

Marketplace for solar projects

Project



Muriel Frauenfelder, Xiaoxian Dai

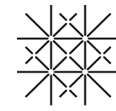


BLOCKCHAIN
Challenge



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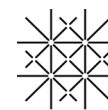


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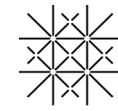


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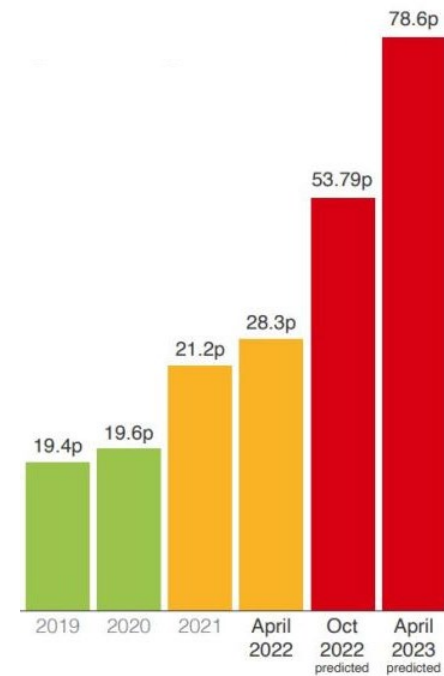
Research Question

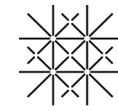
How can we build an easy-to-use but flexible platform that balances the interests of real estate owners, investors as well as potentially infrastructure providers in the funding and execution of solar projects.



Problem

- Rising energy prices
- 2050 energy act
- Global warming



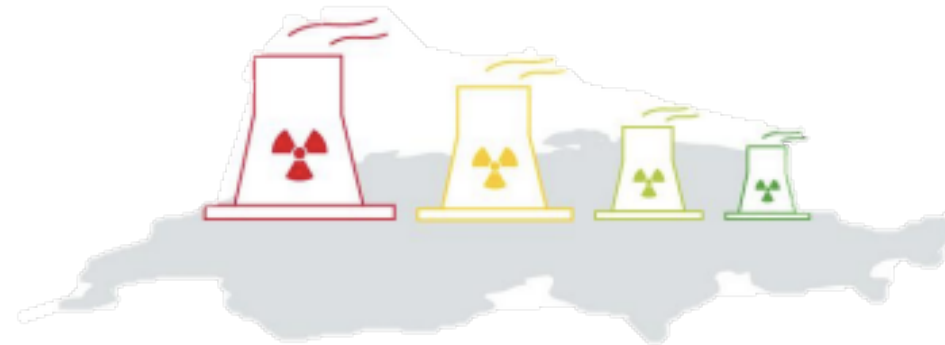


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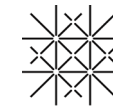
Problem

