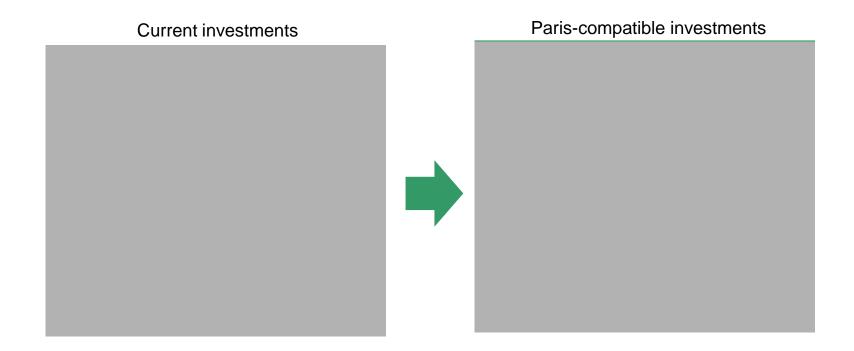


Criteria for Parisaligned investing

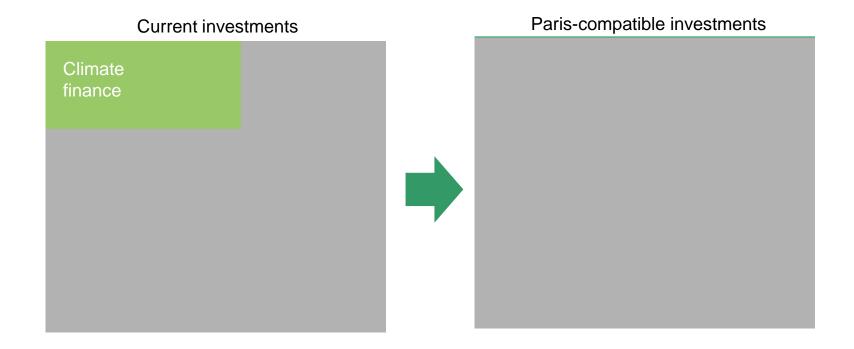
Workshop on climate finance flows and investment needs Hanna Fekete

