







Digitale Handtekeningen

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Tim Vermeulen | Head of Digital Strategy & Architecture | Alliander

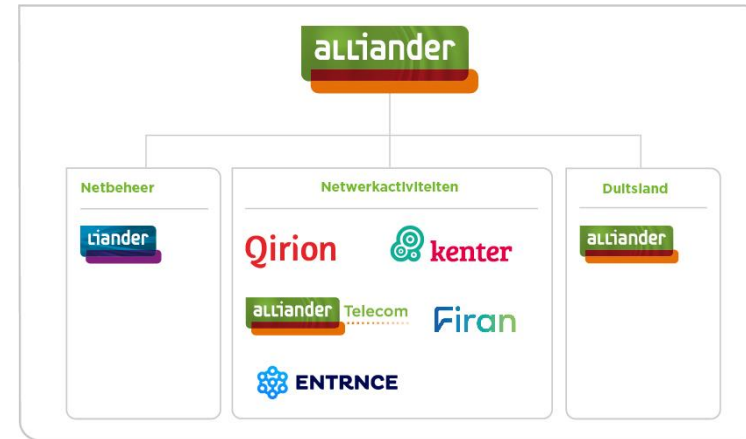
Netwerkbedrijf Alliander



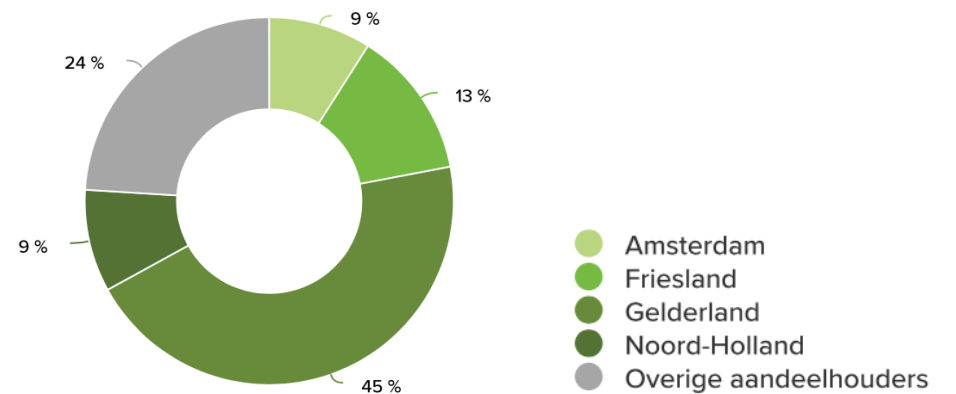
Werkgebied



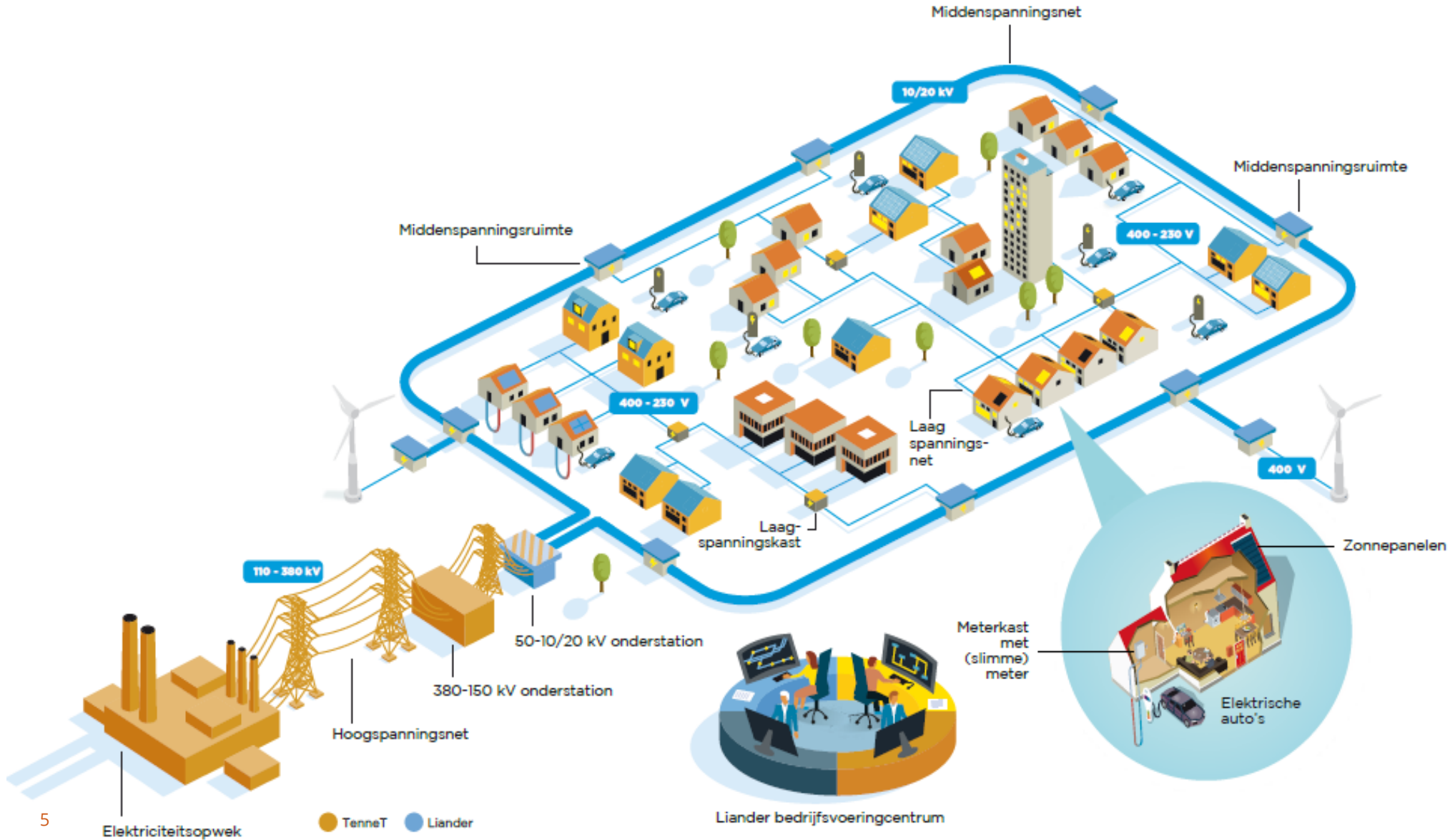
Onze organisatie



Aandeelhouders



Het elektriciteitsnet



Digital signatures In practice

Jorrit Geels, Digital, Data
iHub