- Rising energy prices
- 2050 energy act
- Global warming



Problem

- Rising energy prices
- 2050 energy act
- **Global warming**

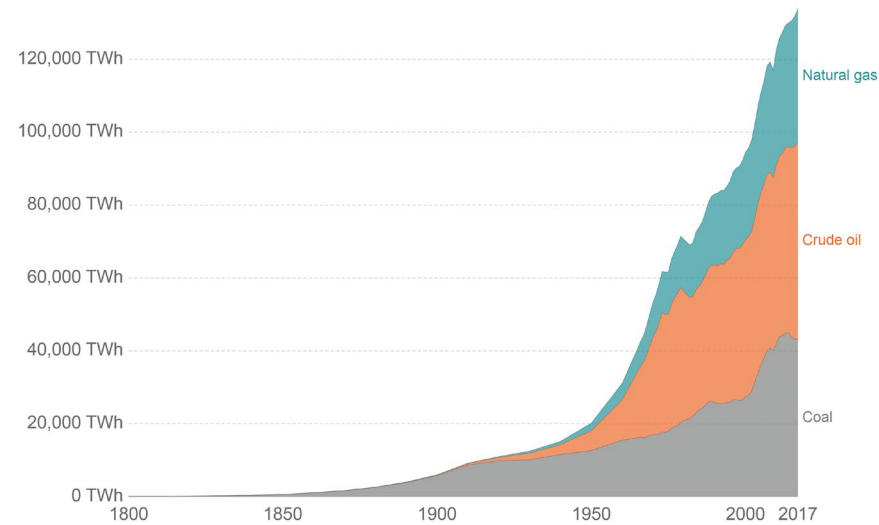


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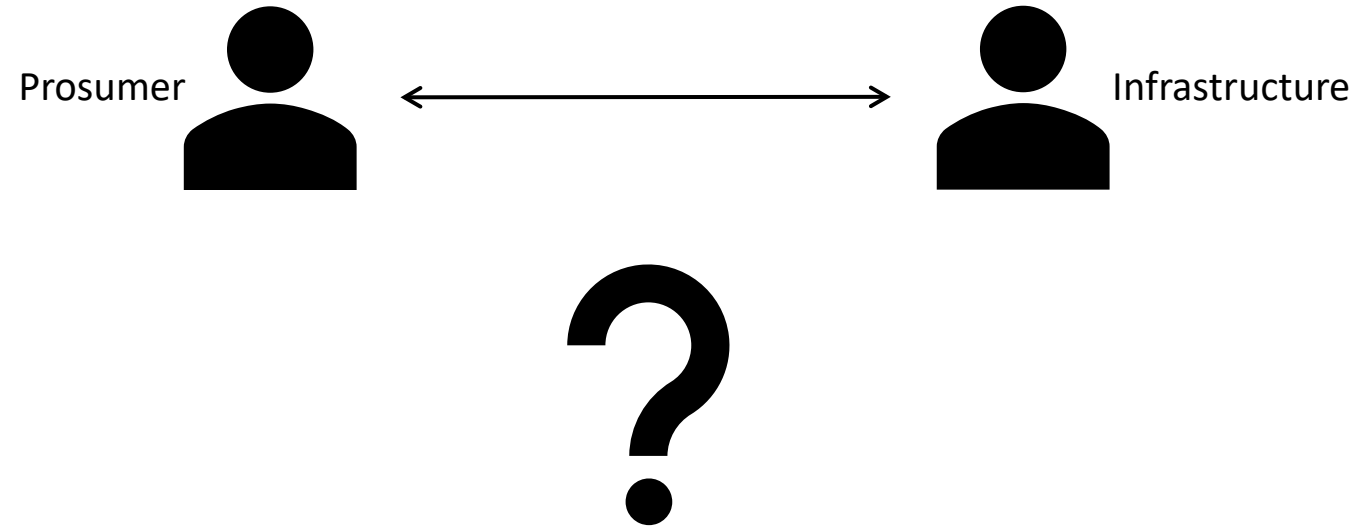
Global fossil fuel consumption

Global primary energy consumption by fossil fuel source, measured in terawatt-hours (TWh).

