MATERIALS

Ansys Granta MI® for Sustainability
Product Overview

From executives aiming to reach corporate sustainability objectives to engineers making practical materials choices, enterprises face sustainability challenges at every level. Learn how to achieve your with Material Intelligence.

The Sustainability Challenge
Materials play a crucial role in a company's journey towards achieving net zero. Teams working on product development must take into account the materials that not only meet both performance and cost considerations, but also environmental regulations, and shifting customer attitudes.

However, many engineers are unaware of the sustainability impact of their material selection. It is important that these considerations are made at the beginning of the design process to avoid costly re-designs and delays in launching the product.

What is Granta MI® for Sustainability?
An optional module of our core Granta MI® software that offers teams working in early design the reference data, analysis tools and management framework to make proactive, data-driven decisions on materials for building more sustainable products.

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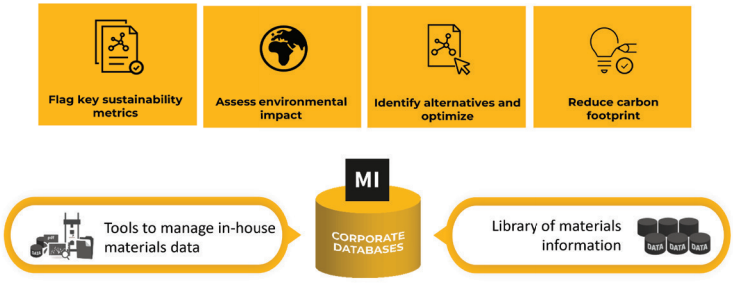
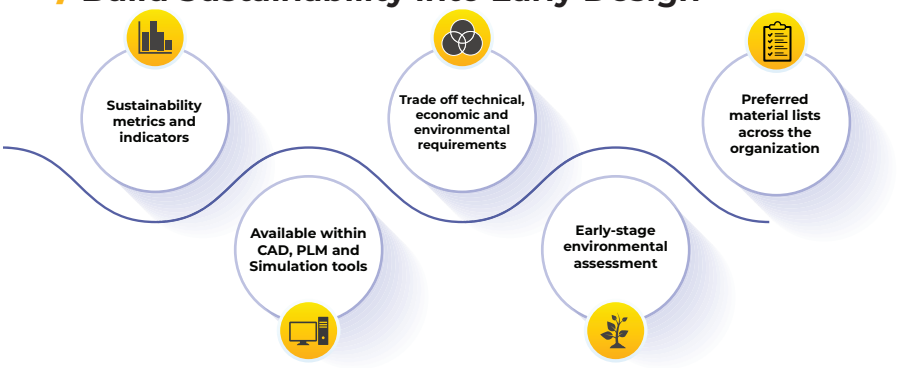


Build Sustainability into Early Design

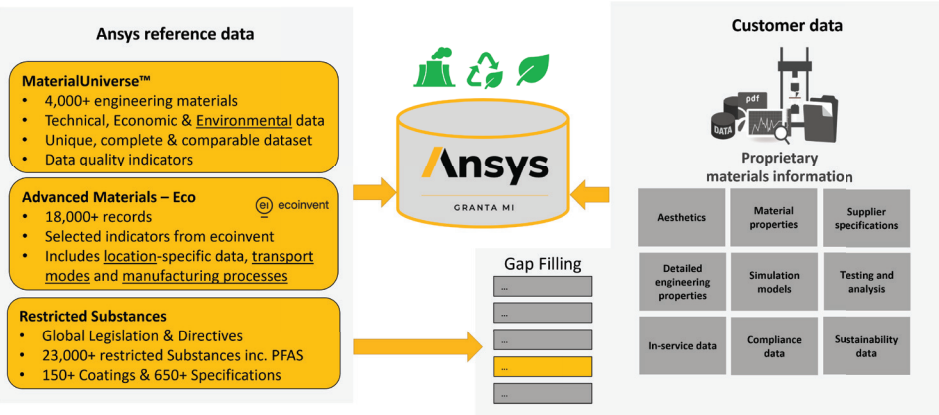


Features
- Quickly and simply assess the environmental footprint of products from cradle to gate – at the early stage of design.
- Extensive library of engineering materials, processes, secondary processes, manufacturing location and transportation, combining technical, economic and environmental data for the same materials.
- Carry out rapid what-if studies on material, process, mass, parts etc.
- Assess the environmental impact of bills of materials using our friendly BoM analyzer interface, or access BoM analytics directly via API or Python.
- Access BoMs from native CAD/CAE/PLM systems via Ansys Granta MI Gateways.
- Combine in-house data with Ansys reference data seamlessly – fallback to Ansys data during analyses to fill in gaps in in-house data.
- Select the optimal material for an application – balancing performance, cost and sustainability for an application.
- Update your preferred materials list to account for sustainability and publish out to your designers and manufacturers

