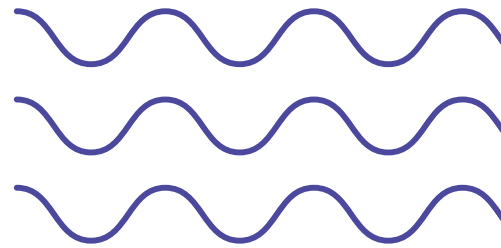




TIIQU

QUTII TRUTHLIBRARY

Project details, target, wider impact

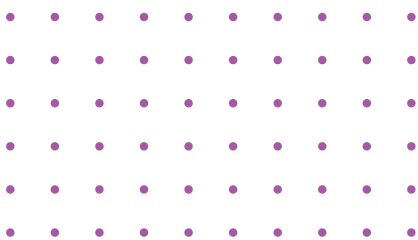


a project by

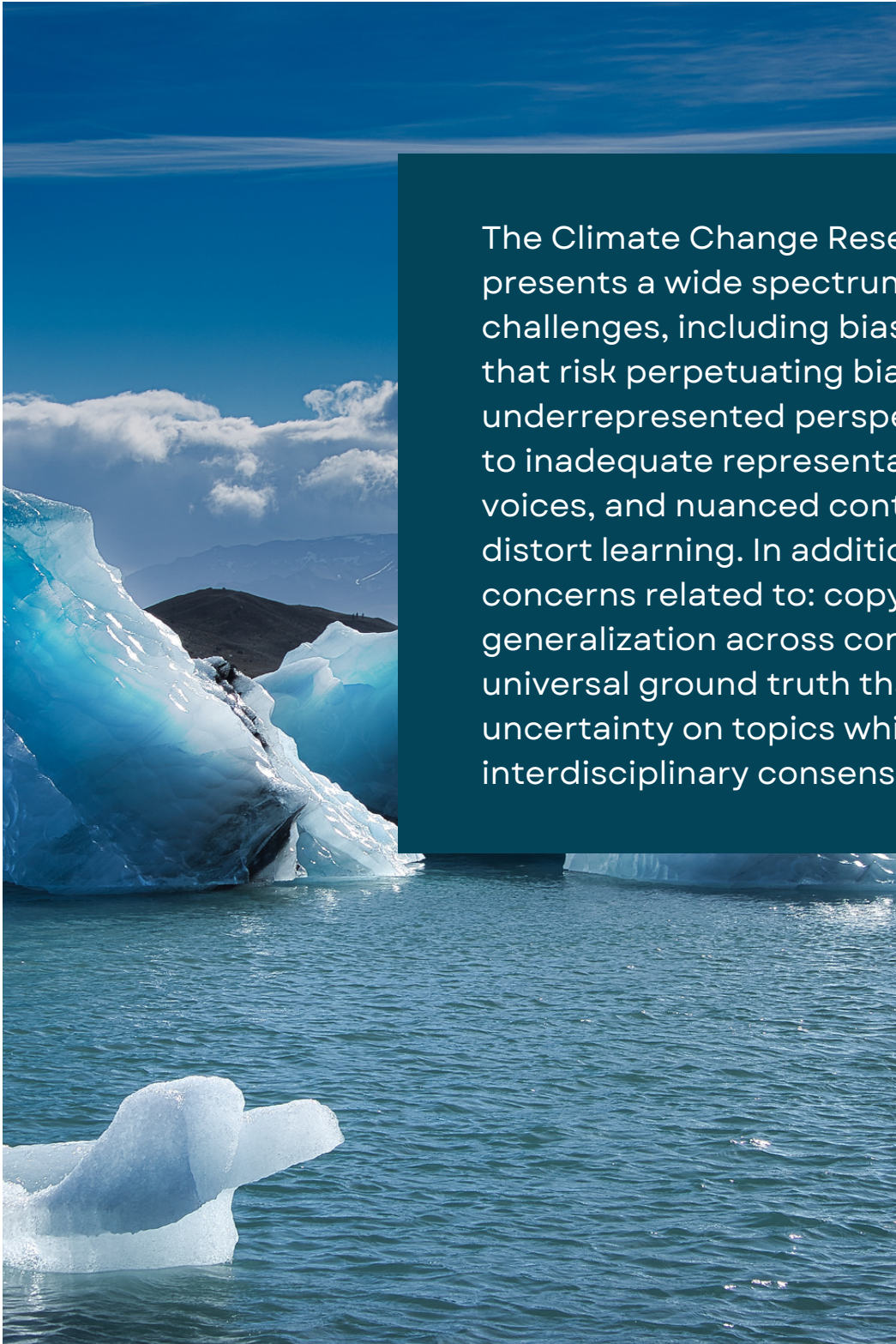
TIIQU C.I.C.

