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Targeting a sustainable recovery with Green TLTROs

A discussion

Presentation at Positive Money Webinar

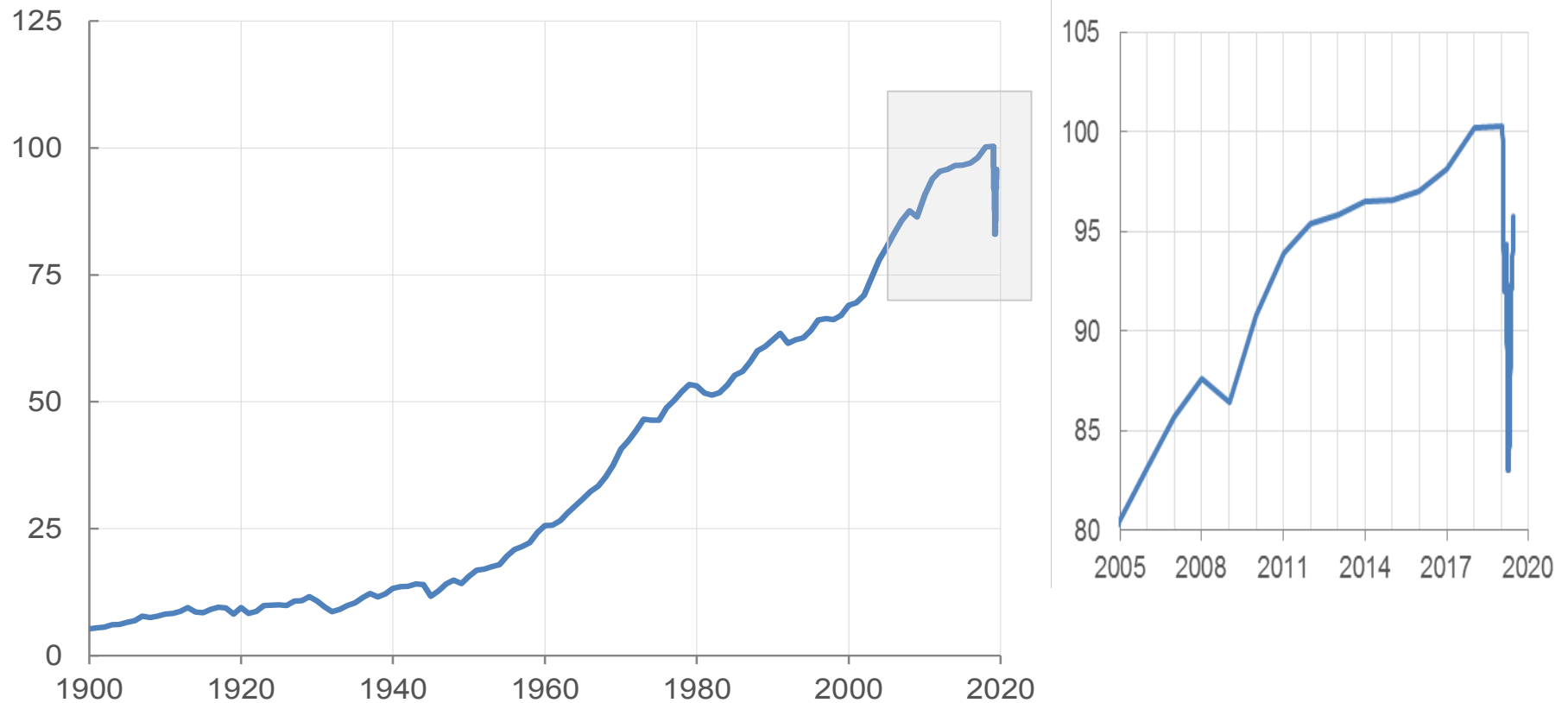
12 October 2020

The views expressed in this presentation represent solely those of the presenter and not of the European Central Bank

Climate shocks are inevitable

- **2020:** drop in global CO₂ emissions estimated to be between -4 and -7%
- **Meeting Paris agreement** requires an annual drop of -7.6% between 2020-2030 (UN)

Global annual CO₂ emissions (in million tonnes)

