

Trends and evolution of the Costs of Capital in RE Financing

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Agenda

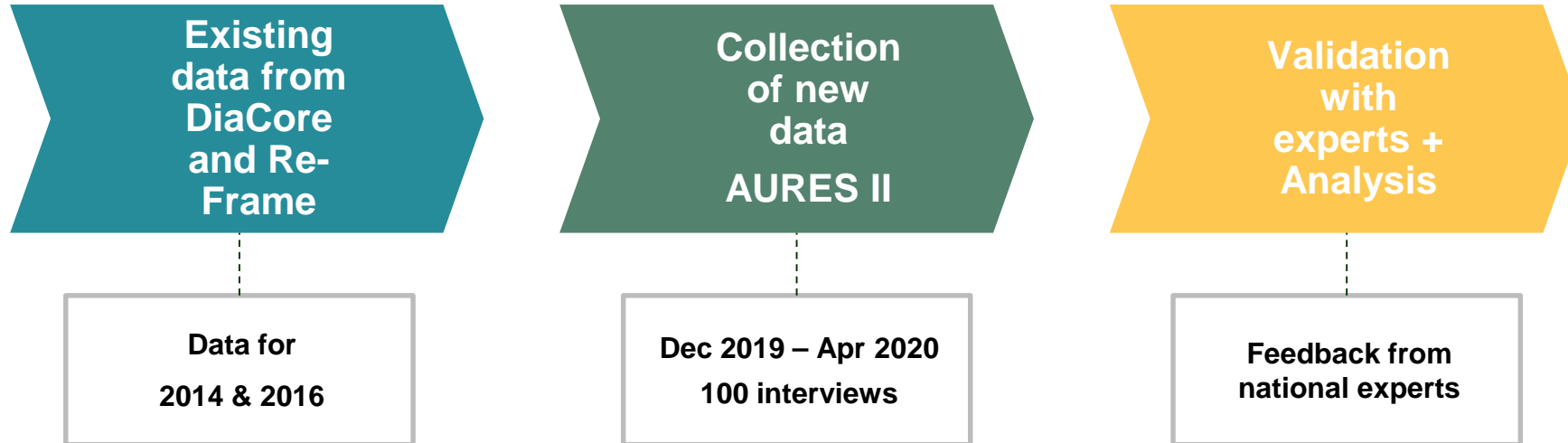


- 1. Weighted Average Cost of Capital**
- 2. Main results: 2019 & over time development**
- 3. Conclusions**

Main highlights

- **Strong decrease of the Costs of Capital (WACC), Cost of Debt, and Cost of Equity**
- **Main drivers of change:**
 - **country risks & new business cases**
 - **monetary policy (interest rates)**
 - **Spill-over effects**
- **Lower Costs of Capital are a positive sign for a further RE development and to reach energy and climate goals**

Introduction

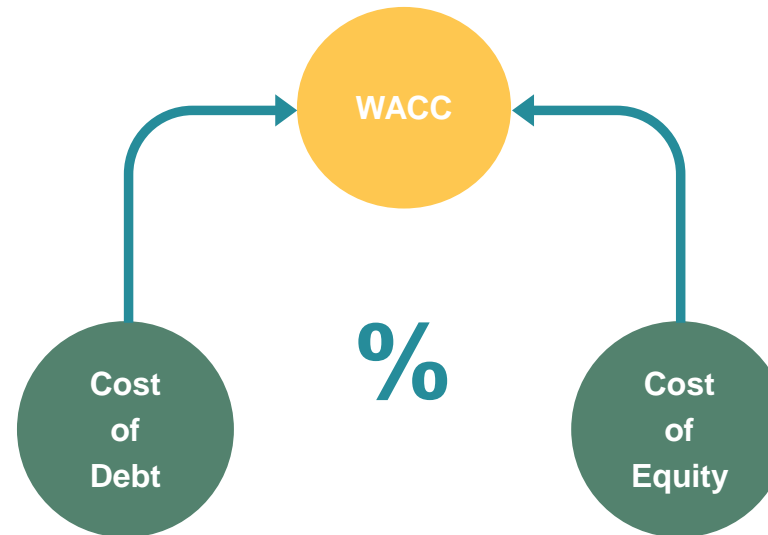


Some caveats:

- Constant **changes** of RES market conditions
- Different level of **transparency** of market actors
- **Lack of current, significant projects** in some EU markets, made sometimes model estimations necessary

