ESG, a sustainable investment for a young actuaries



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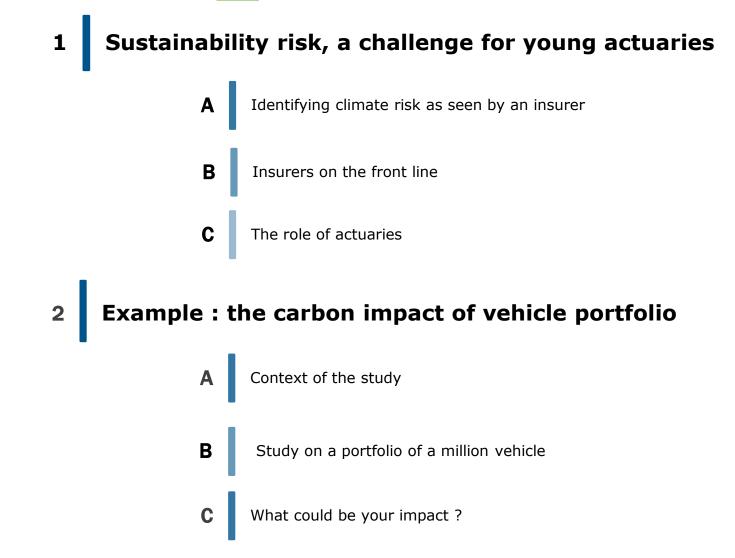








SUMMARY







1.A – Identifying climate risk as seen by an insurer

Sustainability : The process of living within **the limits** of available physical, natural and social ressources to enable living systems, including humans, to thrive **indefinitely**.



• Directly impacts the insurer's business by altering its economic model and commitments

(drought, fires, floods...)

- The financial consequences arising from the transition of the economic model, general politicies and new technologies
- Risk of legal action or reputatio loss resulting from the public, investors or counterparties associating the insurance company with negative environmental impacts

Climate risk is not necessarily a risk which allows for consequences to be observed on a short-term basis, however the insurance sector is and will continue to be heavily impacted.





1.B – Insurers on the front line

Insurers are under increasing regulatory and competitive pressure. They need to manage their sustainability risk and maintain financial stability.

Impact on the insurance sector

- Regulatory changes (UE Taxonomy, SFDR, CSDR) : need for training,
- Increase in frequency and intensity of climaterelated claims: financial stability at risk,
- Introduction of an ESG dimension in investments choics
- New diseases or natural disasters may emerge, leading to an increase in mortability or disability,
- Reinsurance treaties become more demanding
- Rising demands from insured for transparency and acountability from investments,
- Impact on Life, Non-Life, Reinsurance, Health...

Max (Risk, Performance)

Integration of a new parameter

Max (Risk, Performance, ESG profile)

Sustainability risk can no longer be ignored

As **actuaries**, we are trained to assess and manage risk, which now includes sustainability risk.





1.C – The role of actuaries

The role and scope of actuaries have expanded over time. The work of actuaries is affected in many ways.



The role of actuaries

- Assessing the impact of climate on premiums, claims and reserves,
- Developping new products,
- Assessing the impact on the asset portfolio,
- Assessing the impact on solvency requirements, ALM and capital management,
- Participating in the development of climate and sustainability reports, implementing new regulations,
- Ongoing training, professionnal requirements.



A challenge for young actuaries

- Sustainability must be a driver of **innovation** and an opportunity for the profession to evolve,
- An issue that mobilises young people :
 - A study commissioned by WWF and « Pour un réveil écologique » shows that **75% of finance students** want more courses on the ecological transition,
 - **Re.boot** : students create a sustainable finance course to fill the gaps in schools.
- Getting involved in new projects in an area not yet fully mastered,
- Lead to concreate actions,
- The opportunity to collaborate with supervisors and international organizations.