Berlin, 15 March 2019

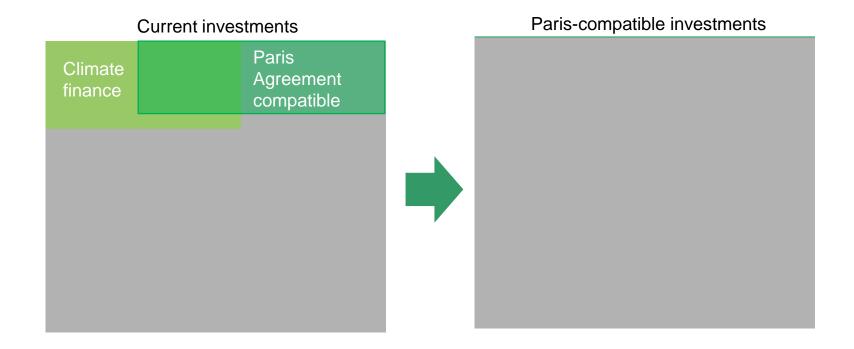




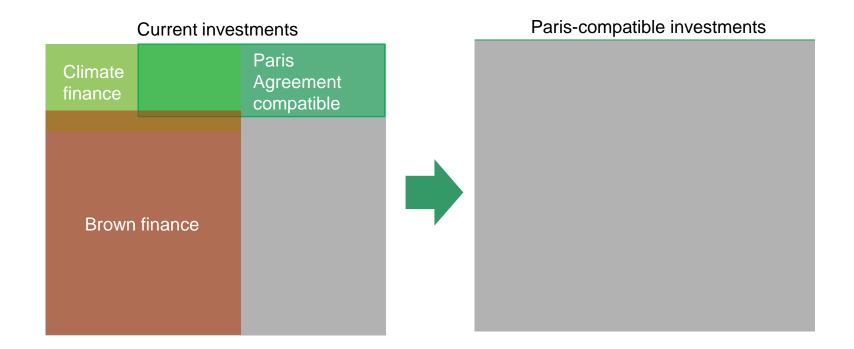




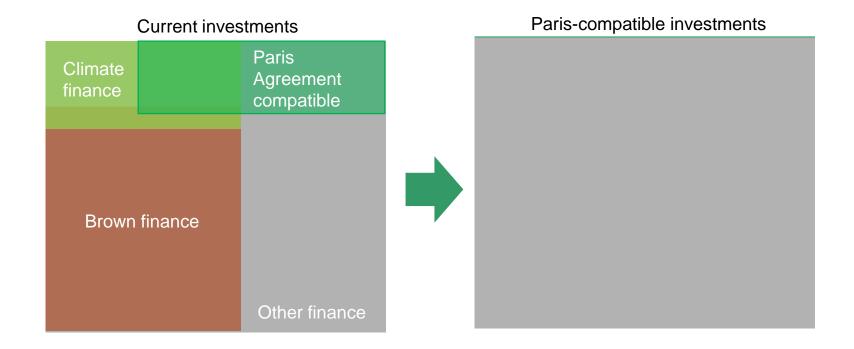




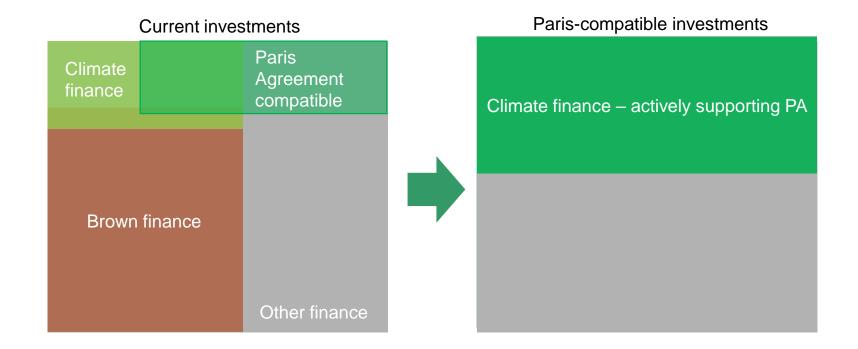




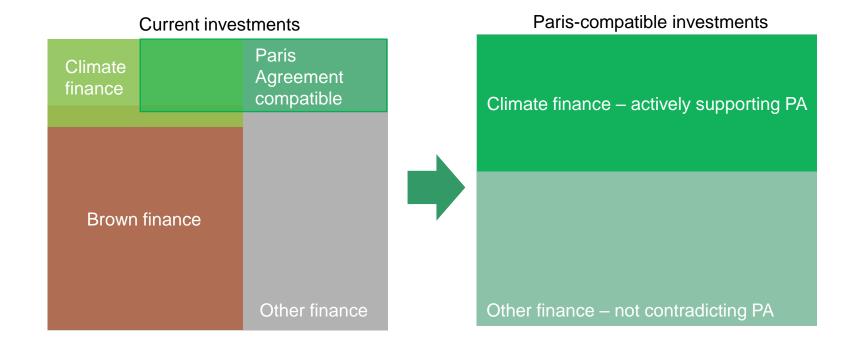






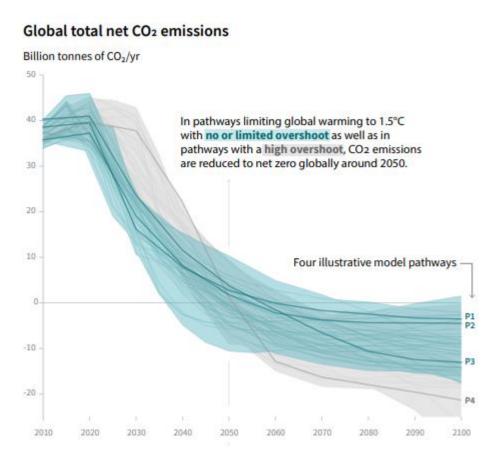






Breaking down the Paris Agreement mitigation goal



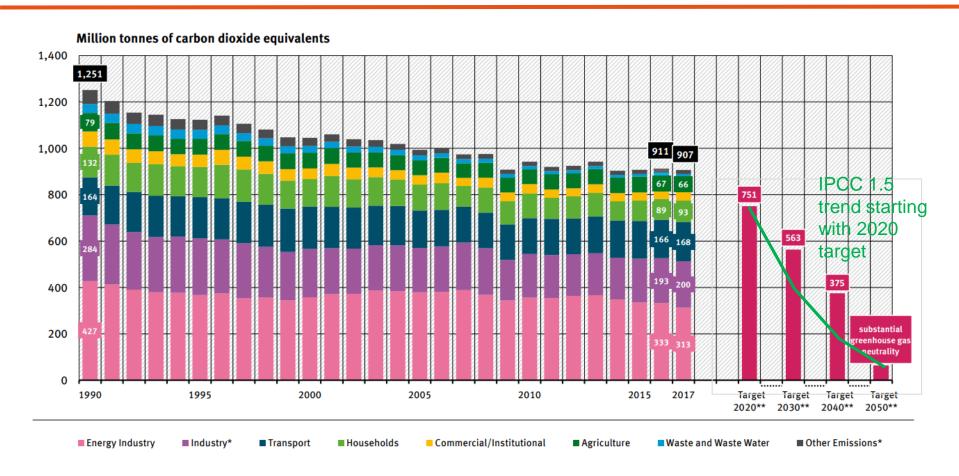


Source: IPCC 2018, Global Warming of 1.5 °C

- → Global GHG emissions need to peak quickly, and become netzero in the second half of the century. CO₂ emissions need to be at net-zero around 2050.
- → There are differences in how quick and how deep decarbonisation can happen depending on the sector and country.
- → Decarbonisation has to happen quicker in energy, especially in the electricity sector.

