





German Excellence. Global Relevance.

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GREEN RECOVERY DELIVERING THE GREEN DEAL

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Goal

Climate neutrality and just transition

Resilient recovery and competitiveness

Financing

MFF and RRF

Capacity building

DG REFORM

Regulation & Structural Reforms

European Semester: CSRs, AMR, MIP Energy Union

Integrated governance for policy coherence

MFF and RRF aligned with the Green Deal

Mobilise DG Reform to support MS with green investment Re-calibrate the European Semester for the Green Deal

Boost green deal (investment)

Goals Leverage to reach goals

Recover and build resilience

Financial Resources

Structural Reforms & Regulatory Framework

Smart and Transparent use of Public Money

- Intelligent climate share (e.g. taxonomy based)
- Disclosure for recovery and MFF beneficiaries (NFRD)
- Mobilise/facilitate key role of government in leading and stimulating innovation

Aligned and integrated governance

- Integration of key EU (governance)
 frameworks (European Semester & RRF,
 Energy Union & JTM
- Greening the European Semester (e.g. Scoreboard, alert mechanism report, MIP, CSRs)

Mobilisation of private finance

- Capital raising plans
- Green investment capacity building: Strengthening DG REFORM's green capacity
- Regional investment hubs

Governance

Mechanism

Analysis of "Next Generation EU" and the MFF 2021-27: The 25% climate target is not sufficient ... and governance is key!

1768



Share of needed climate investment (totalling 2.4 trillion euros) covered by the proposed EU budget (all figures in bn EUR) Figure 1 Climate contribution uncertain All leveraged funds 360 Climate contribution uncertain MFF w/o CAP Climate 108 uncertain

Remaining Investment & Financing Gap

Climate&Company, 2020

RRF&

127

REACT EU

"Dedicated"

Funds

80

How to mobilise MFF and RRF for the green deal: Do no harm principle, Taxonomy and effective governance



Operationalization of the do no harm principle

"[The MFF and NGEU] shall comply with the objective of EU climate neutrality by 2050 and contribute to achieving the Union's new 2030 climate targets, which will be updated by the end of the year. As a general principle, all EU expenditure should be consistent with Paris Agreement objectives." (Source: EUCO conclusions; I Next Gen EU, Art 21)

"[...] EU expenditure should be consistent with Paris Agreement objectives and the "do no harm" principle of the European Green Deal [...]" [...]" (Source: EUCO conclusions; Annex I, paragraph 18)

Apply do no significant harm principle to all budget lines. (I)

Need for an effective governance

NECPs
National Reform
Plans
Recovery and
Resilience Plans
Plans

Taxonomy for carbon accounting in the EU budget

"[...] An effective methodology for monitoring climate-spending and its performance, including reporting and relevant measures in case of insufficient progress, should ensure that the next MFF as a whole contributes to the implementation of the Paris Agreement. [...]" (Source: EUCO conclusions; Annex I, paragraph 18)

Use **Taxonomy** as a science-based tracking tool. (II)

Policy coherence requires integrated governance! (III)

In-depth discussion and illustrative examples

• Do	no harm			
■ Tax	xonomy			
• Go	vernance			

Do no harm principles exist already in MFF budget lines but are not comprehensive and inconsistent



ERDF and Cohesion Fund [COM(2018)372]

Article 6: nuclear, tobacco, airport infrastructure (except for outermost regions); disposal of waste in landfill; fossil fuels (exception of investment related to clean vehicles as stated in Art. 4, Directive 2009/33/EC)

Invest EU, Annex V [COM(2020) 403 final]

- Human rights, tobacco, gambling, sex trade, ...
- Investments related to fossil fuels and gas, except: a) projects with no viable alternative technology, b) projects related to pollution prevention and control; c) CCS/CCU and research projects leading to substantial GHG emission reduction

Just Transition Fund, Article 5 [COM(2020) 22 final]

Nuclear, tobacco, fossil fuels, broadband infrastructure in areas with at least two networks of equivalent category

To ensure that an expense is "consistent with Paris Agreement objectives", we need comprehensive sectoral exclusion criteria and for the rest technology neutral development

