Wissenschaft

Vorhandenes Wissen umsichtig nutzen, um nachhaltig zu wirtschaften

Compliance

Bürokratische Überforderung??!

➔ EU Taxonomy: > 550 Seiten
➔ EU CSRD: > 1.000 Datenpunkte
➔ EU DR: Meter-genaue DD
➔ EU CSDDD: ständige DD
➔ ISSB, GRI, CDP, TNFD...

Risiken

Unterschätzte Risiken?!!

➔ >50% Abhängigkeit globales GDP
➔ >70% Abhängigkeit EU-Unternehmen
➔ 2024: Kakao-Preis ca. +400%
➔ 2021: Holzpreise D ca. +40%
➔ 2014-2023: > 2 Billion $ Schaden durch Naturkatastrophen weltweit
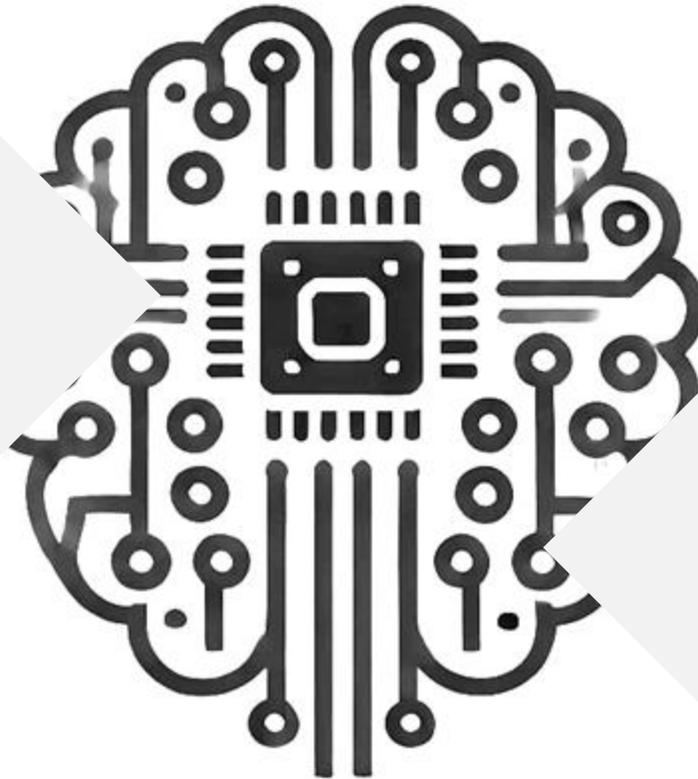
Wissenschaft

Nicht genug Daten ??!

➔ > 5.000 Seiten IPBES-Reports
➔ > 34.000 Seiten IPCC-Reports
➔ > 1.200 Seiten Faktencheck Artenvielfalt
➔ > 5.8 petabyte Remote Sensing Daten p.a. (EU)
➔ > 3 Billion Artensichtungen in GBIF-Datenbank

kuyua.com

Kuyua in a nutshell

- Hamburg-based **nature-tech start-up**, founded mid 2023
- Team of 13 combining expertise from **science** (e.g Helmholtz UfZ, Uni Bayreuth, Uni Athens), **regulation** (e.g. EFRAG, ISSB, GRI), consultancy and tech within an international team
- Winner of the 2023 **BMUV innovation award** for value chain assessment, together with Melitta

Selected clients and partners:

kuyua.com
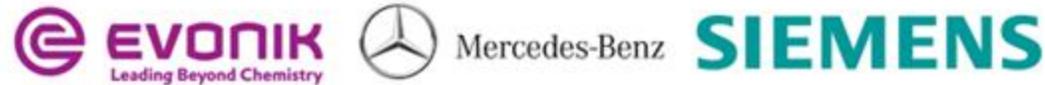
Technologie zielgerichtet verwenden, um lokale Interaktion mit der Natur zu verstehen und zu verbessern

> 100 nature & climate data sets | > 2.000 actions

INPUT

2 data points needed:
1) location(s)
2) Industry type
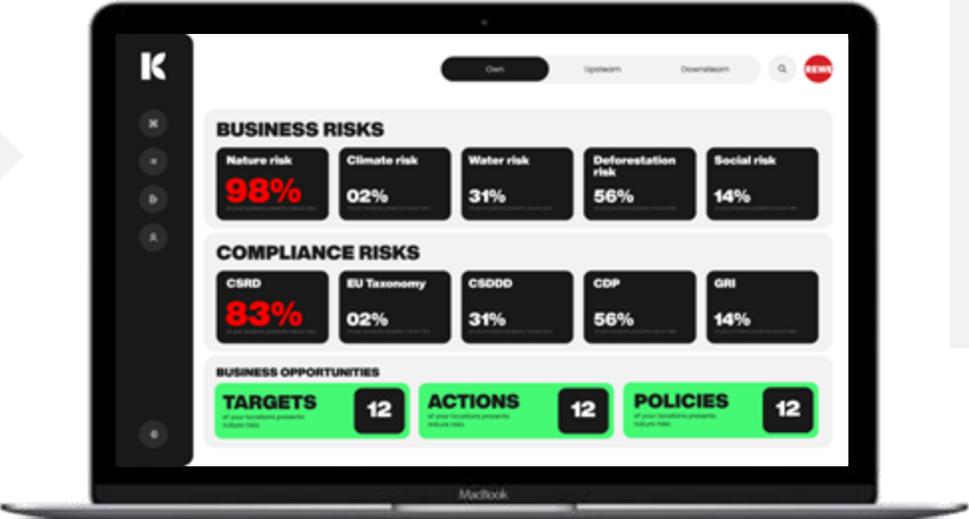
OUTPUT