Supported by

TliQu Network



THE ISSUE: MISPRESENTATION OF ENVIRONMENTAL TRUTH

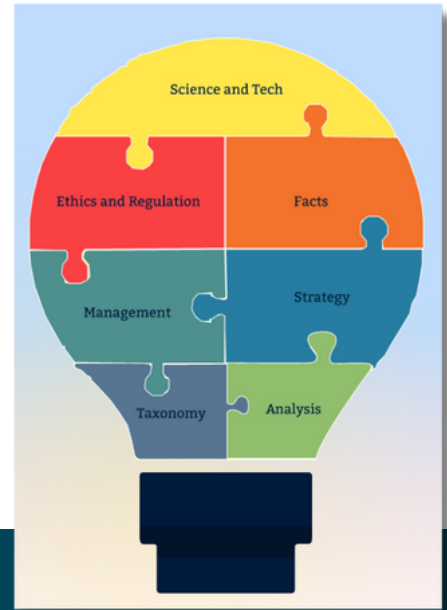


The Climate Change Research System presents a wide spectrum of fairness challenges, including biased training data that risk perpetuating biases, underrepresented perspective that lead to inadequate representation of diverse voices, and nuanced contradiction that distort learning. In addition, ethical concerns related to: copyrights, generalization across contexts, lack of universal ground truth that seed uncertainty on topics which require new interdisciplinary consensus mechanisms.



QUTII

A DIGITAL UNBIASED KNOWLEDGE REPOSITORY

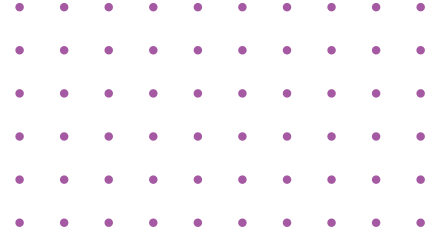


QuTii, an upcoming web-based knowledge repository, with a built-in system to transform long scientific research into the 'bite-sized' form of questions and answers, NLP-driven features identify, match and rank such succinct information based on similarities, contradictions, and correlations. As part of the present project, QUTII implements a robust scoring system to measure the consensus level of sources and submit information to users based on relevancy and trustworthiness. This approach levels the influence of sources in shaping ideas, empowers users to explore without preconceptions, and potentially enhances diverse sources contributing to innovation.

QUTII paves the way to a fair LLM system



MISSION AND VISION



Mission

Bring together diverse perspectives into a single platform open to all, utilize AI to determine the trustworthiness of information, and introduce a novel fairness mechanism to ensure unbiased distribution of reliable knowledge worldwide.

Vision

We imagine a future where everyone, regardless of background, can access an unbiased and dynamic environmental knowledge hub. Here, people can easily find, verify, and collaborate on information, while tracking how truths evolve over time and inspiring new positive innovations.





PROBLEMS ADDRESSED

1

Unfair representation of diverse perspectives in environmental discussions

2

Biased decision making, policymaking, learning.

3

Difficulty in promoting sustainable behaviours

4

Data verification for research and innovation purposes

5

Unfair competitive advantage for Companies

6

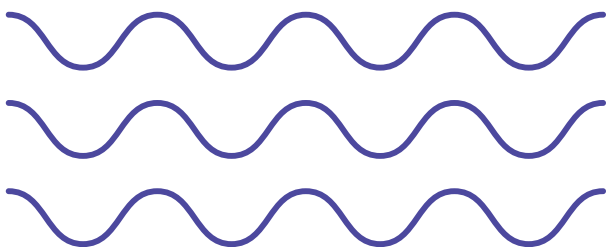
Selective access to comprehensive environmental data