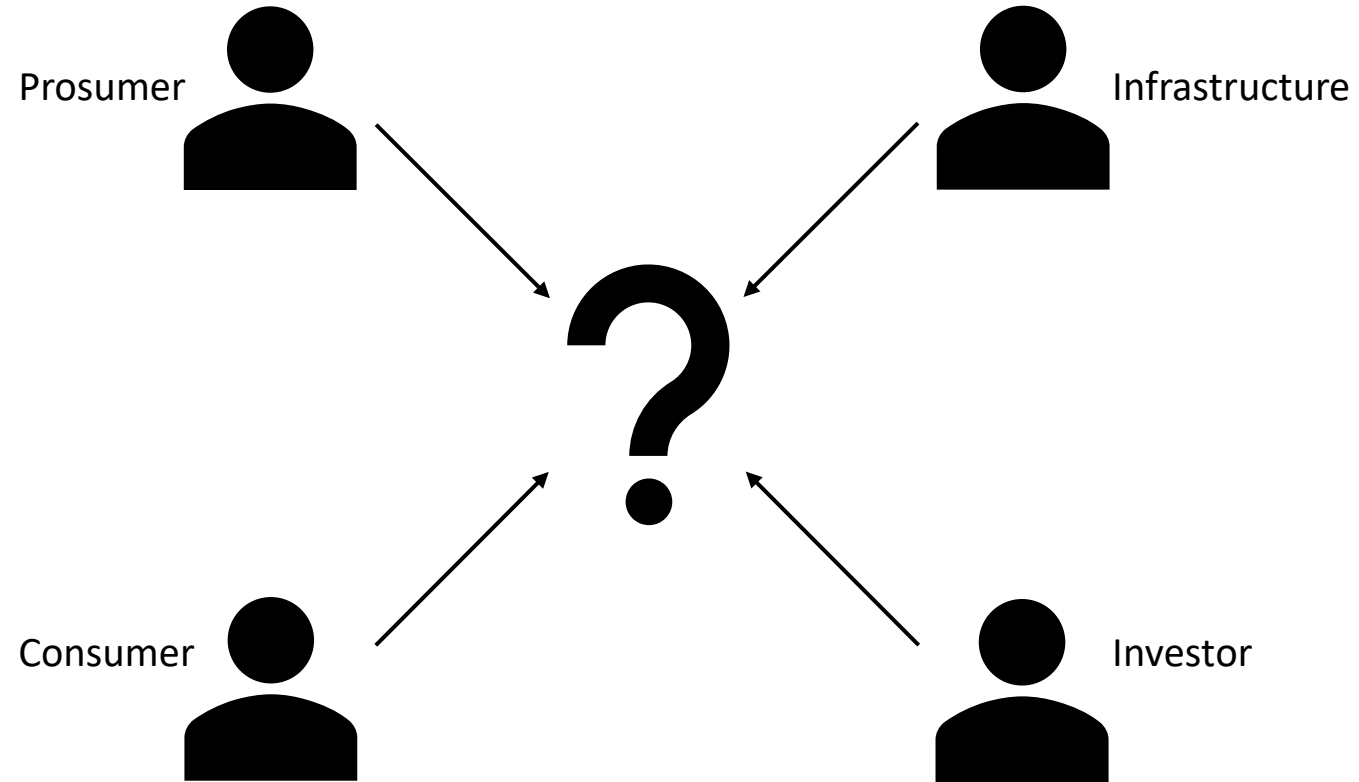


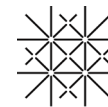
Source: Vaclav Smil (2017). Energy Transitions: Global and National Perspective & BP Statistical Review of World Energy
OurWorldInData.org/fossil-fuels/ • CC BY