Industry

20% of EU emissions, high risks of lock in

- Production of fluorinated GHG with a Global Warming Potential (GWP) of >150¹
- Chemical manufacturers unless for safe and sustainable chemicals²
- No support for coal/heavyfuel oil/ fossil gas as fuel or feedstock³
- No support for electricityintensive processes without a plan to green power sources by 2030³
- GHG emissions are higher than the average global emissions for that activity⁴

Energy Supply

30% of EU emissions, key to electrify processes

- Nuclear, fossil fuels, gas¹
- Crop-based biofuels and unsustainable bioenergy²
- No activity can have emissions intensity above the average emissions (regional)⁴
- **.** [....]

Transport

22% of EU emissions

- Expansion of aviation capacity and motorways²
- Internal combustion engine vehicles²
- LNG and diesel maritime vessels (except substantial GHG improvements)²
- Fossil gas (LNG/CNG) infrastructure for transport²
- All DNSH criteria from the EU Taxonomy (e.g. Emissions performance threshold of > 95g CO2 e /pkm for passenger cars)⁴

Buildings

13% of EU emissions

- Fossil-fuel based heating appliances³
- DNSH criteria from the EU Taxonomy (e.g. new building must comply with all applicable mandatory national/regional regulations regarding energy & carbon performance)⁴
- [....]

Agriculture / Forestry

12% of EU emissions

- Production of agricultural products on land obtained as a result of deforestation of primary forest [...] after the year 2000¹
- Livestock farming, unless organic or extensive (<0.7 LSU/ha)²
- Timber production unless operator demonstrates that harvest is covered by valid licences and not from primary forest with high biodiversity value & carbon stock.¹
- DNSH criteria from EU Taxonomy.⁴

¹⁾ As stated in the Ecolabel exclusion criteria; 2) as suggested by the G-10; 3) Climate & Company (2020) – Study for Agora; 4) Taxonomy, DNSH to objective "mitigation" (part of the climate change adaptation Taxonomy) Note: Plus, there are overall exclusion activities by the IFC World Bank Group (link) or the KfW (link).

Taxonomy vs. current climate finance accounting practice



Example

Current methodology ¹

"Tracking via Taxonomy"

Energy efficient renovation of the existing building stock¹

Classified as "significant"; 100% contribution (... no matter how much the energy efficiency increased!) Only counts as a climate spending if primary energy demand is reduced by >30% of the building.

Newly built railways¹

Classified as "significant" (100%)

E.g. non-electrified rail infrastructure only counts with an existing plan for electrification or use of alternatively powered trains.

