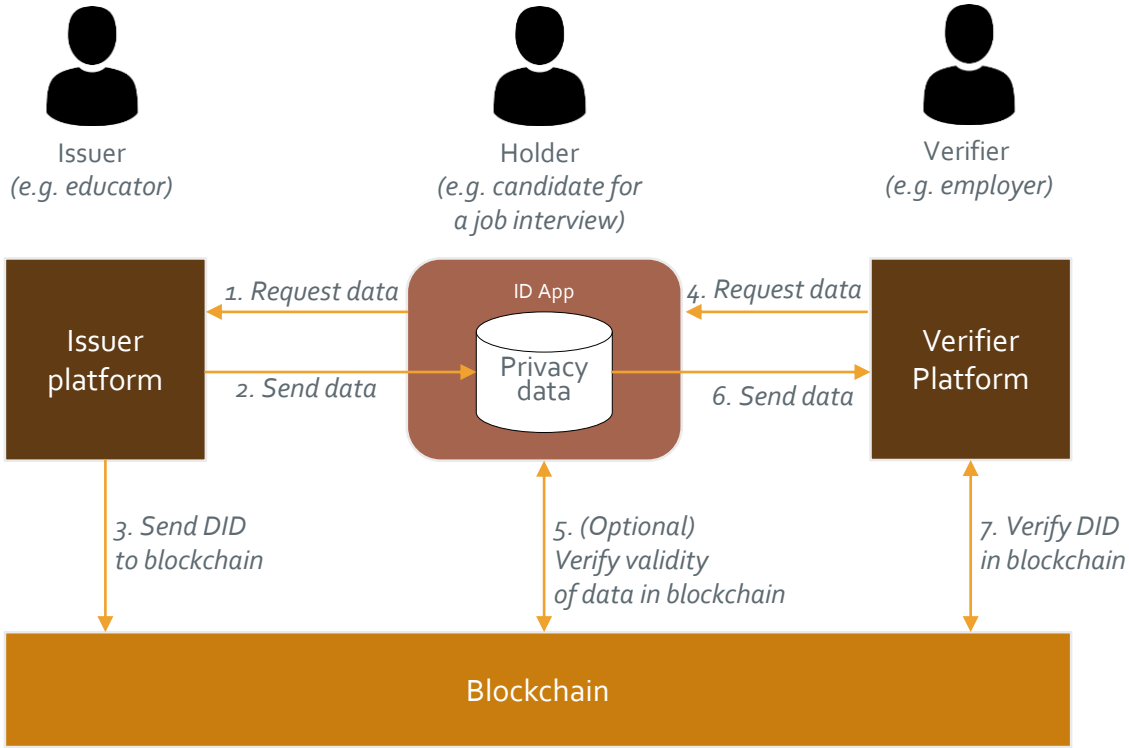
Agenda


SSI process intro
ULA intro
Solution architecture
Get your hands dirty!

Generic architecture overview



The concept


Issuer
(e.g. educator)
Holder
(e.g. candidate for a job interview)
Verifier
(e.g. employer)
Issuer platform
1. Request data
2. Send data
ID App
Privacy data
4. Request data
6. Send data
Verifier Platform
3. Send DID to blockchain
5. (Optional) Verify validity of data in blockchain
7. Verify DID in blockchain
Blockchain