Aim



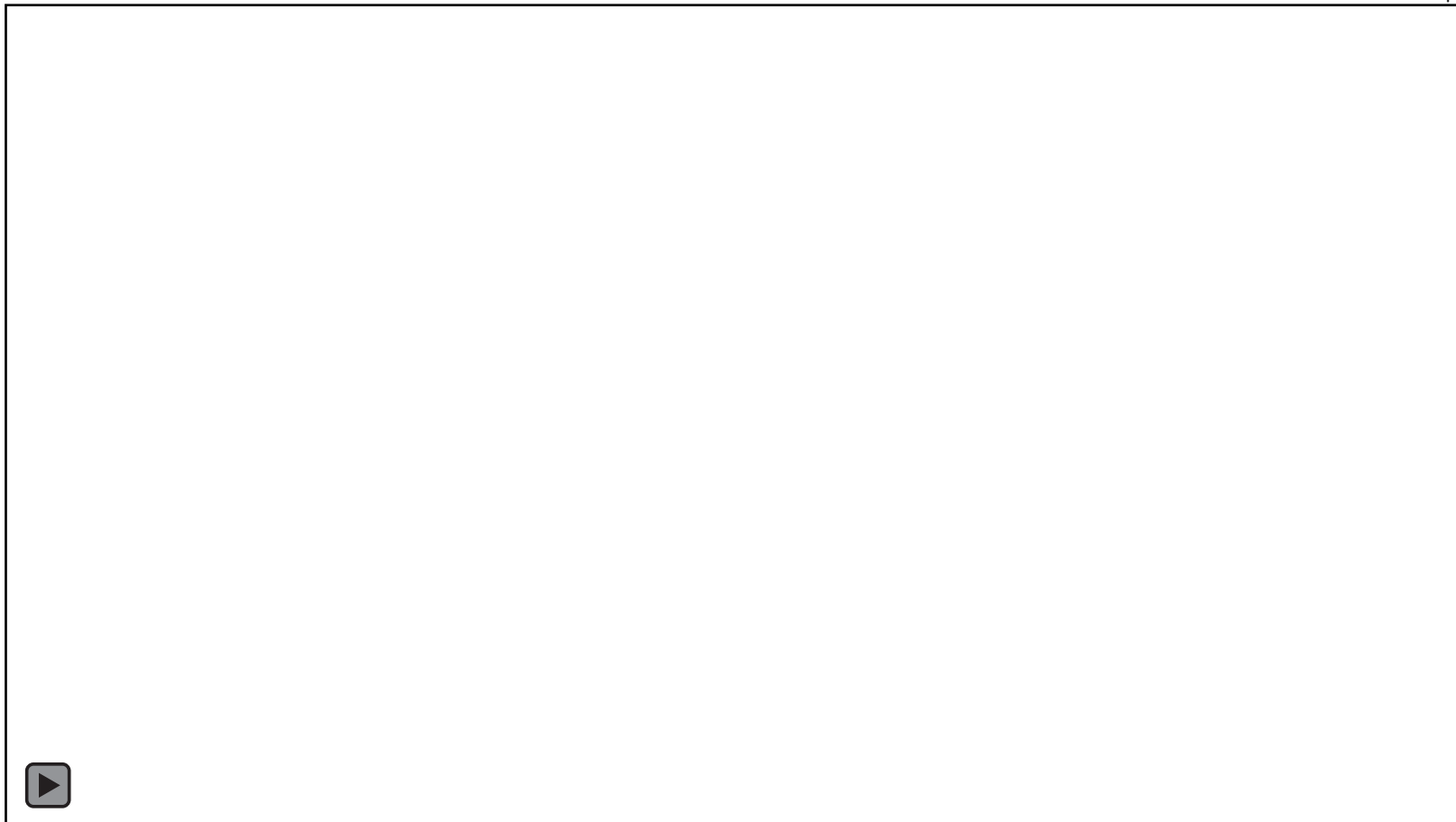
Aim



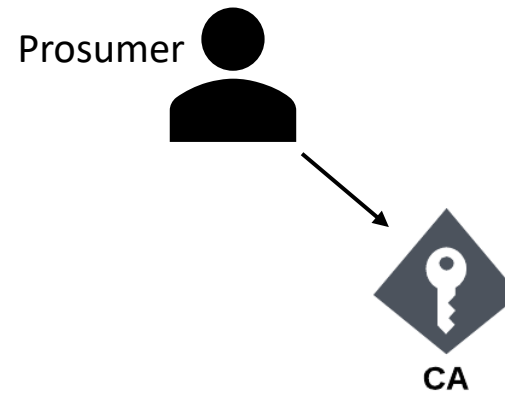


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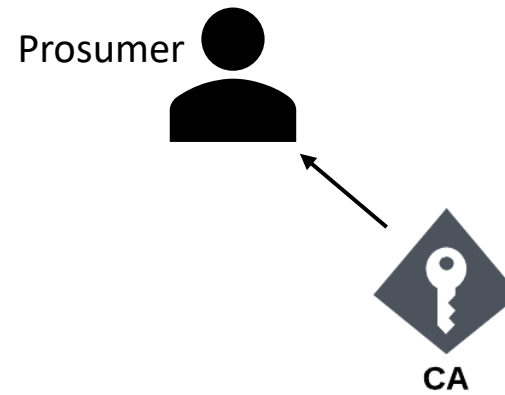
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Solution