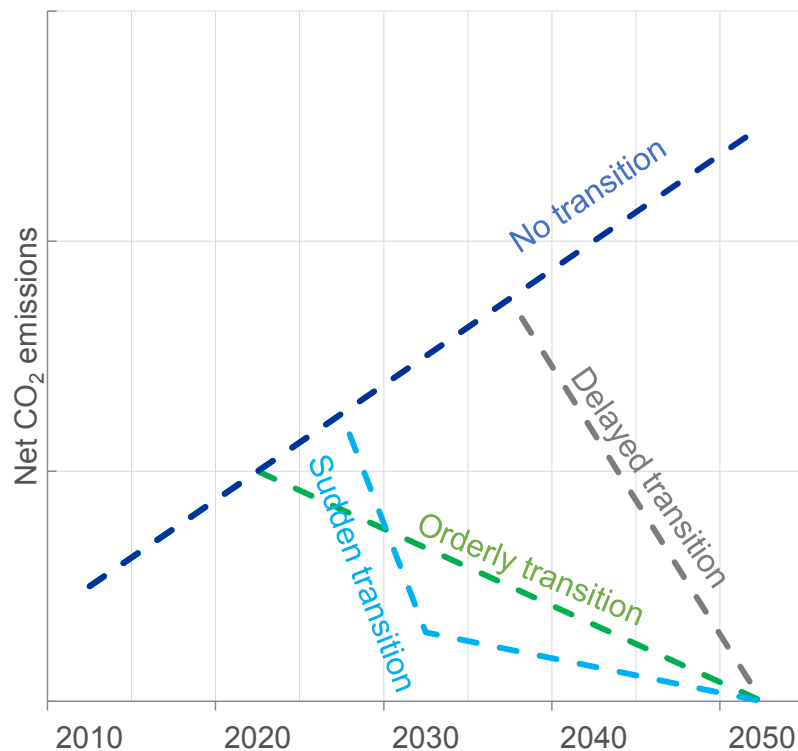


Source: Le Quéré et al. (2020). Global Carbon Project combined with Carbon Dioxide Information Analysis Center (CDIAC) (prior to 1959). Latest observation: 11 June 2020

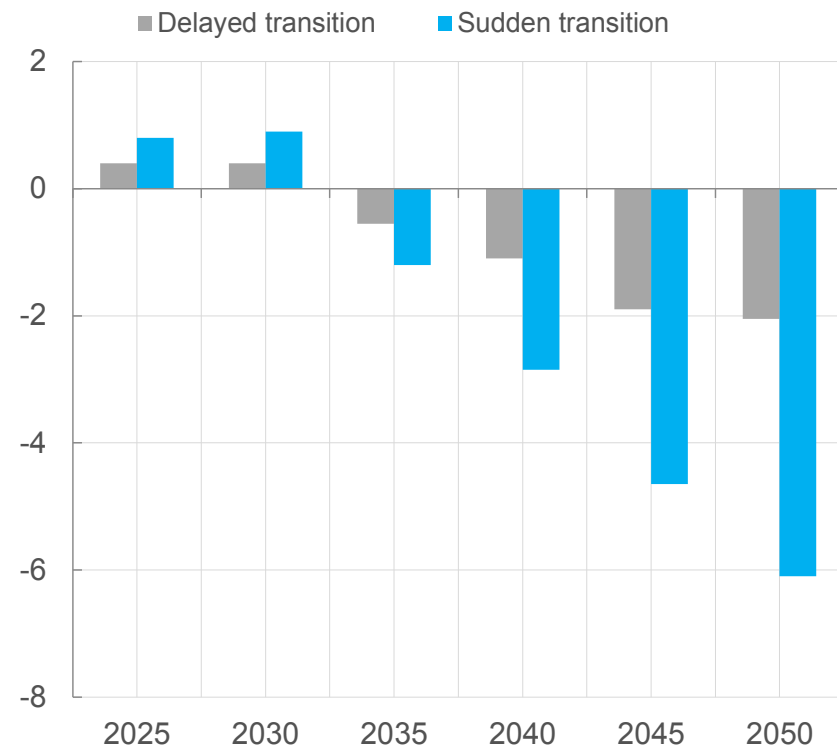
Physical and transition risks of climate change

- **Estimated costs of no action:** -10% GDP in 2100 (OECD); USD 20 trn stranded assets by 2050 (IRENA)
- **Investment needed to reach Paris target** (global warming < 1.5°C) : USD830 bn p.a. until 2050 (IPCC)

Proposed scenarios
(in terms of emissions)



Impact on real GDP - Europe
(% deviation from orderly transition baseline)



Sources: Allen et. al (2020). Climate-Related Scenarios for Financial Stability Assessment: an Application to France. Banque de France working paper number 774, July 2020.