**Jorrit
Geels**

iHub Team

Netbeheerder als vertrouwde partij

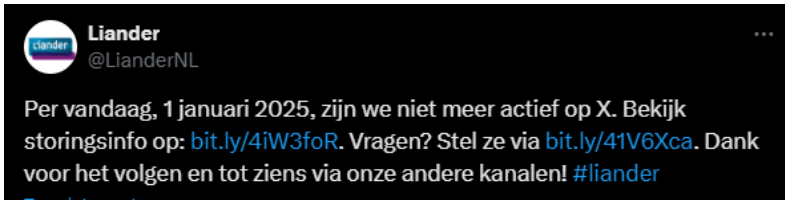
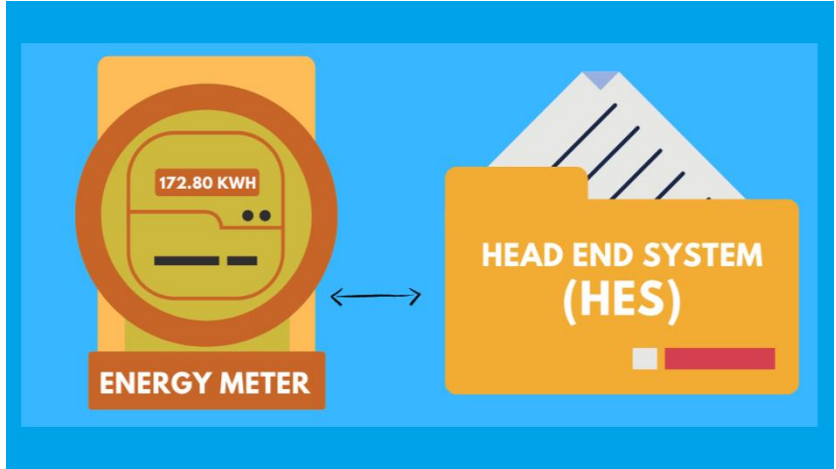
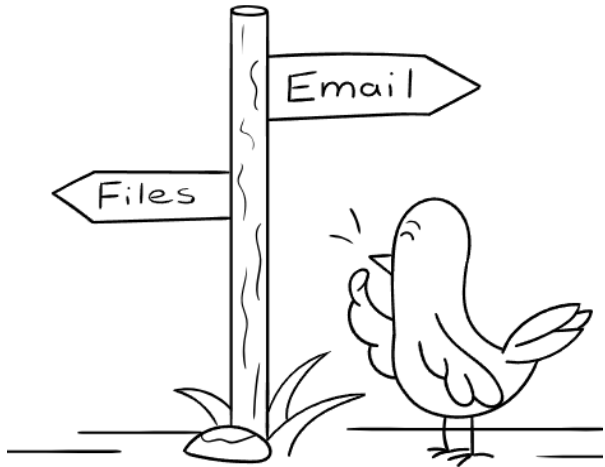
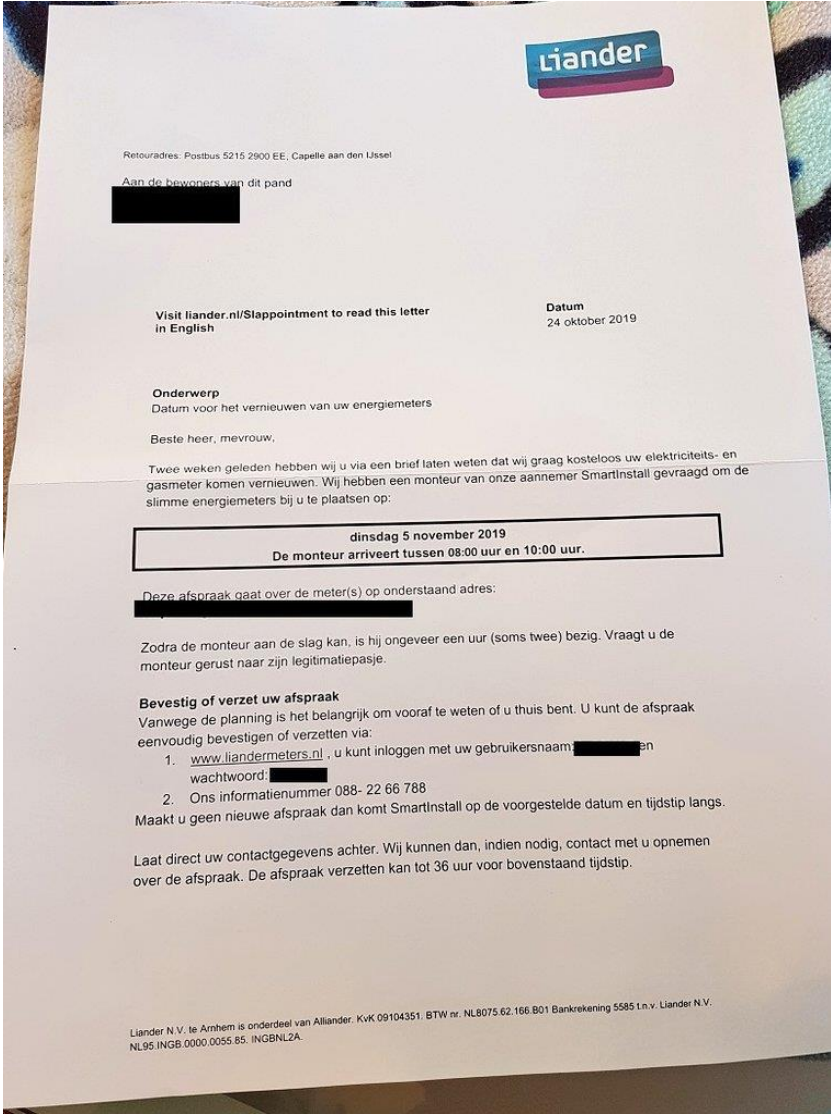


