



La résilience est-elle une mode durable?

Prise en compte de la réglementation (« sustainability »)

Emmanuel Arbaretier (AIRBUS PROTECT)

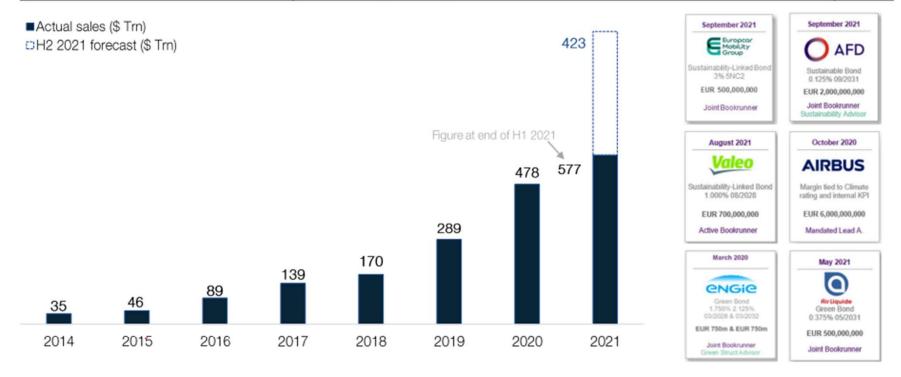


Agenda

- Context
- European Taxonomy
- Proces and examples
- Digital Twins
- Conclusions

Global issuance of ESG bonds is on exponential growth, especially in Europe where ESG is now 'part of every conversation with all corporate issuers' (Citi)

ISSUANCE OF ESG BONDS GLOBALLY (INCL. GREEN, SOCIAL, SUSTAINABILITY AND SUSTAINABILITY-LINKED BONDS)







The multiplication of green labelling initiatives has however led to different levels of compliance and robustness, with some 'greenwashing' risks

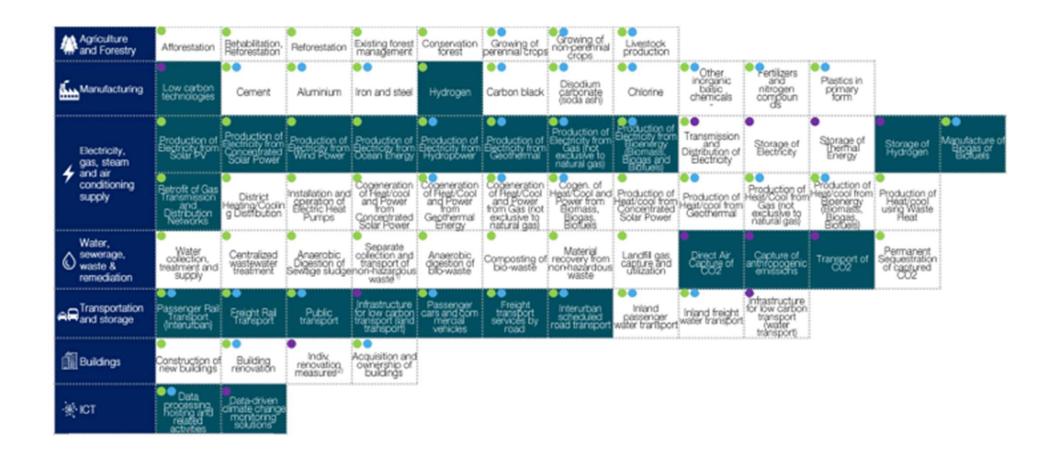
OVERVIEW OF SELECTED LABELLING SCHEMES

	Ву	Launch year	Considerations		
Green Bond Principles	ICMA ⁽¹⁾	2014	Very broad, allowing many issuers and participants, but leaving room for greenwashing and uncertainty		
Green Loan Principles	LMA ⁽²⁾ APAC LMA	2018	Broad standard like Green Bond Principles and minimal process guidance increases opportunities for greenwashing		
Sustainability- linked bonds	ICMA ⁽¹⁾	2020	New opportunities for labelling general purpose bonds and offers real incentives for progress. Room for greenwashing in bond structure		
Climate Bonds Standard	Climate Bonds Initiative	2011	Strict standard keeping total issuance much lower, but upholding a high standard and rewarding true impact		
EU Green Bond Standard (EU GBS)	European Commission	2020	Limited to the European Union but could be a catalyst for other regions. Alignment with EU taxonomy to be demonstrated. High level of initial requirements deters some issuers, but ensures integrity.		