7

Non-equal sustainability skills growth

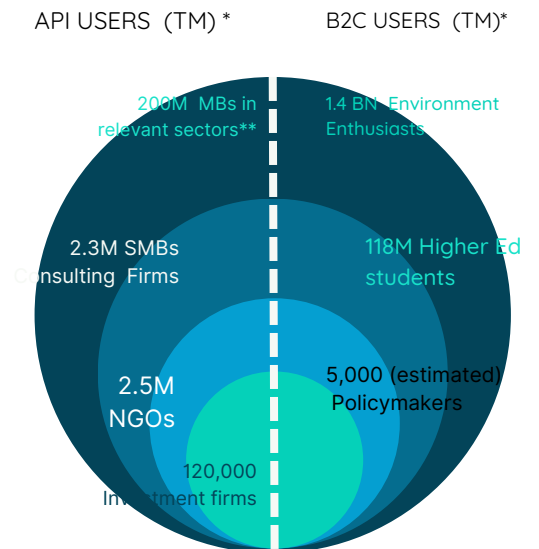
8

Difficulty in adhering to ESG compliance



MARKET WHO FOR

QUTII co-validated knowledge repository is expected to ingest 8M+ research pieces per year, offering a valuable market opportunity including subscription-based APIs for advanced searches, enhancing education and online learning courses, supporting green innovation financial analysis, aiding governmental and environmental agencies in reliable data tracking, assisting companies in defining sustainability strategies, and providing self-growth opportunity to the layman



TRUTHTECH UNIQUENESS

Governments and thought leaders around the world clearly state how AI applications have the potential to flood the public sphere with good as well as bad information. While ChatGPT like AI applications, are adept at aping human conversational styles, which serves to make misinformation more plausible and compelling, QuTii remains committed to prioritizing fidelity in multi-perspective sources exposure, ensuring equitable access to a profound understanding of complexity for all leading to equal opportunities for individuals and to unbiased information for all.

WHO WE PARTNER WITH



OA Scientific Publishers,
Universities, p2p reviewed Press,
Research Hubs, Governmental Institutions, International Organizations, NGOs

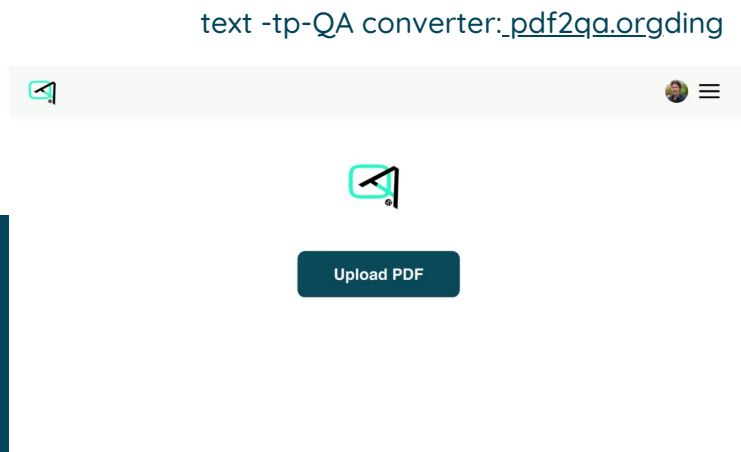
TOGETHER WE

- Promote the dissemination of accurate environmental knowledge
- Foster a culture of informed decision-making
- Take part in a diverse network of scholars, researchers, policymakers, and decision-makers
- Amplify the impact of research efforts and initiatives
- Gain access to a comprehensive repository of verified and reliable information before others
- Contribute to the advancement of responsible AI development
- Promote transparency and integrity

3 PILLARS OF THE PROJECT

1

Fidelity- First quotes



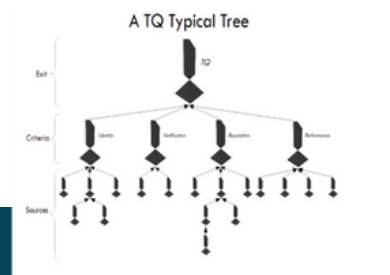
The most straightforward method of learning involves posing questions. The advent of modern technologies such as ChatGPT has made questioning machines for quick, concise answers seem like a viable learning solution. However, this approach relies on language models (LLMs) trained on vast web information, leading to potential inaccuracies. Moreover, it introduces two additional challenges:

- The quality of answers is contingent on the clarity of questions. If queries are not comprehensible to the machine, the responses may not align with expectations.
- Since answers are shaped by questions, exploring unfamiliar topics becomes challenging. Our limited knowledge restricts the discovery of information we don't already know, and the machine may struggle to provide insights without precise input.

