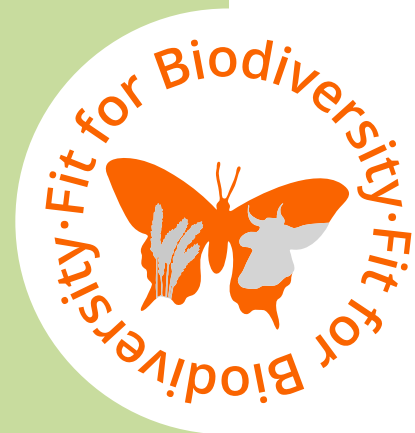


From Nature Risks to Financial Risks





**55% of global GDP
is moderately or
highly dependent
on nature**

Project partners

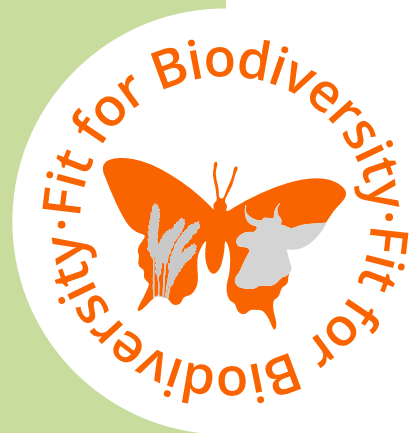


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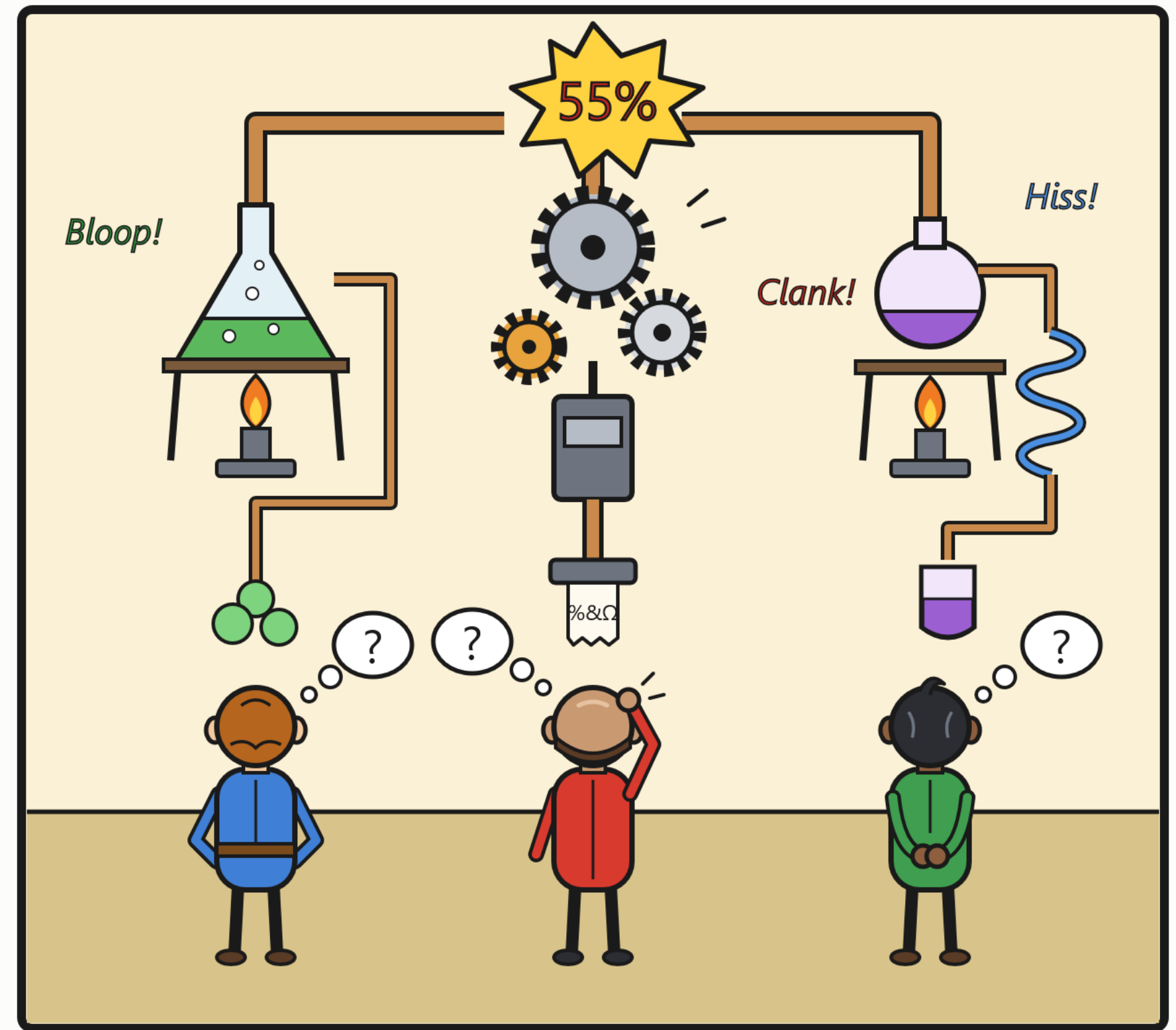