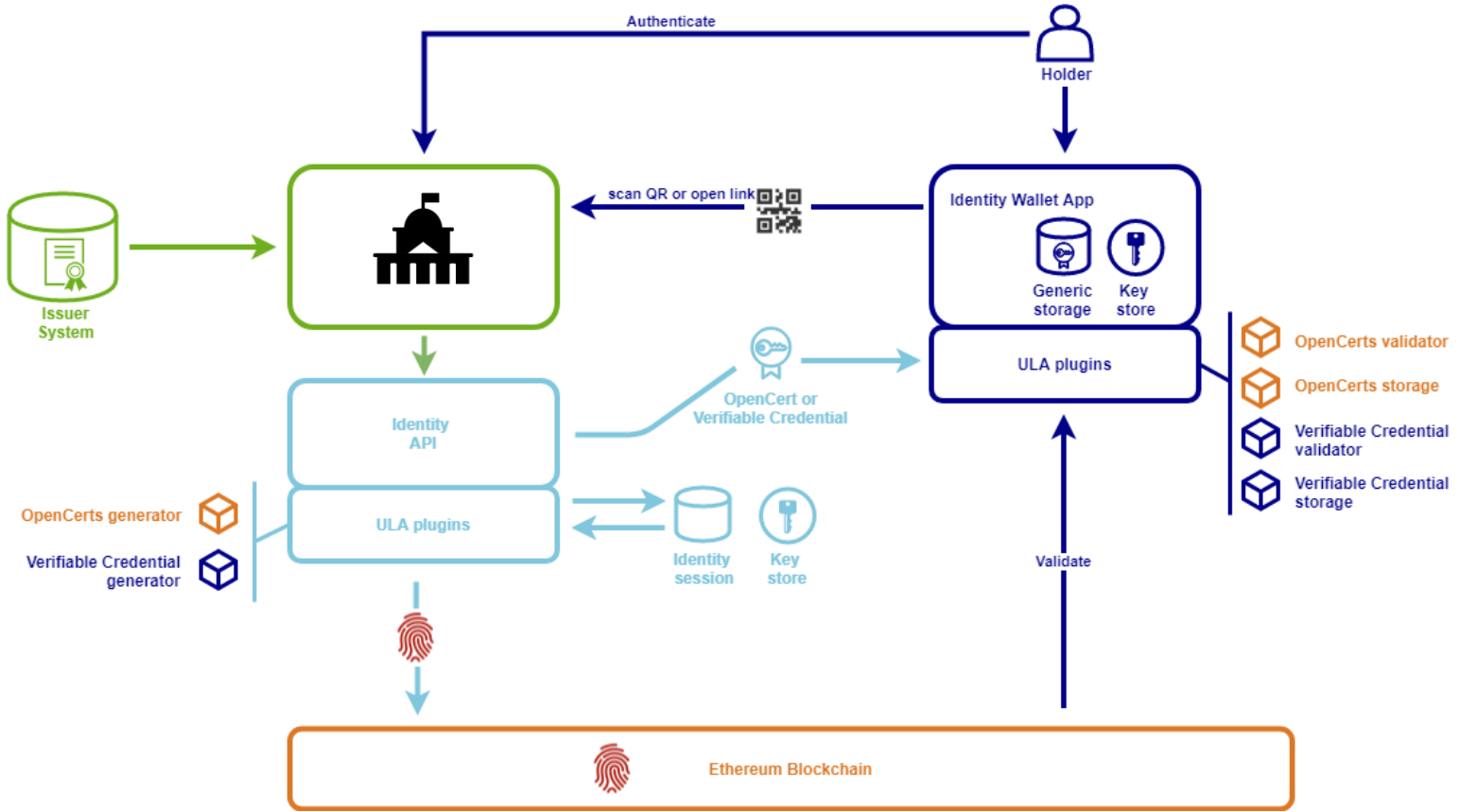
Universal Ledger Agent

Solving interoperability issues

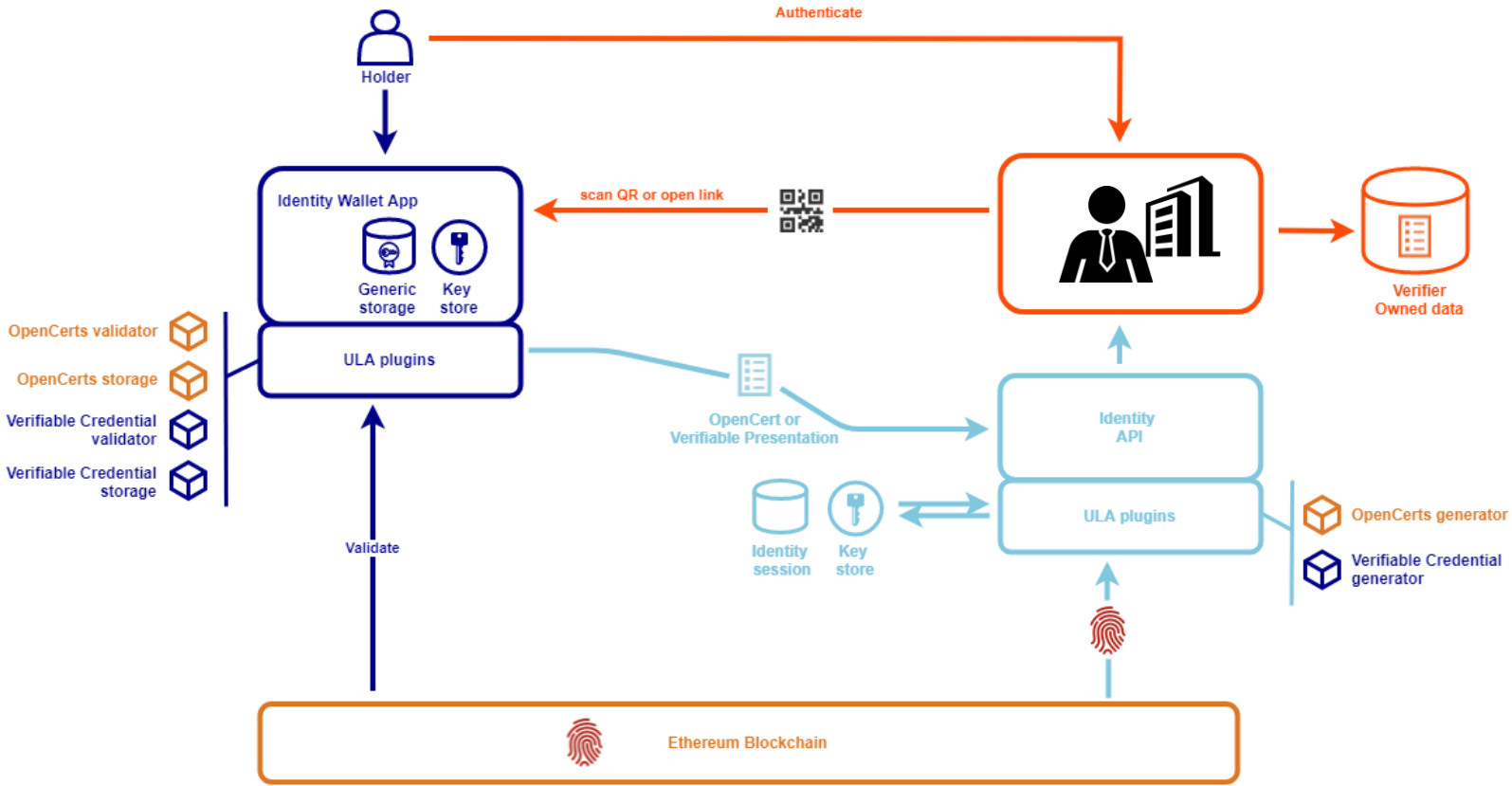
- 1 app = 1 protocol?
- ULA abstraction layer
- Modular framework, embedded in the application
- JavaScript (browser & Node)

Solution architecture: Issuer + Holder

Demonstrating the coexistence of two protocols



Implementation #2: Holder + Verifier



Why this workshop?

- Get an understanding of self-sovereign Identity
- Get familiar with the ULA
- Share your developer experience with us
  - Did you find any bugs?
  - How is the documentation?
  - What can we improve?
- Build your own community ULA plugins!

- https://workshop.balinno.nl/register -> Only use fake data!
  - This process is for inserting your fake data into the demobank database
  - Specify the use of W3C Credentials in the form, otherwise it won't work
  - After regstering, you can log in through https://workshop.balinno.nl/
  - Click on each data point and generate a QR code
- Clone/fork https://github.com/rabomarnix/ula-holder-workshop.git
- Follow the README
  - Follow the setup steps and try to run the app in your browser first
  - *Go to the next slide*

- Complete all TODO's
  - Open the ULA integration guide link
  - Start at `ula.service.ts` and initialize all dependencies and plugins as explained in the integration guide
  - Then finish these pages: `scan-qr.page.ts, consent.page.ts`
  - After completing the three files, you can scan the QR codes
  - Use `console.log()` to analyze the process & callback data
- Start the verifier flow (next slide)

https://github.com/rabobank-blockchain

- https://workshop-verifier.balinno.nl/
  - Use the same account to log in
  - Click on each datapoint and generate a QR code
  - After successfully scanning the QR, the values will be visible in the screen after a few seconds