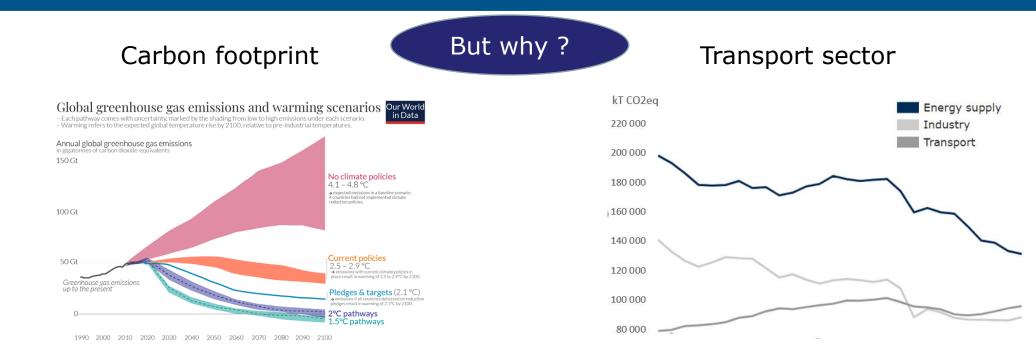




2 - Example : the impact of vehicle portfolio A - Context of the study



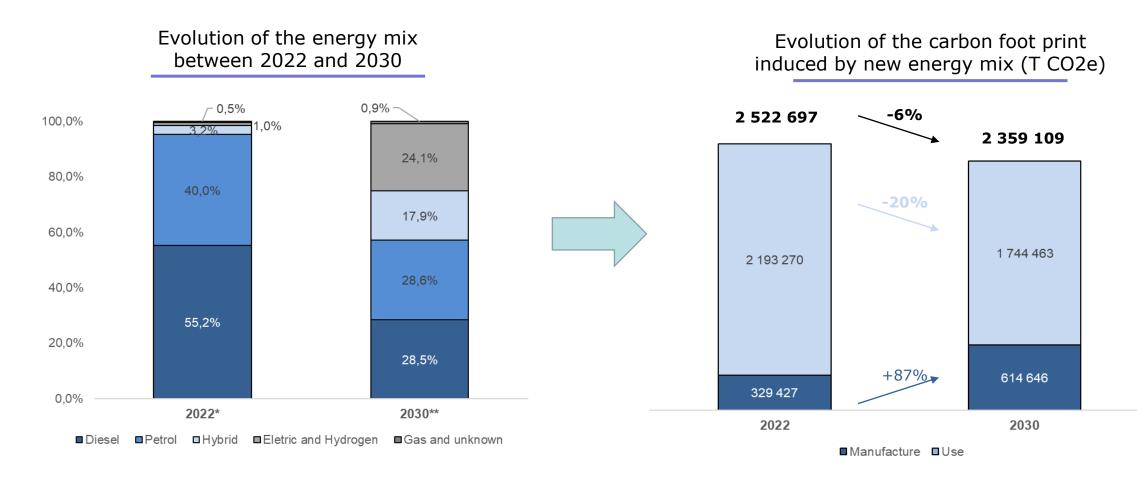
Our choice : The impact of an insurer in the carbon footprint of a vehicle portfolio







2 - Example : the impact of vehicle portfolio B - Study on a portfolio of a million vehicle

