

ROUNDTABLE I: DATA GAPS AND NEEDS FOR SUSTAINABLE FINANCE RESEARCH

Introduction to PLADIFES



1.

PRESENTATION OF THE PLADIFES PROGRAM

Development of platform/database in green and sustainable finance, answering the market and academic needs via the aggregation, the reconciliation et the creation of alternative extra financial data.

PLADIFES : A NEW PROJECT FINANCED BY THE ANR



The ILB won in 2021, in collaboration with the CNRS and the AMUNDI research program of the l'ESSEC, a call for tenders of the ANR for creating a green and sustainable database with customs IA-based indicators.



- **CNRS Grenoble :**
 - Extension of the excellency equipments EUROFIDAI et BEDOFI (financial databases).
 - Provisioning technical means (servers, virtual machines, etc) for the establishment of a new database.

- **Chaire ESSEC AMUNDI (Excellency equipment) Historical Financial Data, from 2011 to 2021:**
 - Recuperation of ESG data coming from a vast pool of data providers.
 - Advanced analysis on these.

- **Institut Louis Bachelier**
 - Recuperation and analysis of ESG data, aggregation, cleaning and eventual completion.
 - Creation of new data using data science algorithms:
 - Creation of new carbon emission measures using satellite data
 - Exploitation of text data (NLP)



GREEN AND SUSTAINABLE DATA AXIS - REALIZATIONS

SURVEY SUBMISSIONS

- **Academic survey :**
 - Shared end of 2021 (18 answers)
 - Main outputs:
 - ESG data mainly suffer from a lack of **granularity, standardization, transparency and reliability**;
 - ESG data gaps mainly affect research in **Impact measures** and **Risk (physical, transition and liability)**;
 - If working with a data providers, they highly value the ability to **download** and **work locally with the data**.
- **Data provider survey :**
 - Survey shared beginning of 2022 (13 answers)
 - Main outputs:
 - Most ESG data providers allow **academic researchers** to access their data, even if a specific process is often not existing
 - They all pretend to cover all sectors and all regions.
- **Financial practitioners survey**
 - Survey shared beginning of 2022 (8 answers), in partnership with the AFG
 - Main outputs:
 - Main objectives pursued: **Risk assessment, Climate alignment, Taxonomy alignment**
 - **Same data gaps** identified as the academics
 - **No significant demand** for educational support about the **nature** and **usability** of ESG related data.

GREEN AND SUSTAINABLE DATA AXIS - REALIZATIONS

MAPPING OF ESG DATA PROVIDERS

GOALS:

- **Help academic and professionals** to find the relevant data providers they can work with.
- Give a **consolidated overview** of the main characteristics of a given data provider (“The Yellow Pages of ESG data providers”).
- Serve as an entry point for interaction with professionals in sustainable finance, leading to new partnerships and research projects.

FOLLOWED STEPS:

1. **Identification** of the entire universe of available ESG data providers.
2. **Completion** of this database with relevant information for each data providers.
3. **Sharing** of an interactive tool online, to come end of March 2022, (visuals in next slides).

EXECUTION OF PROJECTS OF CUSTOM DATA CREATION FOR RESEARCH IN GREEN AND SUSTAINABLE FINANCE

INCOMING STEPS:

- **Identify** data providers interested to work with us.
- **Construct a new database** based on existing data (coming from **data providers** or **web scraping**) and “handcraft” data (using **Machine Learning** techniques such as **NLP** or **Computer Vision**).
- **Share** this new database with interested researchers.

GREEN AND SUSTAINABLE DATA AXIS – DATA PROVIDER CARTOGRAPHY EXAMPLE

Data Provider Cartography

Find the data providers that can help you given your sustainable finance use case(s)

AN INTERACTIVE VISUALIZATION

- NAVIGATION IS BASED ON PREDEFINED GREEN AND SUSTAINABLE FINANCE USE CASES.
- AN EXHAUSTIVE TABLE OF THE IDENTIFIED DATA PROVIDER IS ALSO AVAILABLE.



● Alignment ● Impact ● Risk ● Governance ● Sustainability tools

GREEN AND SUSTAINABLE DATA AXIS – DATA PROVIDER CARTOGRAPHY EXAMPLE

Company overview: Carbon4 Finance	
Provider Type	Specialised data provider
Associated use cases	Portfolio alignment, SDGs contribution, Corporate rating, Transition risk, Physical risk, Footprints, Reporting, EU Taxonomy
Open Source?	No
Geographic Coverage	All Regions
Sector Coverage	All Sectors
Issuers Covered (Type) (Coverage)	Large Equity Listed Corporate, Small & Mid Cap Listed Corporate, Public Bonds issuers, States Issuers, 5000-10000 entities
Collected data (source) (type)	Company Public Reporting, Specialized Data Providers Tabular, Text
Frequency	Yearly
Quick description	
<p>Offers a complete set of climate data solutions covering both physical and transition risks, as well as biodiversity footprint. These proprietary methodologies allow financial organizations to measure the carbon and biodiversity footprint of their portfolio, assess the alignment with a 2°C-compatible scenario and measure the impacts that arise from events related to climate change and biodiversity loss. Also provides consulting services around ESG challenges.</p>	
Company's website link	

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