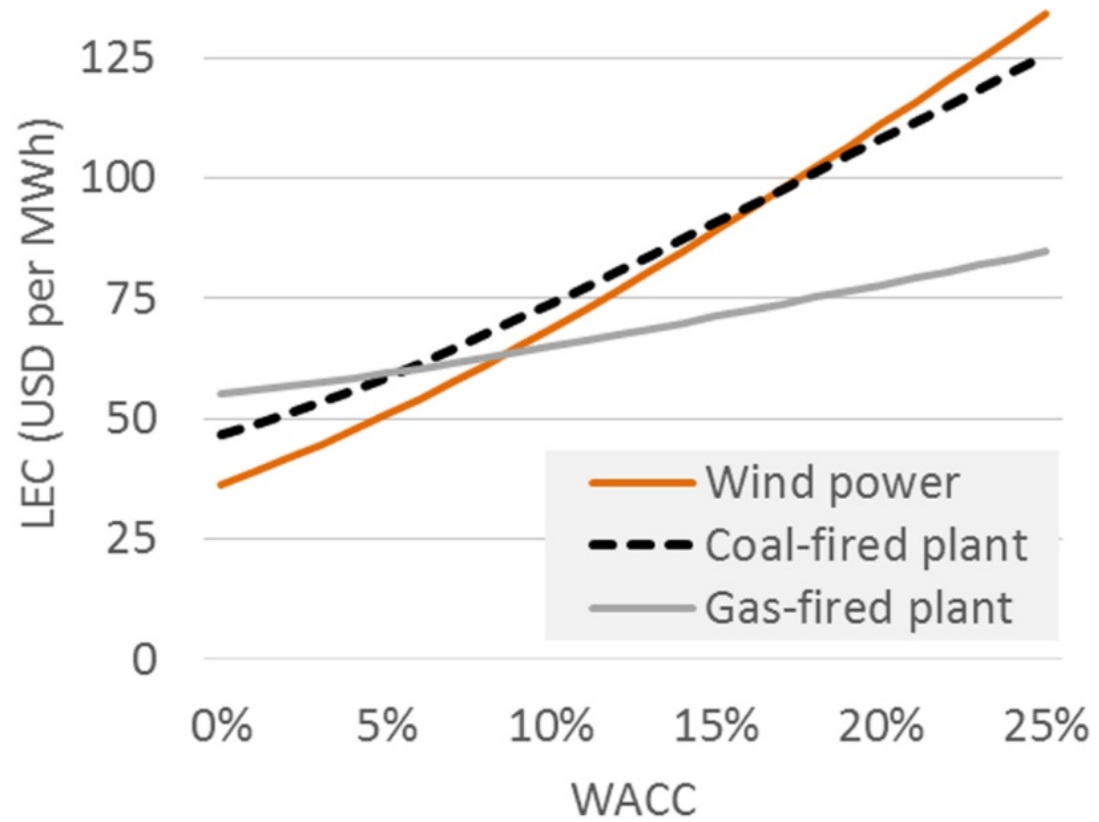
Introduction

What is “Weighted Average Cost of Capital”?



Introduction

Why should we care about it?



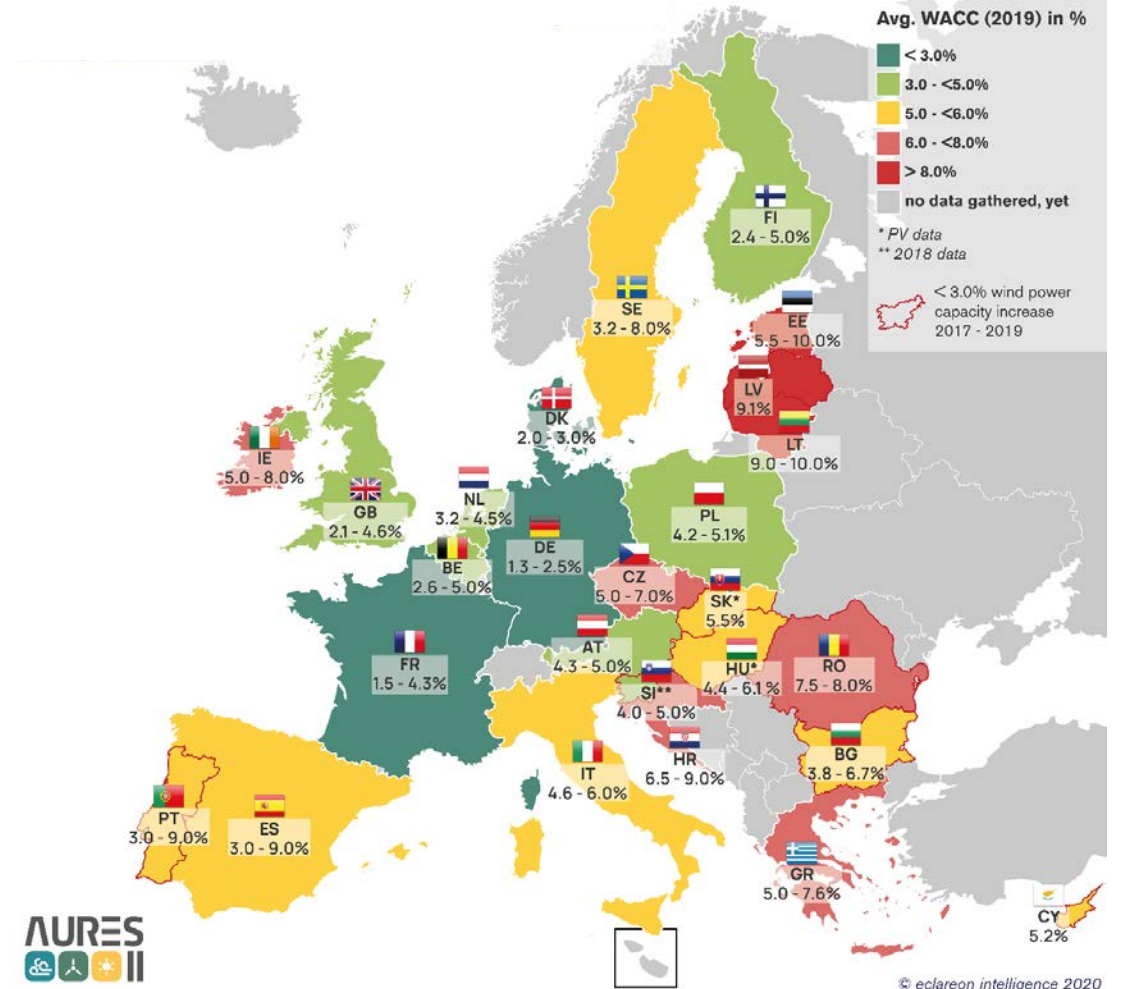
Costs of producing electricity are affected by WACC

Wind power is the cheapest and most cost-effective power source for a low WACC

Source: Hirth & Steckel (2016)