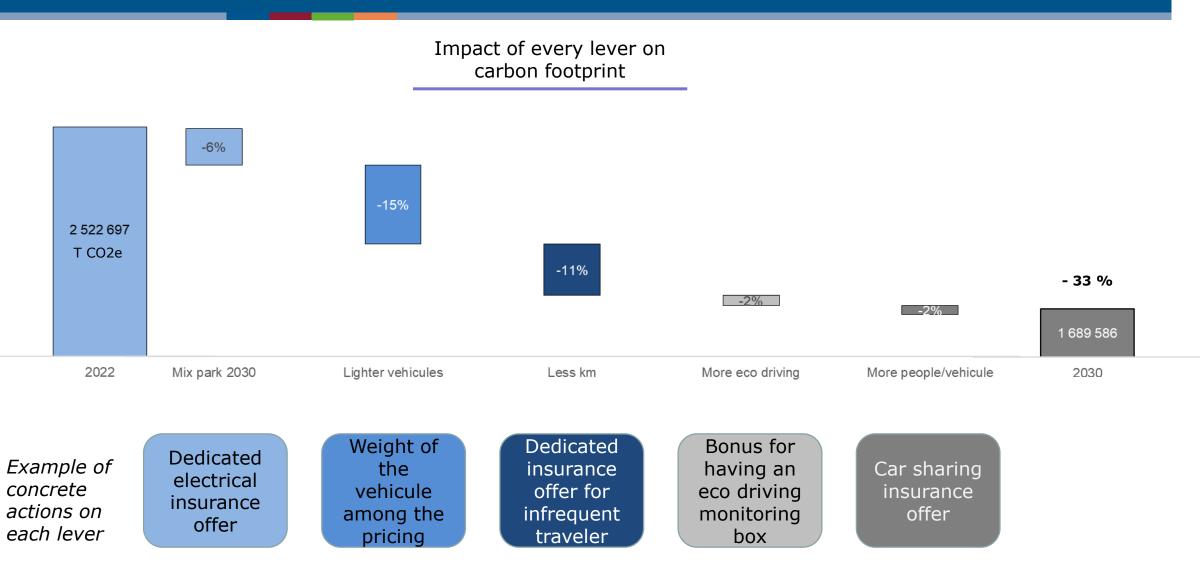


* French vehicule park (SDES) ** w/ Green Growth ICE BAN 2035 hypothesis





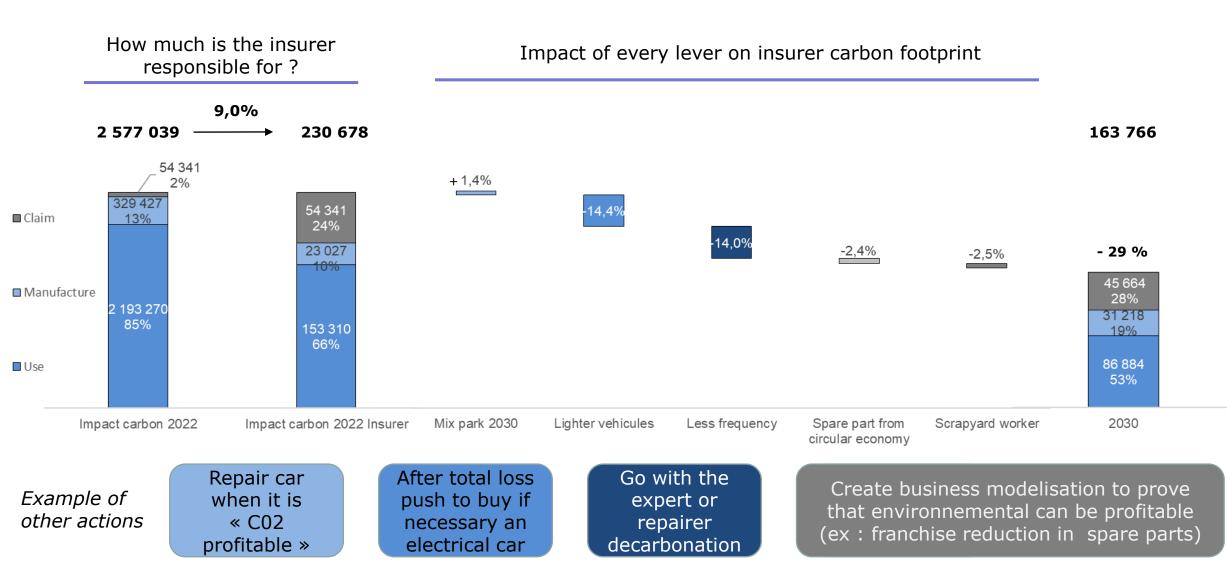
2 - Example : the impact of vehicle portfolio







2 - Example : the impact of vehicle portfolio



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2 - Example : the impact of vehicle portfolio

