Creation of an open and user-friendly interface to choose the materials for green and digital transitions
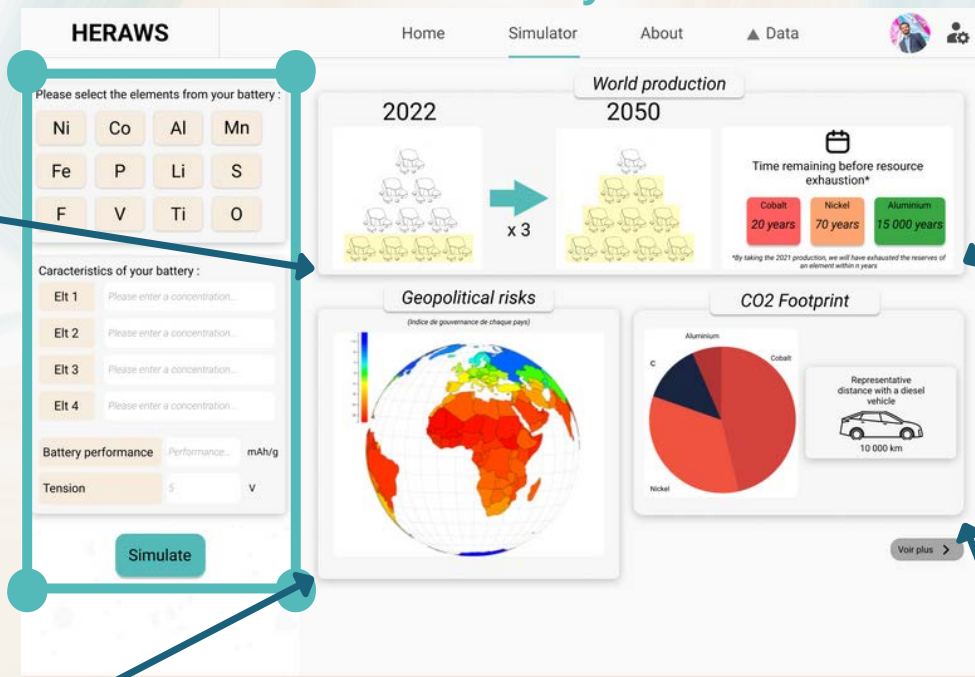
Loélia PINT - Paul DEBANO - Amélie JACOB--GUIZON

HERAWS

What is HeRaws ?

- HeRaws project aims to decipher the question of **raw materials sustainability** for the actors of the green and digital transitions.
- We develop **Decision-Making support tools** to assess the sustainability of devices for different audiences (researchers, policymakers, journal editors).

User create his baterry

World production

Comparaison between actual current needs on the reserve and future

Database from an geologist

World production

Time remaining before reserve disappearance

Database from of an geologist

Geopolitical risks

Breakdown of geopolitical risk country by country

Calculate from Risks Index

CO2 Footprint

Representative proportionality of CO2 Footprint of each elements and equivalence in distance with a diesel vehicule

Proportionality calculate from elements Database

Discovery

- Research on the domain of electric vehicle battery
- Discover current concerns
- Become familiar with the vocabulary of electric batteries

Benchmarking

Search existing website on the same principle
- En-Roads : Global climat simulator
- CovidTracker : Dynamic graphic on numbers related to covid

Search existing graphics

Development

- HTML, CSS, Javascript
- Library and frameworks : React.js, Chart.js, D3.js, Tailwind, Material Design

Prototyping

- Wireframing
- Prototyping
- User testing