



DE4A SSI Framework

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DE4A Workshop: Highlights for Other Projects

October 25, 2023 (online)

DE4A has received funding from the European Union's Horizon 2020 research and innovation programme under GA. No. 870635



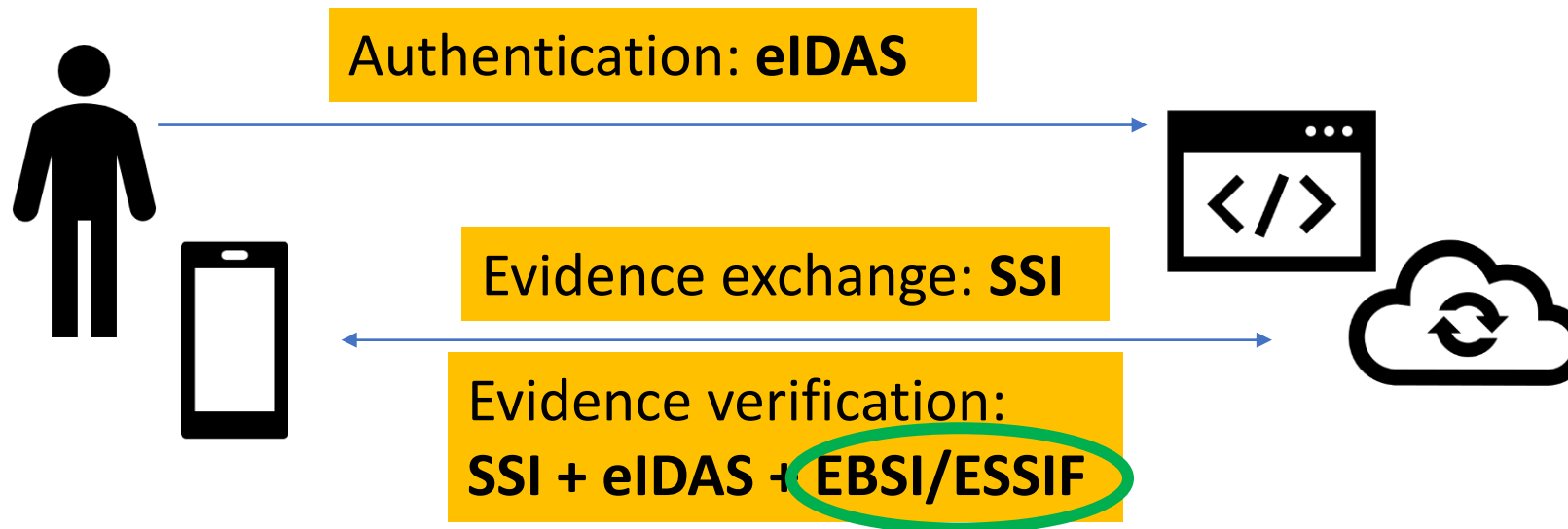
1. Introduction – VC Piloting, EBSI Early Adopters Programme
2. DE4A-EBSI Integration
3. General Architecture
4. Main Results
5. Public References