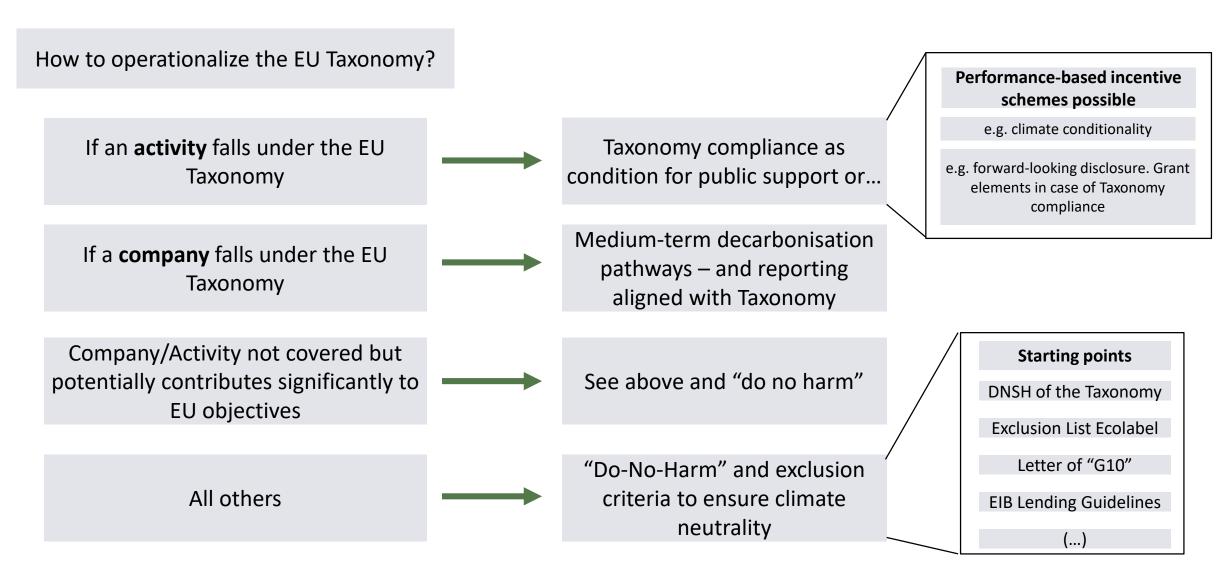
ICT, data collection¹

Classified as "insignificant" (0%)

Counts if ICT solutions are exclusively aimed at decision making enabling GHG reductions

Applying the Taxonomy – time pressure asks for pragmatic solutions







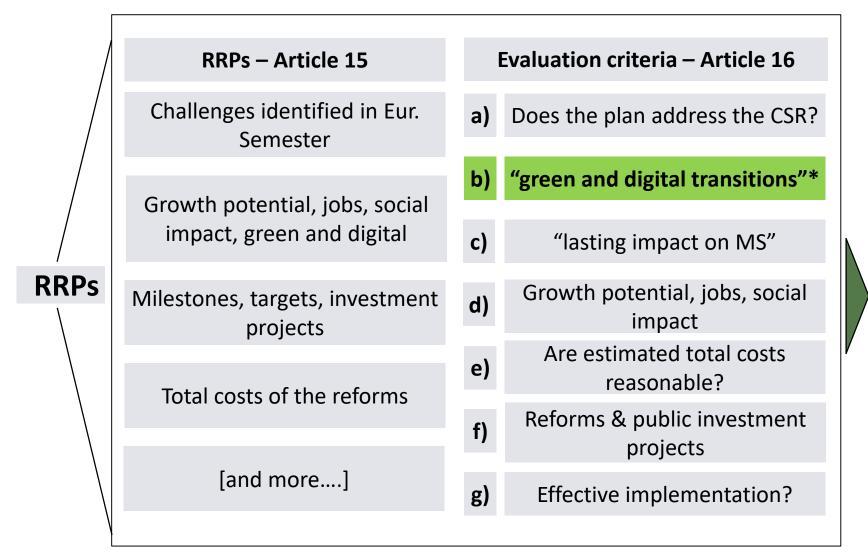
The scope of the EU Taxonomy for EU-27 firms¹: only 28% of market value COMPA of publicly listed EU firms is exposed to a "Taxonomy evaluation"

	EU27			
NACE Makrosektor	# Firmen	davon in "Taxonomiesektoren" (absolut)	davon in "Taxonomiesektoren" (Market Cap)	
A - Agriculture & Forestry	59	45	0.1%	
C - Manufacturing	1929	407	11.4%	
D - Electricity	110	91	4.3%	
E - Water	47	42	0.3%	
F - Construction	289	242	1.8%	
H - Transportation and storage	124	62	1.5%	
J - Information and Communication	754	325	5.4%	
L - Real Estate	445	445	3.3%	
	3757	1659	28.1%	
K - Financial and insurance	660		19.5%	
Other sectors (no Taxonomy relevance)	1354		10.7%	
	5771		30.2%	

¹⁾ Only publicly listed firms. Taxonomy mapping solely based on the primary activity classified via NACE codes. Other business segments are neglected.

The RRF and its firepower are at the heart of the next MFF: RRPs as the new "blank sheet" to direct public resource





Risk

- It is sufficient to address
 either "green" or "digital"
 criteria in the RRPs (see
 Annex II, COM proposal)
- Evaluation criteria are only vaguely defined

Example: "significantly contribute to establish climate- and environmental-friendly systems (...)"