Local nature & climate profiles:
1) > 3 trillion data points
2) > 80 metrics assessed
3) > 40 indicators generated

Sources (excerpt):

kuyua.com

Compliance-Anforderungen ambitioniert und kostengünstig erfüllen...

EU Taxonomy Reports

EU CSRD Reports
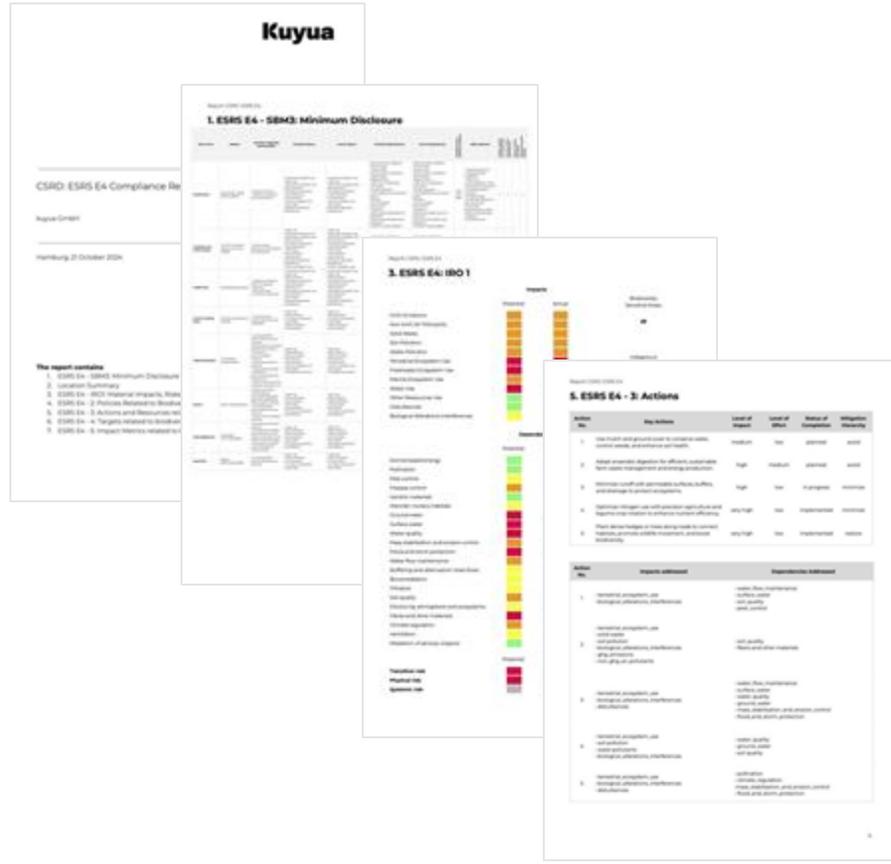

kuyua.com

… um Ressourcen in ein besseres Verständnis und nachhaltigere Geschäftsmodelle zu "investieren"