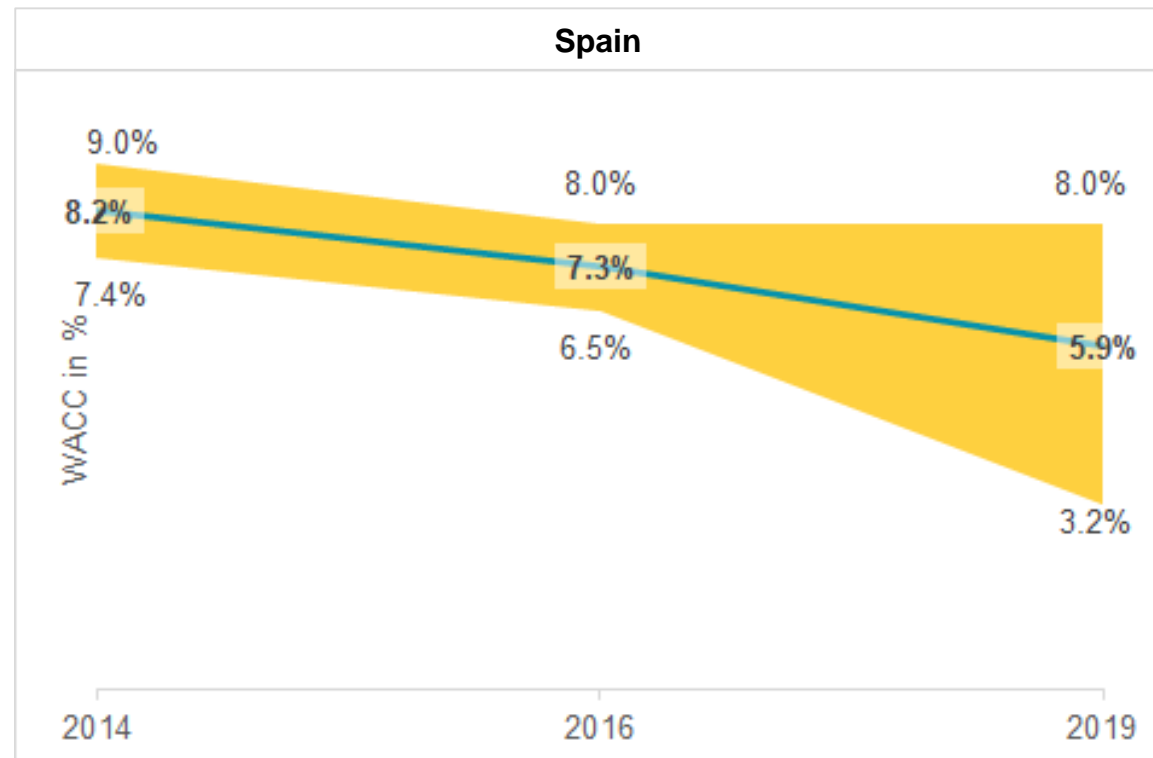
WACC 2019 – Wind Onshore

Results show there is still a gap between Member States



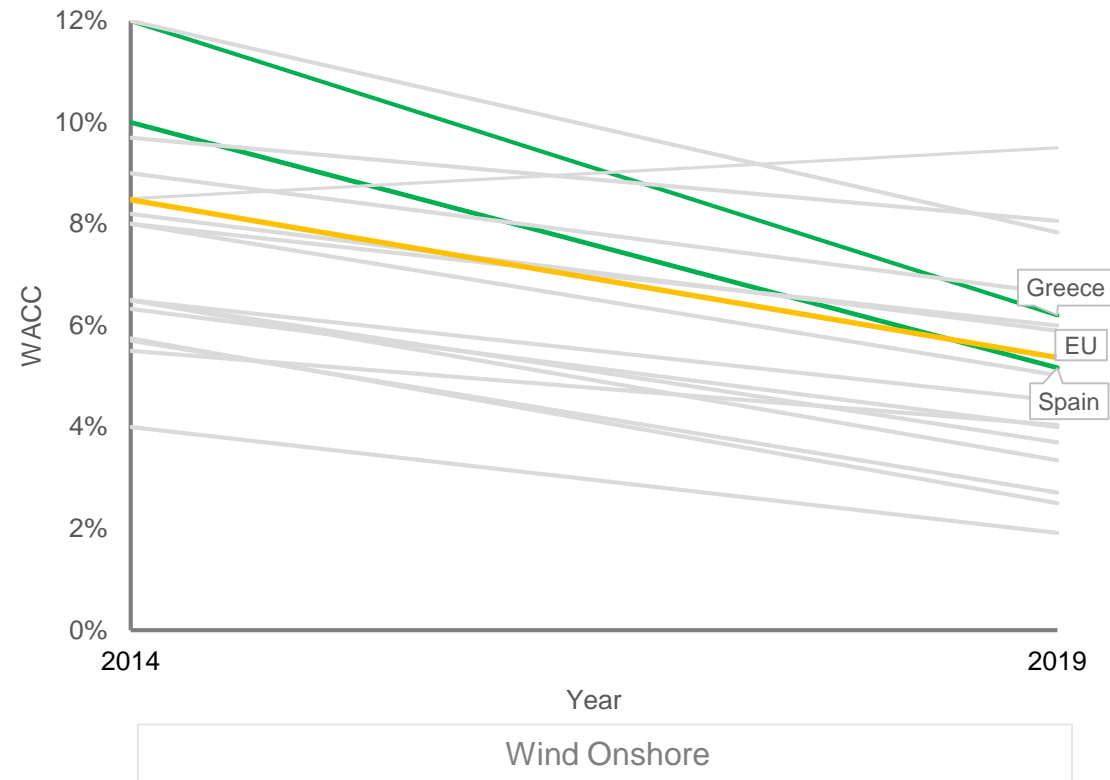
Closer look: WACC Spread

