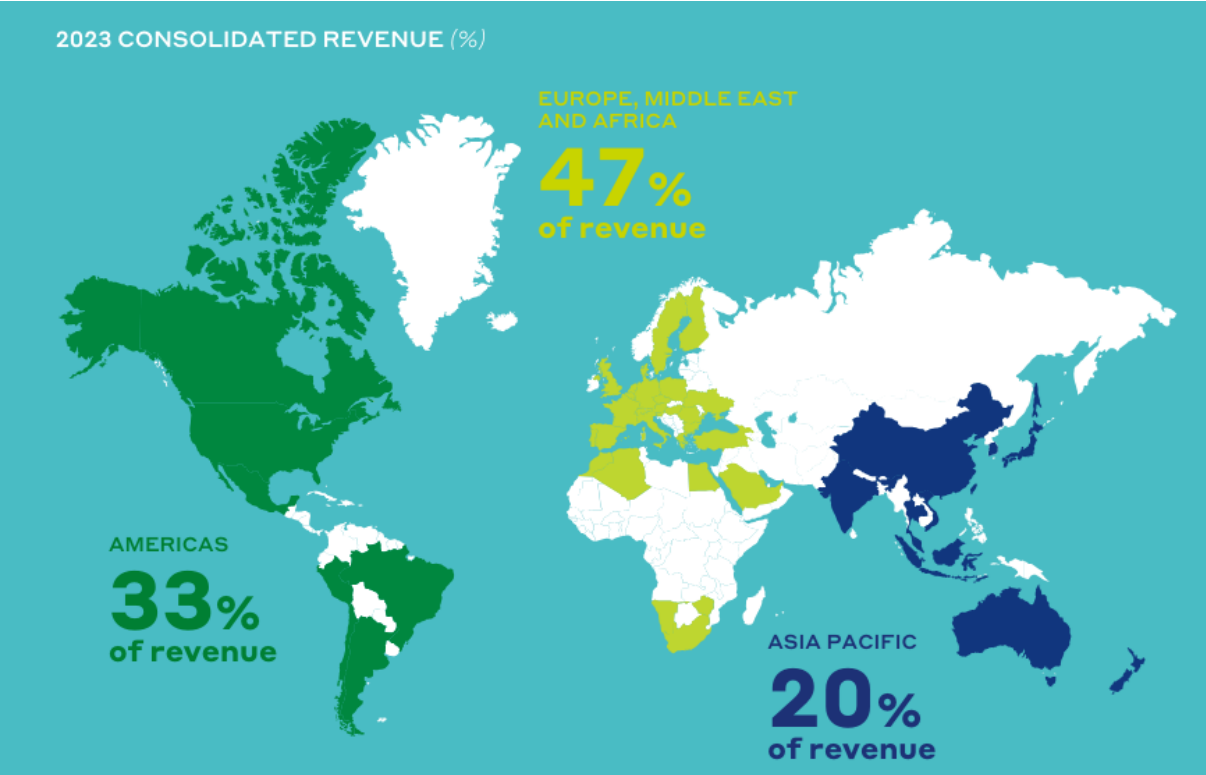


Testimony Land Use - Score LCA

Imerys Sustainability Team | 25.09.2024

Imerys, the world's leading supplier of mineral-based specialty solutions

 <p>#1 in 75% <i>of our businesses</i></p>	 <p>Nearly 24,000 <i>customers</i></p>
 <p>13,700 <i>employees</i></p>	 <p>€3.8bn <i>revenue</i></p>
 <p>179 <i>industrial sites</i></p>	 <p>Sales in 126 <i>countries</i></p>



Imerys, a mining company



Villers, France, Ground Calcium Carbonate



Savins quarry during the exploitation in 2014. Source: Imerys

Old quarry
rehabilitation



Quarry of Savins in March 2021. Source: Imerys



Quarry of Savins in June 2022. Source: Imerys

Life Cycle Assessment at Imerys (1/2)