A role for the ECB? Risk based or also catalytic approach?

Prudential supervision/financial stability:

- **Contribute to the safety and soundness of the banking system and the stability of the financial system**

Monetary policy: Hierarchy of objectives for the Eurosystem; in pursuit of secondary objective the ECB should not extend its competences; act in accordance with open market economy principle

- **Currently under consideration in the ECB strategy review**
- **Primary objective: price stability:** risk based approach - Balance sheet risks; Risk to the transmission of monetary policy; Policy space
- **Secondary objective: take into account the broader economic goals of the Union**
Catalytic role?
 - Art 127[1] TFEU: “[...] Without prejudice to the objective of price stability, the ESCB shall support the general economic policies in the Union [...].” Specifically: Art 3[3] TEU: “[...] It shall work for the sustainable development of Europe based on balanced economic growth and price stability, [...], and a high level of protection and **improvement of the quality of the environment.**” Art 11 TFEU: “**Environmental protection requirements** must be integrated into the definition and implementation of the Union's policies and activities.”

What is the ECB already doing

Defining rules and standards

- Member of the NGFS and active contributor in three NGFS workstreams
- Contribution to the development of the EU taxonomy of sustainable economic activity; Member of EC platform on sustainable finance
- Input into the European Commission's public consultations on the Renewed Sustainable Finance Strategy and the revision of the Non-Financial Reporting Directive

Prudential supervision

- Active contribution to BCBS and FSB initiatives
- Taking stock of SSM' banks' climate related risk practices and disclosures
- ECB guide on climate-related and environment risks (forthcoming)
- Develop stress-testing scenarios (and related modeling tools) that incorporate climate-related and environmental risks

Investment strategy

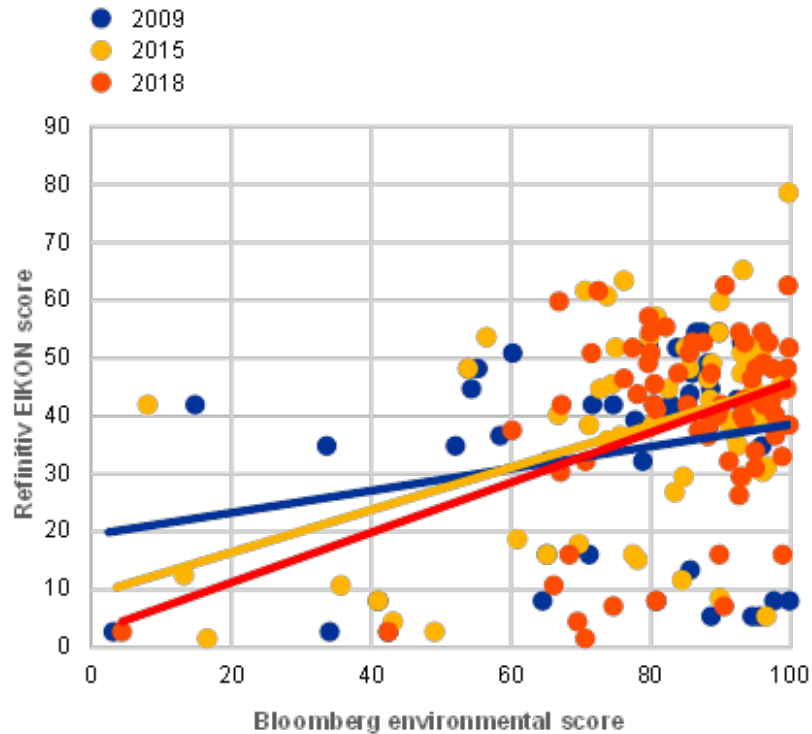
- Own pension fund investments
- Non monetary policy portfolio