Different business models and market players could be drivers behind the spread



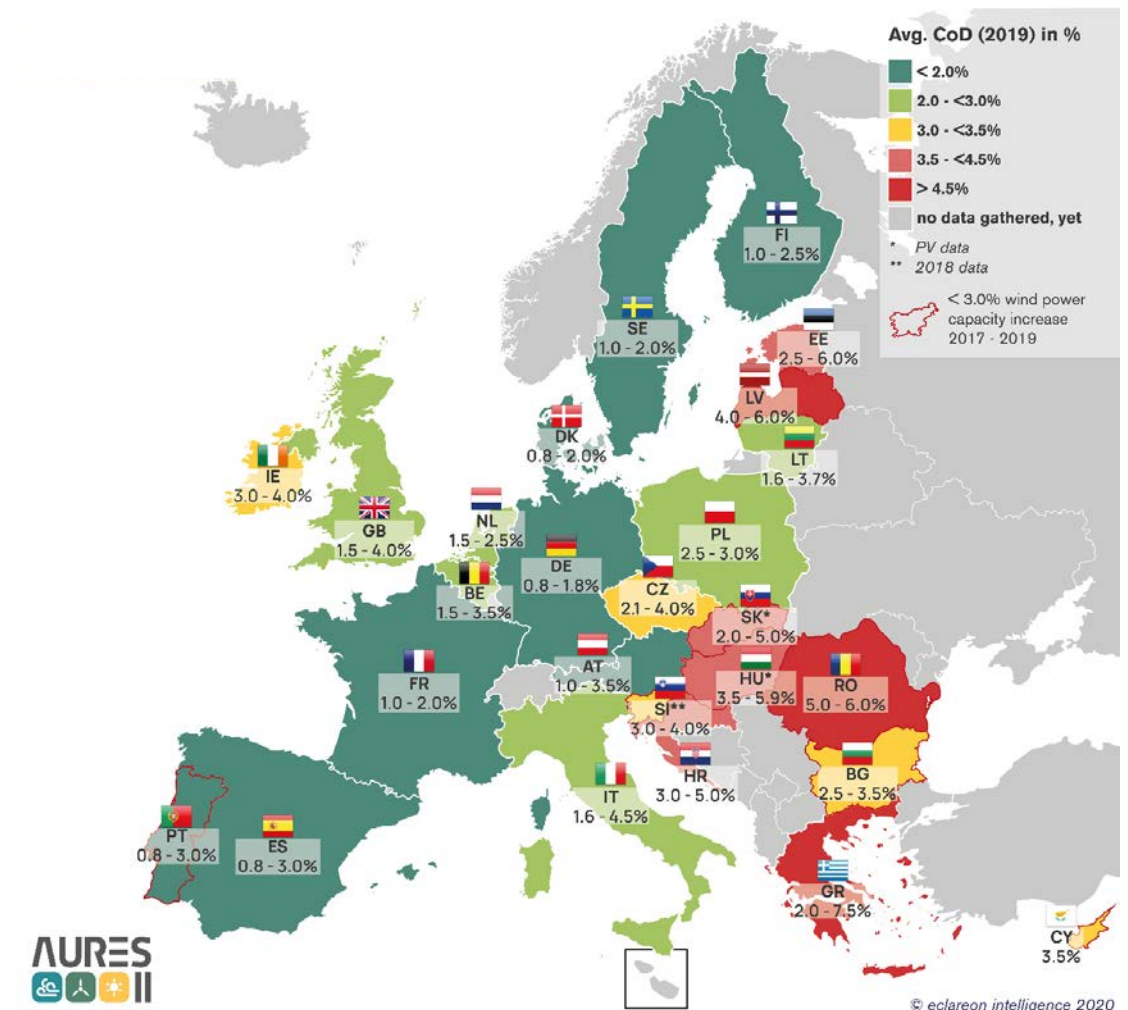
WACC Development 2014-2019

Dramatic WACC decrease in most countries and the gap is narrowing