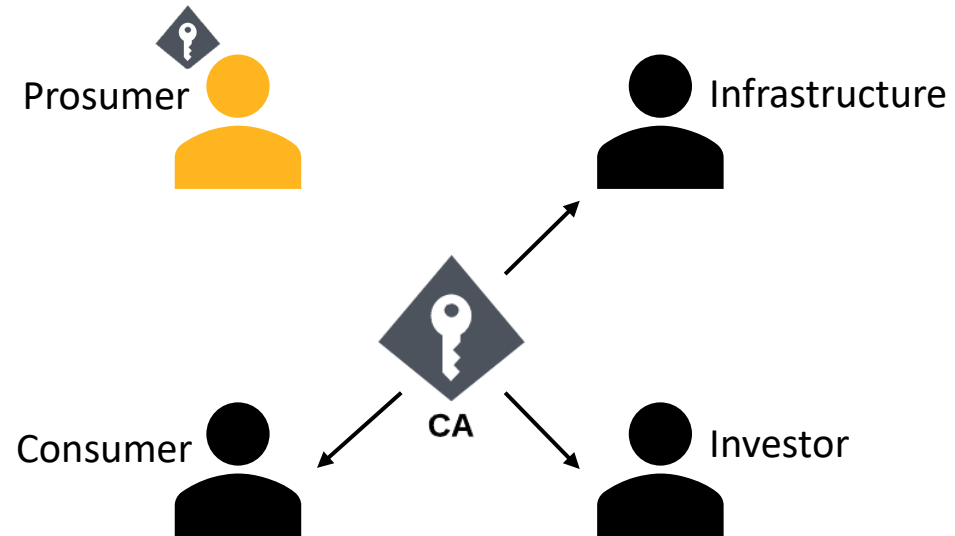
Solution



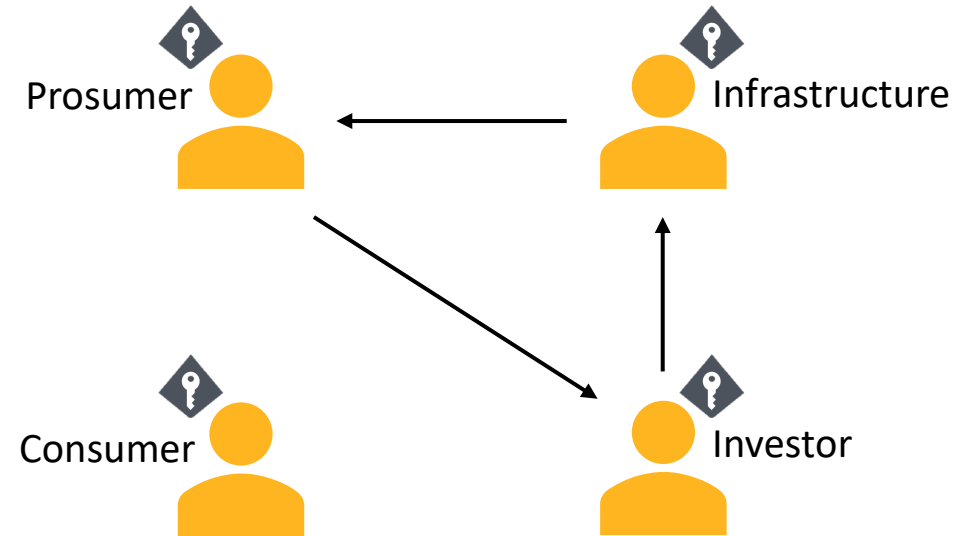
Solution



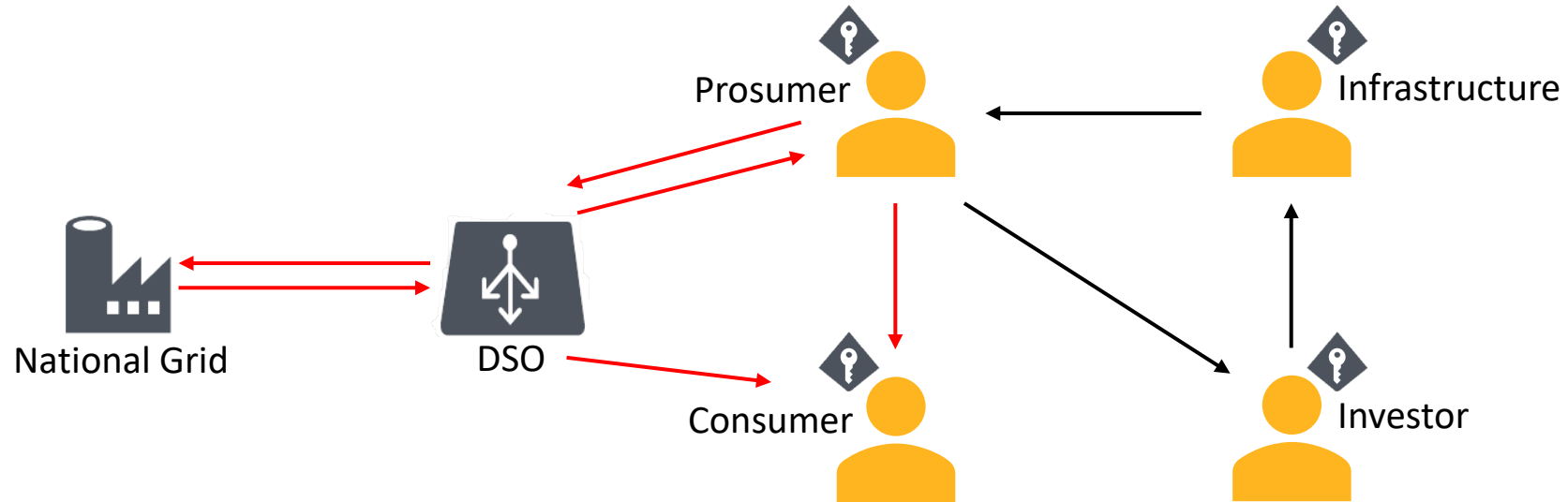
Solution



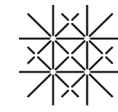
Solution



Solution



Solution



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Step 1: Sign up

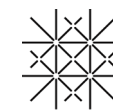


Step 2: Match

Step 2b: Building

Step 3: Trade





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Solution

Step 1: Sign up

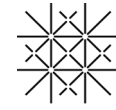
Step 2: Match

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Solution



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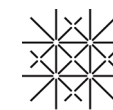
Step 1: Sign up