Potential Elements of an Integrated Governance Mechanism for the Green Deal

- Policy coordination
- Monitoring and surveillance
- Country specific recommendations through established European Semester structure and support at national level

Monitoring: Capturing environmental factors through the ES

Proposing an **environmental scoreboard** in support of the European Semester's Macroeconomic imbalance procedure scoreboard (MIP) to strengthen the implementation of the Green Deal on the national level

MIP Scoreboard

In the ES cycle, the MIP scoreboard underpins the Alert Mechanism
Report, which identifies whether MS are affected by imbalances and in need of policy action

ENV Scoreboard

Similarly, an environmental scoreboard is suitable to serve as an early warning system tracking whether MS are on track with the green transition and helping to identify whether additional policy action on the national level is needed



Sustainable Finance Prioritäten 1

Nach der Verabschiedung der **EU Taxonomie-Verordnung** im Juli 2020 treibt die Bundesregierung die EU-Kommission an, den angestrebten Zeitplan für den **Erlass des delegierten Rechtsakts zur Implementierung der technischen Bewertungskriterien** der ersten beiden EU-Umweltziele ("Klimaschutz" und "Anpassung an den Klimawandel") der EU-Taxonomie bis zum 31.12.2020 einzuhalten. Die Empfehlungen und technischen Bewertungskriterien des Abschlussberichts der TEG bilden die Basis des delegierten Rechtsaktes. Das von der TEG empfohlene Mindestambitionsniveau der technischen Bewertungskriterien wird aufrechterhalten, da sich dies aus aktuellen wissenschaftlichen Erkenntnissen ableitet.



Sustainable Finance Prioritäten 2

Während ihrer Ratspräsidentschaft drängt die Bundesregierung auf eine ambitionierte Ausgestaltung der neuen Sustainable Finance Strategie der EU und entsprechend den Gesetzesentwurf zur Non-financial Reporting Directive der EU Kommission, die in Q1/2021 veröffentlicht wird. Um den Transformationsgedanken zu stärken, treibt sie vor allem die Umsetzung der TCFD Empfehlungen und die Nutzung von Klimaszenarioanalysen mit der NFRD an. Ebenfalls bereitet sie den Weg für eine ambitionierte nationale Übersetzung mit einem erweitertem Anwendungsbereich für Unternehmen ab 250 Mitarbeitenden, großen nicht-kapitalmarktorientierten Unternehmen und kleineren Unternehmen in Sektoren mit einem hohen Klima-Impact.





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THANK YOU!



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Additional Slides



The case for an Environmental Scoreboard in the ES

Delivering the EU Green Deal needs structural reforms and targeted investments.

Exactly matches the governance logic of the European Semester.

- Main topic of the ES in recent years has been the lack of investments, delivering the Green
 Deal requires the ES to re-gear to address the lack of green investments
- Covid-19 has put even more pressure on delivering the EU Green Deal, but has also led to increased public spending which limits the fiscal space in the future
 - Progress on the EU Green Deal needs to monitored closely and supported when necessary
 - EU needs to be able offer guidance and spot the need for additional policy action quickly
 - Early warning system allows for early corrective action
 - Environmental Scoreboard supports of the NECP implementation and review
- Climate tracking (e.g. with the Taxonomy) offers an ex-ante approach, the scoreboard supports it by working on a ex-post basis
- Increased transparency and accountability of Member States
- Increased future resilience through integrated governance regimes

The European Semester structure

Shortcomings

- Current MIP Scoreboard does not include any environmental sustainability or green transition related indicators
 - Tracking of environmental progress in ES structure generally limited (few and mostly energy-focused indicators)
- Green recovery is a declared priority in the EU the European Semester needs to reflect that
- European Semester suited to mainstream climate action and monitor climate action as well green investment gap

Opportunities

- European Semester structure is a well-established governance regime and fosters a continuous dialogue between the European Commission and Member States
- Re-gearing monitoring system and the ES more broadly towards the Green Deal offers far-reaching effects



Environmental Scoreboard

Indicators relevant for macroeconomic stability

 A range of environmental indicators are relevant to macroeconomic stability

For example:

- Risk of stranded assets
- Flood risk
- Heat stress
- More than 150 environmentally relevant indicators already tracked across different EU governance regimes

Indicators relevant for delivering the Green Deal

- Indicators tracking size and investment of green economy
- → Alignment with goals and targets of NECPs
 - Update due in 2024
- → Sector-relevant indicators tracking private and public (green) investment
- → Indicators chosen to reveal need for policy action
 - E.g. lack of relevant (public) infrastructure investments, etc.