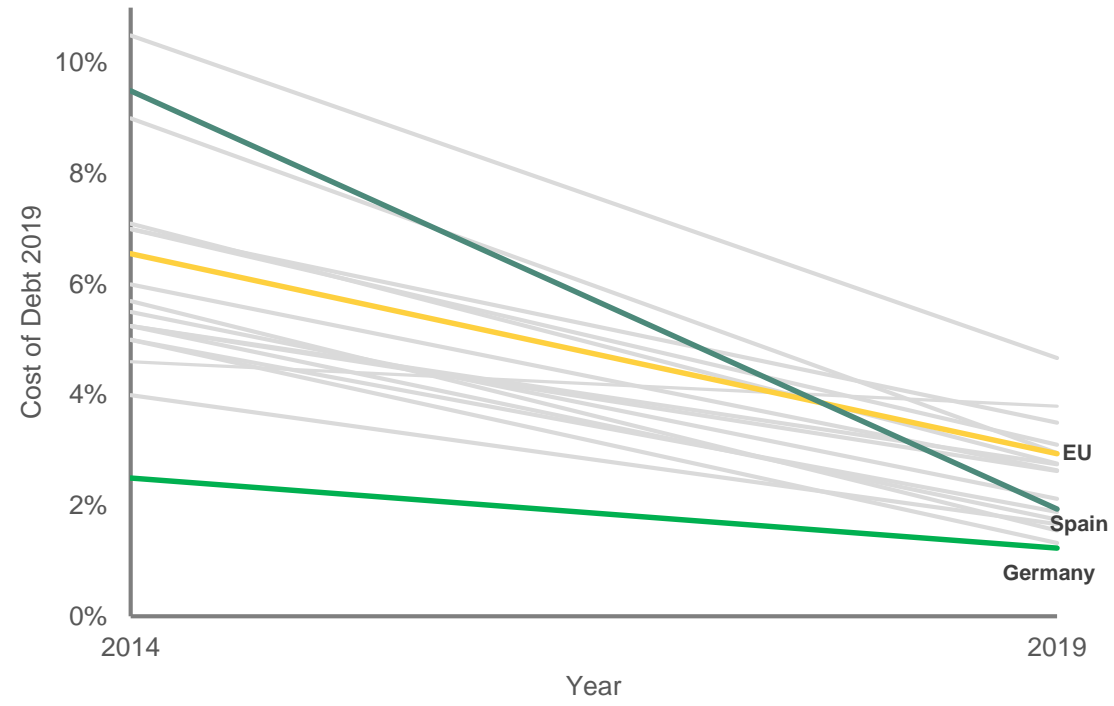
Cost of Debt 2019

Many countries with an average CoD lower than 2%



CoD Development 2014-2019

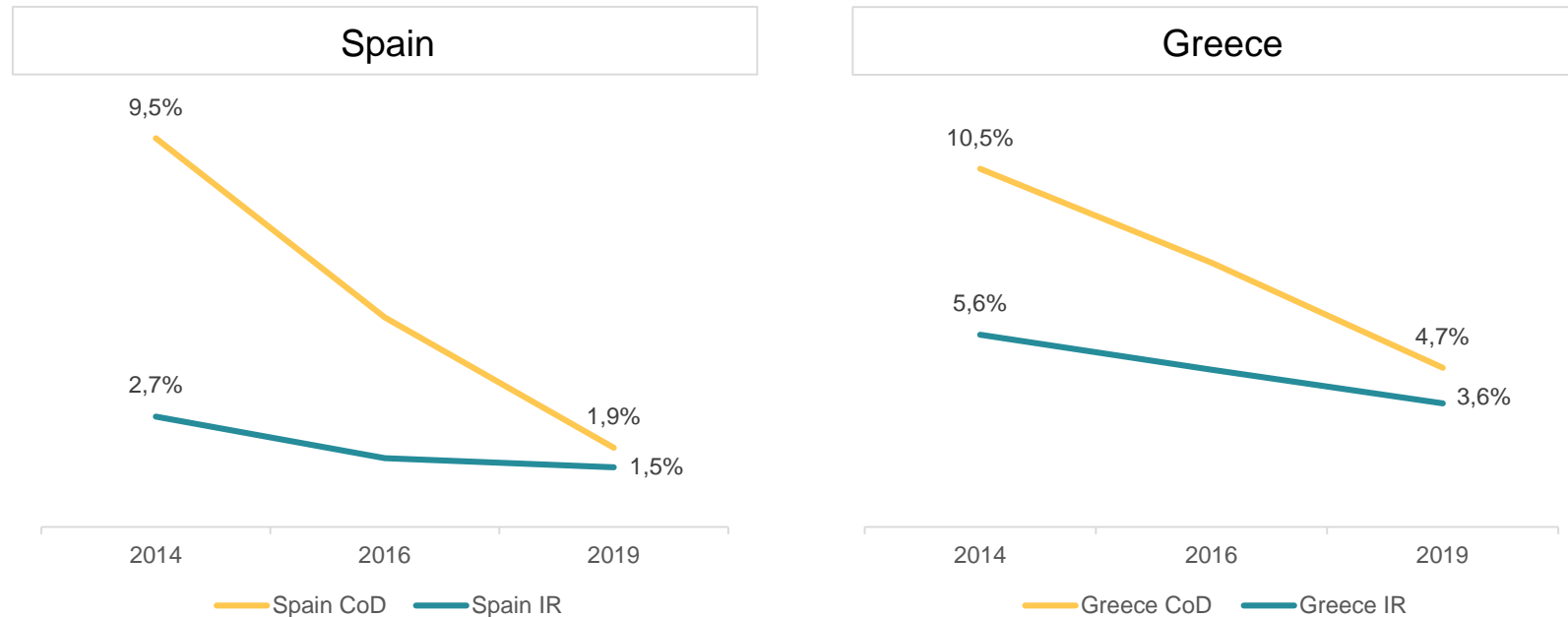
Strong decrease of the Cost of Debt in all the EU