Measuring sustainable solutions

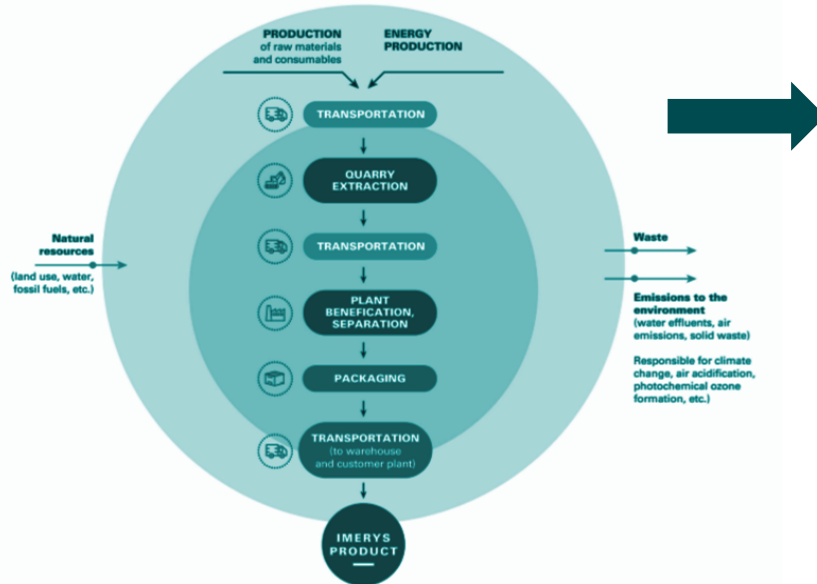
Imerys' ambition is to proactively **steer the overall product and project portfolios towards improved sustainability performance** and sustainable solutions.

75%

of our current product portfolio assessed* against sustainability criteria by 2025.

*This includes LCA

LCA at Imerys are performed "from cradle-to-gate"



Impacts

- Climate change
- Resource depletion
- Air acidification
- Ozone depletion
- Water eutrophication
- Human toxicity
- Particulates matters (PM2,5)

Inventory flows

- Land use

- Water consumption
- Energy flows
- Circular economy (waste / recovered material & energy)

Life Cycle Assessment at Imerys (2/2)

Ecoprofile indicators

Impacts

- Climate change
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- Ozone depletion
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- Human toxicity
- Particulates matters

Inventory flows

- Land Use:
 - Occupation
 - Transformation from
 - Transformation to
- Water Consumption
- Energy flows
- Circular economy (waste / recovered material & energy)

Occupation is the only flow which is monetized (transformation flows are measured but not monetized and aggregated)

4 monetization coefficients (€/m²/year) depending on the type of land:

- Woodlands
- Grasslands
- Temperate forest
- Tropical forest
- Internal wetlands

Life Cycle Assessment at Imerys (2/2)

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Monetised Ecoprofile (Cost for the Planet)

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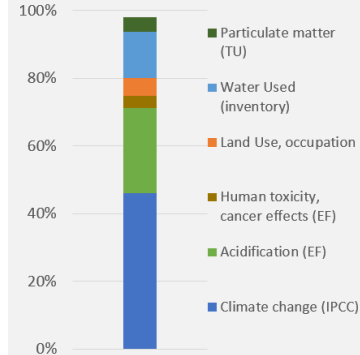
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Monetized Ecoprofile results



Inputs from ScoreLCA land use study

Occupation: Occupied area affecting land quality for a period of time

Transformation “from”: difference in soil quality from the state of land prior to transformation to the current state of land

Transformation “to”: measures the difference in soil quality from the initial natural state of the land to the state of the land at the end of the transformation

Do we want to measure impact on **ecosystem services** or **biodiversity** ?

LANCA

- Recommended by **European Commission**
- Fully compatible with ILCD and EF flow list
- **4 intermediary** indicators
- **SQI:** interpretation is not so easy
- **No monetisation** available
- **Not available in Imerys current LCA software**

All databases have limits and we should be aware of these limits when selecting a database and analysing the results

KEY TAKEAWAYS

- Both occupation and transformation (from and to) are important for Imerys but today only the occupation flow is taken into account in the monetized results
- Biodiversity is already well represented at Imerys with a dedicated program, so LCA should focus on ecosystemic services
- Best option seems to use LANCA but it is not available in our current software

Call to action: it is not possible today to implement LANCA but the availability of LANCA and corresponding databases should be a key criteria when:

- Selecting a new LCA software
- Updating the methodology

Thanks to the study, we will be able to **define our requirements and to understand the pros and cons of the different softwares**

Thank you for your attention

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