Disinformation Challenges

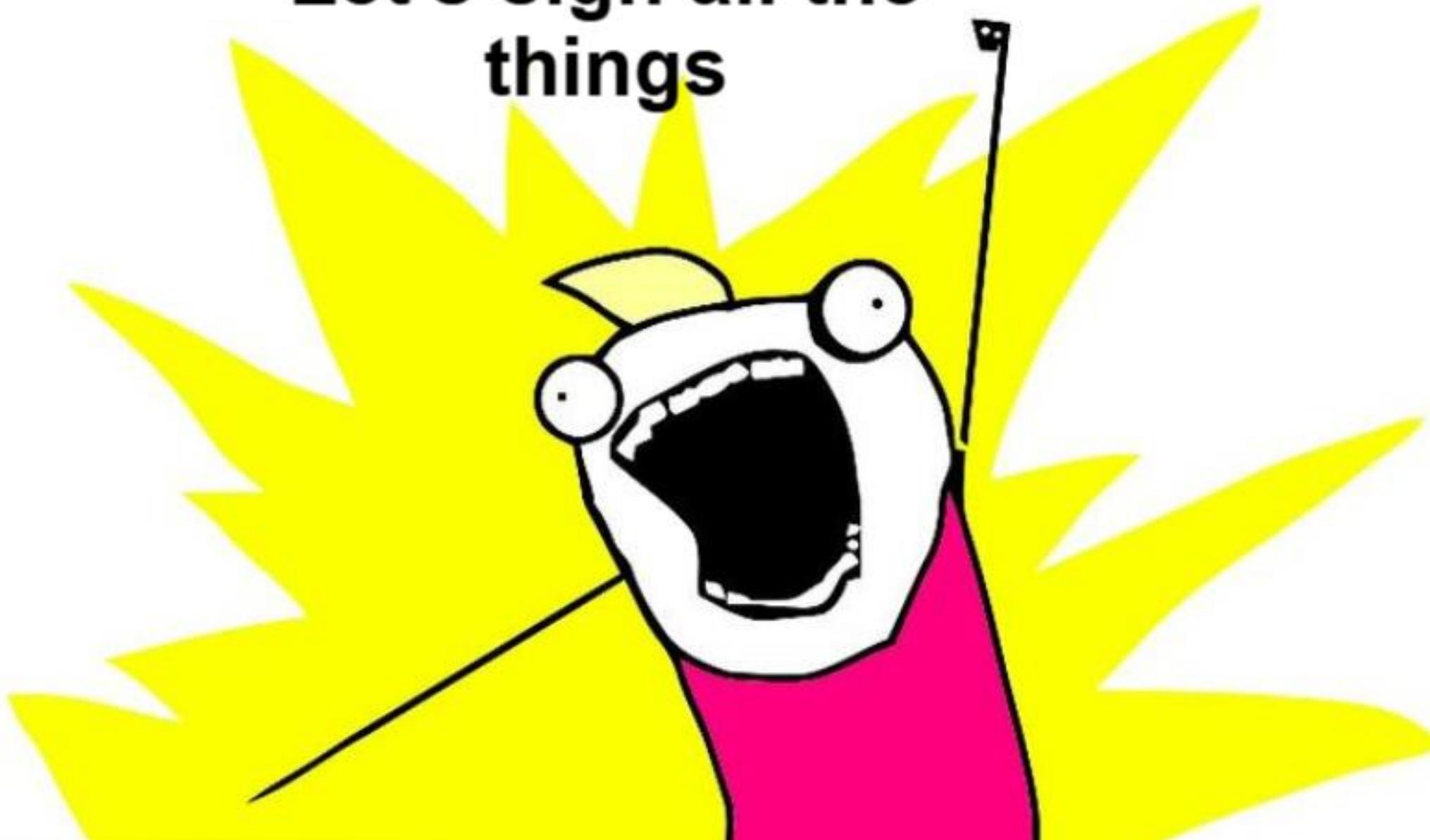
Grip houden op:

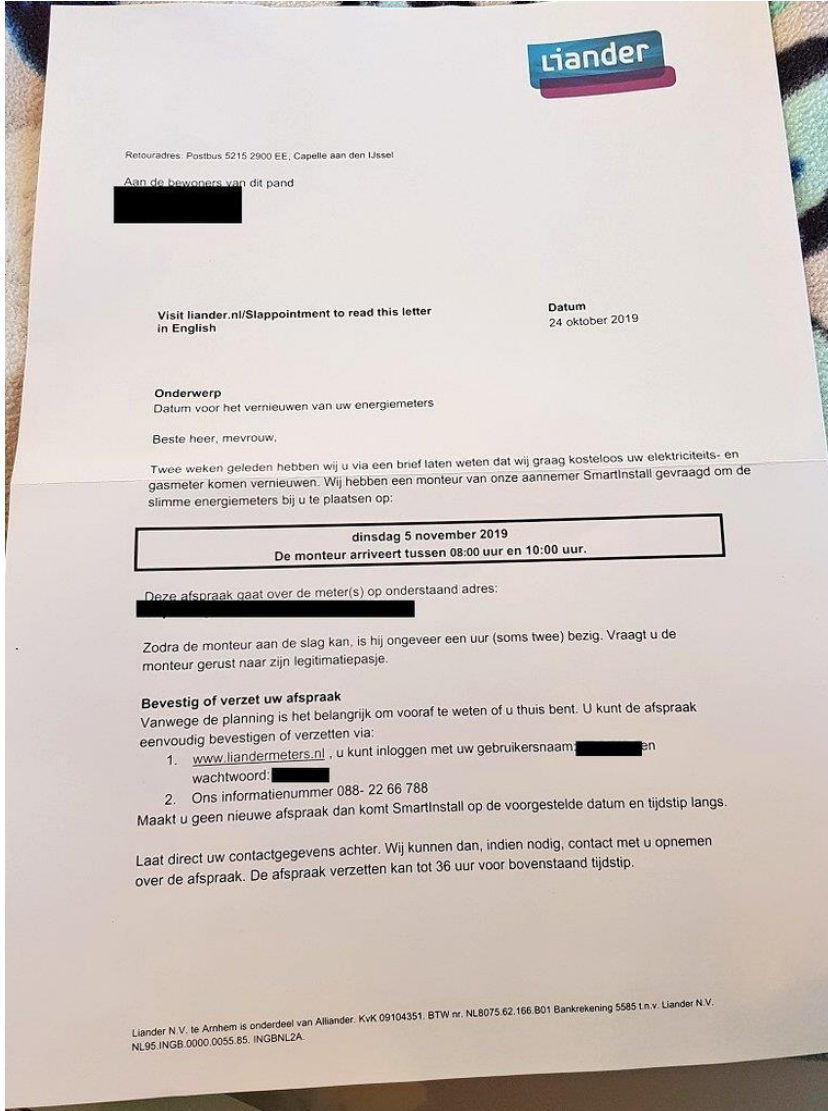
- Communicatie
- Identiteit
- Reputatie





Let's sign all the things





1. QR Code with Digital Signature

- **Step 1:** Digitally sign the letter's contents using a cryptographic signature (e.g., PGP or a trusted digital certificate).
- **Step 2:** Encode the signed digital version or a verification link into a QR code.
- **Step 3:** Print the QR code on the physical letter.
- **Step 4:** The recipient can scan the QR code to verify authenticity.