Environmental Scoreboard proposed by IEEP (2020)

1 Size of the green economy		
Private Investment, jobs and gross value added related to circular economy sectors		
Environmental goods and service sector	Eurostat	
Gross value added from market output of the EU environmental economy	Eurostat	
Employment from market output of the EU environmental economy	Eurostat	
Green gross fixed capital formation/GDP	to be develope	
Private investment, jobs and gross value added related to low-carbon and circular economy sectors	to be develope	
2 Long-term sustainability of the economy		
Natural capital accounting indicators:		
Share of forest area	Eurostat	
Soil seal index	Eurostat	
Water bodies in good ecological status (%)	Eurostat	
Water exploitation index	Eurostat	
Indicators for Good Environmental Status of Marine Waters	to be develope	
Absolute decoupling indicators	to be develope	
Additional indicators measuring also the human, social and financial/physical capitals	to be develope	
3 Sustainable public finance		
Environmental protection expenditure of the public sector by type (environmental investments, environmental current expenditure and		
environmental subsidies/transfers)	Eurostat	
Contribution to the international 100bn USD commitment on climate-related expending	Eurostat	
Indicators of climate and biodiversity mainstreaming of public budgets at MS level based on an improved EU methodology for the MFF	to be develope	
4 Green incentives, taxes and subsidies Source: Charveriat, C. and Bodin, E. (2020) Delivering the Green Deal: the role of a reformed Semester within a new sustainable growth strategy for the EU, the Institute for European	Environmental Policy	

(IEFPASSII fuel subsidies

Environmental tax revenues Eurostat



Environmental Scoreboard proposed by IEEP (2020)

5 Measuring green R&D and Innovation	
Eco-innovation index	DG-ENV
Number of patents related to recycling and secondary raw materials	Eurostat
6 Sustainable Industry	
Industrial emissions intensity	Eurostat
Greenhouse gas emissions from transport	Eurostat
Greenhouse gas emissions from agriculture	Eurostat
Domestic material consumption per capita	Eurostat
Energy consumption in households	Eurostat
Generation of waste excluding major mineral waste	CE action plan
Per capita waste generation	EEA
Material footprint per capita	to be developed
Greenhouse gas emissions of the digital sector	to be developed
Greenhouse gas emissions of the chemical sector	to be developed
Level of take-up in corporate sustainability schemes (such as EMAS)	to be developed
7 Climate Change Risk	
Risks to human capital: Years of life lost due to exposure to particulate matter	Eurostat, EEA)
Economic risks: Climate-related economic losses	Eurostat, SDGs
Climate adaptation & DRR expenditures as a share of GDP	to be developed
Public funding for just transition	to be developed
Indicators for Integrating climate-related risks into financial stability monitoring and microsupervision	to be developed
Solves this shill cover effects (ર્શ્વર કાર્મિક કારિકાર કાર્યા ક	nvironmental Policy

If the climate spending is not measured accurately, the set climate share cannot be effective



1 An adaptation of the Rio Markers is currently used¹

Classification	Examples		
Significant (100%)	Renewable energy projects, energy efficiency		
	measures, cycling and footpaths, etc.		
Moderate (40%)	Railway investments, air quality measures,		
	multimodal transport, etc.		
Insignificant (0%)	-		