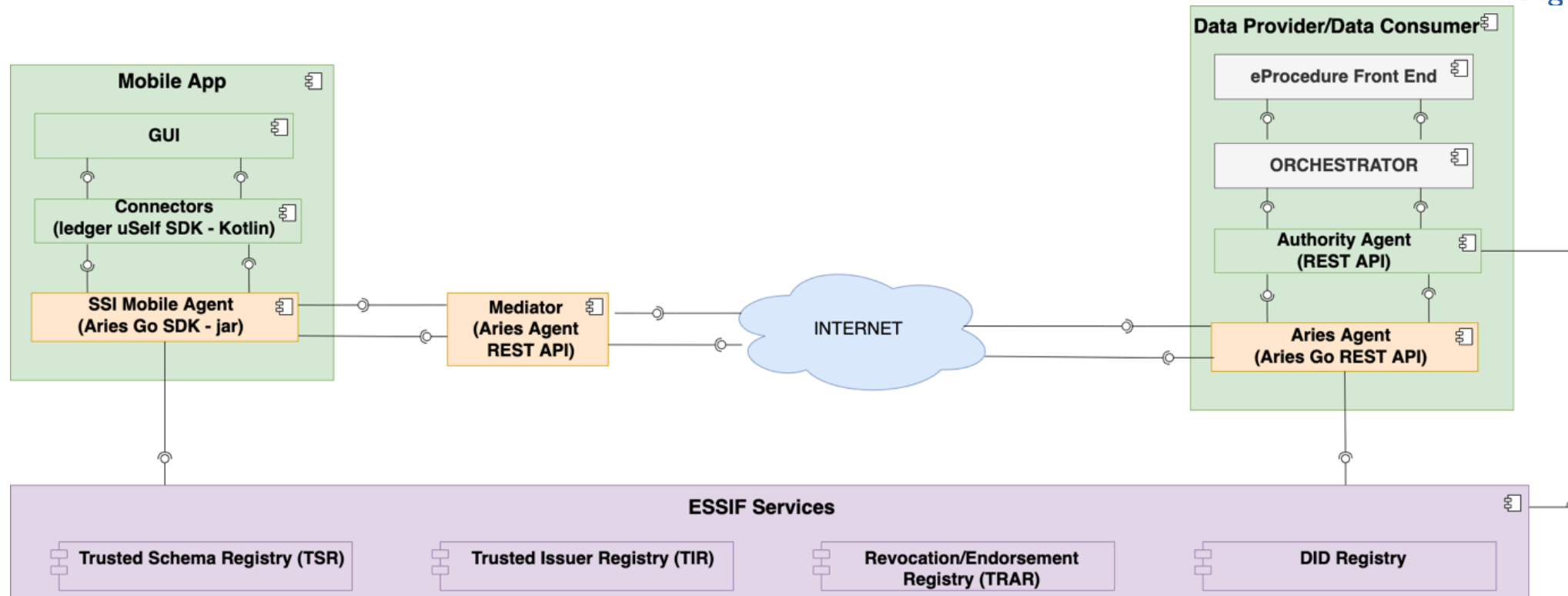
2. DE4A – EBSI Integration

Study Abroad Pilot: Diploma recognition (UC#3)

- DE4A uses eIDAS to facilitate the **authentication** process at **DP and DC**
- DE4A uses SSI approach to facilitate the **user-centric evidence management and exchange as VCs**
- SSI + eIDAS + [EBSI/ESSIF](#) for the **evidence verification**



3. General Architecture



DE4A uses EBSI/ESSIF services to:

- ✓ Anchor Competent Authorities' DID in EBSI infrastr. (DID registry)
- ✓ Register Competent Authorities (DPs) into TIR (Trusted issuer's Registry)
- Schema validation against EBSI register (Trusted Schema Registry)



4. Main results

- **Highly optimized end-user flows asynchronous GUI** for the final versions of Authority Agent and Mobile App
- Updated EBSI public DID generation (***DID Registry***)
- Registering the Data Providers in EBSI Trusted Issuer (***TIR***)
- Signing Verifiable Credentials with the EBSI **compliant DID** and generating signed Verifiable Presentations
- Verifiable Credentials Schema definitions (**JSON-LD support**) complying with ESSIF Trusted Schema Registry (***TSR***) and based on EDCI-Europass learning model.



5. Public References

1. DE4A WIKI:

https://wiki.de4a.eu/index.php/DE4A_Service_Interoperability_Solutions_Toolbox

2. D5.8 Final Release of DE4A Self-Sovereign Identity Supporting Framework, [here](#)

3. D4.4 Studying Abroad - Final Running Phase v1.0, [here](#)

4. D4.14 Pilots Final Evaluation Report , [here](#)

5. [DE4A EU project - GitHub](#)



Thank you for your attention

Any questions?

