

Summary

Gaia.BE® is a software package developed by Eurovia, used to accurately assess the environmental impact of a project over its lifecycle.

Developers: VINCI Construction & Eurovia

Applicable sectors							Themes		
All Infrastructure	Buildings	Roads	Water	Energy	Transport	Construction	Materials	Ecology	Wastewater
							Potable Water	Carbon/GHG	Other

Countries	International	Access	Commercially available
Compatibility with other tools	No specific tool	Guidance for users	Tool support comes in the form of VINCI Eurovia consulting services.
Inputs & outputs	<p>The software uses information on 16 environmental indicators to perform a detailed analysis of an entire worksite or of each individual stage of a project.</p> <p>Gaia.BE® presents the results in chart form, automatically generating a report from which all input data can be obtained.</p>	Methodology	<p>Gaia.BE® performs a lifecycle analysis of the environmental impacts of road and water treatment projects from material extraction to project delivery, including raw materials, production, laying and transport.</p> <p>Gaia.BE® breaks the project down to assess the environmental impact of each of its stages. It then calculates these impacts by means of a database comprising public information recognised by the industry and expertise provided by Eurovia’s research centre.</p>
Database library	<p>To reliably compare the various possible approaches to a project, Gaia.BE® integrates comprehensive data concerning tonnages produced, distances, transport and production systems and duration of machinery use.</p> <p>Additional options supporting the integration of more detailed parameters are available upon request.</p>	Data intensity & flexibility	Data intensity is reduced due to the tool's accompanying databases and consultancy services.