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Solution

Step 1: Sign up

Step 2: Match

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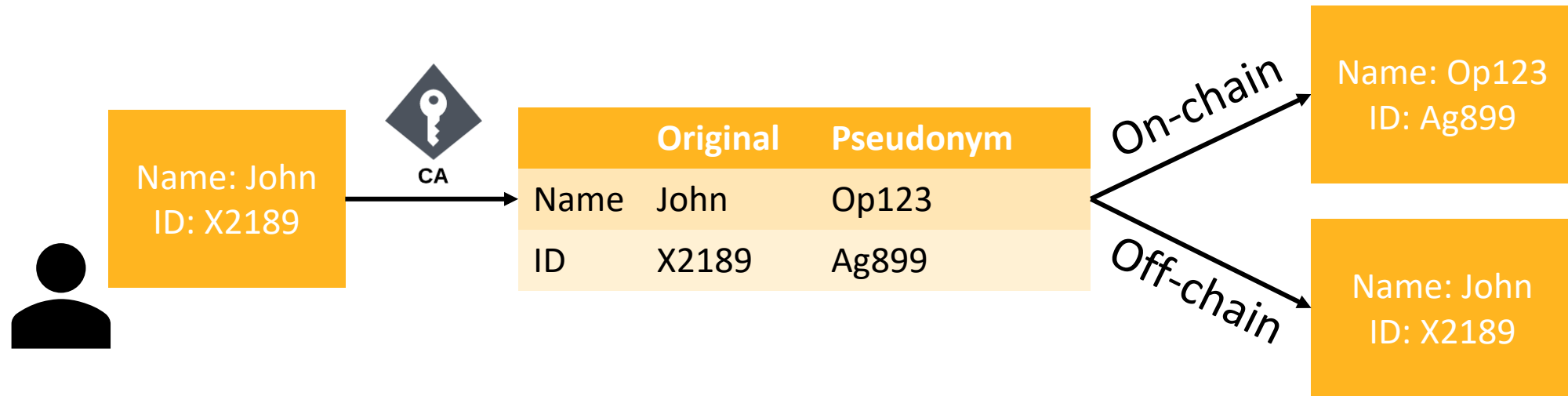