2. Blockchain Timestamping


- **Step 1:** Convert the letter into a digital hash.
- **Step 2:** Register the hash on a blockchain (e.g., Bitcoin, Ethereum, or a dedicated document verification service like OpenTimestamps).
- **Step 3:** Print the blockchain transaction ID or a verification link on the letter.
- **Step 4:** The recipient can verify the letter's authenticity by checking the blockchain record.

3. Public Key Cryptography (PGP/GPG)

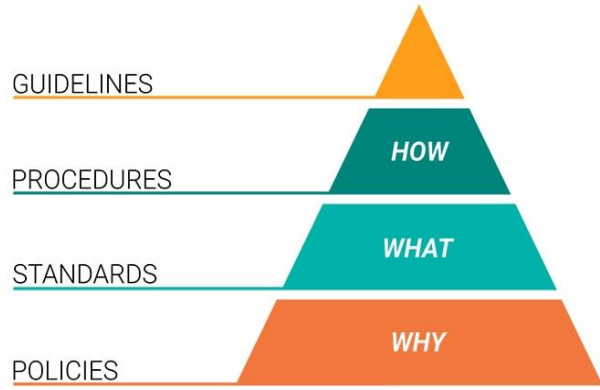
- **Step 1:** Digitally sign a text version of your letter using PGP/GPG.
- **Step 2:** Include a printed version of the signed message alongside the letter.
- **Step 3:** The recipient can verify it using your public key.

4. Trusted Third-Party Verification

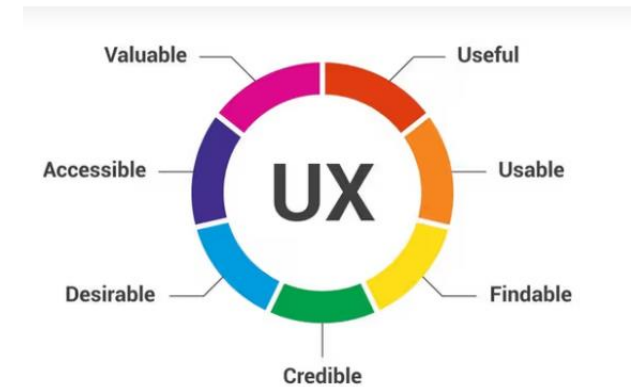
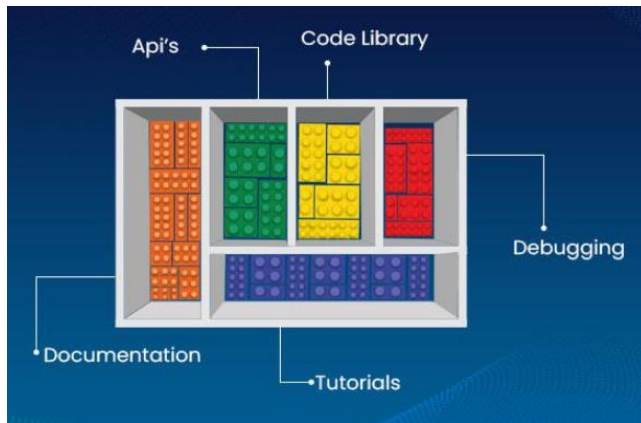
- **Step 1:** Upload the document to a digital signing platform (e.g., DocuSign, Adobe Sign).
- **Step 2:** Generate a verifiable public link or certificate of authenticity.
- **Step 3:** Print the verification details on the physical letter.

A top-down view of a wooden desk. On the left is a silver laptop. In the center is a white spiral-bound notebook with the text 'PREPARATION IS THE KEY' written in black marker. A yellow pencil lies on the notebook. To the right is a glass filled with several colored pencils. In the bottom left corner are black-rimmed glasses. In the top center is a white coffee cup on a saucer. In the top right is a small white planter with a green plant. A tablet is partially visible in the bottom right corner.

**PREPARATION
IS THE KEY**



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What's next?

We gaan komende maanden aan de slag met **Digital Signing Demonstrators**.

- Tips/horrorverhalen/aanmoedigingen/hulp is welkom!

Onze projecten volgen?

- Volg onze onze LinkedIn pagina

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