Key Benefits
- Use materials to innovate and evolve your products.
- Reduce the environmental footprint of your products with comprehensive tools and data.
- Build sustainability into early design, where change costs the least and delivers the biggest impact.
- Enable designers with robust data and indicators directly within CAD and PLM.
- Avoid business risk due to environmental regulations.
- Ensure the traceability of your data through a single source of sustainable materials truth across the business.

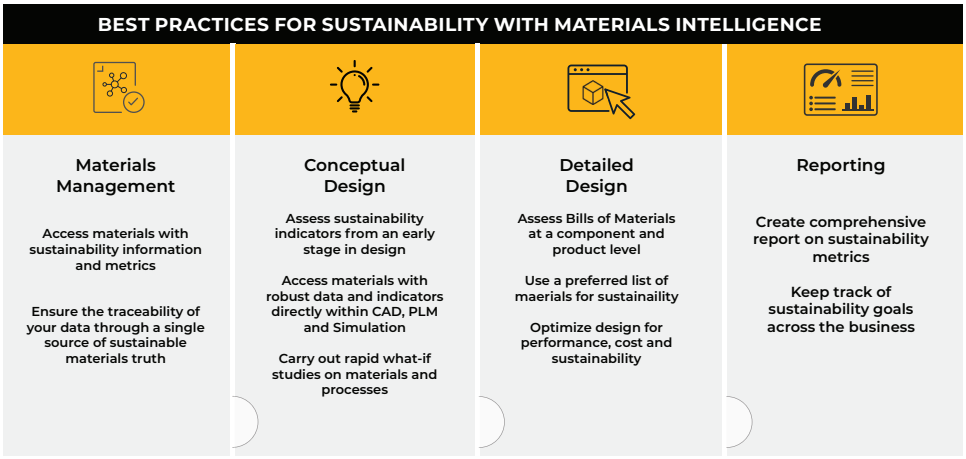
Rapidly fill knowledge gaps with unique reference data

Granta MI's unrivalled, regularly updated library of reference data enables teams to assess sustainability early in the design process, supplementing in-house data and acting as a fallback to fill gaps when in-house data is not available



Easily evaluate the environmental impact of components and products

A comprehensive toolset that empowers engineers to perform rapid assessments of the environmental footprint of BoMs, seamlessly between CAD/PLM and Granta MI, from cradle to gate – at the early stage of design. See the impact of changing materials or processes on your environmental footprint and assess changes in performance from changing materials with quick 'what-if' studies. For a full sustainability assessment, BoMs can be transferred in a straightforward manner to Granta MI's BoM Analyzer, where more advanced reporting can be performed.



EMIT Consortium

The Ansys Materials team works in collaboration with members of EMIT (large manufacturers and related agencies) to continually develop our solution - centered on information and decisions related to materials and processes.

EMIT CONSORTIUM

For more information on EMIT, visit: Granta Collaborations | Ansys

What do you buy?

- A comprehensive toolset for analyzing environmental impact, performing what-if studies and assessing bills of materials
- User-friendly web apps to enable data management, analytics and reporting
- A large dataset with technical economic and sustainability indicators for evaluating performance, cost and environmental impact
- Direct integration with leading CAD, CAE & PLM systems
- Easy-to-use APIs to enable integration with required systems
- PyGranta BoM Analytics - making custom Python integrations easier to write.

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When visionary companies need to know how their world-changing ideas will perform, they close the gap between design and reality with Ansys simulation. For more than 50 years, Ansys software has enabled innovators across industries to push boundaries by using the predictive power of simulation. From sustainable transportation to advanced semiconductors, from satellite systems to life-saving medical devices, the next great leaps in human advancement will be powered by Ansys.