

Marcela Scarpellini  
right. based on science

# Science-based targets: bridging policy, science and technology towards a 2 °C- world

## Blockchain ClimateCup

Toronto, 23rd June 2017

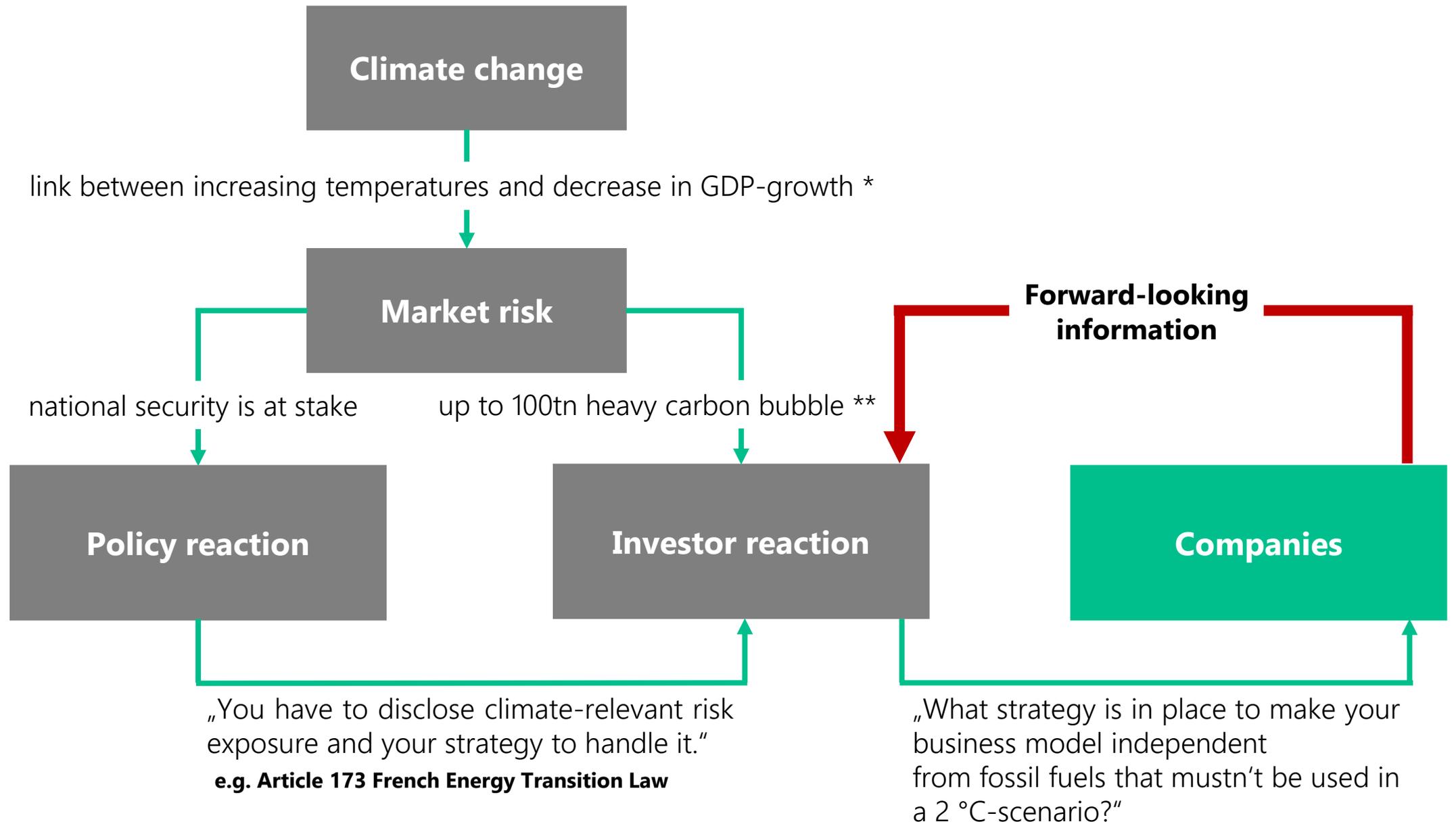
A black and white photograph of a large flock of sheep. In the center of the flock, one sheep is black, while all the other sheep are white. The sheep are packed closely together, and the background is slightly blurred.

**Donald Trump**  
saying **NO**, climate is not a material risk

**Asset Managers with 48% of global AUM**  
saying **YES**, climate is a material risk \*

**Who is the black sheep?**

\*<https://www.bloomberg.com/gadfly/articles/2017-06-01/funds-fire-up-real-climate-change>



\* Dell and Jones (2009). Temperature Shocks and Economic Growth.