Wind Onshore

CoD Development 2014-2019

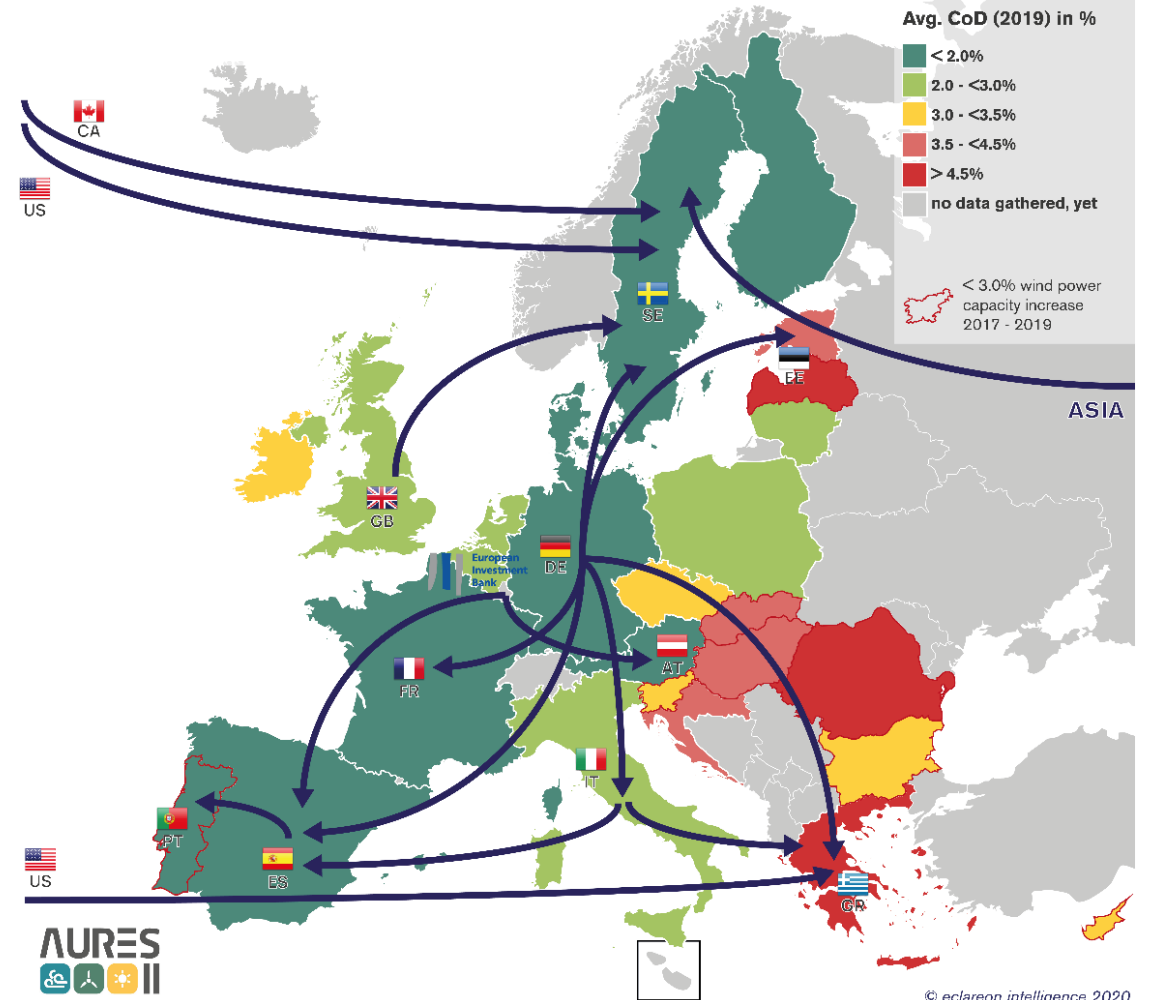
Correlation between CoD and Interest Rates in the Eurozone €