QuTii delivers diverse, multi-perspective information through 35-50 word Q&As tied to specific keywords. The model currently underlying the PDF2QA application, refrains from subjective interpretation, focusing solely on extracting valuable text and identifying related information for user presentation. The approach enables:

- Fair and objective representation of available knowledge
- Discovery of answers that were not asked

3 PILLARS OF THE PROJECT



2 Reliability Scoring System

QUTII creates a level-playing field for sources of information addressing biases and discrimination at two distinct stages:

1. **data sources equalization** based on reliability
2. **data ranking** based on relevancy

The fairness system originates from the TiiQu score developed in 2017, assigning equal maximum values to four nodes: source identity, information co-validation, information reputation, and information performance. Applying the score to the library, allocating 25% to the reputation node and ensuring the other three nodes are fact-based, the system objectively limits the subjectivity of human evaluation and robustly represents information trustworthiness and consensus.

Identity Node

Fair equalization of sources is guaranteed by assigning a trustability value to the identity node of the scoring system.

Co-validation verification

This is where the similarity and contradiction scores crystallize the level of consensus on a piece of information.

Reputation Node

Derived by the sentiment analysis on users' reaction to a Q&A and it aims to add the human-led evaluation from generic users to the objective measurement of the agreement on the Q&A as detected in the co-validation node.

Performance Node

This is where the interaction with a Q&A is quantified. It is meant to equalize the reputation and co-validation scores so that a piece of information with less interaction is not penalized.

3 PILLARS OF THE PROJECT

3

The Map of Knowledge

supported by graph database technology, QUTII's map offers a powerful alternative to traditional search engine systems by providing a comprehensive and interconnected representation of information.

Unlike search engines that primarily rely on keyword matching and popularity metrics, a graph database allows for the modelling of complex relationships between entities, facilitating more nuanced and contextually relevant knowledge discovery.

Users navigate interconnected nodes and edges, exploring relationships, patterns, and insights that may not be readily apparent through keyword-based searches alone.

The integrated fairness system, based on reliable information scoring, enhances the reliability and trustworthiness of the knowledge presented.

The image displays two screenshots of the QUTII interface. The top screenshot shows a 'Map of Knowledge' with a search bar and several trend topic filters (Trend Topic 1-5). The map itself is a complex network of nodes and edges, with various terms like 'Electricity Access', 'Sustainable Technologies', 'Energy Assessments', and 'Solar Hybrid Technologies' visible. A specific node, 'Paris Agreement', is highlighted with a red location pin. The bottom screenshot shows a detailed view of a search result for 'What are the key objectives of the Paris Agreement?'. It includes a 'Show Abstract' section with the text: 'The Paris Agreement aims to limit global temperature increase to well below 2 degrees Celsius above pre-industrial levels, enhance global climate resilience, and foster sustainable development.' Below the abstract are 'Keywords' such as 'Climate Resilience Measures' and 'Sustainable Development'. At the bottom, there are interactive buttons: 'Source List', 'Save', 'Agree', 'Disagree', and 'View Contradictions'.

BUSINESS MODEL



B2C
FREE ACCESS | CALLS
QUOTA

free access to knowledge searches up to a monthly quota. Potential future option to upgrade to a paid subscription for enhanced functionality or additional service



B2B
API | CONTINUOUS SEARCH
LICENCE

Subscription-based model offering tiered plans based on company size, industry, and usage needs.

Permitted use of the platform's technology and services particularly referred to pdf2qa Coherence score and Q&A generation



DONATIONS
GRANTS
PARTNERSHIPS

Wikipedia-style donation model, AI-related grants and CPU-grants and strategic collaborations with knowledge repositories, institutions, and research hubs are three essential components of ongoing fundraising strategy.