\*\*<http://www.thedailybeast.com/trumps-climate-change-denial-could-cost-us-dollar100-trillion>



there is a way

**Science-based emissions targets (SBT)** establish corporate emissions strategies as an **appropriate contribution** to global efforts in order to prevent global temperatures from rising above **2 °C** compared with preindustrial levels, thus keeping global warming within the limits defined by the **IPCC** as “**safe**”.

(right. based on science 2016)

**1**

**Risk and  
opportunity  
analysis**

**2**

**Scenario analysis**

**3**

**Risk modelling**

**4**

**New Metrics**

# Theory

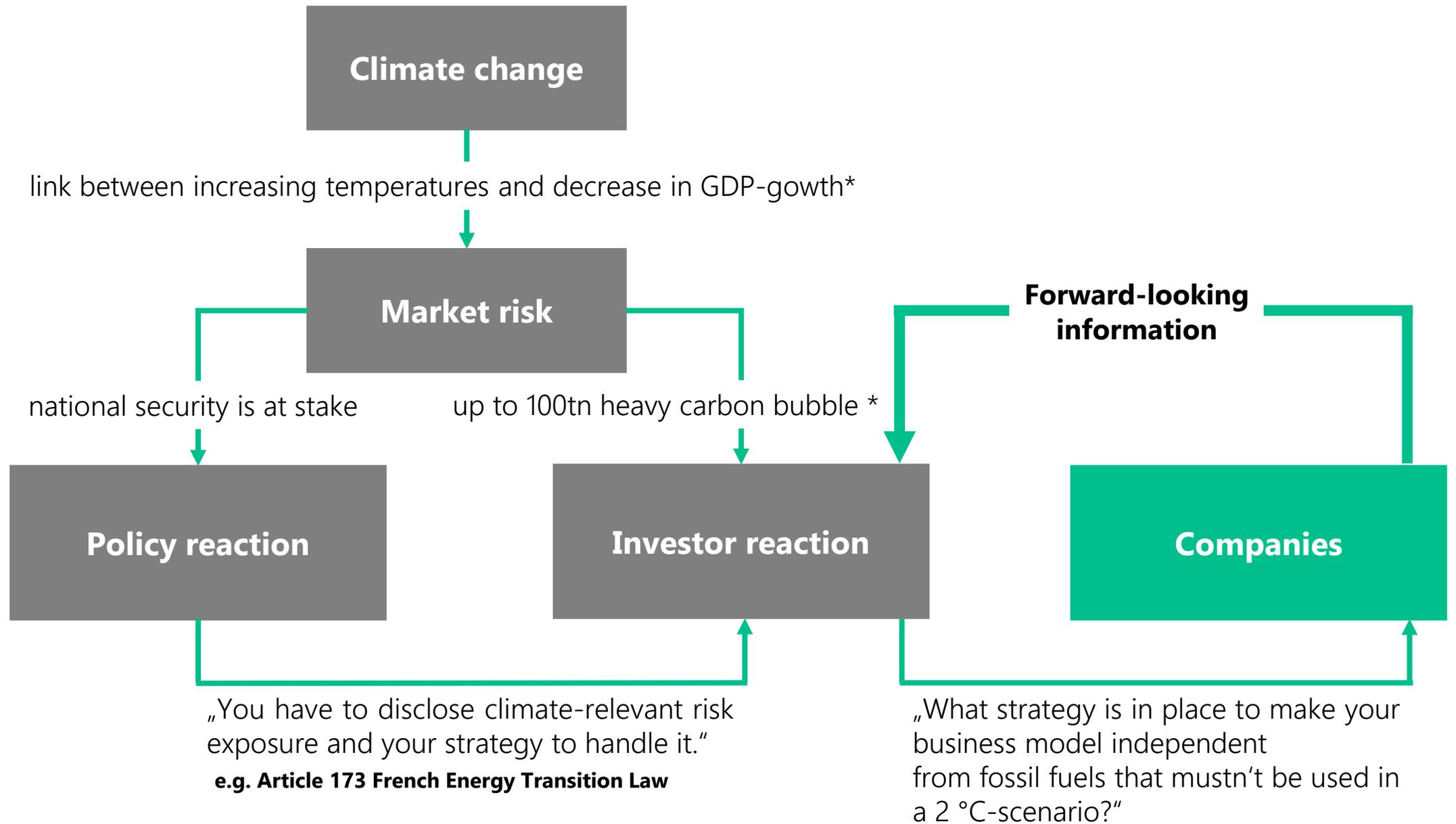
science- and context-based metrics, as e.g.:

- Revenue share from 2 °C-compatible products
- Required share of CaPex to be 2 °C-compatible
- Required emission intensity of physical assets to certify their 2 °C-compatibility
- Costs of reaching 2 °C-compatibility status