Monetary policy

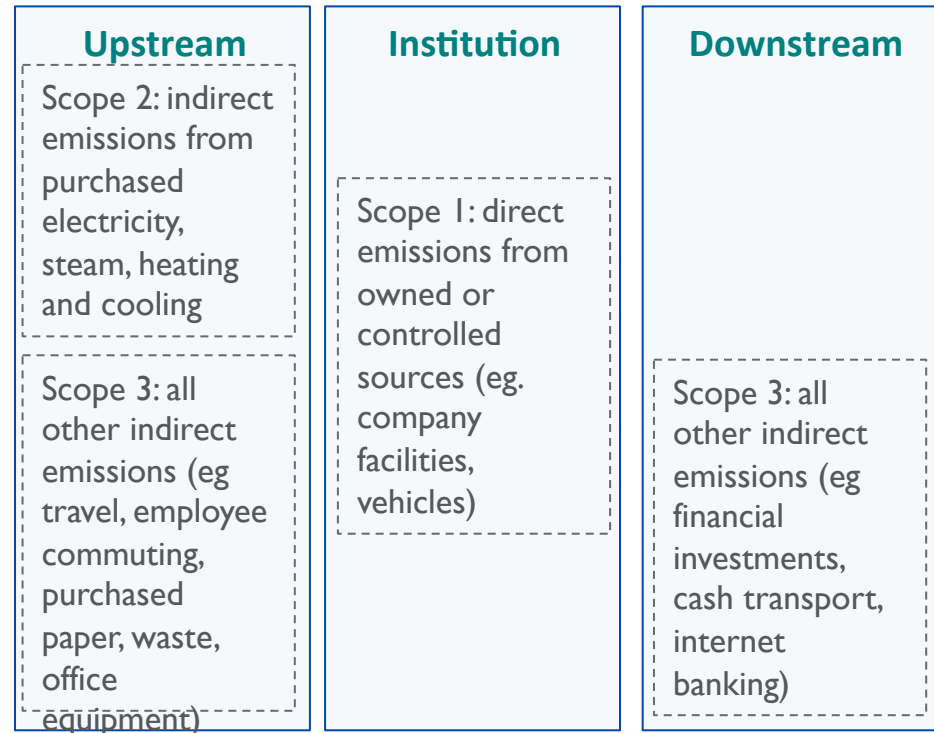
- Develop modeling tools to understand the macroeconomic implications of climate change
- Purchase of eligible bonds by Eurosystem (holding already 20% of the eligible green corporate bond universe)
- Collateral eligibility: sustainability-linked bonds as collateral (as of January 1st)
- Strategy review

Challenge 1: doing it well! what is green? - classification

Correlations of bank environmental scores by Bloomberg and Refinitiv Indexes



Typical items to be included in scope 1, 2 and 3 emissions reporting in the financial sector

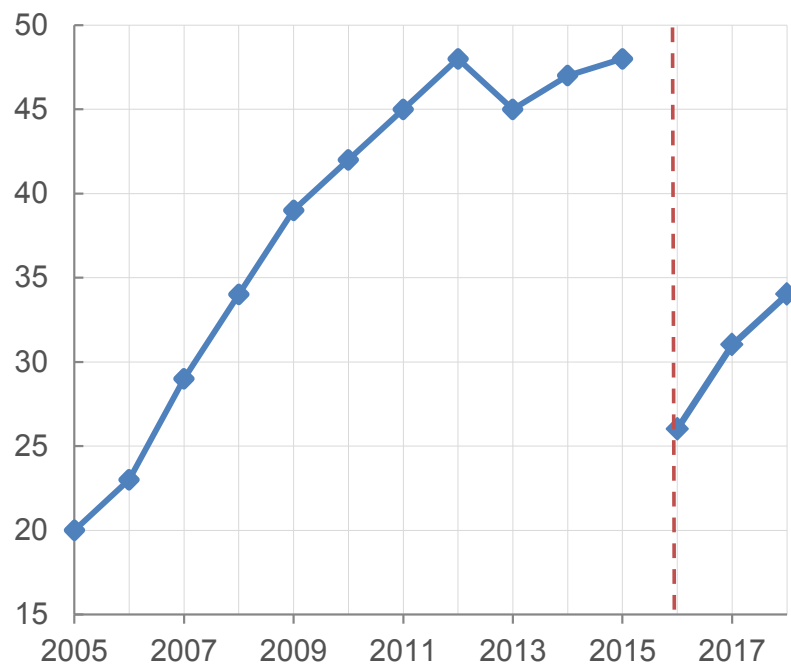


Sources: Bloomberg, Refinitiv EIKON, S&P Global Market Intelligence and Dealogic. Sources: Greenhouse Gas Protocol, annual and sustainability reports of financial institutions and ECB calculations.