Blockchain

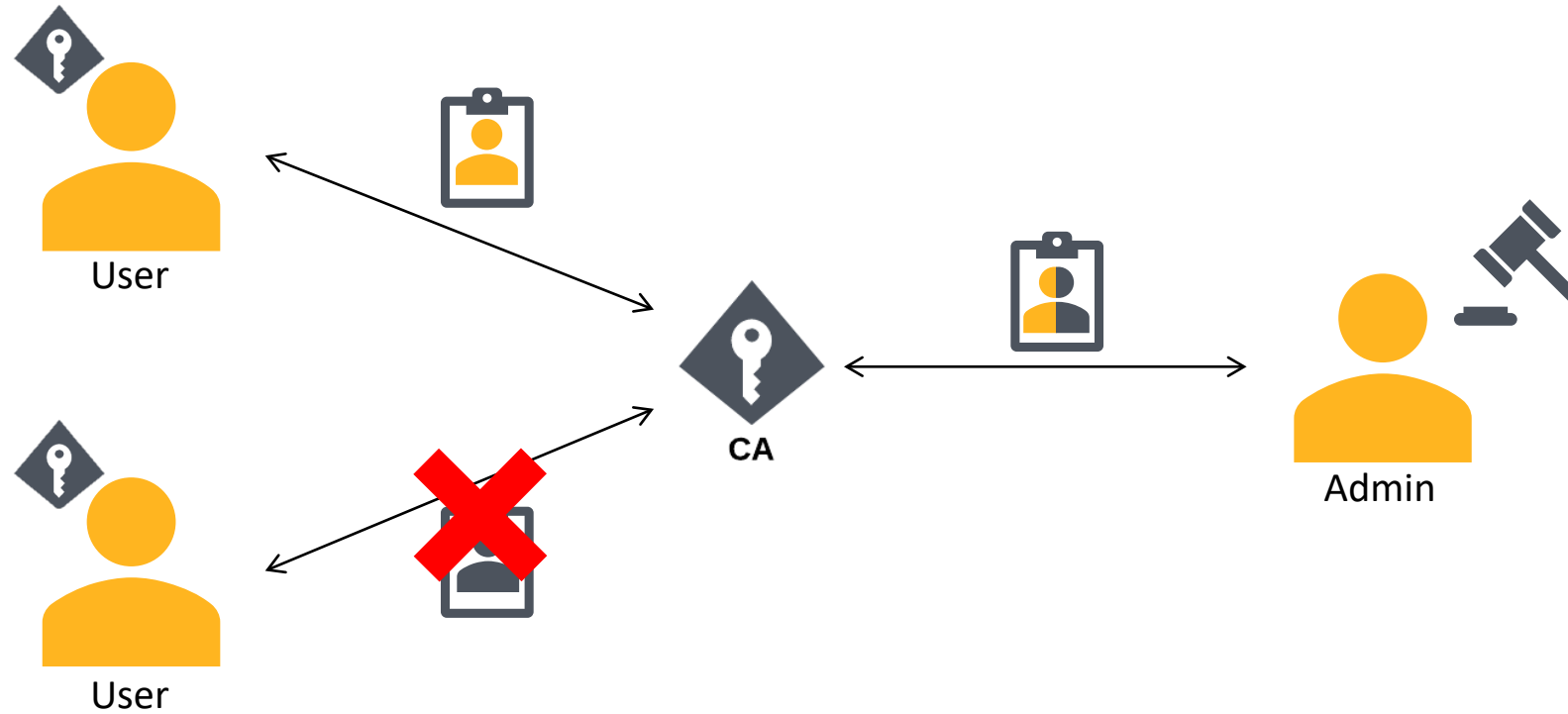


HYPERLEDGER **FABRIC**

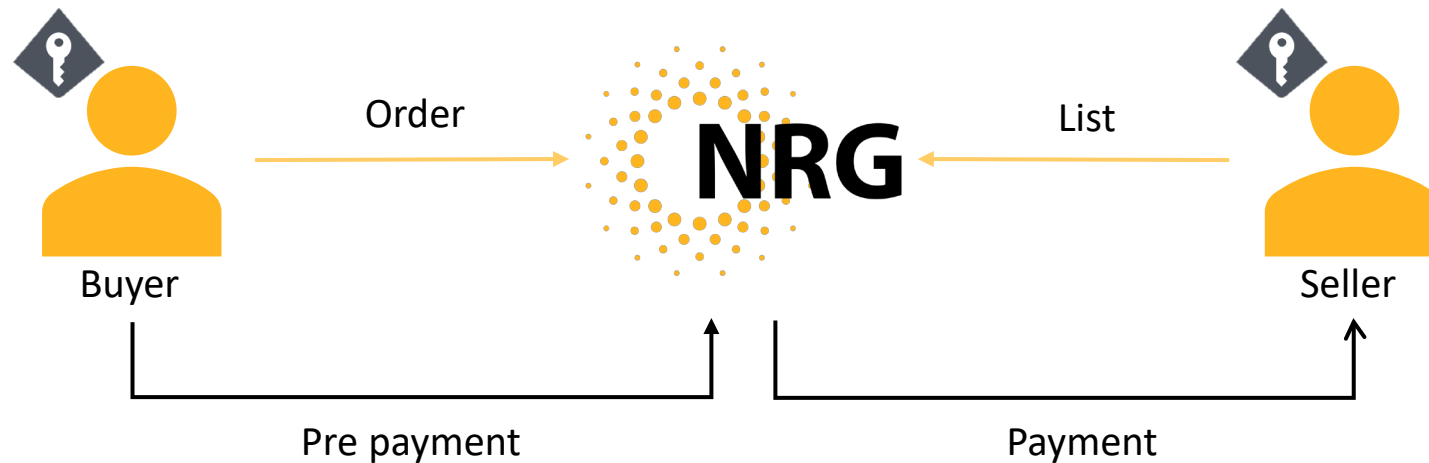
Blockchain - data security



Blockchain - data security



Blockchain – Trading system



The background image shows a large array of solar panels installed on a blue metal roof. The sun is low on the horizon, creating a warm, golden glow over the scene. The panels are arranged in neat rows, and the sky transitions from a bright orange near the sun to a clear blue above.

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