WIDER IMPACT

The library is a global online solution, starting in English-speaking countries, with a focus on prioritizing societal benefits. It offers open-access education and subscription-based APIs for advanced data analysis. With an annual output of around 8 million research papers, including a growing 40% being open access, the library is expected to accumulate billions of Q&As in a few years. This rich resource has vast potential for reliable information, impacting self-education, research, innovation, citizen engagement, innovation evaluation, and potentially knowledge augmentation.



**GLOBAL SOCIO-
ECONOMICAL
SOLUTION TO
INFORMATION BIASES**



**FAIR AI
DEVELOPMENT**



**GREEN
COMMITMENTS**



JOBS CREATION



**COMPETITIVENESS
AND COMPLIANCE**



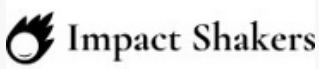
**CODE OF PRACTICE
ON
DISINFORMATION**





WHO IS TIIQUNETWORK

A growing community of committed engineers and forward-minded partners, forging the beacon of truth to disseminate, measure and augment truthful knowledge for the benefit of everyone's critical thinking.



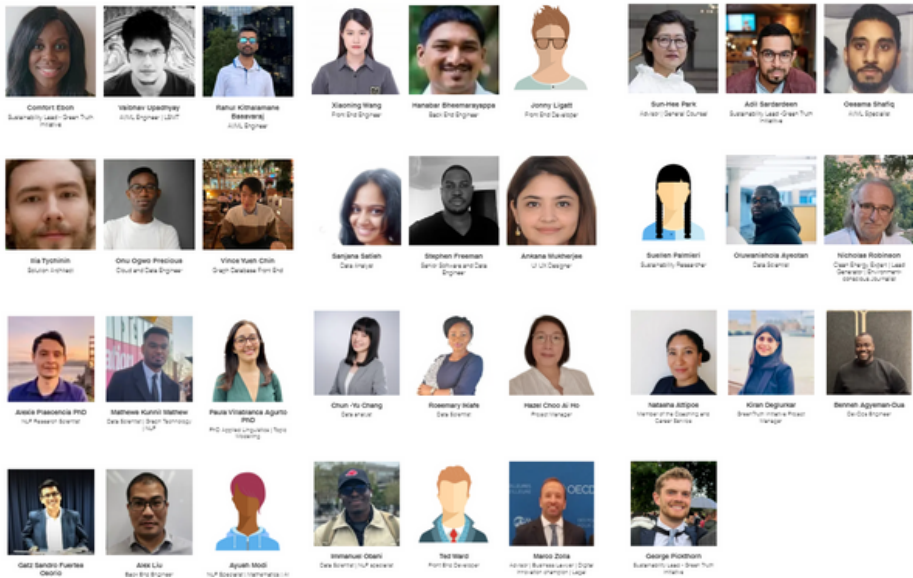
Winners - *Impact Shakers Award*



EU commission recognized- *DLT4GOOD*



Co-Winner - *See Through Carbon Competition*



Lola Paswanga - Joshua Adeyemo - Radhea Dewi - Joe Ballantyne - Dhanya Jayaprakas - Ankita Kotadia - Hamdi Habiil - John O'Sullivan - Yacob Usman - Riya Dodthi - Sofia Avramfidi - Simona Stroe - Giselle Chuagg - Joshua Giwa - Pranav Madathil - Valentin Moyo - Sapna Jain - Chenise Jones - Sandra Milena Acosta - Derek Donnel - Sophia Ros - Paula Carrasco Molina - Yakunat Sankey - Laura Loi - Alex Crisp - Nataliya May - Kerena Townsend - Carmen Ruiz Elvira - Nick Ho - Michael Asamoah - Osesie Sallau - Shingirai Simba - Rutwik Patil - Eva Bustos - Kevin MacKenzie - Niccolo' Smaldone - Jermaine Kelly - Max Albert - Jeanne Roboh - Panmwa Ochigbo - Mohammadreza Jamalifard - Vincent Chan - Niall Slater - Michael Asamoah - Jana Bakr - Orogun Adebola - Ikenna Amaechi - Adeel Ahmad - Suman Sharma.



Laura Degiovanni - Founder



TIIQU

FOR INQUIRIES, CONTACT US



www.tiiqu.com
www.qutii.org



+44 020 8135 8562



laura.dg@tiiqu.com