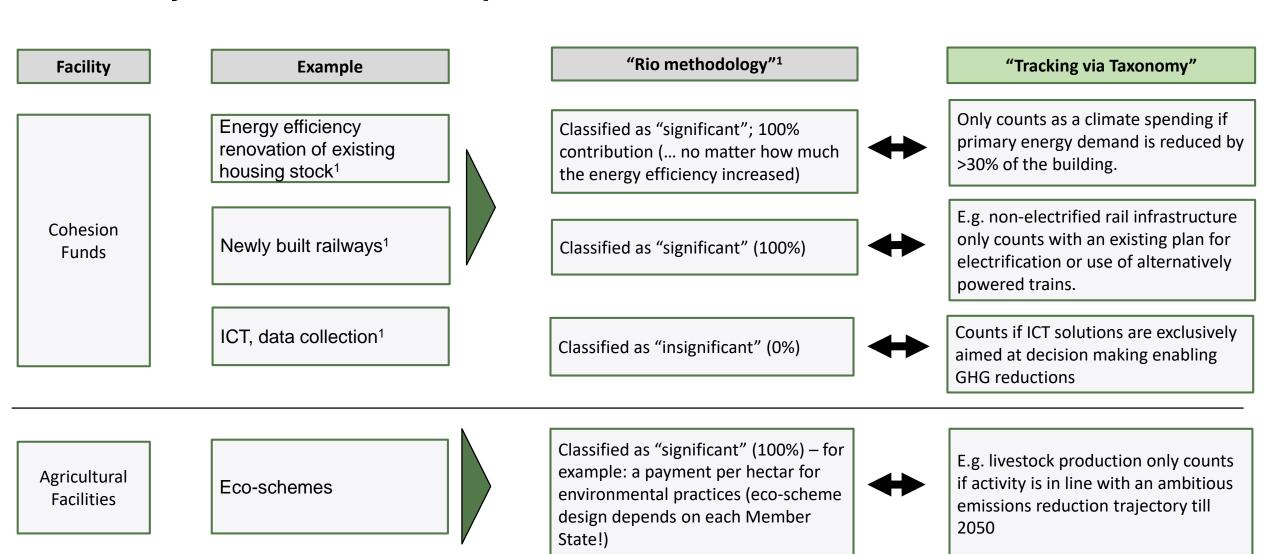
 The "significant" and "moderate" assessment is largely subjective

Agriculture as a negative example¹

Facility	Volume	Climate Share	Clim Sper	ate Iding
	bn EUI	?	%	bn EUR
Europ. Agric. Guarantee Fund				
(EAGF)	258.3	3 40	0%	103
Europ. Agric. Fund Rural				
Development (EAFRD)	90) 4(0%	36

- Given an EU budget of 1.1 trn EUR, and a climate share of 25% (=275 bn EUR)...
- ... agriculture makes up ~ 50% of climate spendings. Even though agriculture plays a minor role!

Taxonomy vs. Rio markers in practice



1) As specified in COM/2018/375 final - 2018/0196 (COD).

Without strong guidance and governance, national implementation can be rather "diverse". Example: Investment chapter of the National Energy and Climate Plans

Relevance

- → NECPs key document to reach climate targets
- → Analysis of final NECPs reveals low quality
- → Inconsitencies between financing chapters of different countries

Course of Action

- Build connections between the European Semester, NECP-relevant ministries, scientific community and financial sector
- Capacity development: know-how to finance the NECPs and raise private capital

Quality degree	Countries Final NECPs	Remarks				
1.	Austria	Differentiating between national / EU / private Investment & green finance for different subsectors				
Comprehen sive analyse	Denmark	Comprehensive strategy including Energy Agreement (0,5 billion EUR), Denmark's Green Future Fund (4 billion EUR) and including financing from Danish private pensions funds to support the green transition (50 billion EUR)				
	Croatia	Sources: ESIF, EFSI, Modernization Fund, Innovation Fund, EU Allowance auctioning. EIB and EBRD mentioned. No analysis of amounts.				
2. Incomplete	Czech Republic	Comprehensive analyse of EU budgets. Multiannual Financial Framework, Selling Allocations. Private sector unclear.				
Approach, e.g. "Brussels	Estonia	Financing under the EU long-term budget framework 2021-2027 (Multiannual Financial Framework)				
pays all" approach	Greece	Especially ERDP (10 billion EUR for Greece) and Cohesion Fund (3,6 billion EUR) under consideration of national co-financing requirements				
	Latvia	EU-Funds, Eu-Allowances Auctioning, National budgets.				
	Slovakia	ERDF, ESF+, Cohesion Fund, etc.				
	Finland	No information provided.				
3.No	Italy	No information provided.				
information provided	Malta	Malta will reduce CO2-emissions in the transport sector with blending biofuels with diesel. Malta provides information on additional costs for car users.				