Notes: Left panel: The Bloomberg and Refinitiv environmental scores can take values between 0 and 100, whereby a higher value indicates a better performance in terms of environmental variables. The full unbalanced sample consists of 49 banks and 23 insurers in the European Union and the United States.

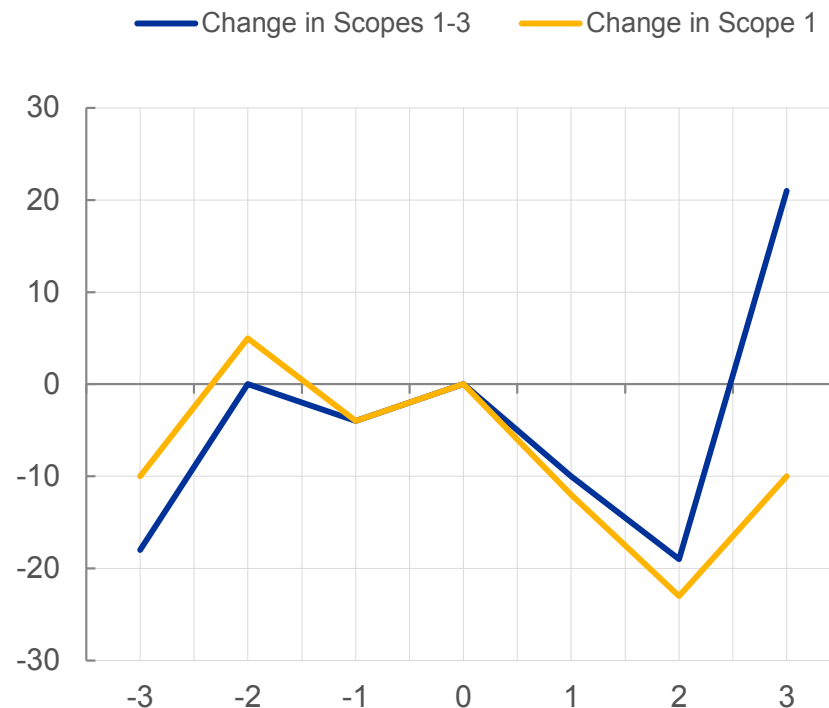
Challenge 1: doing it well - what is green? – disclosure and monitoring

Share of firms that disclose carbon emissions across 42 countries
Percentage of all firms



Sources: S&P Trucost as in Ehlers et. Al (2020). *Green bonds and carbon emissions: exploring the case for a rating system at the firm level.* Note: there was a structural break in the data in 2016 due to an outsized increase in S&P Trucost.

Total average change in carbon intensity before and after green bond issuance
Issuance at t=0

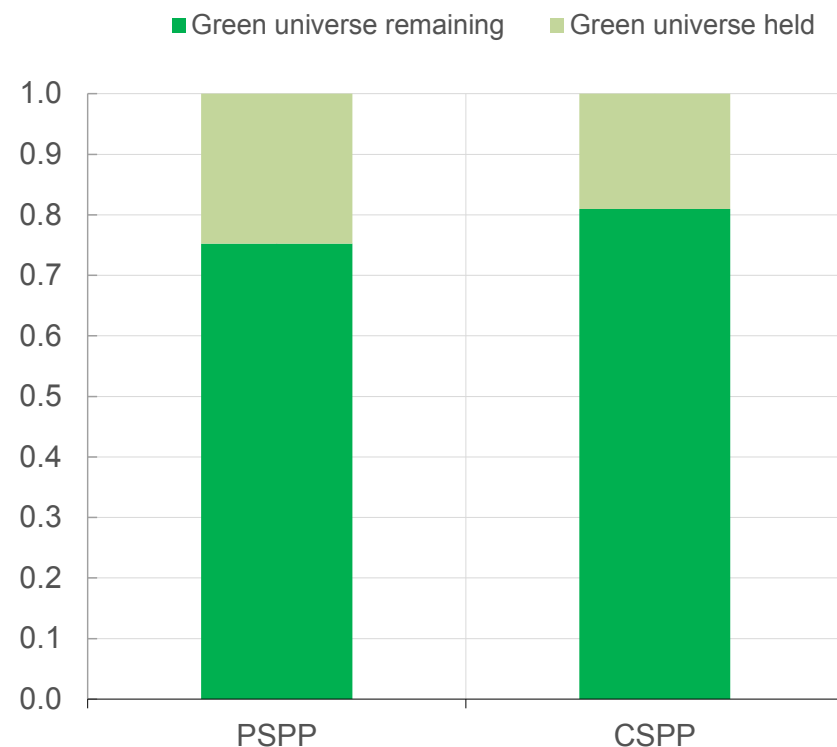


Sources: Ehlers et. Al (2020). *Green bonds and carbon emissions: exploring the case for a rating system at the firm level.* Notes: Scope 1 covers direct emissions. Scopes 1-3 also includes indirect emissions.