Naturzustand & Interaktion

Lokale Biodiversität
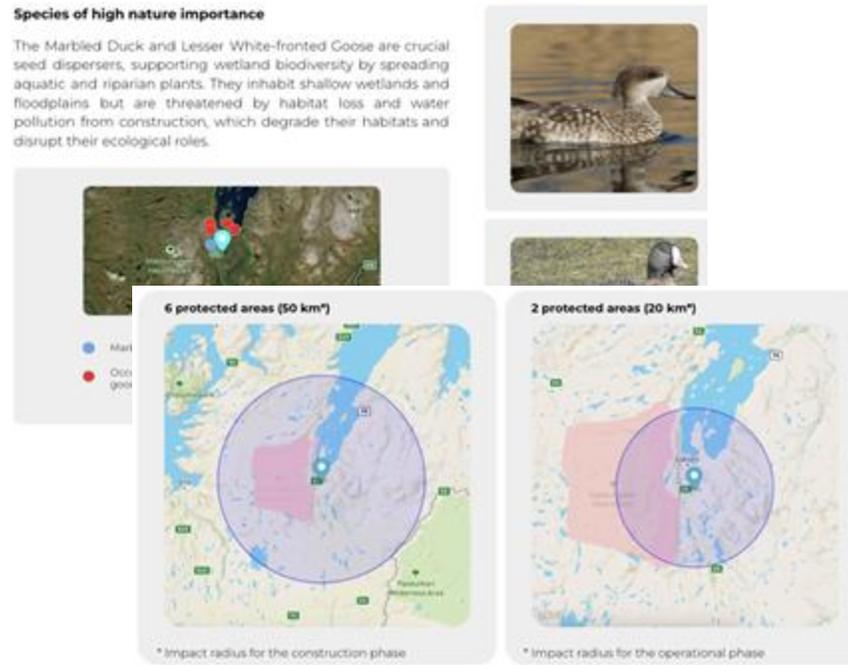
Lokale Klimarisiken
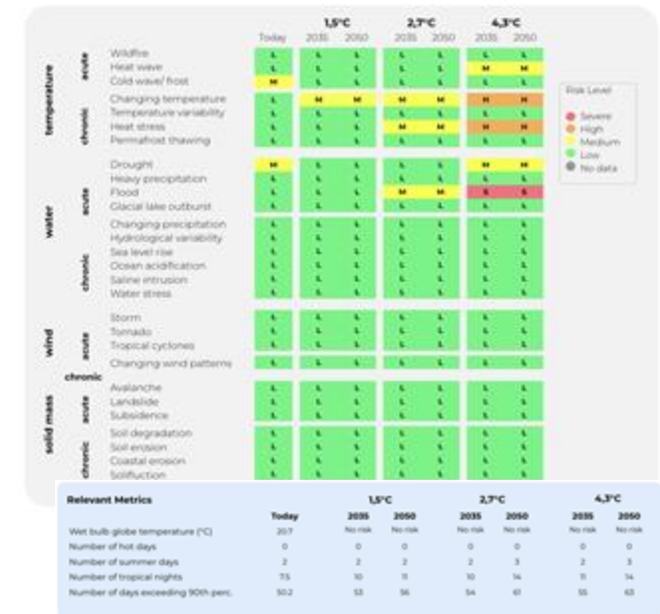
kuyua.com

… um Ressourcen in ein besseres Verständnis und nachhaltigere Geschäftsmodelle zu "investieren"

Lokale Maßnahmen und Anpassungsstrategien

Heat and fire resistant plants

Scots pine (*Pinus sylvestris*) is ideal for riverfront projects in heatwave and flood-prone areas. The fire-resistant bark protects against fire, while deep roots reduce erosion.

Adding Red Fescue (*Festuca rubra*) enhances fire resilience and supports biodiversity, while the trees' shade and cooling effects help mitigate climate change temperature impacts, boosting overall environmental resilience.

Vegetation Corridors & species retreats

Implement connected green infrastructure around the warehouse, such as flower strips, native hedgerows, and strategically placed bee and insect hotels. These features enhance habitat connectivity, support important pollinator species, and promote biodiversity. By creating corridors that link surrounding protected areas, this approach ensures wildlife can move freely and thrive, even in industrial or fragmented landscapes.

Rainwater catch and storage system

Rainwater catch and storage systems collect and reuse rainwater, reducing water bills, managing stormwater, minimizing flooding risks, and supporting local habitats by maintaining natural water cycles. Combined with green infrastructure, such as green roofs and permeable parking lots, these systems can significantly reduce the project's environmental footprint at relatively low cost.

Green roofs absorb rain, enhance insulation, and support local biodiversity, making them an eco-friendly, cost-effective, and low-maintenance complement to rainwater systems for sustainable buildings. When combined with solar PV installations, they further reduce the local GHG emission footprint, maximizing environmental benefits.

Permeable, semi-natural surfaces

Perfo-AK tiles create a permeable parking surface by being compacted into a gravel layer with a prepared sub-base. This design allows rainwater to seep into the ground, reducing surface runoff, mitigating temperature risks, and supporting healthier vegetation. Additionally, it helps combat urban heat island effects through natural cooling and enhances resilience to heatwaves and drought by promoting groundwater recharge.

acceptance

strict **environmental emission** reduce potential impacts on local nature.

with Indigenous peoples, local NGOs, nmental agencies to **support key nd safeguard protected areas**.

ure-informed solutions to mitigate local flooding and heat-related risks while improving natural ecosystems simultaneously.

Create retreat opportunities by establishing areas for wildlife to nest and breed undisturbed.

in parking lots and public areas to enhance vegetation health, provide shade, and reduce heat.

kuyua.com

Kuyua

Appell

Vorhandenes Wissen und Technologie nutzen, um Politik und Bürokratie zielgerichtet und zuverlässig zu gestalten

tobias@kuyua.com | 0049 160 90 5555 40