Wind Onshore

CoD Development 2014-2019

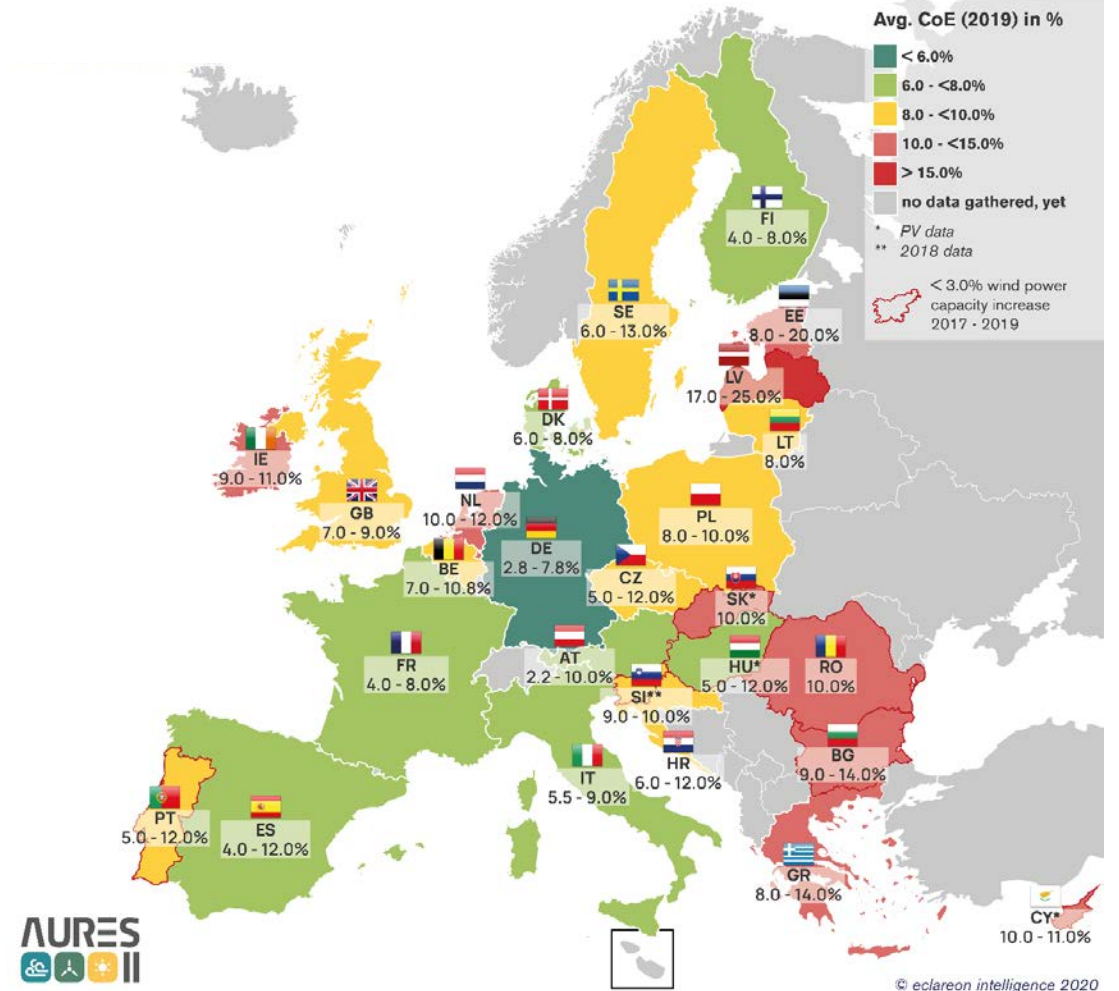
International flow
of capital



Cost of Equity 2019

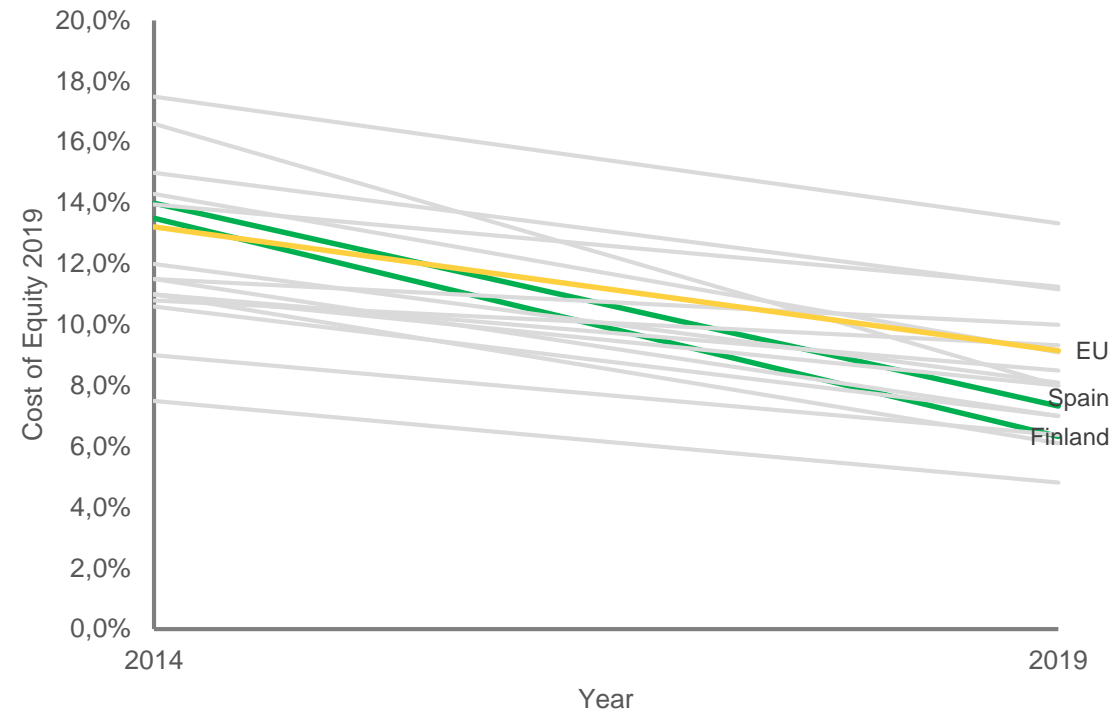
65% of countries with a CoE lower than 10%

Riskier countries = higher CoE



CoE Development 2014-2019

New market players interested in *greening* their portfolios



Wind Onshore

Debt to Equity ratio 2019

Wide gap between countries

Riskier countries = reduced debt leverage capacity



Conclusions

- Dramatic decrease of the WACC, CoD, and CoE**
- CoD: huge role of interest rates and international capital spill-overs**
CoE: emergence of new investors with different interests and business models
- Lower Costs of Capital are a positive sign for a further RE development and to reach energy and climate goals**

Thank you!