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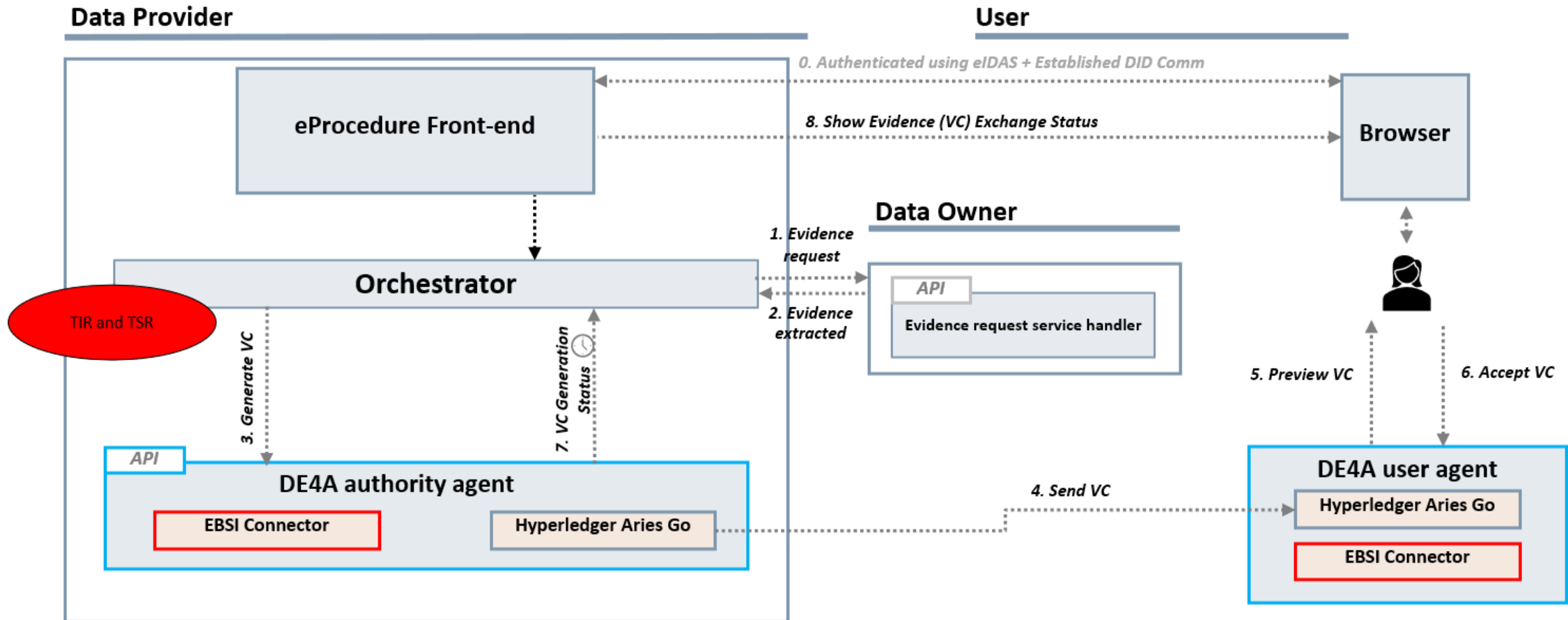


de4a.eu

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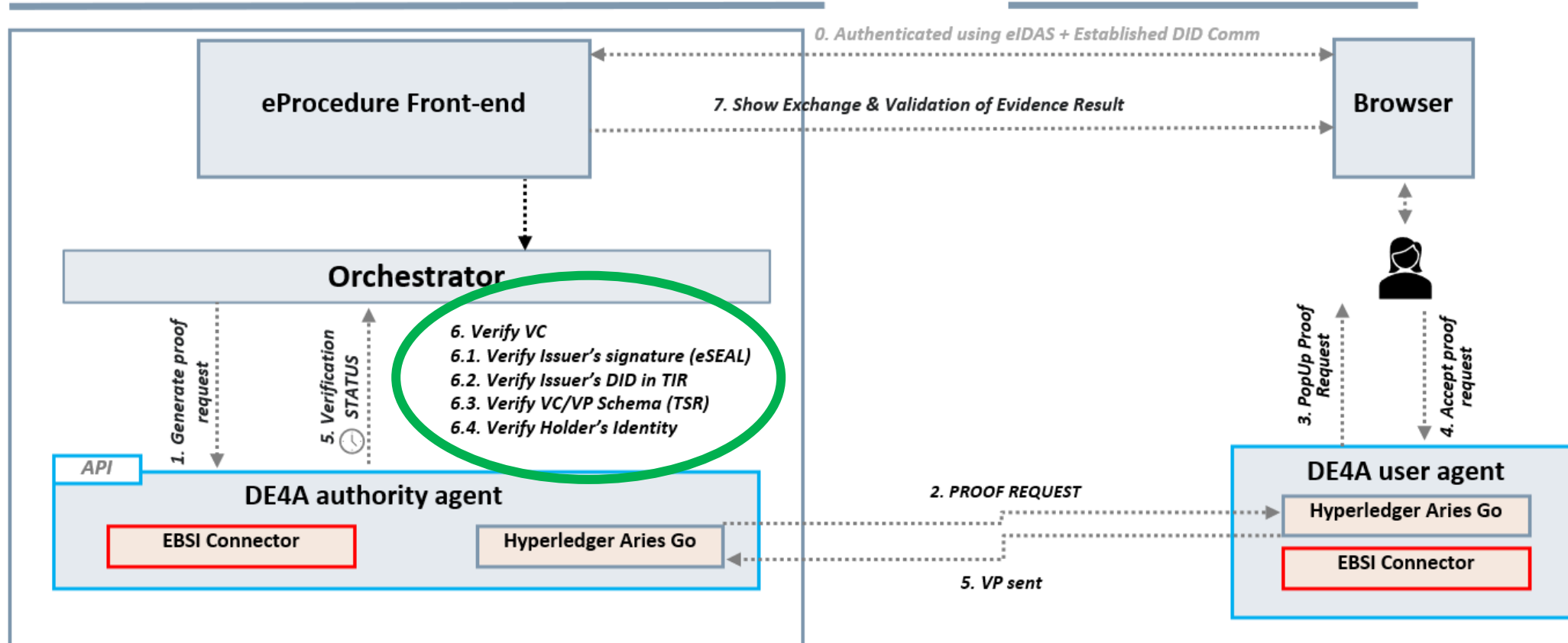
3. Issue Diploma