Historical emissions and future targets of Germany





Sources: German Federal Environment Agency (2019), Höhne et al. (2019)

Categorising investment areas: Example energy infrastructure

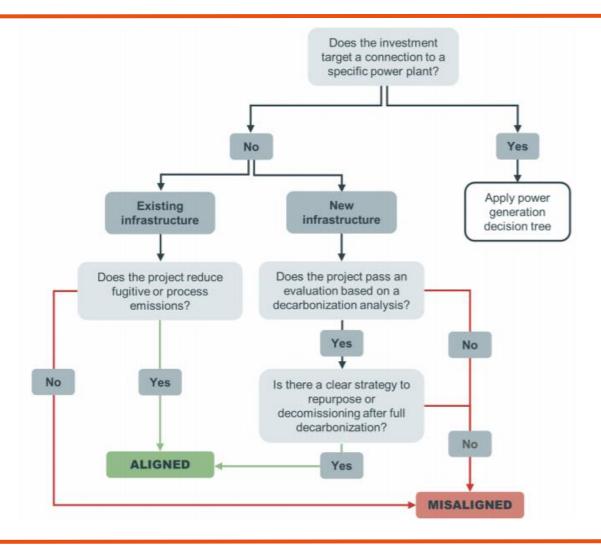


PARIS-ALIGNED	CONDITIONAL	MISALIGNED
Fully aligned with Paris Agreement consistently across all scenarios	Aligned depending on conditions	Consistently Paris misaligned in all scenarios
Solar energy Wind energy Small hydropower Tidal, wave and ocean energy System flexibility options (electricity energy storage, demand response,)	Energy transmission and distribution infrastructure Geothermal ²⁾	Coal fired power plants with unabated emissions over their lifetime Oil power plants Coal mining New upstream oil and gas exploration and production
	Gas (power plants, transport of gas) ¹⁾	
	 Large hydropower²,³ Bioenergy, incl. bio energy carbon capture storage³,⁴ Coal with carbon capture and storage (CCS)¹,³ Nuclear³ 	

Source: Germanwatch and NewClimate 2018, Aligning Investments with the Temperature Goal of the Paris Agreement - Challenges and Opportunities for Multilateral Development Banks

Decision trees: Example gas infrastructure





Conclusions



Integration of Paris-compatibility in investment decisions

» ...has multiple technical solutions:

The exact approach needs to be tailored to the sector, the finance institution and the political context.

... is starting to happen:

Various banks discuss approaches, with steps towards implementation, however not a comprehensive exercise across the finance sector.

...needs to consider the national context of investments:

Assessment of Paris-compatibility must consider and be integrated in long-term development planning.

Questions for discussion



- » How can Paris alignment be reflected in tracking and investment needs assessments?
- » How can Paris alignment be integrated in modelling and decision making at national and sectoral level?
- » How to mainstream Paris alignment to all kinds of investors?
- How to not only shift financial flows, but actively make a change in capital stock (especially how to retire lots of existing capital stock early and likely long before the potential maximum working lifetime of those assets)?



Thank you for your attention!

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Tools for including considerations on PAcompatibility in investing decisions



BANK STRATEGY LEVEL	COUNTRY STRATEGY LEVEL SECTOR STRATEGY LEVEL	PROJECT LEVEL
GHG accounting + Portfolio emission target	Supporting and enhancing NDCs and LTS	O Negative list Positive list
S Climate finance target	Country emission pathways	GHG accounting + Emission Benchmarks
Setting standards for financial institutions world wide through financial intermediary lending	GHG accounting + Sector emission targets	GHG accounting + Shadow carbon pricing
Supporting the enabling environment through policy based lending		Decision trees combining several tools (including country & sector decarbonization pathways)

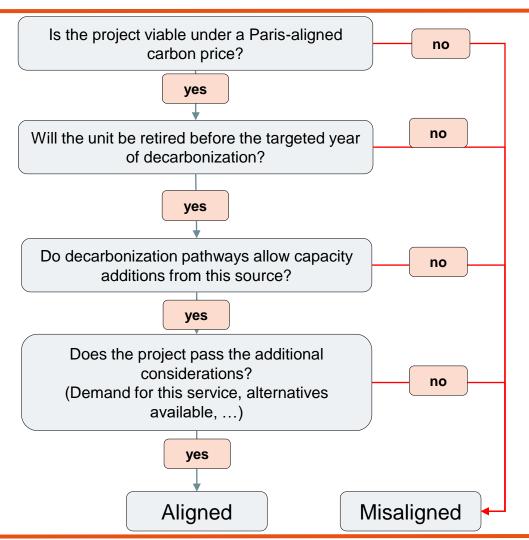
Source: Germanwatch and NewClimate 2018, Aligning Investments with the Temperature Goal of the Paris Agreement - Challenges and Opportunities for Multilateral Development Banks

Decision tree – power plants



Main requirements from Parisaligned pathways:

- » Phase out coal and oil
- » Ramp up zero-carbon solutions fast
- Use gas only in limited occasions, keeping time horizon in mind



Decision tree – Grid improvements



» For grid extensions or renovations not linking one specific power plant

- Main requirements from Paris-aligned pathways:
 - Electrification
 - High share of variable renewables