Challenge 2: market size

PEPP and PSPP green eligible bond universe and Eurosystem holdings

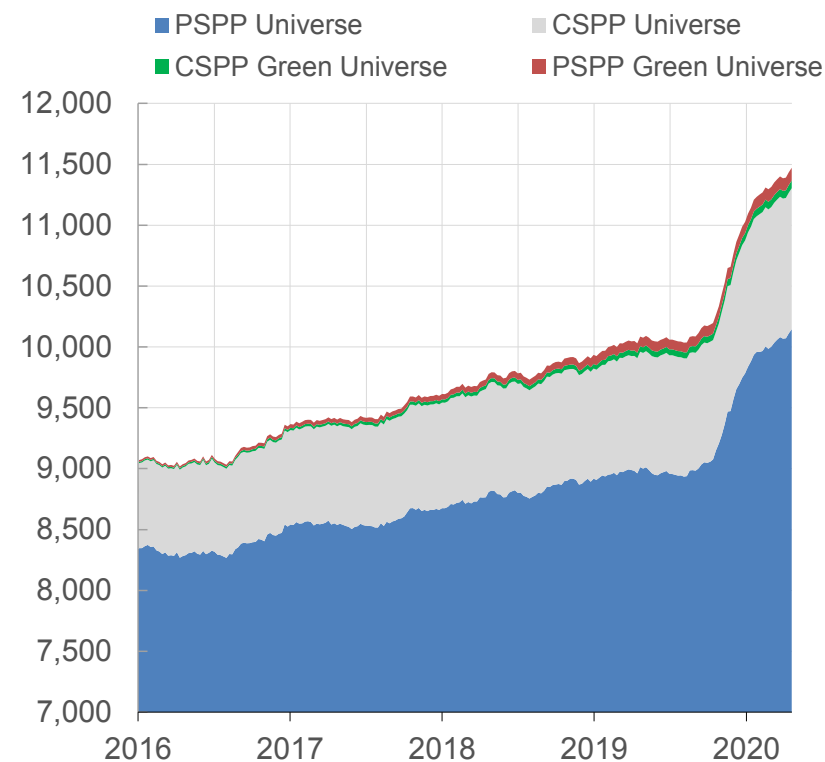
Average since 2018



Source: EADB and ECB calculations
Last observation was for 25 September 2020.

PEPP and PSPP universes and respective green universes

In EUR billions



Sources: EADB and ECB calculations
Last observation: 25 September 2020.

Discussion of green TLTRO paper

Welcome paper. Strategy review: ECB listens!

Some questions from my side:

- **Objective of Green TLTRO?**
 - TLTRO play a central role in the pandemic to ensure continued funding to firms in the context of an unprecedented liquidity shock.
 - Green TLTROs should not jeopardize capacity to deliver on primary objective
- **Timing?**
 - Can act as a catalyst (eg disclosure linked eligibility criteria) but...
 - Introduction when COVID liquidity crisis is still on-going may not be ideal
 - Operationalization issues: better data needed; taxonomy; reporting burden for SMEs
 - Regulatory framework needs to be supportive of green investment (TLTROs: you can lead a horse to water, but you can't make him drink)

Discussion of green TLTRO paper

Some questions (continued)

- **Side effects?**
 - Implication for other “secondary objectives”?
 - Possible level playing field issues due to cross country differences (asymmetric distribution of potential borrowers of green loans; considerable differences in fiscal frameworks)
- **Right instrument?**
 - No silver bullet? equity still better than debt: given the high capital intensity, high risks and long-term horizon of most projects *(See De Haas, R., and Popov, A. (2019), “Finance and carbon emissions”, ECB Working Paper No 2318; and Financial Integration and Structure in the Euro Area, European Central Bank, Frankfurt am Main, March 2020.)*
 - Climate = structural challenge; TLTROs not structural in nature