Premium partners





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on nature**



Burgeoning Interest

Biodiversity Risks in the Upstream Supply Chain: Evidence from the Food and Textile/Fashion Industries



Published March 2027
(only german)

Session Agenda

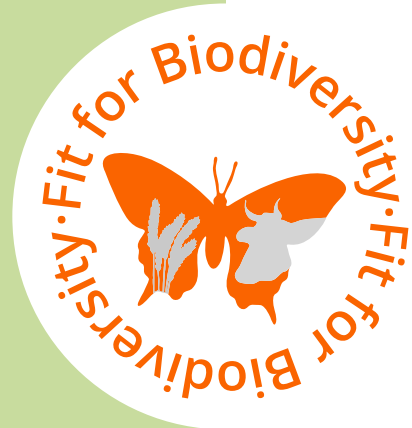
- *Welcome & Introduction*
- ***Practical approaches for nature risk assessments and raw material prioritisation***
- ***From Data to Decision: A Practical Use Case for Nature and Climate Value at Risk***
- ***From Plot to P&L - Pricing Climate Risk in the Cocoa Supply Chain***
- *Round tables discussions*
- *Wrap up*

William Bennett -
Lidl Stiftung und Co. KG

Christian Dietrich
– **Kuyua**

Lukas Ketzer –
Osapiens

All participants



The Landbanking Group and its solution, Landler

Cocoa example: Modelling risk and resilience for a corporate buyer

Main question: Should we invest – and if so, direct or via credits, and under which contract terms?

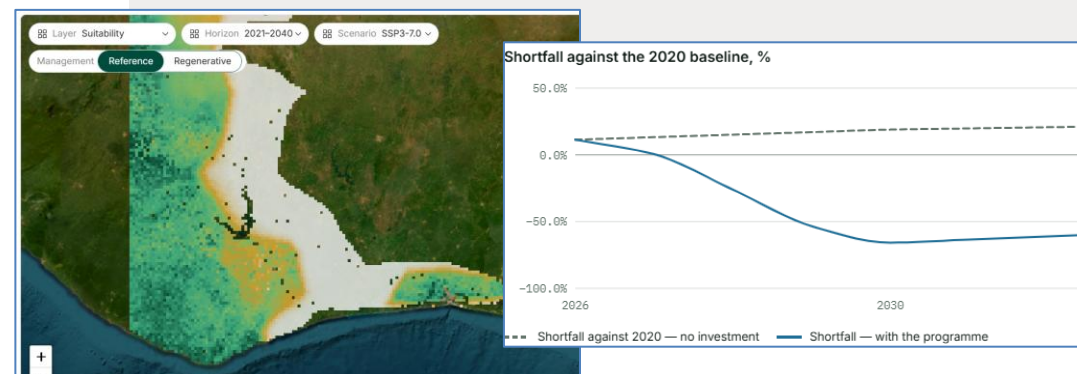
Data infrastructure

Data inputs:

- Specific client context: location, activity, farming practices
- Satellite data: carbon, water, biodiversity, soil & climate scenarios regarding temperature and rainfall
- WorldClim, SoilGrids 250 m, SRTM for CropSuite¹ Model computing climate, soil and crop suitability

Modelling:

- CropSuite Modelling change in suitability
- Determine effect of nature-based interventions on Soil Organic Carbon, Temperature, water etc.



Financial translation

Data inputs

- Regional Cocoa prices and predictions
- Regional yields from Spatial Production Allocation Model (SPAM)
- A ton of cocoa worth in chocolate
- Investment costs

Modelling

- CropSuite Modelling suitability shortfall translated in crop at risk
- Determine costs above normal price
- Model impact on sourcing costs
- Effect of credit on balance sheet, provided it has asset character - being controllable, identifiable and with future value



Financial outputs

Output: Physical risk and resilience value e.g.

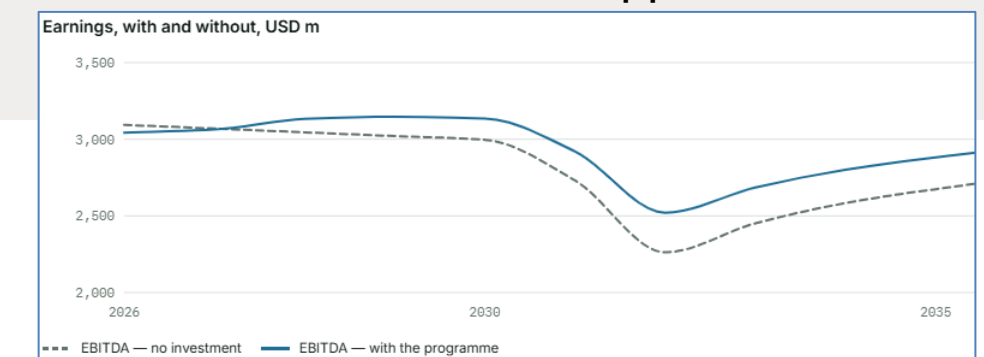
- impact on revenue
- Impact on profit
- Comparing funding it directly vs. buying credits

Analysis showed:

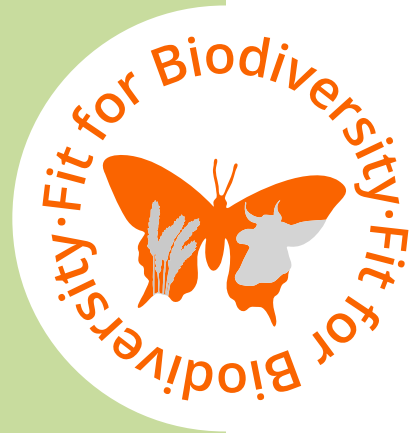
- benefits of sourcing from resilient sites
- Benefits of buying credits instead of funding yourself

Business decision derived from the analysis

- company now looking into long-term contracts with resilient suppliers



1: Crop suitability measures how well the climatic and biophysical features of an area can support a crop production cycle to meet current or projected targets.



Barney Bennett
Junior Consultant
Biodiversity & Water
LIDL



Christian Dietrich
Founder
Kuyua



Lukas Ketzer
Co-Founder
Osapiens Terra GmbH

Guiding questions round table discussion

1. Has your company already experienced financial losses as a result of nature-related events? If so, what kind of losses, and how did your organisation respond?
2. Are nature-related risks part of your company's risk management framework? If so, how did you reach this point? If not, what is preventing you from integrating them?
3. What would you need in order to quantify your nature-related financial risks in monetary terms (euros or dollars) in the future? What challenges have you encountered in this area so far, and do you have any ideas on how these could be overcome?