4. Verify Diploma

Data Consumer

User

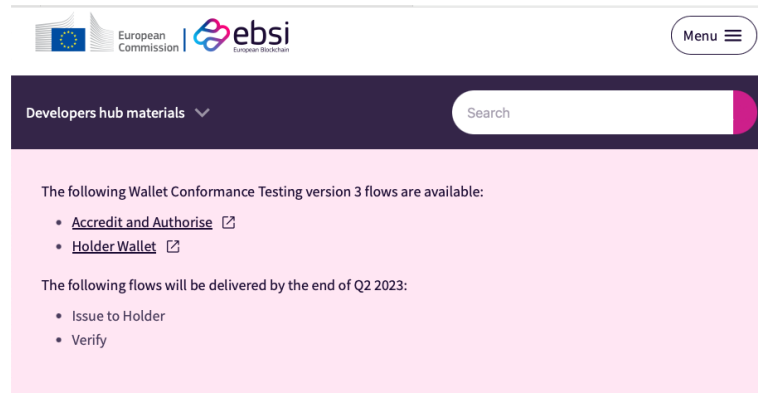


5. Long Term Benefits



"Every time an App or website asks us to create a new digital identity or to easily log on via a big platform, we have no idea what happens to our data in reality. That is why the Commission will propose a secure European e-identity. One that we trust and that any citizen can use anywhere in Europe to everything from paying your taxes to renting a bicycle. A technology where we can control ourselves what data is used and how."

Ursula von der Leyen, President of the European Commission, in her State of the Union address, 16 September 2020



European Commission | ebsi European Blockchain

Developers hub materials

The following Wallet Conformance Testing version 3 flows are available:

- [Accredit and Authorise](#)
- [Holder Wallet](#)

The following flows will be delivered by the end of Q2 2023:

- Issue to Holder
- Verify

EBSI Wallet Conformance Testing

Welcome to the EBSI Wallet Conformance Testing page! You have the opportunity to enhance the capabilities of your wallet by turning it into an EBSI-conformant wallet. By doing so, you will become part of a dynamic and inclusive pan-



European Commission

Shaping Europe's digital future

Home > Library > European Digital Identity Architecture and Reference Framework – Outline

POLICY AND LEGISLATION | Publication 22 February 2022

European Digital Identity Architecture and Reference Framework – Outline

The present outline provides a summary description of the eIDAS expert group's understanding of the EUDI Wallet concept. The eIDAS expert group adopted the present document on 22 February 2022 and decided to publish it for stakeholder feedback.

On 3 June 2021, the Commission adopted a Recommendation calling on Member States to work towards the development of a Toolbox including a technical Architecture and Reference Framework (ARF), a set of common standards and technical specifications and a set of common guidelines and best practice.

The Recommendation specifies that these outcomes will serve as a basis for the implementation of the European Digital Identity Framework Regulation once adopted, without the process of developing the Toolbox interfering or prejudging the legislative process.

The present outline provides a summary description of the eIDAS expert group's understanding of