# Reality

Major barriers for generating such information:

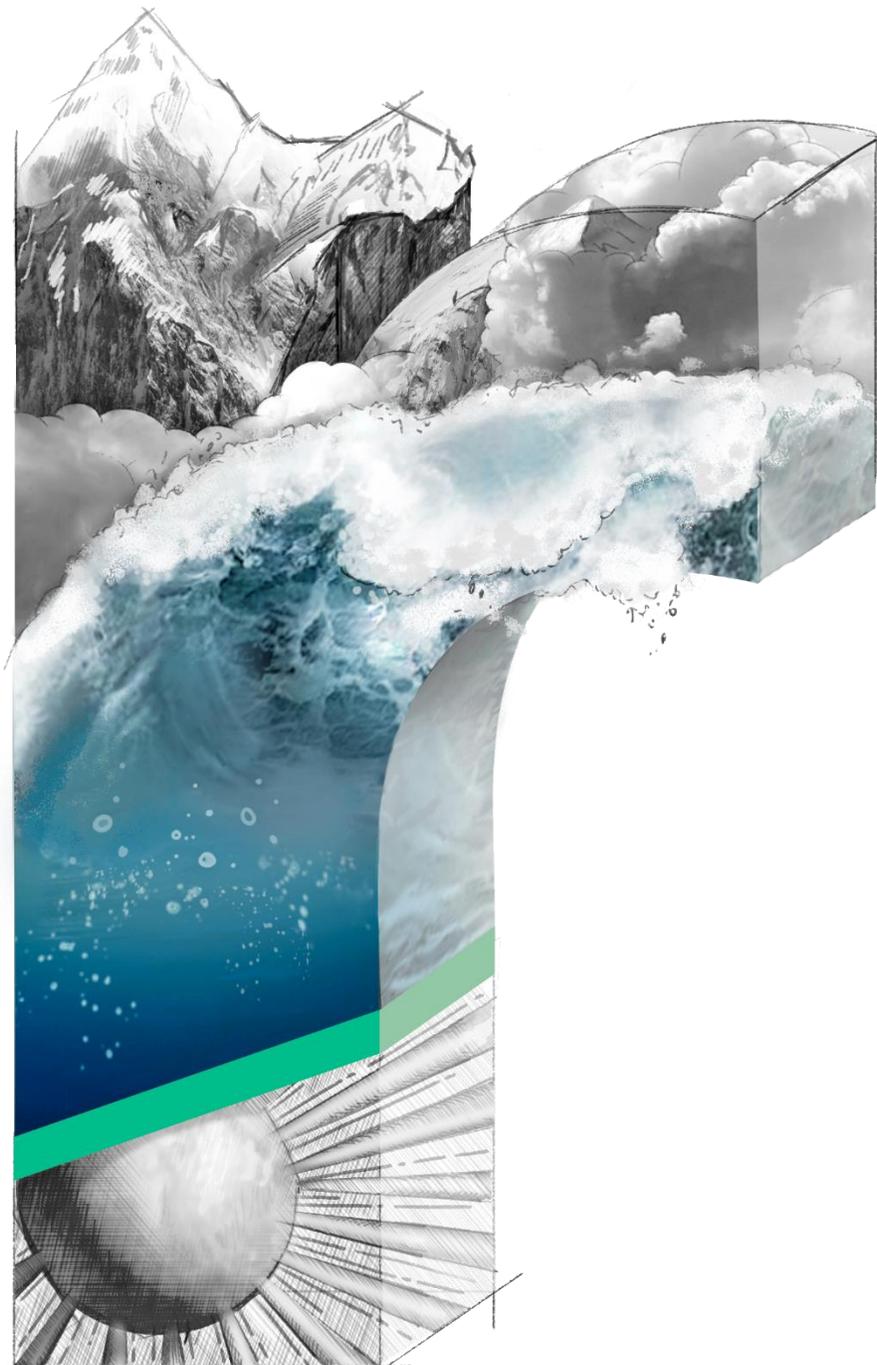
- **Asset level data** is not consistent, costly to acquire and not accessible
- The Collection of **Emissions data** is extremely cumbersome, specifically in regards to supply chain data
- The current **Climate data** format is not user friendly format
- Current structure and organization of **ERP data** is inapplicable to climate-related risk management



\*<http://www.thedailybeast.com/trumps-climate-change-denial-could-cost-us-dollar100-trillion>

How can **blockchain** assist in  
**reducing barriers** at company level  
to **access the data** required by  
policy makers and investors for  
generating  
**climate related forward-looking**  
**indicators?**





# Thank You!

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