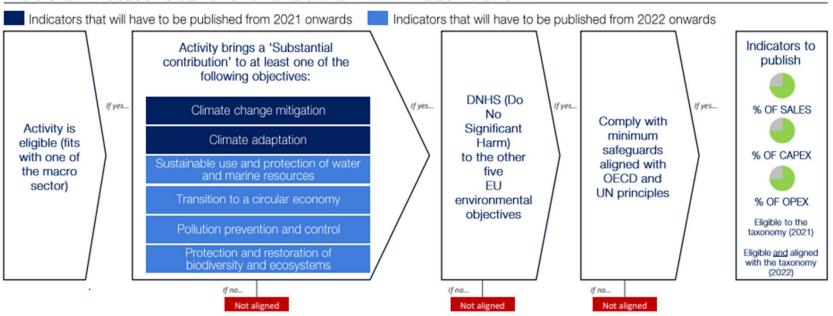




If a company has some eligible activities in its portfolio, it must follow a 3-step process to demonstrate their alignment with the taxonomy

To demonstrate the alignment of their activities with the taxonomy, some companies will seek support from 3rd parties (audit/consulting firms, SW solution developers...), with some of them having already structured their offer

THE 3-STEP PROCESS TO DEMONSTRATE ALIGNMENT WITH THE EU TAXONOMY



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The taxonomy in practice (1): H2-supporting facilities will have to meet specific standards to demonstrate a 'Substantial contribution' to Climate change mitigation

EU TAXONOMY CONDITIONS OF APPLICATION REGARDING HYDROGEN'S PRODUCTION AND STORAGE







- Facilities operating at life cycle emissions lower than 100gCO2e/kWh, declining to 0gCO2e/kWh by 2050, are eligible
- This threshold will be reduced every 5 years in line with a net-zero CO2e in 2050 trajectory
- Assets and activities must meet the threshold at the point in time when taxonomy approval is sought
- For activities which go beyond 2050, it must be technically feasible to reach netzero emissions

- Direct CO2 emissions from manufacturing of hydrogen: 5.8 tCO2e/t Hydrogen in alignment with energy thresholds in the taxonomy
- Electricity use for hydrogen produced by electrolysis is at or lower than 58 MWh/t Hydrogen
- Average carbon intensity of the electricity produced that is used for hydrogen manufacturing is at or below 100 gCO2e/kWh
- The thresholds cover both direct and indirect emissions

- The infrastructure is used to store taxonomy-eligible hydrogen
- Infrastructure that is required for zero direct emissions transport is eligible under the transport section

The taxonomy in practice (2): A material impact for investors eager to obtain the EU Ecolabel that might translate in strong re-arbitrage in assets allocation

TAXONOMY IN PRACTICE: CRITERION(1) FOR EQUITY AND BONDS TO QUALIFY TO EU ECOLABEL

Bond – Illustrative portfolio composition					
	Bond compliant with EU Green Bond Standards (which itself refers to the Taxonomy)?				
Company A	Y				
Company B	Y				
Company C	Y				
Company D	N				
Total Portfolio	75%				

Equity – Illustrative portfolio composition								
	(1)	(2)	(3)	(4)	(4)*[(1)+(2)]/(3)			
	Green sales(€)	Highest Green capex(²⁾	Total sales	Weight	Contribution			
Company A	40	20	100	30%	18%			
Company B	30	15	100	30%	14%			
Company C	20	0	100	40%	8%			
Total portfolio	The state of the s	The state of the s	Contraction of the Contraction o	100000000000000000000000000000000000000	40%			



>70%, thus bond fund eligible to proposed EU Ecolabel criteria



<50%, thus equity fund not eligible to proposed EU Ecolabel criteria

As investors' appetite for Green bonds keep expands, companies with access denied to the Sustainable finance market may end up paying a premium on their interest rates





Many remaining questions

How ESG requirements may be integrated in design and deployment of DT

 How DT of an industrial asset can be validated and certified from ESG point of view?

 Beyond sustainability features, how to measure social performances to be injected in DT?







Sustainability consequences

- Strong effect on industry roadmap, strategy, R&T, risk analysis activity...
- European Ecolabel to asign to vertuous activities or change initiatives
- strongest action leverage of European Green Deal

Merci de votre attention

Questions?