Disclaimer

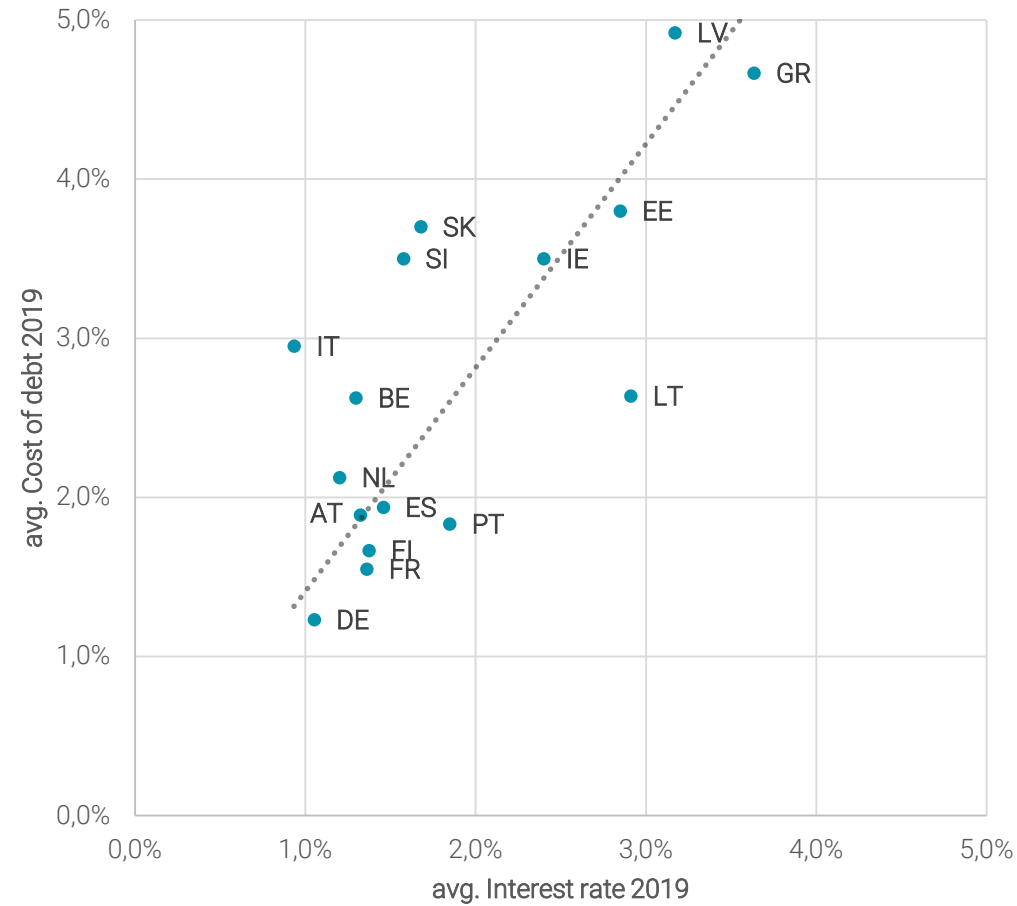
Content

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Correlation between Interest Rates and Cost of Debt



Methodology

Existing data

- Estimations of **costs of capital of wind onshore-investments** from DIA Core Project
- Comprehensive interview series with financial experts
- Evaluation of development of parameters

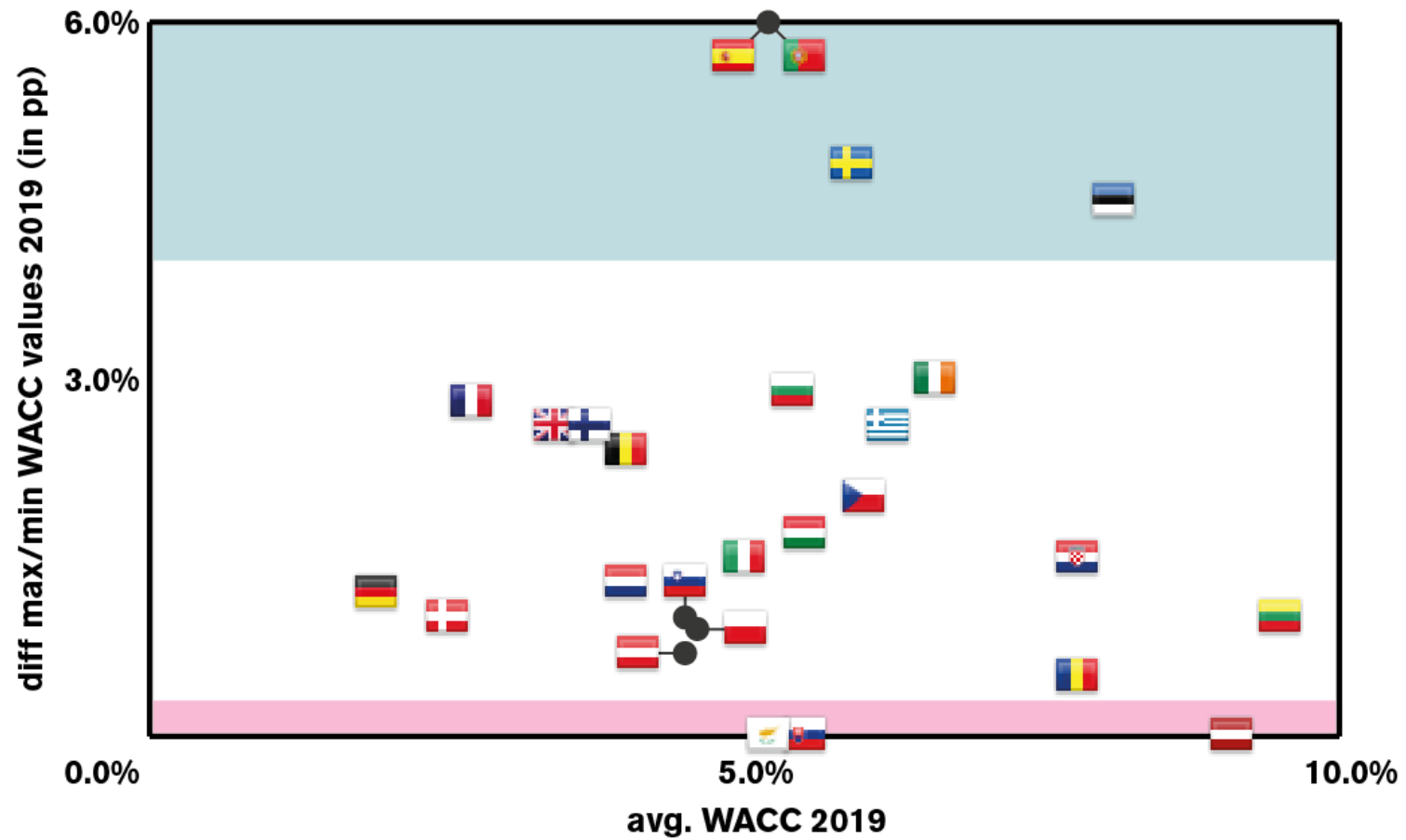
Analysis

- Comparison with **interest rates for loans from other sectors in EURO zone**
- Description of trends

Results

- Aggregation and visualization of meta data
- Presentation of results and **feedback from national experts**
- Preparation of deliverables: project presentation & database

WACC Spread 2019





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